PARTNER
Engineering and Science, Inc.®



PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

West Hills
NW Corner of Roscoe Boulevard and
Fallbrook Avenue
Los Angeles, California 91304

Report Date: February 1, 2021
Partner Project No. 20-288877.1



Prepared for:

SCIND Fallbrook Point LLC
11150 Santa Monica Blvd, Suite 700
Los Angeles, California 90025

PARTNER
Engineering and Science, Inc.

February 1, 2021

Daniel Jacobs
SCIND Fallbrook Point LLC
11150 Santa Monica Blvd, Suite 700
Los Angeles, California 90025

Subject: Phase I Environmental Site Assessment
West Hills
NW Corner of Roscoe Boulevard and Fallbrook Avenue
Los Angeles, California 90670
Partner Project No. 20-288877.1

Dear Mr. Jacobs:

Partner Engineering and Science, Inc. (Partner) is pleased to provide the results of the *Phase I Environmental Site Assessment* (Phase I ESA) report of the abovementioned address (the "subject property"). This assessment was performed in conformance with the scope and limitations as detailed in the ASTM Practice E1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

This assessment included a site reconnaissance as well as research and interviews with representatives of the public, property ownership, site manager, and regulatory agencies. An assessment was made, conclusions stated, and recommendations outlined.

We appreciate the opportunity to provide environmental services to you. If you have any questions concerning this report, or if we can assist you in any other matter, please contact me at 310-622-8855.

Sincerely,



Debbie Stott
Principal

EXECUTIVE SUMMARY

Partner Engineering and Science, Inc. (Partner) has performed a Phase I Environmental Site Assessment (ESA) in accordance with the scope of work and limitations of ASTM Standard Practice E1527-13, the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries (AAI) (40 CFR Part 312) and set forth by Staley Point Capital for the property located on the northwest corner of Roscoe Boulevard and Fallbrook Avenue, Los Angeles, Los Angeles County, California (the "subject property"). The Phase I Environmental Site Assessment is designed to provide SCIND Fallbrook Point LLC with an assessment concerning environmental conditions (limited to those issues identified in the report) as they exist at the subject property.

Property Description

The subject property is located on the north side of Roscoe Boulevard, west of Fallbrook Avenue, within a commercial and residential area of Los Angeles County. Please refer to the table below for further description of the subject property:

Subject Property Data	
Address:	No address assigned
Historical Address:	8433 Fallbrook Avenue (Former Hughes Missile Systems Group Facility) and 22801 Roscoe Boulevard (Former DeVry University)
Additional Address:	22815 and 22825 West Roscoe Boulevard (reported on ZIMAS)
Property Use:	Commercial - Parking Lot
Land Acreage (Ac):	7.027 Ac
Number of Buildings:	No buildings
Assessor's Parcel Number (APN):	2005-002-018 (Current); 2005-002-013 and 2005-002-001 (Historical)
Current Tenants:	Vacant
Site Assessment Performed By:	Robin Blanchard of Partner
Site Assessment Conducted On:	August 13, 2020

The subject property is currently developed as a portion of a larger paved parking area, adjacent to the east of the Thermo-Fisher Scientific facility (22801 Roscoe Boulevard). In addition to the paved parking spaces and driving areas, the property is improved with landscaping, lighting, and an exercise path.

No evidence of the use, storage or management of reportable quantities of hazardous substances or petroleum products was observed on the subject property. No evidence of current or former ASTs or USTs was observed during the site reconnaissance.

According to review of available historical data, it appears that the subject property was agriculturally developed or vacant land from 1903 to 1952. By 1959, the subject property appears to be unpaved, vacant land located on the southeast corner of the larger Hughes Missile Systems Facility (part of 86-acre parcel). According to the regulatory records and previous reports, Bunker Ramo, an electrical component design and testing company, was the sole occupant of the facility from 1959 until 1966. From 1966 to 1976, Hughes Aircraft Company/Hughes Missile Systems (Hughes) Facility, an aerospace research and development company, was a co-occupant with Rocketdyne, a division of Rockwell International, and Bunker-Ramo. Hughes (currently known as Raytheon Company (Raytheon), its successor, purchased the

entire site in the mid-1970s and operated there until the mid-1990s. From 1978-1994, Hughes Building 275 was located on the north side of the subject property. The remainder of the subject property appears to be unpaved, vacant land. By 1999, subject property has been developed as a paved parking lot initially utilized by the adjacent DeVry University at 22801 Roscoe Boulevard (part of 15.25 acre parcel). The subject property remains a paved parking lot today.

The only information related to Building 275 indicates that it was a single-story building. Prior investigations did not include or discuss environmental concerns with Building 275 leading to the conclusion that this location was not of concern. Based on building permits included with the 2006 ESA for DeVry University, this building was demolished in 1998 when the adjacent DeVry University building and parking lot were being constructed.

The subject property, as part of a larger parcel, is identified on the GeoTracker database under two cases, Case No. SL2043T1572 and Case No. T10000011111. Raytheon Company is the responsible party for clean-up activities. According to information from the GeoTracker database, the subject property was a parcel located on the southeast corner of the former 86-acre Hughes Missile Systems facility, also referred to as the Former Canoga Park Facility and Raytheon Canoga Park Site. The facility is being jointly investigated by the Regional Water Quality Control Board (RWQCB) and the Department of Toxic Substances Control (DTSC). The RWQCB oversees the investigation and remediation of groundwater contamination at the site and the DTSC has jurisdiction to oversee the site soil contamination. Subsequently, the northern and southern portions of the former 86-acre facility were separated into different groundwater cases for investigation purposes but remain together for soil investigation. The subject property is located on the southeast corner of the former 86-acre facility and the southern investigation area referred to as the Southern Parcels of the Former Hughes Missile Systems Co.

A summary of the cases is provided below:

RWQCB Case No. SL2043T1572/DTSC Case Nos. 80001366 & CAD041162124 for Hughes Missiles Co./Raytheon Systems Co. (8433 Fallbrook Avenue): Currently Open, Corrective Action Case with the DTSC and RWQCB - monitoring ongoing. Responsible Party is Raytheon.

Since 1988, remedial efforts have been implemented to treat groundwater and saturated soils that contain residual volatile organic compounds (VOCs) at the Site. Chemicals of concern include Tetrachloroethene (PCE), Trichloroethene (TCE), cis-1,2-Dichloroethene (cis-1,2-DCE), 1,1-Dichloroethane (1,1-DCA), and 1,2-Dichloroethane (1,2-DCA). Groundwater remediation with injection wells has been underway at the Site since 1995 to achieve cleanup criteria. Under the oversight of the RWQCB, the primary objective of the remediation program is to accelerate the degradation of VOCs to concentrations below the cleanup goals established in the 1992 Corrective Action Plan (CAP), with the most recent Addendum to the CAP (CAP Addendum No. 5) in 2016. Remediation techniques used at the Site have included remedial excavation, a groundwater recovery and treatment system, a soil vapor extraction system, and an air sparge system. Enhanced in-situ bioremediation (EISB) was implemented in 2005 to 2020. Based on the attached figures, the majority of the treatment areas, known as Northwest Area, North-Central Area, Former Building 269 Area, and Well CM-8D Area, are located to the northwest (0.17-mile from the subject property) of the subject property and along the northwestern boundary (0.34-mile from the subject property) of the Former Canoga Park Facility.

According to a December 15, 2017 Letter to the Raytheon Company from DTSC, additional investigations and/or submittals may be requested by the DTSC for the subject property since they are the lead regulatory agency to oversee the corrective action to soil at the Southern Parcels at the Raytheon Canoga Park Site. Further investigation of the identified Areas of Concern (AOCs) identified in the RCRA Facility Assessment Report dated January 30, 2008 was required by DTSC. The 2008 RCRA Facility Assessment Report indicated that AOCs including Solid Waste Management Unit (SWMU)-9 (Sanitary Sewer) and AOC-12 (Storm Sewers) were identified at the subject property, as discussed below:

- SWMU-9 is defined as the Site wide sewer line. Releases to soil near soil boring BSL-4. Constituents include arsenic. The report notes that the Site wide assessment in 1991 did not show any metal contamination at detection limits. One sample had a trace (0.009 milligram per kilogram (mg/kg)) of toluene. Sample B-SL had 0.3 mg/kg of toluene. No other VOCs were detected. DTSC concluded that there was a need to determine if any issues remain.
- AOC-12 is defined as the Site wide storm water system. Releases are suspected.

Partner notes that the DTSC has not conducted or required further investigation of the Southern Parcels (including the subject property).

Soil at the subject property and larger Corporate Pointe at West Hills (Former Canoga Park Facility) are being managed under a Soil Management Plan prepared by Environ International Corporation dated May 12, 2008.

RWQCB Case No. T10000011111: Southern Parcels -Former Hughes Missile Systems Co. (8433 Fallbrook Avenue): Closed Case – No further action for groundwater with RWQCB as of March 22, 2018. Current open case with the DTSC for potential soil impacts.

According to information from the GeoTracker database, the subject property is located on the southeast corner of the investigation area referred to as the Southern Parcels of the Former Hughes Missile Systems Co. The groundwater closure request affected the southern parcels identified by APNs 2005-002-014, APN 2005-002-901, APN 2005-002-013. The subject property is located within the boundary of APN 2005-002-013.

According to the July 31, 2012 Confirmation Sampling Report and other documents, trichlorofluoromethane (Freon 11) was detected in soil and groundwater underlying the southern parcels. Freon 11 was historically used in refrigeration devices and as a solvent. Historically, concentrations of trichlorofluoromethane were detected up to 300 micrograms per Liter (µg/L), above the California drinking water maximum contaminant level (MCL) of 150 µg/L, in groundwater well CM-10. Based on report figures, groundwater monitoring wells, CM-17 and CM-10, were located along the eastern boundary of the subject property.

A 1998 Figure attached to a prior ESA report depicted:

- Former Hughes Building 275 was formerly located on the northern portion of the subject property.
- A former southeast trending sewer line is shown onsite crossing to the south of Building 275 to a municipal sewer discharge point discharge on the eastern portion of the subject property.

- A drainage ditch is depicted along the eastern border of the subject property, adjacent to Fallbrook Avenue. Soil gas sampling points collected in June and August 1995 along the sewer line and at Well CM-10 are shown as Non-Detected (ND) (<1 µg/L).
- An area with Freon 11 concentrations in soil gas ranging from 100 – 1,000 µg/L is depicted on/and or adjacent to the northwest of the subject property.
- Former Hughes Buildings 274, 265, and 276 are shown to the northwest and west to the subject property.

Follow-up characterization activities were conducted between 1993 and 1998 in the area near Buildings 274 and 276, which is upgradient from well CM-10 and adjacent to the northwest of the subject property. to identify the source of the Freon 11 concentrations. The investigations indicated that an area of Freon 11 concentrations greater than 1,000 µg/L in soil gas was delineated in the former parking lot and southeast of former Building 274 (thereafter termed "the Freon 11 Area"). In 1998, three temporary wells and one permanent well (MW-31) were installed within the Freon 11 Area.

In August 1993, a monitoring well and soil borings were completed within the area enclosed by Buildings 276 and 274 and Well CM-10. One boring (B-SL-10) advanced immediately northwest of well CM-10 had no Volatile Organic Compounds (VOCs) reported above their respective detection limits in the soil samples collected at 10, 20, and 30 feet below ground surface (bgs).

In June 1995, soil gas surveys were conducted to delineate the lateral extent of Freon 11-impacted soil. Soil gas probes were installed at four locations within the immediate area of well CM-10, one was located at an on-site sewer junction within the vicinity of well CM-10, and one was located immediately southeast of the former Building 274 cooling unit. All probes were set at approximately 5 feet bgs. Freon 11 was detected at the on-site sewer junction and adjacent to the cooling unit for the former Building 274 at concentrations of 183 µg/L and 6 µg/L. No Freon 11 was detected above the reporting limit at the soil gas probes installed within the immediate area of well CM-10 (this is on the east side of the subject property).

In May 1998, soil and groundwater samples were collected for analytical laboratory analysis during well installation of temporary and permanent monitoring wells. Temporary and permanent monitoring wells were installed in the vicinity of well CM-10 and the Freon 11 Area located to the northwest of the subject property.

Soil and groundwater analytical results indicated no VOC concentrations had been detected above the MCLs for drinking water in groundwater samples from each of the monitoring wells (CM-10, CM-11A, CM-12, CM-15, CM-17, MW-21S, MW-21D, MW-22S, MW-22D, MW-28, MW-29, MW-30 and MW-31) located on or in the vicinity of the Southern Parcels for more than 10 years of groundwater monitoring. Moreover, samples from all wells, except for wells CM-10 and MW-31, have been non-detect for the Site constituents of concern (chlorinated VOCs), for more than 15 years.

In a response to a June 27, 2006, memorandum requesting removal of Southern Parcel monitoring wells and NFA status for the Southern Parcels, the RWQCB issued a letter dated January 22, 2007, approving the removal of several wells from the monitoring program, but did not approve their abandonment, citing concerns about the potential presence of manmade radiological isotopes in wells CM-10, CM-12 and CM-17 based on community concerns with previous data.

Between March 2008 and August 2009, Raytheon, OTIE, and the RWQCB worked together to evaluate radiological conditions in the Southern Parcels. A radiological evaluation was performed; the results of the radiological evaluation indicated that the presence of low-level radiological isotopes were attributable to naturally-occurring sources in the underlying soil, bedrock, and groundwater. The RWQCB concurred, and issued a NFA letter with regard to radioactivity in groundwater for the Southern Parcels on October 30, 2009.

In addition to the radiological sampling, OTIE performed a confirmation sampling event including VOCs for wells CM-10, CM-11A, CM-12, CM-15, CM-17, MW-21S, MW-21D, MW-22S, MW-22D, MW-28, MW-29, MW-30, and MW-31 in November 2008. Analytical results from this confirmation sampling event were non-detect for all VOCs (CM-11A, CM-12, CM-15, CM-17, MW-21S, MW-21D, MW-22S, MW-22D, MW-28, MW-29, and MW-30) or below the MCL for the only detected VOC, Freon 11. Freon 11 was detected only in wells CM-10 (onsite) and MW-31 (offsite to the north.

Based on the findings of the NFA for radiological parameters and confirmation results for VOCs in the Southern Parcel wells, Raytheon sought NFA status from the RWQCB for the Southern Parcels once again in a technical memorandum dated July 8, 2010. The RWQCB responded in a letter dated May 13, 2011 and requested Raytheon to better define vertical and lateral extent of the Freon 11 plume detected in wells MW-31 and CM-10. Additional characterization identified a Freon 11 Area (>1,000 µg/L in soil gas) located around MW-31 that may have extended to the southeast on to the northwest corner of the subject property. According to 2012 groundwater sampling data, the Freon was the only VOC detected previously above MCL in groundwater in the Southern Parcels of the Site. A concentration of 35 µg/L was detected in Well CM-10 (screened interval of 34-52 feet) and at 120 µg/L in MW-31 (screened interval of 45-72 feet).

OTIE stated that the concentration distributions indicated that the Freon 11 Area was limited to the area southeast of former Building 274. The postulated release of Freon 11 occurred in an unpaved area adjacent to the parking lot southeast of former Building 274, which may have been used as a maintenance area, up-gradient of the subject property. This area was identified by shallow soil gas investigations in 1995, which delineated an area of elevated Freon 11 greater than 1,000 µg/L. Therefore, OTIE concluded it was likely that surface releases of Freon 11 infiltrated the vadose zone in this area, and migrated vertically to groundwater, then migrated laterally in groundwater in the dissolved phase. Groundwater impacted by Freon 11 was localized to the area of well MW-31 and downgradient to well CM-10.

At the request of the DTSC, MW-31 and CM-10 located in and down-gradient of the former Freon 11 Area of Concern were monitored on January 22, 2018. Only one sample was collected from MW-31 and analyzed for VOCs. Well CM-10 was dry at the time of sampling. Freon 11 was detected at a concentration of 64 µg/L, below the MCL of 150 µg/L. No other VOCs were detected in MW-31.

On March 22, 2018, the RWQCB concluded that the southern portion of the facility had met the Regional Board requirements for groundwater closure and issued a NFA letter on March 22, 2018. On July 17, 2018, the RWQCB approved Raytheon's request to destroy 13 wells on the Southern Parcels including onsite wells CM-10 and CM-17 which were removed on September 6 and 10, 2018.

The subject property is located within a commercial/residential area of Los Angeles County. During the vicinity reconnaissance, Partner observed the following land use on properties in the immediate vicinity of the subject property:

Immediately Surrounding Properties

North: Paved parking and driveway access, commercial multi-tenant building and parking for commercial center (8401-8413 Fallbrook Avenue).

South: Roscoe Boulevard, followed by residential properties(houses fronting on Roscoe: 22816-22852 Roscoe Boulevard, 8247 Fallbrook Avenue), Yoga By the Sea (22824 Roscoe Boulevard), and a multi-tenant retail building 22750 Roscoe Boulevard and 8240 Fallbrook Avenue).

East: Fallbrook Avenue, followed by residential properties (8344-8362 Fallbrook Avenue; 8301-8311 Maynard Ave).

West: Paved parking lot and Thermo Fisher Scientific (22801 Roscoe Boulevard).

According to information obtained from the State Water Resources Control Board GeoTracker online database for the adjacent property (Case Number SL2043T1572 – Hughes Missiles Co. (Former) at 8433 Fallbrook Avenue, Remedial Progress Report for the Second Quarter 2018, OTIE July 30, 2018), groundwater in monitoring wells MW-25 and MW26 in the vicinity of the subject property is present at a depths ranging from 41.40 to 48.38 feet below ground surface (bgs) and flows toward the southeast.

Findings

A *recognized environmental condition (REC)* refers to the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: due to release to the environment; under conditions indicative of a release to the environment; or under conditions that pose a material threat of a future release to the environment. The following was identified during the course of this assessment:

- Partner did not identify any recognized environmental conditions during the course of this assessment.

A *controlled recognized environmental condition (CREC)* refers to a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls. The following was identified during the course of this assessment:

- Partner did not identify any controlled recognized environmental conditions during the course of this assessment.

A *historical recognized environmental condition (HREC)* refers to a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls. The following was identified during the course of this assessment:

- Groundwater beneath the subject property has been impacted by historical releases associated with the former Hughes' operations, these impacts have been investigated and characterized under RWQCB regulatory oversight. On March 22, 2018, the RWQCB concluded that the southern

portion of the former Hughes facility had met the Regional Board requirements for groundwater closure and issued a NFA letter on March 22, 2018. Onsite wells CM-10 and CM-17 were removed on September 6 and 10, 2018. Based on the analytical results and regulatory case closure, the impacts to groundwater beneath the subject property are considered to be HRECs.

An *environmental issue* refers to environmental concerns identified by Partner, which do not qualify as RECs; however, warrant further discussion. The following was identified during the course of this assessment:

- The subject property is located within the boundary of the open Corrective Action Case for the former Hughes Missile Systems facility. Additional investigations and/or submittals may be requested by the DTSC for the subject property since two AOCs including Solid Waste Management Unit (SWMU)-9 (Sanitary Sewer) and AOC-12 (Storm Sewers), were identified at the subject property in the 2008 RCRA Facility Assessment Report and remain uninvestigated. Closure certification and completion corrective action are outstanding. Partner notes that the DTSC has not investigated or required investigation of the sanitary and storm sewers.

Conclusions, Opinions and Recommendations

Partner has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 of the property located on the northwest corner of Roscoe Boulevard and Fallbrook Avenue, Los Angeles, Los Angeles County, California (the "subject property"). Any exceptions to, or deletions from, this practice are described in Section 1.5 of this report.

This assessment has revealed evidence of a historical recognized environmental condition and environmental issues in connection with the subject property. Based on the conclusions of this assessment, Partner recommends the following:

- Further evaluation of subsurface environmental conditions is not warranted at this time.
- Manage any disturbance of onsite soils with existing Soil Management Plan as needed.
- Further assessment of onsite soils in the vicinity of the sewer lines may be required in the future by DTSC as part of ongoing open, Corrective Action Case for the former Hughes Missiles Co./Raytheon Systems Co. Facility. Note that the DTSC has not yet required investigation of these areas.

Table of Contents

1.0 INTRODUCTION 1
1.1 Purpose 1
1.2 Scope of Work 1
1.3 Limitations 2
1.4 User Reliance 2
1.5 Limiting Conditions 3
2.0 SITE DESCRIPTION 4
2.1 Site Location and Legal Description 4
2.2 Current Property Use 4
2.3 Current Use of Adjacent Properties 4
2.4 Physical Setting Sources 4
2.4.1 Topography 4
2.4.2 Hydrology 5
2.4.3 Geology/Soils 5
3.0 HISTORICAL INFORMATION 6
4.0 REGULATORY RECORDS REVIEW 9
4.1 Regulatory Agencies 9
4.1.1 Health Department 9
4.1.2 Fire Department 9
4.1.3 Air Pollution Control Agency 9
4.1.4 Regional Water Quality Agency 10
4.1.5 Department of Toxic Substances Control 14
4.1.6 Building Department 15
4.1.7 Planning Department 15
4.1.8 Oil & Gas Exploration 16
4.1.9 Assessor's Office 16
4.2 Mapped Database Records Search 16
4.2.1 Regulatory Database Summary 16
4.2.2 Subject Property Listings 17
4.2.3 Adjacent Property Listings 18
4.2.4 Sites of Concern Listings 18
4.2.5 Orphan Listings 18
5.0 USER PROVIDED INFORMATION AND INTERVIEWS 19
5.1 Interviews 19
5.1.1 Interview with Owner 19
5.1.2 Interview with Report User 20
5.1.3 Interview with Key Site Manager 20
5.1.4 Interviews with Past Owners, Operators and Occupants 20
5.1.5 Interview with Others 20
5.2 User Provided Information 20
5.2.1 Title Records, Environmental Liens, and AULs 20
5.2.2 Specialized Knowledge 20
5.2.3 Actual Knowledge of the User 20
5.2.4 Valuation Reduction for Environmental Issues 20

5.2.5 Commonly Known or Reasonably Ascertainable Information 20
5.2.6 Previous Reports and Other Provided Documentation 20
6.0 SITE RECONNAISSANCE 23
6.1 General Site Characteristics 23
6.2 Potential Environmental Hazards 24
6.3 Non-ASTM Services 25
6.3.1 Asbestos-Containing Materials (ACMs) 25
6.3.2 Lead-Based Paint (LBP) 25
6.3.3 Radon 25
6.3.4 Lead in Drinking Water 25
6.3.5 Mold 25
6.4 Adjacent Property Reconnaissance 26
7.0 FINDINGS AND CONCLUSIONS 27
8.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS 29
9.0 REFERENCES 30

Figures

Figure 1 Site Location Map
Figure 2 Site Plan
Figure 3 Topographic Map

Appendices

Appendix A Site Photographs
Appendix B Historical/Regulatory Documentation
Appendix C Regulatory Database Report
Appendix D Qualifications

1.0 INTRODUCTION

Partner Engineering and Science, Inc. (Partner) has performed a Phase I Environmental Site Assessment (ESA) in conformance with the scope and limitations of ASTM Standard Practice E1527-13 and the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries (AAI) (40 CFR Part 312) for the property located on the northwest corner of Roscoe Boulevard and Fallbrook Avenue, Los Angeles, Los Angeles County, California (the "subject property"). Any exceptions to, or deletions from, this scope of work are described in the report.

1.1 Purpose

The purpose of this ESA is to identify existing or potential Recognized Environmental Conditions (as defined by ASTM Standard E1527-13) affecting the subject property that: 1) constitute or result in a material violation or a potential material violation of any applicable environmental law; 2) impose any material constraints on the operation of the subject property or require a material change in the use thereof; 3) require clean-up, remedial action or other response with respect to Hazardous Substances or Petroleum Products on or affecting the subject property under any applicable environmental law; 4) may affect the value of the subject property; and 5) may require specific actions to be performed with regard to such conditions and circumstances. The information contained in the ESA Report will be used by Client to: 1) evaluate its legal and financial liabilities for transactions related to foreclosure, purchase, sale, loan origination, loan workout or seller financing; 2) evaluate the subject property's overall development potential, the associated market value and the impact of applicable laws that restrict financial and other types of assistance for the future development of the subject property; and/or 3) determine whether specific actions are required to be performed prior to the foreclosure, purchase, sale, loan origination, loan workout or seller financing of the subject property.

This ESA was performed to permit the *User* to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on scope of Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (42 U.S.C. §9601) liability (hereinafter, the "*landowner liability protections*," or "*LLPs*"). ASTM Standard E1527-13 constitutes "*all appropriate inquiry* into the previous ownership and uses of the *property* consistent with good commercial or customary practice" as defined at 42 U.S.C. §9601(35)(B).

1.2 Scope of Work

The scope of work for this ESA is in accordance with the requirements of ASTM Standard E1527-13. This assessment included: 1) a property and adjacent site reconnaissance; 2) interviews with key personnel; 3) a review of historical sources; 4) a review of regulatory agency records; and 5) a review of a regulatory database report provided by a third-party vendor. Partner contacted local agencies, such as environmental health departments, fire departments and building departments in order to determine any current and/or former hazardous substances usage, storage and/or releases of hazardous substances on the subject property. Additionally, Partner researched information on the presence of activity and use limitations (AULs) at these agencies. As defined by ASTM E1527-13, AULs are the legal or physical restrictions or limitations on the use of, or access to, a site or facility: 1) to reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil or groundwater on the subject

property; or 2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment. These legal or physical restrictions, which may include institutional and/or engineering controls (IC/ECs), are intended to prevent adverse impacts to individuals or populations that may be exposed to hazardous substances and petroleum products in the soil or groundwater on the property.

If requested by Client, this report may also include the identification, discussion of, and/or limited sampling of asbestos-containing materials (ACMs), lead-based paint (LBP), mold, and/or radon.

1.3 Limitations

Partner warrants that the findings and conclusions contained herein were accomplished in accordance with the methodologies set forth in the Scope of Work. These methodologies are described as representing good commercial and customary practice for conducting an ESA of a property for the purpose of identifying recognized environmental conditions. There is a possibility that even with the proper application of these methodologies there may exist on the subject property conditions that could not be identified within the scope of the assessment or which were not reasonably identifiable from the available information. Partner believes that the information obtained from the record review and the interviews concerning the subject property is reliable. However, Partner cannot and does not warrant or guarantee that the information provided by these other sources is accurate or complete. The conclusions and findings set forth in this report are strictly limited in time and scope to the date of the evaluations. The conclusions presented in the report are based solely on the services described therein, and not on scientific tasks or procedures beyond the scope of agreed-upon services or the time and budgeting restraints imposed by the Client. No other warranties are implied or expressed.

Some of the information provided in this report is based upon personal interviews, and research of available documents, records, and maps held by the appropriate government and private agencies. This report is subject to the limitations of historical documentation, availability, and accuracy of pertinent records, and the personal recollections of those persons contacted.

This practice does not address requirements of any state or local laws or of any federal laws other than the all appropriate inquiry provisions of the LLPs. Further, this report does not intend to address all of the safety concerns, if any, associated with the subject property.

Environmental concerns, which are beyond the scope of a Phase I ESA as defined by ASTM include the following: ACMs, LBP, radon, and lead in drinking water. These issues may affect environmental risk at the subject property and may warrant discussion and/or assessment; however, are considered non-scope issues. If specifically requested by the Client, these non-scope issues are discussed in Section 6.3.

1.4 User Reliance

Staley Point Capital engaged Partner to perform this assessment in accordance with an agreement governing the nature, scope and purpose of the work as well as other matters critical to the engagement. All reports, both verbal and written, are for the sole use and benefit of Staley Point Capital, SCIND Fallbrook Point LLC, its parent, affiliates, subsidiaries and their successors, and assigns, each of such parties' counsel and lenders, are entitled to rely upon this Report and to use its contents and conclusions as may be appropriate. Either verbally or in writing, third parties may come into possession of this report

or all or part of the information generated as a result of this work. In the absence of a written agreement with Partner granting such rights, no third parties shall have rights of recourse or recovery whatsoever under any course of action against Partner, its officers, employees, vendors, successors or assigns. Any such unauthorized user shall be responsible to protect, indemnify and hold Partner, Client and their respective officers, employees, vendors, successors and assigns harmless from any and all claims, damages, losses, liabilities, expenses (including reasonable attorneys' fees) and costs attributable to such Use. Unauthorized use of this report shall constitute acceptance of and commitment to these responsibilities, which shall be irrevocable and shall apply regardless of the cause of action or legal theory pled or asserted. Additional legal penalties may apply.

1.5 Limiting Conditions

The findings and conclusions contain all of the limitations inherent in these methodologies that are referred to in ASTM E1527-13.

Specific limitations and exceptions to this ESA are more specifically set forth below:

- Interviews with past owners, operators and occupants were not reasonably ascertainable and thus constitute a data gap. Based on information obtained from other historical sources (as discussed in Section 3.0), this data gap is not expected to alter the findings of this assessment.

2.0 SITE DESCRIPTION

2.1 Site Location and Legal Description

The subject property at 22815-22825 Roscoe Boulevard in Los Angeles, California is located on the northwest corner of Roscoe Boulevard and Fallbrook Avenue. According to the provided Preliminary Title Company issued by Chicago Title, the subject property is legally described as APN 2005-002-018. According to the Los Angeles County Assessor and the Preliminary Title Company, the subject property is legally described as Tract PM 7115, BK 276-1/4, Lot A and ownership is vested in BSREP West Hills Office Campus LLC.

Please refer to Figure 1: Site Location Map, Figure 2A: Site Plan, Figure 2B Historical Well Location Map, Figure 3: Topographic Map, and Appendix A: Site Photographs for the location and site characteristics of the subject property.

2.2 Current Property Use

The subject property is currently developed as a portion of a larger paved parking area, adjacent to the east of the Thermo-Fisher Scientific facility (22801 Roscoe Boulevard). In addition to the paved parking spaces and driving areas, the property is improved with landscaping, lighting, and an exercise path.

The subject property is designated for light industrial development by the City of Los Angeles.

2.3 Current Use of Adjacent Properties

During the vicinity reconnaissance, Partner observed the following land use on properties in the immediate vicinity of the subject property:

Immediately Surrounding Properties

North: Paved parking and driveway access, commercial multi-tenant building and parking for commercial center (8401-8413 Fallbrook Avenue).

South: Roscoe Boulevard, followed by residential properties (houses fronting on Roscoe: 22816-22852 Roscoe Boulevard, 8247 Fallbrook Avenue), Yoga By the Sea (22824 Roscoe Boulevard), and a multi-tenant retail building 22750 Roscoe Boulevard and 8240 Fallbrook Avenue).

East: Fallbrook Avenue, followed by residential properties (8344-8362 Fallbrook Avenue; 8301-8311 Maynard Ave).

West: Paved parking lot and Thermo Fisher Scientific office building (22801 Roscoe Boulevard).

2.4 Physical Setting Sources

2.4.1 Topography

The United States Geological Survey (USGS) *Calabasas, California* Quadrangle 7.5-minute series topographic map was reviewed for this ESA. According to the contour lines on the topographic map, the subject property is located at approximately 842 feet above mean sea level (MSL). The contour lines in the area of the subject property indicate the area is sloping toward the southeast.

A copy of the most recent topographic map is included as Figure 3 of this report.

2.4.2 Hydrology

According to information obtained from the State Water Resources Control Board GeoTracker online database for the adjacent property (Case Number SL2043T1572 – Hughes Missiles Co. (Former) at 8433 Fallbrook Avenue, Remedial Progress Report for the Second Quarter 2018, OTIE July 30, 2018), groundwater in monitoring wells MW-25 and MW26 in the vicinity of the subject property is present at depths ranging from 41.40 to 48.38 feet below ground surface (bgs) and flows toward the southeast.

The nearest surface waters in the vicinity of the subject property is Less Lake located approximately 0.28-mile to the northwest and the Chatsworth Creek located approximately 0.19-mile to the west of the subject property. No settling ponds, lagoons, surface impoundments, wetlands or natural catch basins were observed at the subject property during this assessment.

2.4.3 Geology/Soils

The site is located in the north-central portion of the Peninsular Ranges physiographic province. The Peninsular Ranges is bounded to the east by the Colorado Desert, to the south by the Mexican Border, to the west by the Pacific Ocean, and to the north by the Transverse Ranges and the Los Angeles Basin. The Peninsular Ranges contain minor Jurassic and extensive Cretaceous igneous rocks associated with Nevadan plutonism. Marine Cretaceous sedimentary rocks are well represented and post-Cretaceous rocks form a restricted veneer of volcanic, marine and non-marine sediments.

On August 27, 2020, Partner conducted a Geotechnical Investigation at the subject property. Fill material consisting of clayey silt was encountered from the surface to approximately 11 feet bgs. Native sandy soil was encountered beneath the fill.

2.4.4 Flood Zone Information

Partner performed a review of the Flood Insurance Rate Map, published by the Federal Emergency Management Agency. According to Community Panel Numbers 06037C1275F and 06037C1280F, dated September 26, 2008, the subject property appears to be located in Zone X, an area located outside of the 100-year and 500-year flood plains.

3.0 HISTORICAL INFORMATION

Partner obtained historical use information about the subject property from a variety of sources. Information regarding past land use was obtained by a review of historical aerial photographs, historical Sanborn Fire Insurance maps, city directories, and historical topographic maps of the subject property and surrounding area obtained from Environmental Data Resources (EDR). Copies of the historical resources are included in Appendix B. EDR reported that Sanborn™ Fire Insurance Maps were not available for the subject property. A chronological listing of the historical data found is summarized in the table below.

Date	Scale or Address	Source	Summary
1903	1:62,500	Topographic Map	The subject property and immediately surrounding area are depicted as vacant land. Chatsworth Reservoir is located further to the north. Various improved roads and railroad lines are shown throughout the surrounding area.
1925, 1927, 1928, 1929, 1932, 1933, 1944, 1947	1:24,000	Topographic Map	The subject property and surrounding area appear to be vacant land. Roscoe Street is located adjacent to the south and Fallbrook Avenue is located to the south of Roscoe Boulevard. Chatsworth Reservoir is located further to the north. By 1927/1928, a dirt road is located to the west and scattered structures are depicted in the site vicinity. By 1932/1933, Fallbrook Avenue is depicted as a dirt road adjacent to the east of the subject property. By 1944, agriculturally developed land is shown adjacent to the south of Roscoe Boulevard.
1928-1952	1"=500'	Aerial Photograph	The subject property and adjacent properties were vacant land or agriculturally developed. A Circular dirt road is located to the north and west. Less Lake is located further to the northwest. Scattered residential/farm related buildings are located to the north, east and southwest.
1952	1:24,000	Topographic Map	The subject property and surrounding properties to the north and west appear to be vacant land. Agriculturally developed land is depicted to the east and southeast. A driveway

Date	Scale or Address	Source	Summary
			and structure are located to the north.
1959-1970	1"=500'	Aerial Photograph	The subject property appears to be unpaved, vacant land located on the southeast corner of the Bunker-Ramo and later Hughes Missile Systems (Hughes)/Raytheon Facility (part of 86-acre parcel). Possible stormwater ditch is located on and adjacent to the western side of the subject property. An entrance driveway, Fallbrook Avenue and Roscoe Boulevard are located adjacent to the north, east and south. Access driveways, a dirt parcel, and Hughes Buildings including Buildings 274/255 are located to the west-northwest of the subject property.
1967	1:24,000	Topographic Map	The subject property and surrounding properties to the north and west are developed with the Hughes facility. Residential properties are located to the east and south.
1978-1994	1"=500'	Aerial Photograph	Hughes Building 275 is located on the north side of the subject property. The remainder of the subject property appears to be unpaved, vacant land (part of 86-acre parcel). An entrance driveway, Fallbrook Avenue and Roscoe Boulevard are located adjacent to the north, east and south. Access driveways, parking lots, and Hughes Buildings including Buildings 274/255 are located to the west-northwest of the subject property. By 1983, a baseball diamond is located adjacent to the west. By 1989, Hughes Building 276 is located to the northwest.
1999-2006	22801 Roscoe Boulevard	Previous Report	DeVry University parking lot (part of 15.25 acre parcel)

Date	Scale or Address	Source	Summary
2002-2016	1"=500'	Aerial Photograph	Subject property is developed as a paved parking lot as seen during the site visit. An entrance driveway, Fallbrook Avenue and Roscoe Boulevard are located adjacent to the north, east and south. Commercial building (22801 Roscoe Boulevard) and associated parking lot are located to the west. Commercial buildings (Former Hughes Buildings 276 and 265) at 8403 and 8401 and parking lots are located to the west-northwest of the subject property.
2012	1:24,000	Topographic Map	The current street configuration is depicted.

According to review of available historical data, it appears that the subject property was agriculturally developed or vacant land from 1903 to 1952. By 1959, the subject property appears to be unpaved, vacant land located on the southeast corner of the larger Hughes Missile Systems Facility (part of 86-acre parcel). According to the regulatory records and previous reports, Bunker Ramo, an electrical component design and testing company, was the sole occupant of the facility from 1959 until 1966. From 1966 to 1976, Hughes Aircraft Company/ Hughes Missile Systems (Hughes) Facility, an aerospace research and development company, was a co-occupant with Rocketdyne, a division of Rockwell International, and Bunker-Ramo. Hughes (currently known as Raytheon Company (Raytheon), its successor, purchased the entire site in the mid-1970s and operated there until the mid-1990s. From 1978-1994, Hughes Building 275 is located on the north side of the subject property. The remainder of the subject property appears to be unpaved, vacant land. By 1999, subject property has been developed as a paved parking lot initially utilized by the adjacent DeVry University at 22801 Roscoe Boulevard (part of 15.25 acre parcel). The subject property remains a paved parking lot today.

The only information related to Building 275 indicates that it was a single-story building. Prior investigations did not include or discuss environmental concerns with Building 275 leading to the conclusion that this location was not of concern. Based on building permits included with the 2006 ESA for DeVry University, this building was demolished in 1998 when the adjacent DeVry University building and parking lot were being constructed.

4.0 REGULATORY RECORDS REVIEW

4.1 Regulatory Agencies

4.1.1 Health Department

Regulatory Agency Data	
Name of Agency:	Los Angeles County Fire Department- Health and Hazardous Materials Department (LACFD-HHMD)
Point of Contact:	N/A
Agency Address:	1320 N. Eastern Avenue, Los Angeles, California 90063
Agency Phone Number:	(323) 881-2411
Date of Contact:	August 25, 2020
Method of Communication:	Online Databases https://fire.lacounty.gov/public-records-requests/
Summary of Communication:	No records regarding current hazardous substance use, storage or releases, or the presence of USTs and AULs on the subject property were on file with the LACFD-HHMD.

4.1.2 Fire Department

Regulatory Agency Data	
Name of Agency:	Los Angeles Fire Department (LAFD)- Underground Storage Tank Division (UGT) and the Hazardous Materials Division (HazMat)
Point of Contact:	N/A
Agency Address:	200 North Main Street, 17th Floor, Los Angeles, California 90012
Agency Phone Number:	(213) 978-3691
Date of Contact:	August 25, 2020
Method of Communication:	Online http://www.lafd.org/public-records
Summary of Communication:	No records regarding hazardous substance use, storage or releases, or the presence of USTs and AULs on the subject property were on listed on the LAFD online databases of UST, AST, or hazardous materials sites.

4.1.3 Air Pollution Control Agency

Regulatory Agency Data	
Name of Agency:	South Coast Air Quality Management District (SCAQMD)
Point of Contact:	N/A
Agency Address:	21865 Copley Drive, Diamond Bar, California 91765
Agency Phone Number:	(909) 396-2000
Date of Contact:	August 25, 2020
Method of Communication:	Online review of records http://www3.aqmd.gov/webappl/fim/prog/search.aspx
Summary of Communication:	No Permits to Operate (PTOs), Notices to Comply or Notices of Violations (NTCs and NOVs) or records of USTs, AULs, or hazardous materials at the subject property were identified on the SCAQMD FINDS database.

4.1.4 Regional Water Quality Agency

Regulatory Agency Data	
Name of Agency:	Regional Water Quality Control Board (RWQCB)
Point of Contact:	N/A
Agency Address:	320 West 4th Street, Suite 200, Los Angeles, California
Agency Phone Number:	(213) 576-6600
Date of Contact:	August 25, 2020
Method of Communication:	Online review of records http://geotracker.waterboards.ca.gov/
Summary of Communication:	

The subject property, as part of a larger parcel, is identified on the GeoTracker database under two cases, Case No. SL2043T1572 and Case No. T10000011111. Raytheon Company is the responsible party for clean-up activities. According to information from the GeoTracker database, the subject property was a parcel located on the southeast corner of the former 86-acre Hughes Missile Systems facility, also referred to as the Former Canoga Park Facility and Raytheon Canoga Park Site. The facility is being jointly investigated by the Regional Water Quality Control Board (RWQCB) and the Department of Toxic Substances Control (DTSC). The RWQCB oversees the investigation and remediation of groundwater contamination at the site and the DTSC has jurisdiction to oversee the site soil contamination. Subsequently, the northern and southern portions of the former 86-acre facility were separated into different groundwater cases for investigation purposes but remain together for soil investigation. The subject property is located on the southeast corner of the former 86-acre facility and the southern investigation area referred to as the Southern Parcels of the Former Hughes Missile Systems Co.

Historically, in 1959, the 8433 Fallbrook Avenue property was developed as an industrial park by Bunker Ramo, an electrical component design and testing company. Bunker-Ramo was the sole occupant of the facility from 1959 until 1966. From 1966 to 1976, Hughes was a co-occupant with Rocketdyne, a division of Rockwell International, and Bunker-Ramo. Hughes purchased the entire site in the mid-1970s and became the sole occupant, operating as an aerospace research and development facility. In 1995, the former facility was purchased by Coast Federal Bank. The southern parcels were subsequently bought by DeVry (APN # 2005-002-901) and the Los Angeles Metropolitan Police Department (APN # 2005-2002-011). The subject property is located on the southeast corner of the investigation area referred to as the Southern Parcels of the Former Hughes Missile Systems Co. In 1997, Raytheon assumed management of the environmental investigations and remediation activities at the Site through a merger with Hughes in 1997. Since 1995, the property was redeveloped with several commercial office buildings. On April 3, 2020, United Technologies Corporation acquired Raytheon Company. United Technologies Corporation changed its corporate name to Raytheon Technologies Corporation and Raytheon Company continues to exist as a subsidiary of Raytheon Technologies Corporation and the legal entity responsible for the Former Canoga Park site.

A summary of the cases is provided below:

RWQCB Case No. SL2043T1572/DTSC Case Nos. 80001366 & CAD041162124 for Hughes Missiles Co./Raytheon Systems Co. (8433 Fallbrook Avenue): Currently Open, Corrective Action Case with the DTSC and RWQCB - monitoring ongoing. Responsible Party is Raytheon.

Since 1988, remedial efforts have been implemented to treat groundwater and saturated soils that contain residual volatile organic compounds (VOCs) at the Site. Chemicals of concern include Tetrachloroethene (PCE), Trichloroethene (TCE), cis-1,2-Dichloroethene (cis-1,2-DCE), 1,1-Dichloroethane (1,1-DCA), and 1,2-Dichloroethane (1,2-DCA). Groundwater remediation with injection wells has been underway at the Site since 1995 to achieve cleanup criteria. Under the oversight of the RWQCB, the primary objective of the remediation program is to accelerate the degradation of VOCs to concentrations below the cleanup goals established in the 1992 Corrective Action Plan (CAP), with the most recent Addendum to the CAP (CAP Addendum No. 5) in 2016. Remediation techniques used at the Site have included remedial excavation, a groundwater recovery and treatment system, a soil vapor extraction system, and an air sparge system. Enhanced in-situ bioremediation (EISB) was implemented in 2005 to 2020. Based on the attached figures, the majority of the treatment areas, known as Northwest Area, North-Central Area, Former Building 269 Area, and Well CM-8D Area, are located to the northwest (0.17-mile from the subject property) of the subject property and along the northwestern boundary (0.34-mile from the subject property) of the Former Canoga Park Facility.

According to a December 15, 2017 Letter to the Raytheon Company from DTSC, additional investigations and/or submittals may be requested by the DTSC for the subject property since they are the lead regulatory agency to oversee the corrective action to soil at the Southern Parcels at the Raytheon Canoga Park Site. Further investigation of the identified Areas of Concern (AOCs) identified in the RCRA Facility Assessment Report dated January 30, 2008 was required by DTSC. The 2008 RCRA Facility Assessment Report indicated that AOCs including Solid Waste Management Unit (SWMU)-9 (Sanitary Sewer) and AOC-12 (Storm Sewers) were identified at the subject property, as discussed below:

- SWMU-9 is defined as the Site wide sewer line. Releases to soil near soil boring BSL-4. Constituents include arsenic. The report notes that the Site wide assessment in 1991 did not show any metal contamination at detection limits. One sample had a trace (0.009 milligram per kilogram (mg/kg)) of toluene. Sample B-SL had 0.3 mg/kg of toluene. No other VOCs were detected. DTSC concluded that there was a need to determine if any issues remain.
- AOC-12 is defined as the Site wide storm water system. Releases are suspected.

Partner notes that the DTSC has not conducted or required further investigation of the Southern Parcels (including the subject property).

Soil at the subject property and larger Corporate Pointe at West Hills (Former Canoga Park Facility) are being managed under a Soil Management Plan prepared by Environ International Corporation dated May 12, 2008.

RWQCB Case No. T10000011111: Southern Parcels -Former Hughes Missile Systems Co. (8433 Fallbrook Avenue): Closed Case – No further action for groundwater with RWQCB as of March 22, 2018. Current open case with the DTSC for potential soil impacts.

According to information from the GeoTracker database, the subject property is located on the southeast corner of the investigation area referred to as the Southern Parcels of the Former Hughes Missile Systems Co. The groundwater closure request affected the southern parcels identified by APNs 2005-002-014,

APN 2005-002-901, APN 2005-002-013. The subject property is located within the boundary of APN 2005-002-013.

According to the July 31, 2012 Confirmation Sampling Report and other documents, trichlorofluoromethane (Freon 11) was detected in soil and groundwater underlying the southern parcels. Freon 11 was historically used in refrigeration devices and as a solvent. Historically, concentrations of trichlorofluoromethane were detected up to 300 micrograms per Liter (µg/L), above the California drinking water maximum contaminant level (MCL) of 150 µg/L, in groundwater well CM-10. Based on report figures, groundwater monitoring wells, CM-17 and CM-10, were located along the eastern boundary of the subject property.

Aa 1998 Figure attached to a prior ESA depicted:

- Former Hughes Building 275 was formerly located on the northern portion of the subject property.
- A former southeast trending sewer line is shown onsite crossing to the south of Building 275 to a municipal sewer discharge point discharge on the eastern portion of the subject property.
- A drainage ditch is depicted along the eastern border of the subject property, adjacent to Fallbrook Avenue. Soil gas sampling points collected in June and August 1995 along the sewer line and at Well CM-10 are shown as Non-Detected (ND) (<1 µg/L).
- An area with Freon 11 concentrations in soil gas ranging from 100 – 1,000 µg/L is depicted on/and or adjacent to the northwest of the subject property.
- Former Hughes Buildings 274, 265, and 276 are shown to the northwest and west to the subject property.

Follow-up characterization activities were conducted between 1993 and 1998 in the area near Buildings 274 and 276, which is upgradient from well CM-10 and adjacent to the northwest of the subject property. to identify the source of the Freon 11 concentrations. The investigations indicated that an area of Freon 11 concentrations greater than 1,000 µg/L in soil gas was delineated in the former parking lot and southeast of former Building 274 (thereafter termed "the Freon 11 Area"). In 1998, three temporary wells and one permanent well (MW-31) were installed within the Freon 11 Area.

In August 1993, a monitoring well and soil borings were completed within the area enclosed by Buildings 276 and 274 and Well CM-10. One boring (B-SL-10) advanced immediately northwest of well CM-10 had no Volatile Organic Compounds (VOCs) reported above their respective detection limits in the soil samples collected at 10, 20, and 30 feet below ground surface (bgs).

In June 1995, soil gas surveys were conducted to delineate the lateral extent of Freon 11-impacted soil. Soil gas probes were installed at four locations within the immediate area of well CM-10, one was located at an on-site sewer junction within the vicinity of well CM-10, and one was located immediately southeast of the former Building 274 cooling unit. All probes were set at approximately 5 feet bgs. Freon 11 was detected at the on-site sewer junction and adjacent to the cooling unit for the former Building 274 at concentrations of 183 µg/L and 6 µg/L. No Freon 11 was detected above the reporting limit at the soil gas probes installed within the immediate area of well CM-10 (this is on the east side of the subject property).

In May 1998, soil and groundwater samples were collected for analytical laboratory analysis during well installation of temporary and permanent monitoring wells. Temporary and permanent monitoring wells were installed in the vicinity of well CM-10 and the Freon 11 Area located to the northwest of the subject property.

Soil and groundwater analytical results indicated no VOC concentrations had been detected above the MCLs for drinking water in groundwater samples from each of the monitoring wells (CM-10, CM-11A, CM-12, CM-15, CM-17, MW-21S, MW-21D, MW-22S, MW-22D, MW-28, MW-29, MW-30 and MW-31) located on or in the vicinity of the Southern Parcels for more than 10 years of groundwater monitoring. Moreover, samples from all wells, except for wells CM-10 and MW-31, have been non-detect for the Site constituents of concern (chlorinated VOCs), for more than 15 years.

In a response to a June 27, 2006, memorandum requesting removal of Southern Parcel monitoring wells and NFA status for the Southern Parcels, the RWQCB issued a letter dated January 22, 2007, approving the removal of several wells from the monitoring program, but did not approve their abandonment, citing concerns about the potential presence of manmade radiological isotopes in wells CM-10, CM-12 and CM-17 based on community concerns with previous data.

Between March 2008 and August 2009, Raytheon, OTIE, and the RWQCB worked together to evaluate radiological conditions in the Southern Parcels. A radiological evaluation was performed; the results of the radiological evaluation indicated that the presence of low-level radiological isotopes were attributable to naturally-occurring sources in the underlying soil, bedrock, and groundwater. The RWQCB concurred, and issued a NFA letter with regard to radioactivity in groundwater for the Southern Parcels on October 30, 2009.

In addition to the radiological sampling, OTIE performed a confirmation sampling event including VOCs for wells CM-10, CM-11A, CM-12, CM-15, CM-17, MW-21S, MW-21D, MW-22S, MW-22D, MW-28, MW-29, MW-30, and MW-31 in November 2008. Analytical results from this confirmation sampling event were non-detect for all VOCs (CM-11A, CM-12, CM-15, CM-17, MW-21S, MW-21D, MW-22S, MW-22D, MW-28, MW-29, and MW-30) or below the MCL for the only detected VOC, Freon 11. Freon 11 was detected only in wells CM-10 (onsite) and MW-31 (offsite to the north.

Based on the findings of the NFA for radiological parameters and confirmation results for VOCs in the Southern Parcel wells, Raytheon sought NFA status from the RWQCB for the Southern Parcels once again in a technical memorandum dated July 8, 2010. The RWQCB responded in a letter dated May 13, 2011 and requested Raytheon to better define vertical and lateral extent of the Freon 11 plume detected in wells MW-31 and CM-10. Additional characterization identified a Freon 11 Area (>1,000 µg/L in soil gas) located around MW-31 that may have extended to the southeast on to the northwest corner of the subject property. According to 2012 groundwater sampling data, the Freon was the only VOC detected previously above MCL in groundwater in the Southern Parcels of the Site. A concentration of 35 µg/L was detected in Well CM-10 (screened interval of 34-52 feet) and at 120 µg/L in MW-31 (screened interval of 45-72 feet).

OTIE stated that the concentration distributions indicated that the Freon 11 Area was limited to the area southeast of former Building 274. The postulated release of Freon 11 occurred in an unpaved area

adjacent to the parking lot southeast of former Building 274, which may have been used as a maintenance area, up-gradient of the subject property. This area was identified by shallow soil gas investigations in 1995, which delineated an area of elevated Freon 11 greater than 1,000 µg/L. Therefore, OTIE concluded it was likely that surface releases of Freon 11 infiltrated the vadose zone in this area, and migrated vertically to groundwater, then migrated laterally in groundwater in the dissolved phase. Groundwater impacted by Freon 11 was localized to the area of well MW-31 and downgradient to well CM-10.

At the request of the DTSC, MW-31 and CM-10 located in and down-gradient of the former Freon 11 Area of Concern were monitored on January 22, 2018. Only one sample was collected from MW-31 and analyzed for VOCs. Well CM-10 was dry at the time of sampling. Freon 11 was detected at a concentration of 64 µg/L, below the MCL of 150 µg/L. No other VOCs were detected in MW-31.

On March 22, 2018, the RWQCB concluded that the southern portion of the facility had met the Regional Board requirements for groundwater closure and issued a NFA letter on March 22, 2018. On July 17, 2018, the RWQCB approved Raytheon's request to destroy 13 wells on the Southern Parcels including onsite wells CM-10 and CM-17 which were removed on September 6 and 10, 2018.

4.1.5 Department of Toxic Substances Control

Regulatory Agency Data	
Name of Agency:	California Department of Toxic Substances Control (DTSC), Envirostor and Hazardous Waste Tracking System (HWTS)
Point of Contact:	http://www.envirostor.dtsc.ca.gov/public/and http://hwts.dtsc.ca.gov/report_search.cfm?id=5
Agency Address:	5796 Corporate Avenue, Cypress California
Agency Phone Number:	(800) 728-6942
Date of Contact:	August 25, 2020
Method of Communication:	Online Database http://www.envirostor.dtsc.ca.gov/public/ http://hwts.dtsc.ca.gov/report_search.cfm?id=5
Summary of Communication:	No records regarding current hazardous substance use, storage or releases, or the presence of USTs and AULs on the subject property were on file with the HWTS databases.

As discussed in Section 4.1.4, the subject property parcel was previously located on the southeast corner of the former 86-acre Hughes Missile Systems facility. Two DTSC cases are associated with the former Hughes facility.

- **DTSC Case No. CAD041162124- for Raytheon Systems Co. (8433 Fallbrook Avenue)**: Raytheon, Canoga Park facility is listed as an inactive RCRA facility with a Closure Certification Report (CCR) being reviewed by DTSC. Two known permitted units, a hazardous waste storage area (HWSA) and a waste oil tank T3 were identified but are not located on the subject property. As of August 2007, the CCR was being reviewed for closure. An RCRA Facility Assessment (RFA) was being drafted in anticipation of a Corrective Action Consent Agreement (CA) which is to address the hazardous waste storage area (HWSA), a waste oil tank T3, Solid Waste Management Units (SWMUs), and Areas of Concern (AOCs). As discussed above, SWMU-9 (Sanitary Sewer) and

AOC-12 (Storm Sewers) were identified at the subject property and may require further investigation at the subject property.

- **DTSC Case No. 80001366 for Raytheon Systems Co. (8433 Fallbrook Avenue)**: Raytheon, Canoga Park facility is an inactive facility and DTSC requires the facility to undergo the closure process. The Closure Plan was submitted in February 1995 and revised August 1995, as a result of Notices of Deficiencies (NODs) issued to Hughes Missile System Company (HMSC) by DTSC dated December 21, 1994 and June 6, 1995. On December 1995, the DTSC modified the Closure Plan dated August 1995 to reflect changes in the closure performance standards for certain VOCs, background from metals, and conditions under the Health and Safety Plan. The cleanup status is listed as active as of June 15, 2009. Potential contaminants of concern are listed as metals, VOCs, radioactive isotopes, Total Petroleum Hydrocarbons as diesel.

4.1.6 Building Department

Regulatory Agency Data	
Name of Agency:	Los Angeles Department of Building and Safety (LADBS)
Point of Contact:	N/A
Agency Address:	201 North Figueroa Street, 4th Floor, Los Angeles, California 90012
Agency Phone Number:	(213) 482-6862
Date of Contact:	August 25, 2020
Method of Communication:	Online http://ladbsdoc.lacity.org/idispublic/
Summary of Communication:	Records were available for review, as further discussed in the following table:

Building Records Reviewed for 22815-22825 West Roscoe Boulevard (Subject Property)		
Year(s)	**Owner/Applicant**	**Description**
1955-2016	Various	Permits for construction of adjacent medical research building in 1955 and conversion to Thermo-Fisher Scientific campus in 2016 – Not applicable to subject parking lot. Emergency electrical generator and nitrogen tank noted as permitted in 2016 and 2017 adjacent to the subject property.
2016	Not Reported	Affidavit for maintenance of a building (APN Reference is 2005002011)
2017	Not Reported	Affidavit terminating prior Affidavit 161545988 not provided
2018	Not Reported	Affidavit for a community driveway for 8401-8403 Fallbrook and 22818-22825 Roscoe Boulevard

4.1.7 Planning Department

Regulatory Agency Data	
Name of Agency:	City of Los Angeles Planning Department Zone - Information Map Access System (ZIMAS)
Point of Contact:	N/A
Agency Address:	200 North Spring Street, Los Angeles, California 90012
Agency Phone Number:	(213) 978-1455
Date of Contact:	August 17 2020
Method of Communication:	Online http://zimas.lacity.org/

Summary of Communication:	According to records reviewed, the subject property is currently identified by APN 2005-002-018 and zoned (T)(Q) M1-1 for light industrial development by the City of Los Angeles. The following addresses are listed for the subject property parcel: 22815 and 22825 Roscoe Boulevard. The site is not located within a Methane Zone.

4.1.8 Oil & Gas Exploration

Regulatory Agency Data	
Name of Agency:	California Division of Oil, Gas and Geothermal Resources (DOGGR)
Point of Contact:	N/A
Agency Address:	5816 Corporate Avenue, Suite 200, Cypress, California
Agency Phone Number:	(714) 816-6847
Date of Contact:	August 17, 2020
Method of Communication:	http://maps.conservation.ca.gov/doggr/index.html
Summary of Communication:	According to DOGGR, no oil or gas wells are located on or adjacent to the subject property.

4.1.9 Assessor's Office

Regulatory Agency Data	
Name of Agency:	Los Angeles County Office of the Assessor (LACOA)
Point of Contact:	N/A
Agency Address:	500 W Temple Street, Los Angeles, California 90012
Agency Phone Number:	(213) 974-3211
Date of Contact:	August 17, 2020
Method of Communication:	Online review of records
Summary of Communication:	According to records reviewed, the subject property is identified by Assessor Parcel Number (APN) 2005-002-018.

Copies of pertinent documents are included in Appendix B of this report.

4.2 Mapped Database Records Search

Information from standard federal, state, county, and city environmental record sources was provided by Environmental Data Resources, Inc. (EDR). Data from governmental agency lists are updated and integrated into one database, which is updated as these data are released. The information contained in this report was compiled from publicly available sources and the locations of the sites are plotted utilizing a geographic information system, which geocodes the site addresses. The accuracy of the geocoded locations is approximately +/-300 feet.

Using the ASTM definition of migration, Partner considers the migration of hazardous substances or petroleum products in any form onto the subject property during the evaluation of each site listed on the radius report, which includes solid, liquid, and vapor.

4.2.1 Regulatory Database Summary

Radius Report Data

Database	Search Radius (mile)	Subject Property	Adjacent Properties	Sites of Concern
Federal NPL or Delisted NPL Site	1.00	N	N	N
Federal CERCLIS Site	0.50	N	N	N
Federal CERCLIS-NFRAP Site	0.50	N	N	N
Federal RCRA CORRACTS Facility	1.00	N	**Y**	N
Federal RCRA TSDF Facility	0.50	N	N	N
Federal RCRA Generators Site (LQG, SQG, CESQG)	0.25	**Y**	**Y**	N
Federal IC/EC Registries	0.50	N	N	N
Federal ERNS Site	Subject Property	N	N	N
State/Tribal Equivalent NPL	1.00	N	N	N
State/Tribal Equivalent CERCLIS	1.00	N	N	N
State/Tribal Landfill/Solid Waste Disposal Site	0.50	N	N	N
State/Tribal Leaking Storage Tank Site	0.50	N	**Y**	N
State/Tribal Registered Storage Tank Sites (UST/AST)	0.25	N	**Y**	N
State/Tribal Voluntary Cleanup Sites (VCP)	0.50	N	N	N
State/Tribal Spills	0.50	N	N	N
Federal Brownfield Sites	0.50	N	N	N
State Brownfield Sites	0.50	N	N	N
Envirostor	Subject Property	**Y**		
EDR MGP	Varies	N	N	N
EDR US Hist Auto Station	Varies	N	**Y**	N
EDR US Hist Cleaners	Varies	N	N	

4.2.2 Subject Property Listings

The subject property is identified in the regulatory database report, as discussed below:

- The subject property was located within the boundary of the former Hughes Missile Systems facility (EDR Map ID: C7, C9, C10, C11, C12,C13), identified at 8433 Fallbrook Avenue. The facility was identified as a Envirostor, UST, HIST UST, SLIC, LUST, RCRA, CERS, NPDES, SEMS-Archive, CORRACTS, RCRA-TSDF, and HWP databases. As discussed in Sections 4.1.4, 4.1.5, and 5.2.6, the subject property is located within the southern boundary of the open Corrective Action Case for the former Hughes facility. In 2018, the RWQCB issued a closure letter for the groundwater impacts on the southern portion of the former Hughes facility. Corrective action and investigations of soil impacts on the northern and southern portions of the former Hughes facility are open and ongoing. A Freon 11 impacted area was identified adjacent to the northwest of the subject property.

  Additional investigations and/or submittals may be requested by the DTSC for the subject property is regards to soil impacts. Groundwater remediation at the northern portion of the facility is ongoing under the oversight of the RWQCB. Based on a review of groundwater data and

the case closure for the southern portion of the former Hughes facility, the up-gradient impacted groundwater is not considered to have created an environmental concern to the subject property.

4.2.3 Adjacent Property Listings

The following adjacent properties were identified in the regulatory database report, as discussed below:

- Quest Diagnostics Inc., AT&T Mobility (EDR Map ID: A1, A2, A3, A6) is listed at 8401 Fallbrook Avenue, adjacent to the northwest and hydrologically up-gradient of the subject property. The facility is identified in the RCRA-LQG, AST, HAZMAT, HWTS, CERS, CERS Tanks, and CERS Haz Waste databases. The AT&T facility is listed as inactive as of June 1, 2019. According to the HWTS, the Quest facility is described as a Diagnostic Imaging Centers facility. No RCRA violations are listed. Hazardous waste generated at the facility between 2011 and 2019. Based on the regulatory status, these listings are not considered to have created an environmental concern to the subject property.
- Thermo-Fisher Scientific Corporation (EDR Map ID: B4, B5) is listed at 22801 Roscoe Boulevard, adjacent to the west and hydrologically up-gradient of the subject property. The facility is identified in the RCRA-NonGen, CERS, CERS Tanks, and CERS Haz Waste databases. No RCRA violations are listed. Aboveground Petroleum Storage is identified on the CERS Tanks database. The facility was last inspected by the Los Angeles County Fire Department in September 2019 and the following violations were noted failure to properly label hazardous waste accumulation containers, failure to meet the following conditions of satellite accumulation regulations, and general Hazardous Waste Generator Program requirements. The facility returned to compliance on 10/18/2019. Based on the regulatory status, these listings are not considered to have created an environmental concern to the subject property.
- Faulkner Harry & Dolores (EDR Map ID: F30) is listed at 22750 Roscoe Boulevard, adjacent to the southeast and hydrologically down-gradient of the subject property. The facility is identified in the EDR Historical Auto database. The facility is identified as a gas station in 1969-1978. Based on the regulatory status and down-gradient direction, these listings are not considered to have created an environmental concern to the subject property.

Based on the findings, groundwater in the site vicinity is impacted with VOCs and the impacts may impact soil vapor.

4.2.4 Sites of Concern Listings

No sites of concern are identified in the regulatory database report.

4.2.5 Orphan Listings

Six orphan listings are identified in the regulatory database report. No orphan listings of concern were identified.

A copy of the regulatory database report is included in Appendix C of this report.

5.0 USER PROVIDED INFORMATION AND INTERVIEWS

In order to qualify for one of the *Landowner Liability Protections (LLPs)* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the *Brownfields Amendments*), the *User* must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. The *User* should provide the following information to the *environmental professional*. Failure to provide this information could result in a determination that *all appropriate inquiries* is not complete. The *User* is asked to provide information or knowledge of the following:

- Review Title and Judicial Records for Environmental Liens and AULs
- Specialized Knowledge or Experience of the User
- Actual Knowledge of the User
- Reason for Significantly Lower Purchase Price
- Commonly Known or *Reasonably Ascertainable* information
- Degree of Obviousness
- Reason for Preparation of this Phase I ESA

Fulfillment of these user responsibilities is key to qualification for the identified defenses to CERCLA liability. Partner requested our Client to provide information to satisfy User Responsibilities as identified in Section 6 of the ASTM guidance.

Pursuant to ASTM E1527-13, Partner requested the following site information from SCIND Fallbrook Point LLC (User of this report).

User Responsibilities

Item	Provided By User	Not Provided By User	Discussed Below	Does Not Apply
Environmental Pre-Survey Questionnaire			**X**	
Title Records, Environmental Liens, and AULs			**X**	
Specialized Knowledge			**X**	
Actual Knowledge			**X**	
Valuation Reduction for Environmental Issues			**X**	
Identification of Key Site Manager	**Section 5.1.3**			
Reason for Performing Phase I ESA	**Section 1.1**			
Prior Environmental Reports			**X**	
Other			**X**	

5.1 Interviews

5.1.1 Interview with Owner

The owner of the subject property, was not available to be interviewed at the time of the assessment.

5.1.2 Interview with Report User

Please refer to Section 5.2 below for information requested from the Report User.

5.1.3 Interview with Key Site Manager

A key site manager was not available to be interviewed at the time of this assessment.

5.1.4 Interviews with Past Owners, Operators and Occupants

Interviews with past owners, operators and occupants were not conducted since information regarding the potential for contamination at the subject property was obtained from other sources.

5.1.5 Interview with Others

As the subject property is not an abandoned property as defined in ASTM 1527-13, interview with others were not performed.

5.2 User Provided Information

5.2.1 Title Records, Environmental Liens, and AULs

Partner was provided by LBA with a Commitment for Title Insurance issued by Chicago Title Company and dated July 24, 2020. According to the Preliminary Title Report, the title to the subject property is currently vested in BSREP West Hills Office Campus LLC, a Delaware limited liability company. No apparent environmental liens or AULs were identified for the subject property based on the review of the Commitment for Title Insurance.

Copies of pertinent pages are included in Appendix B of this report.

5.2.2 Specialized Knowledge

The User provided knowledge of environmental conditions associated with the subject property as described in Section 5.2.6.

5.2.3 Actual Knowledge of the User

The User was not aware of environmental liens and/or AULs encumbering the subject property or in connection with the subject property at the time of the assessment.

5.2.4 Valuation Reduction for Environmental Issues

The User was not aware of any reductions in property value due to environmental issues.

5.2.5 Commonly Known or Reasonably Ascertainable Information

The User did provide information that is commonly known or *reasonably ascertainable* within the local community about the subject property at the time of the assessment (See Section 5.2.6).

5.2.6 Previous Reports and Other Provided Documentation

The following information was reviewed by Partner during the course of this assessment:

Phase I Environmental Site Assessment, Coast West Hills Property, 8433 Fallbrook Avenue, Lot B, Canoga Park, California, Geocon Environmental Consultants, Inc. (February 8, 1999)

Phase I/II Environmental Site Assessment, West Hills Corporate Village, West Hills Phase II, 8501 Fallbrook Avenue Canoga Park, California, Environ International Corporation (March 29, 2002)

Phase I Environmental Site Assessment, Dry University, 22801 Roscoe Boulevard, West Hills, California, Geocon Environmental Consultants, Inc. (July 26, 2006)

Phase I Environmental Site Assessment, Corporate Point at West Hills, 8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue, Los Angeles, California, Hillman Consulting, LLC (February 4, 2013)

The above assessments were performed on a larger parcel of land that included the subject property. Pertinent information is summarized below:

In 1999, the subject property is located within "Lot A" and developed with former Hughes Building 275 on the northern portion of the site, a secondary pump station on the southwest corner, and a DeVry Institute classroom building. A recreation area is located on or adjacent to the west side of the property.

By 2012, the subject property was identified by APN 2005-002-018 and consisted of a paved parking lot located in the southeast corner of the Corporate Point at West Hills commercial park, adjacent to the intersection of Roscoe Boulevard and Fallbrook Avenue. A figure included in the appendices depicted an existing sanitary easement that crosses the northern portion and an existing stormwater easement located along to east and southern boundary of the subject property.

According to the previous reports, the larger parcel was developed by Hughes Aircraft Company (currently known as Raytheon Company, its successor, to test missile defense systems from the late-1950s until the mid-1990s. Hazardous substances and petroleum products were utilized on-site in association with the former missile defense system testing operations and resulted in the generation of USEPA RCRA regulated hazardous wastes. These activities resulted in releases to the environmental that caused a subsurface impact to the property. The releases at the site were discovered by investigations triggered by RCRA permitting at the facility in the late 1980's with the lead regulatory agency reported as the DTSC.

In the early 1990s, a site investigation began followed by subsequent remediation activities. Hughes and now Raytheon, was the responsible party for all remediation on the property pursuant to a set of recorded remediation covenants that run with the land. Site investigations at the property have identified thirteen Areas of Concern (AOCs) and seven Solid Waste Management Units (SWMUs) throughout the site. The most significant concern at the site is a plume of chlorinated solvent groundwater contamination located on the northwest corner of the former Hughes site and which may extend slightly offsite to the north (referred to as the "northwest plume"). Groundwater remediation has been ongoing on the Property since 1995 when a Pump and Treat system was installed in the northwest area. The system was shut down in 2005 in favor of "in-situ" bio remediation groundwater treatments.

Hillman reviewed the groundwater remediation and monitoring progress report dated November 15, 2012. That report has indicated that at least four "enhanced in-site bioremediation" (EISB) treatments have occurred since 2009, the latest having occurred in September 2012. Contaminant levels at the northwest plume have been trending downwards but remain above the site specific cleanup criteria (SPCC) of 60 ug/L VOCs set by the RWQCB.

Hillman concluded that it appeared that Raytheon appears to be meeting its obligations as responsible party for the remediation. The progress of Raytheon should be monitored with regard to the completion of remedial actions in order to achieve regulatory closure for all AOCs and SWMUs. The property owner should continue to cooperate with Raytheon in accordance with the reported access agreement to allow the necessary site access to conduct remedial actions. The property owner should request from Raytheon to be copied on all pertinent regulatory data and correspondences generated by the remedial activities at the site, as has been the case to date.

The existing Soil Management Plan (SMP) should continue to be adhered to by property management. In the event of transfer of ownership, the new owner should confirm to DTSC that it agrees to the terms and will comply with the SMP.

6.0 SITE RECONNAISSANCE

The weather at the time of the site visit was sunny and clear. Refer to Section 1.5 for limitations encountered during the field reconnaissance and Sections 2.1 and 2.2 for subject property operations. The table below provides the site assessment details:

Site Assessment Data	
Site Assessment Performed By:	Robin Blanchard
Site Assessment Conducted On:	August 13, 2020

Partner was not accompanied during the field reconnaissance activities.

No potential environmental concerns were identified during the onsite reconnaissance.

6.1 General Site Characteristics

6.1.1 Solid Waste Disposal

Solid waste is not currently generated.

6.1.2 Sewage Discharge and Disposal

There are no sanitary discharges to the subject property which is a paved parking lot with no structures. The City of Los Angeles services the subject property vicinity. No wastewater treatment facilities or septic systems were observed or reported on the subject property.

6.1.3 Surface Water Drainage

Storm water is removed from the subject property primarily by sheet flow action across the paved surfaces towards storm water drains located throughout the subject property and in the public right of way. The subject property is connected to a municipal owned and maintained sewer system.

The subject property does not appear to be a designated wetland area, based on information obtained from the United States Fish & Wildlife Service; however, a comprehensive wetlands survey would be required in order to formally determine actual wetlands on the subject property. No surface impoundments, wetlands, natural catch basins, settling ponds, or lagoons are located on the subject property. No drywells were identified on the subject property.

6.1.4 Source of Heating and Cooling

Electricity and natural gas are provided to the subject property and vicinity by LADWP and The Gas Company.

6.1.5 Wells and Cisterns

No aboveground evidence of wells or cisterns was observed during the site reconnaissance.

6.1.6 Wastewater

Domestic wastewater is not generated at the subject property. No industrial process is currently performed at the subject property.

6.1.7 Septic Systems

No septic systems were observed or reported on the subject property.

6.1.8 Additional Site Observations

No additional general site characteristics were observed during the site reconnaissance.

6.2 Potential Environmental Hazards

6.2.1 Hazardous Substances and Petroleum Products Used or Stored at the Site

No hazardous substances or petroleum products were observed on the subject property during the site reconnaissance.

6.2.2 Aboveground & Underground Hazardous Substance or Petroleum Product Storage Tanks (ASTs/USTs)

No evidence of current or former ASTs or USTs was observed during the site reconnaissance.

6.2.3 Evidence of Releases

No spills, stains or other indications that a surficial release has occurred at the subject property were observed.

6.2.4 Polychlorinated Biphenyls (PCBs)

No potential PCB-containing equipment (transformers, oil-filled switches, hoists, lifts, dock levelers, hydraulic elevators, etc.) was observed on the subject property during Partner's reconnaissance.

6.2.5 Strong, Pungent or Noxious Odors

No strong, pungent or noxious odors were evident during the site reconnaissance.

6.2.6 Pools of Liquid

No pools of liquid were observed on the subject property during the site reconnaissance.

6.2.7 Drains, Sumps and Clarifiers

No drains, sumps, or clarifiers, other than those associated with storm water removal, were observed on the subject property during the site reconnaissance.

6.2.8 Pits, Ponds and Lagoons

No pits, ponds or lagoons were observed on the subject property.

6.2.9 Stressed Vegetation

No stressed vegetation was observed on the subject property.

6.2.10 Additional Potential Environmental Hazards

No additional environmental hazards, including landfill activities or radiological hazards, were observed.

6.3 Non-ASTM Services

6.3.1 Asbestos-Containing Materials (ACMs)

The subject property is a paved parking lot with no onsite structures at the time of the site visit; therefore, ACMs were not included in the scope of this assessment.

6.3.2 Lead-Based Paint (LBP)

The subject property is a paved parking lot with no onsite structures at the time of the site visit; therefore, LBP was not included in the scope of this assessment.

6.3.3 Radon

Radon is a colorless, odorless, naturally occurring, radioactive, inert, gaseous element formed by radioactive decay of radium (Ra) atoms. The US EPA has prepared a map to assist National, State, and local organizations to target their resources and to implement radon-resistant building codes. The map divides the country into three Radon Zones, according to the table below:

EPA Radon Zones		
EPA Zones	**Average Predicted Radon Levels**	**Potential**
Zone 1	Exceed 4.0 pCi/L	Highest
Zone 2	Between 2.0 and 4.0 pCi/L	Moderate
Zone 3	Less than 2.0 pCi/L	Low

It is important to note that the EPA has found homes with elevated levels of radon in all three zones, and the US EPA recommends site-specific testing in order to determine radon levels at a specific location. However, the map does give a valuable indication of the propensity of radon gas accumulation in structures.

Radon sampling was not conducted as part of this assessment. Review of the US EPA Map of Radon Zones places the subject property in Zone 2. Based upon the radon zone classification, radon is not considered to be a significant environmental concern.

6.3.4 Lead in Drinking Water

According to available information, a public water system operated by the Los Angeles Department of Water and Power (LADWP) serves the subject property vicinity. According to a representative of the LADWP, shallow groundwater directly beneath the subject property is not utilized for domestic purposes. The sources of public water for the City of Los Angeles are primarily surface water from sources in Northern California and from the Colorado River as well as from local deep groundwater wells. According to the 2019 Annual Water Quality Report, water supplied to the subject property vicinity is in compliance with all State and Federal regulations pertaining to drinking water standards, including lead and copper. Water sampling was not conducted to verify water quality.

6.3.5 Mold

The subject property is a paved parking lot with no onsite structures at the time of the site visit; therefore, mold was not included in the scope of this assessment.

6.4 Adjacent Property Reconnaissance

The adjacent property reconnaissance consisted of observing the adjacent properties from the subject property premises. With the exception of an emergency electrical generator and nitrogen tank at the adjacent Thermo-Fisher Scientific facility to the west, no items of environmental concern were identified on the adjacent properties during the site assessment, including hazardous substances, petroleum products, ASTs, USTs, evidence of releases, PCBs, strong or noxious odors, pools of liquids, sumps or clarifiers, pits or lagoons, stressed vegetation, or any other potential environmental hazards.

6.4.1 Hazardous Substances and Petroleum Products Used or Stored at the Site

The adjacent facility to the west (Thermo-Fisher Scientific) operates a diesel-fueled emergency electrical generator and maintains a nitrogen AST. No concerns are identified from the current use of these features.

7.0 FINDINGS AND CONCLUSIONS

Findings

A *recognized environmental condition (REC)* refers to the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: due to release to the environment; under conditions indicative of a release to the environment; or under conditions that pose a material threat of a future release to the environment. The following was identified during the course of this assessment:

- Partner did not identify any recognized environmental conditions during the course of this assessment.

A *controlled recognized environmental condition (CREC)* refers to a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls. The following was identified during the course of this assessment:

- Partner did not identify any controlled recognized environmental conditions during the course of this assessment.

A *historical recognized environmental condition (HREC)* refers to a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls. The following was identified during the course of this assessment:

- Groundwater beneath the subject property has been impacted by historical releases associated with the former Hughes' operations, these impacts have been investigated and characterized under RWQCB regulatory oversight. On March 22, 2018, the RWQCB concluded that the southern portion of the former Hughes facility had met the Regional Board requirements for groundwater closure and issued a NFA letter on March 22, 2018. Onsite wells CM-10 and CM-17 were removed on September 6 and 10, 2018. Based on the analytical results and regulatory case closure, the impacts to groundwater beneath the subject property are considered to be HRECs.

An *environmental issue* refers to environmental concerns identified by Partner, which do not qualify as RECs; however, warrant further discussion. The following was identified during the course of this assessment:

- The subject property is located within the boundary of the open Corrective Action Case for the former Hughes Missile Systems facility. Additional investigations and/or submittals may be requested by the DTSC for the subject property since two AOCs including Solid Waste Management Unit (SWMU)-9 (Sanitary Sewer) and AOC-12 (Storm Sewers), were identified at the subject property in the 2008 RCRA Facility Assessment Report and remain uninvestigated. Closure certification and completion corrective action are outstanding. Partner notes that the DTSC has not investigated or required investigation of the sanitary and storm sewers.

Conclusions, Opinions and Recommendations

Partner has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 of the property located on the northwest corner of Roscoe Boulevard and Fallbrook Avenue, Los Angeles, Los Angeles County, California (the "subject property"). Any exceptions to, or deletions from, this practice are described in Section 1.5 of this report.

This assessment has revealed evidence of a historical recognized environmental condition and environmental issues in connection with the subject property. Based on the conclusions of this assessment, Partner recommends the following:

- Further evaluation of subsurface environmental conditions is not warranted at this time.
- Manage any disturbance of onsite soils with existing Soil Management Plan as needed.
- Further assessment of onsite soils in the vicinity of the sewer lines may be required in the future by DTSC as part of ongoing open, Corrective Action Case for the former Hughes Missiles Co./Raytheon Systems Co. Facility. Note that the DTSC has not yet required investigation of these areas.

8.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

Partner has performed a Phase I Environmental Site Assessment of the property located on the northwest corner of Roscoe Boulevard and Fallbrook Avenue, Los Angeles, Los Angeles County, California in conformance with the scope and limitations of the protocol and the limitations stated earlier in this report. Exceptions to or deletions from this protocol are discussed earlier in this report.

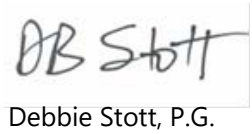
By signing below, Partner declares that, to the best of our professional knowledge and belief, we meet the definition of *Environmental Professional* as defined in §312.10 of 40 CFR §312. Partner has the specific qualifications based on education, training, and experience to assess a *property* of the nature, history, and setting of the subject *property*. Partner has developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Prepared By:



Robin Blanchard
Environmental Scientist

Reviewed By:



Debbie Stott, P.G.
Senior Author

9.0 REFERENCES

Reference Documents

American Society for Testing and Materials, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM Designation: E1527-13

Environmental Data Resources (EDR), Radius Report, August 2020

Federal Emergency Management Agency, Federal Insurance Administration, National Flood Insurance Program, Flood Insurance Map, accessed via internet, August 2020

United States Department of Agriculture, Natural Resources Conservation Service, accessed via internet, August 2020

United States Environmental Protection Agency, EPA Map of Radon Zones (Document EPA-402-R-93-071), accessed via the internet, August 2020

United States Geological Survey, accessed via the Internet, August 2020

United States Geological Survey Topographic Map, 7.5 minute series, accessed via internet, August 2020

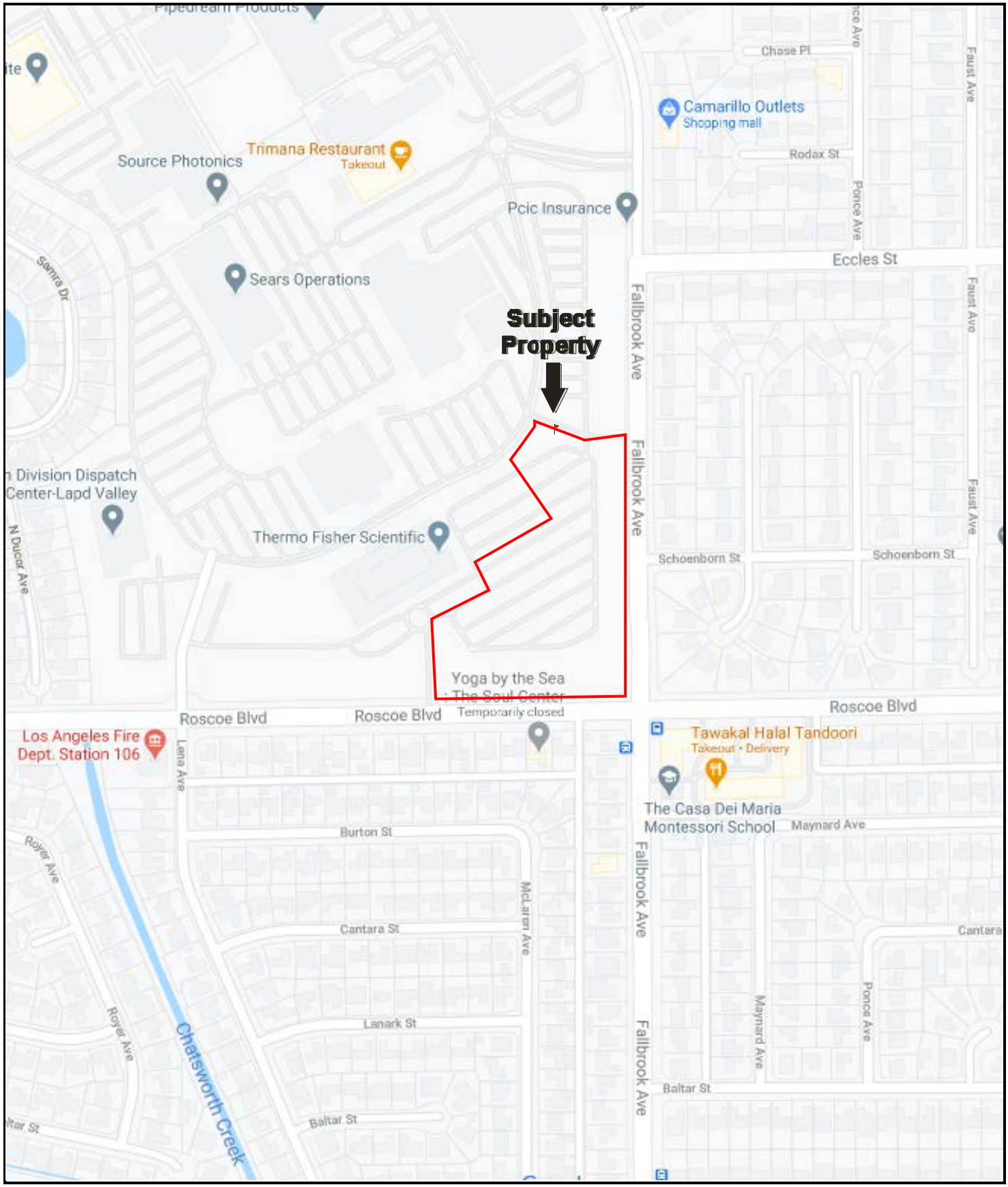
FIGURES

1 SITE LOCATION MAP

2 SITE PLAN

3 TOPOGRAPHIC MAP

PARTNER



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Drawing Not To Scale

KEY:
Subject Property

FIGURE 1: SITE LOCATION MAP
Project No. 20-288877.1

PARTNER



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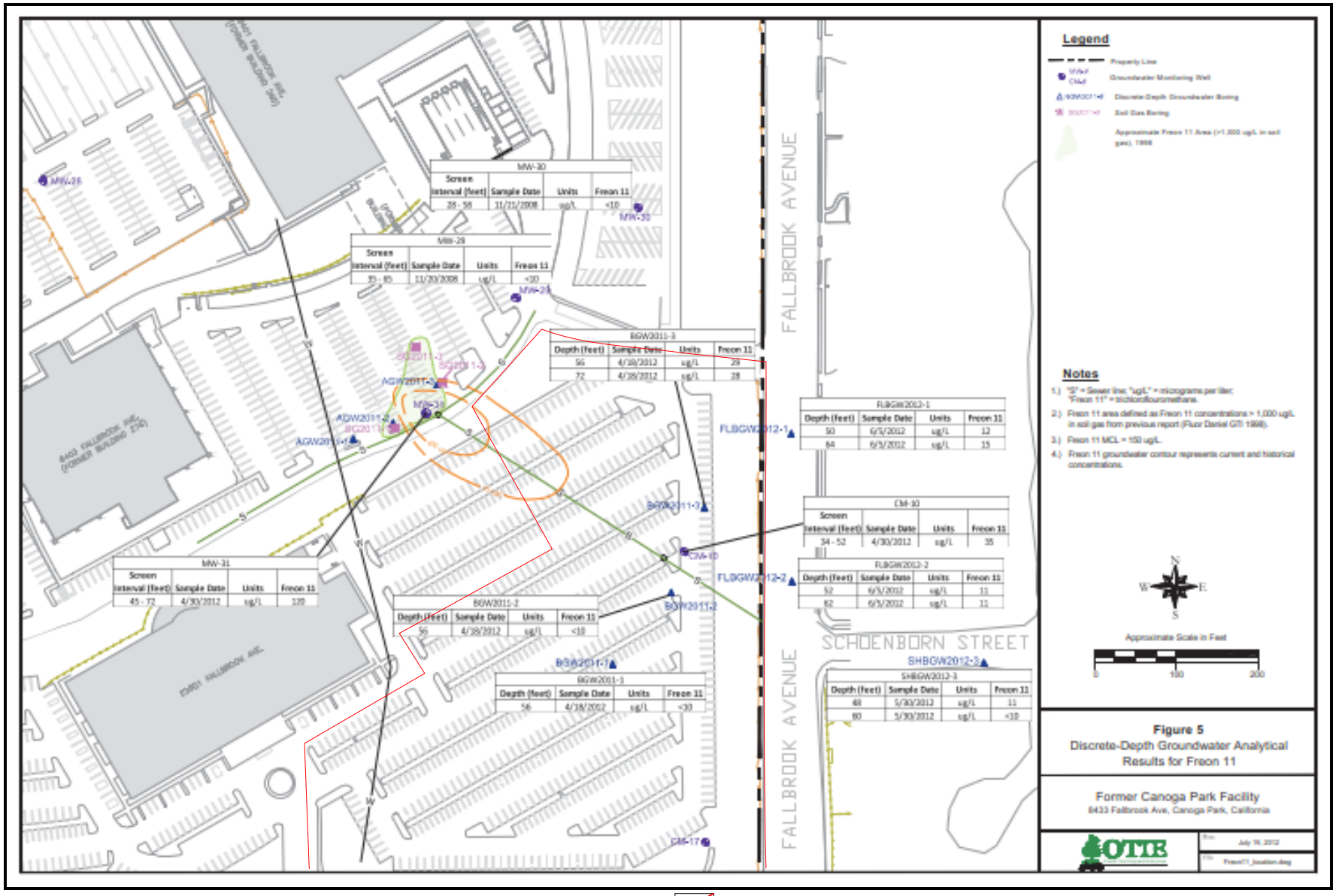
GROUNDWATER FLOW

KEY:
Subject Property

FIGURE 2A: SITE PLAN
Project No. 20-288877.1

PARTNER



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GROUNDWATER FLOW

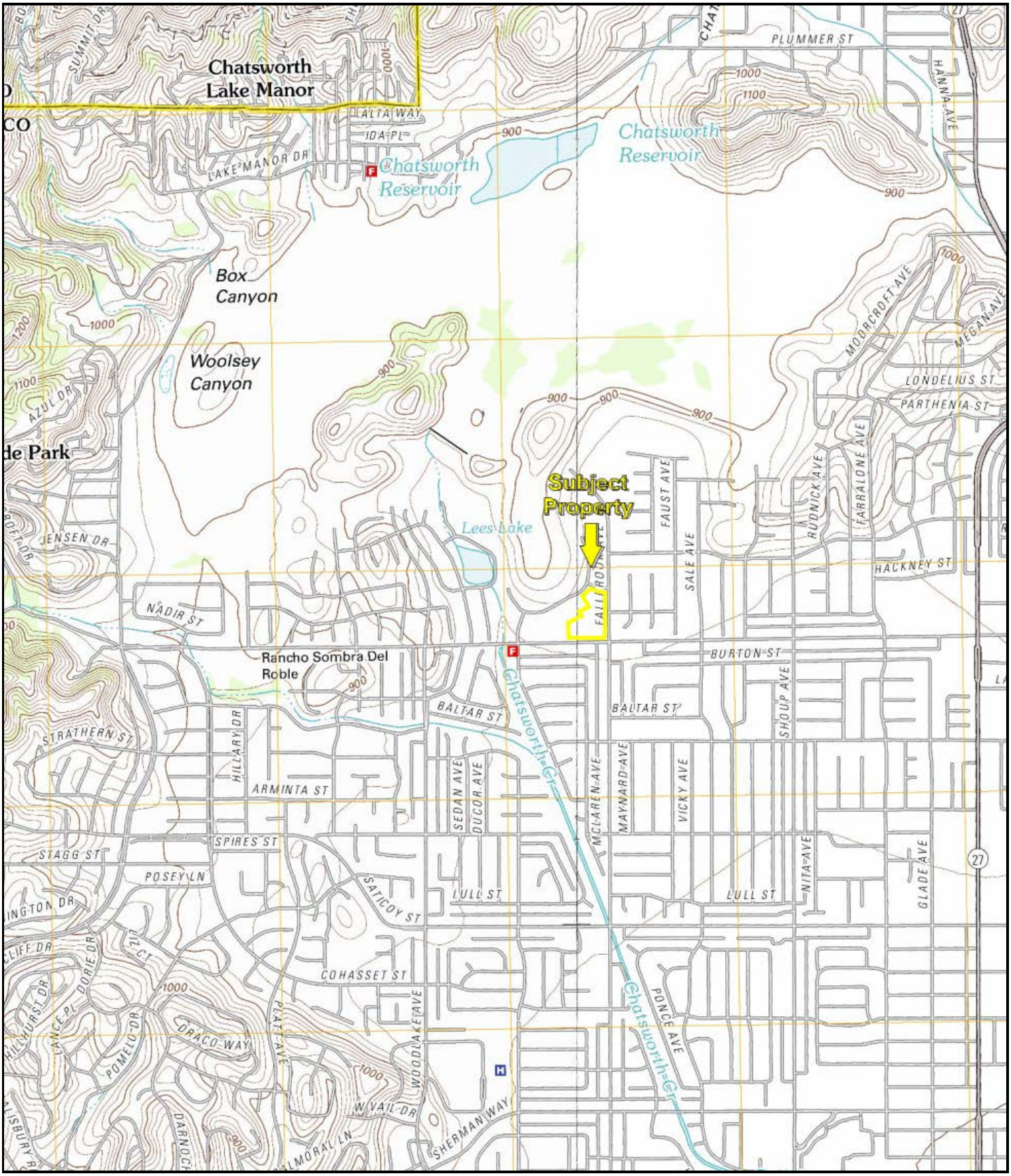
KEY: - Subject Property (Approximate Boundary Line)

Source: Oneida Total Integrated Enterprises, LLC, Confirmation Sampling Report for No Further Action Status in the Southern Parcels, Former Canoga Park Facility, 8422 Fallbrook Avenue, Canoga Park, July 31, 2012

FIGURE 2B: SITE PLAN – HISTORICAL WELL LOCATION MAP

Project No. 20-288877.1

PARTNER



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USGS 7.5 Minute *Calabasas and Canoga Park, California* Quadrangles
Created: 2012

KEY:
Subject Property

FIGURE 3: TOPOGRAPHIC MAP
Project No. 20-288877.1

PARTNER

APPENDIX A: SITE PHOTOGRAPHS



1. View looking toward to the northeast to the subject property from Fallbrook Avenue



2. View looking east across the south end of the subject property from the adjacent west property



3. View of apparent patched boring at the south end of the subject property



4. View of perimeter landscaping along the south and east edges of the subject property



5. View looking east to the southeast corner of the parking area



6. View north along the eastern edge of the subject property



7. View looking north across the center of the property



8. View of walking trail along the southern edge of the property near Roscoe Boulevard



9. View of exercise equipment along the walking trail with subject parking areas in the background



10. View of apparent irrigation piping and landscaping at the southeast corner of the site



11. View north along the eastern site boundary with Fallbrook Avenue on the right



12. View of driveway entrance from Fallbrook Avenue on the north end of the subject property



13. View looking toward the property to the north from Fallbrook Avenue



14. View looking north from the subject property to offsite parking areas



15. View south across Roscoe to offsite residences



16. View of the adjacent residential neighborhood to the east



17. View of the entrance to the adjacent Thermo-Fisher Scientific facility to the west



18. View of the adjacent Thermo-Fisher Scientific building to the west

APPENDIX B: HISTORICAL/REGULATORY DOCUMENTATION

PARTNER



500 1000 2000

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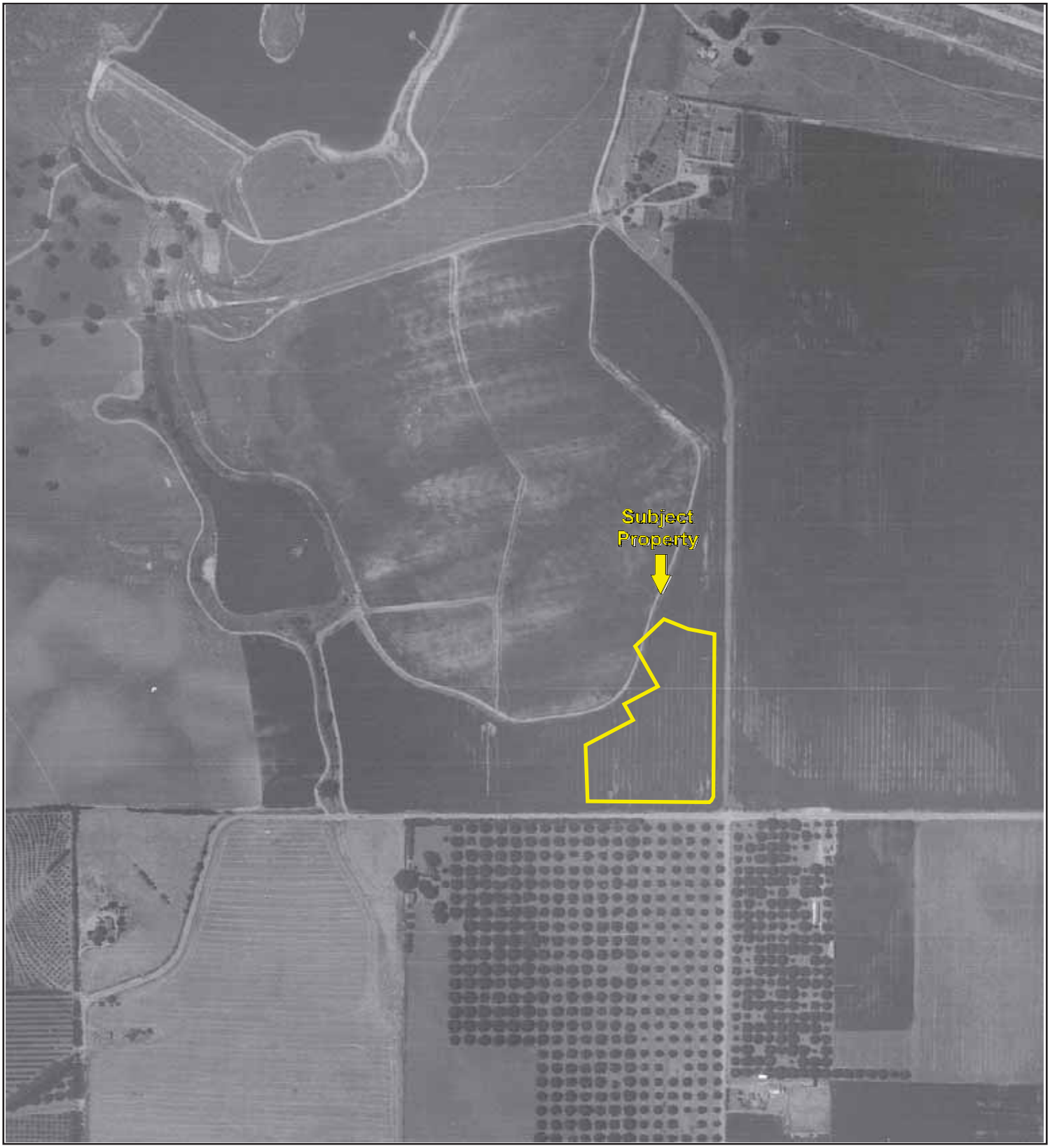
Key: Subject Property



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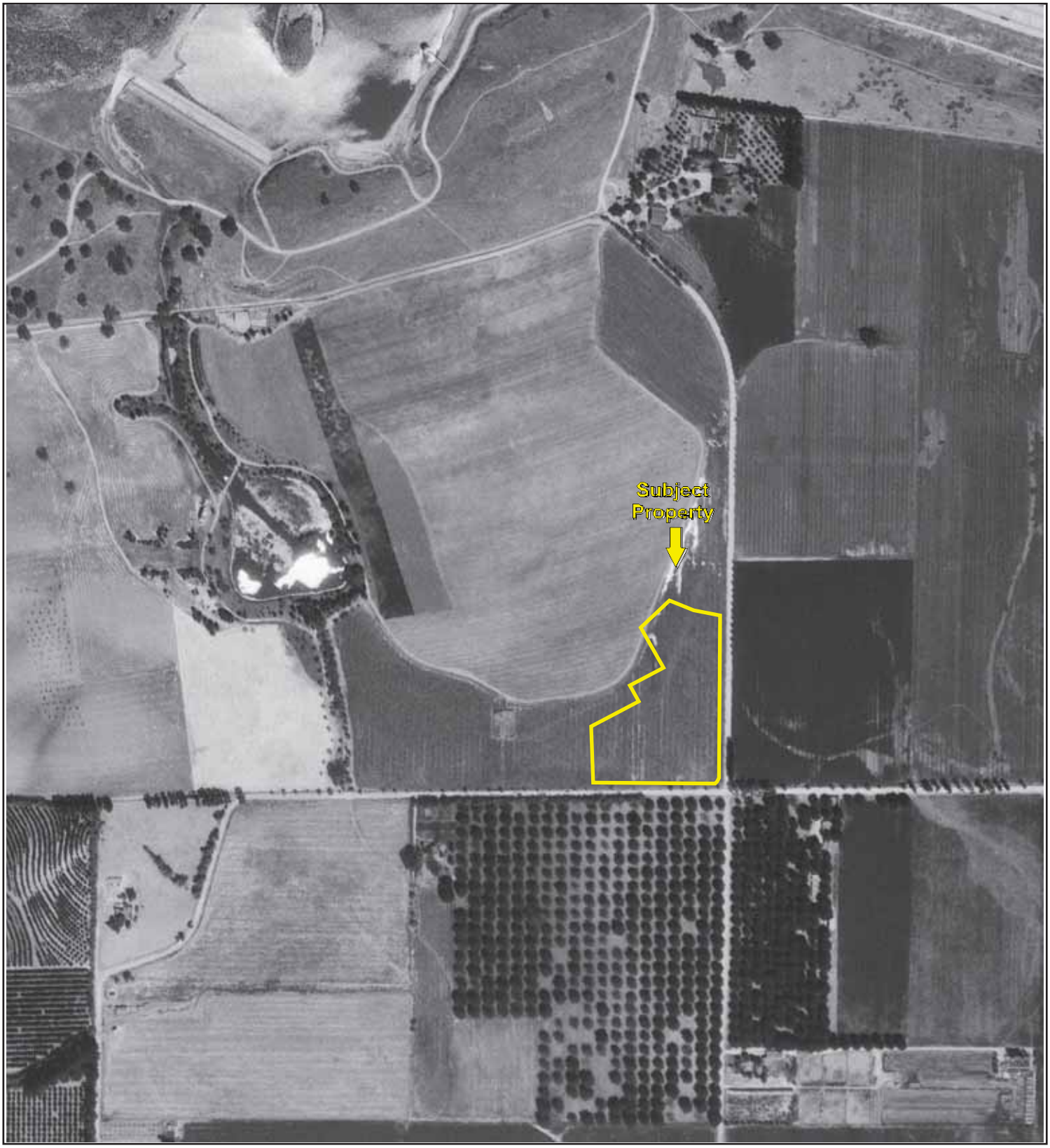
Key: Subject Property



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Key: Subject Property

West Hills Staley Point

NW Corner of Roscoe Boulevard & Fallbrook Avenue

Canoga Park, CA 91304

Inquiry Number: 6142433.3

August 03, 2020

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

08/03/20

Site Name:

West Hills Staley Point
NW Corner of Roscoe Bouleva
Canoga Park, CA 91304
EDR Inquiry # 6142433.3

Client Name:

Partner Engineering and Science, Inc.
2154 Torrance Blvd, Suite 200
Torrance, CA 90501-0000
Contact: Cristina Scott

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Partner Engineering and Science, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 0CC7-4F90-993F

PO # 20-288877.1

Project 20-288877.1

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

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- ☑ University Publications of America
- ☑ EDR Private Collection

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West Hills Staley Point
NW Corner of Roscoe Boulevard & Fallbrook Avenue
Canoga Park, CA 91304

Inquiry Number: 6142433.5
August 05, 2020

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
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with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2015. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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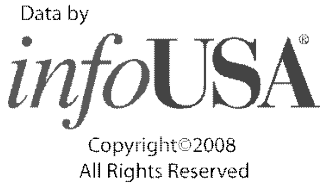


RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2015	Cole Information Services	-	X	X	-
2009	Cole Information Services	-	X	X	-
2006	Haines Company	-	-	-	-
2004	Cole Information Services	-	X	X	-
	Haines Company	-	X	X	-
2003	Haines & Company	-	-	-	-
2001	Haines & Company, Inc.	-	-	-	-
2000	Pacific Bell Telephone	-	-	-	-
1999	Cole Information Services	-	X	X	-
	Haines Company	-	-	-	-
1996	GTE	-	-	-	-
1995	Pacific Bell	-	X	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1994	Cole Information Services	-	X	X	-
1992	PACIFIC BELL WHITE PAGES	-	-	-	-
1991	Pacific Bell	-	X	X	-
1990	Pacific Bell	-	X	X	-
1986	Pacific Bell	-	-	-	-
1985	Pacific Bell	-	X	X	-
1981	Pacific Telephone	-	-	-	-
1980	Pacific Telephone	-	X	X	-
1976	R.L. Polk & Co Publishers	-	-	-	-
1975	Pacific Telephone	-	X	X	-
1972	R. L. Polk & Co.	-	-	-	-
1971	R. L. Polk & Co.	-	-	-	-
1970	Pacific Telephone	-	X	X	-
1969	Pacific Telephone	-	-	-	-
1967	R. L. Polk & Co.	-	-	-	-
1966	Pacific Telephone	-	-	-	-
1965	Pacific Telephone	-	X	X	-
1964	Pacific Telephone	-	-	-	-
1963	Pacific Telephone	-	-	-	-
1962	Pacific Telephone	-	X	X	-
1961	R. L. Polk & Co.	-	-	-	-
1960	Pacific Telephone	-	-	-	-
1958	Pacific Telephone	-	-	-	-
1957	Pacific Telephone	-	-	-	-
1956	Pacific Telephone	-	-	-	-
1955	R. L. Polk & Co.	-	-	-	-
1954	R. L. Polk & Co.	-	-	-	-
1952	Los Angeles Directory Co.	-	-	-	-
1951	Los Angeles Directory Co Publishers	-	-	-	-
1950	Pacific Telephone	-	-	-	-
1949	Los Angeles Directory Co.	-	-	-	-
1948	Los Angeles Directory Co.	-	-	-	-
1947	Pacific Directory Co.	-	-	-	-
1946	Southern California Telephone Co	-	-	-	-
1945	The Glendale Directory Co.	-	-	-	-
1944	R. L. Polk & Co.	-	-	-	-
1942	Los Angeles Directory Co.	-	-	-	-
1940	Los Angeles Directory Co.	-	-	-	-
1939	Los Angeles Directory Co.	-	-	-	-
1938	Los Angeles Directory Company Publishers	-	-	-	-
1937	Los Angeles Directory Co.	-	-	-	-
1936	Los Angeles Directory Co.	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1935	Los Angeles Directory Co.	-	-	-	-
1934	Los Angeles Directory Co.	-	-	-	-
1933	Los Angeles Directory Co.	-	-	-	-
1932	Los Angeles Directory Co.	-	-	-	-
1931	Los Angeles Directory Company Publishers	-	-	-	-
1930	Los Angeles Directory Co.	-	-	-	-
1929	Los Angeles Directory Co.	-	-	-	-
1928	Los Angeles Directory Co.	-	-	-	-
1927	Los Angeles Directory Co.	-	-	-	-
1926	Los Angeles Directory Co.	-	-	-	-
1925	Los Angeles Directory Co.	-	-	-	-
1924	Los Angeles Directory Co.	-	-	-	-
1923	Los Angeles Directory Co.	-	-	-	-
1921	Los Angeles Directory Co.	-	-	-	-
1920	Los Angeles Directory Co.	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

NW Corner of Roscoe Boulevard & Fallbrook Avenue
Canoga Park, CA 91304

FINDINGS DETAIL

Target Property research detail.

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

DUCOR AVE

8300 DUCOR AVE

Year	Uses	Source
2015	LEONARD GUBERMAN	Cole Information Services
2009	SERGIO MARQUEZ	Cole Information Services
2004	SERGIO MARQUEZ	Cole Information Services
	$MARQUEZSergio	Haines Company
1999	SERGIO MARQUEZ	Cole Information Services
1990	FROM HOUSE TO HOME RELOCATION SERV WEST HILLS	Pacific Bell
1980	GURGANUS JOHN	Pacific Telephone
	HOGSETT P	Pacific Telephone

8301 DUCOR AVE

Year	Uses	Source
2015	MARK LEVICK	Cole Information Services
2009	MARK LEVICK	Cole Information Services
2004	OLEVICKSharon	Haines Company
1999	OCCUPANT UNKNOWN	Cole Information Services
	MARK LEVICK	Cole Information Services

8304 DUCOR AVE

Year	Uses	Source
2015	DAVID CANOLES	Cole Information Services
2009	DAVID CANOLES	Cole Information Services
2004	OCCUPANT UNKNOWN	Cole Information Services
	GCANOLES David	Haines Company
1999	DAVID CANOLES	Cole Information Services
1994	CANOLES, DAVID S	Cole Information Services

8305 DUCOR AVE

Year	Uses	Source
2015	FERNANDO MEJIA	Cole Information Services
2009	FERNANDO MEJIA	Cole Information Services
2004	IDA GRABESTEIN	Cole Information Services

FINDINGS

Year	Uses	Source
2004	MEJIAFemando	Haines Company
	GRABESTEIN Ida	Haines Company
1999	FERNANDO MEJIA	Cole Information Services
1994	SHAH, MAHESH	Cole Information Services
1985	Shah Mahesh	Pacific Bell
1980	SHAH MAHESH	Pacific Telephone

8310 DUCOR AVE

Year	Uses	Source
2015	AHMET ALTUG	Cole Information Services
2009	OUTLOOKWEAR COM	Cole Information Services
	AHMET ALTUG	Cole Information Services
2004	AHMET ALTUG	Cole Information Services
	KAT INTERNATIONAL LLC	Cole Information Services
	ALTUGAhmet	Haines Company
1999	AHMET ALTUG	Cole Information Services
1985	Lee Sang In	Pacific Bell
	Lee Sang Jo PCty	Pacific Bell
1980	LEE SANG IN	Pacific Telephone

8311 DUCOR AVE

Year	Uses	Source
2015	ANDREW TA	Cole Information Services
2009	JONATHAN TA	Cole Information Services
2004	OUYEN TA	Cole Information Services
	QUYENTa	Haines Company
1999	JONATHAN TA	Cole Information Services
1980	SEROTA CARL	Pacific Telephone
	C H S TAX SERVICE	Pacific Telephone

8314 DUCOR AVE

Year	Uses	Source
2015	MATTHEW MARSHALL	Cole Information Services
2009	HOWARD TORCH	Cole Information Services
2004	TOMOYA TANIGUCHI	Cole Information Services
	TANIGUCHITomoya	Haines Company
1999	HOWARD TORCH	Cole Information Services

FINDINGS

8315 DUCOR AVE

Year	Uses	Source
2015	PHAN HOANG	Cole Information Services
2009	PHAN HOANG	Cole Information Services
2004	PHAN HOANG	Cole Information Services
	OHOANGPhan	Haines Company
1999	PHAN HOANG	Cole Information Services
1980	COOPER J A	Pacific Telephone

8318 DUCOR AVE

Year	Uses	Source
2015	OCCUPANT UNKNOWN	Cole Information Services
2009	SHOP SHAVERS INC	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
2004	EDWARD IBRAHIM	Cole Information Services
	ABRAHAM Edward	Haines Company

8319 DUCOR AVE

Year	Uses	Source
2015	RUTH BARTNOF	Cole Information Services
2009	KEVIN BARTNOF	Cole Information Services
2004	KEVIN BARTNOF	Cole Information Services
	BARTNOFR	Haines Company
1999	KEVIN BARTNOF	Cole Information Services
1995	Bartnof Victor	Pacific Bell
1994	BARTNOF, VICTOR	Cole Information Services
1991	Barto Betty	Pacific Bell
	Barto Betty	Pacific Bell
	Bartnof Victor	Pacific Bell
1985	Bartnof Victor	Pacific Bell
1980	BARTNOF VICTOR	Pacific Telephone

8322 DUCOR AVE

Year	Uses	Source
2015	JOHN KOPP	Cole Information Services
2009	JOHN KOPP	Cole Information Services
2004	JOHN KOPP	Cole Information Services
	GKOPPJohn	Haines Company
1999	JOHN KOPP	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services

FINDINGS

8325 DUCOR AVE

Year	Uses	Source
2015	KURT DESIDERIO	Cole Information Services
2009	PAUL GORDON	Cole Information Services
2004	PAUL GORDON	Cole Information Services
	GORDON Christlina	Haines Company
	GORDON Paul	Haines Company
	TABATABAI Zinat	Haines Company
1999	M HAJIBAGHERI	Cole Information Services
	PAUL GORDON	Cole Information Services
1995	Bagheri Mohammad	Pacific Bell
1994	BAGHERI, M	Cole Information Services
1980	WALDRON BETH	Pacific Telephone
	WALDON C WATERS	Pacific Telephone

8328 DUCOR AVE

Year	Uses	Source
2009	ANTONIO FRANCHI	Cole Information Services
2004	DEBI FLETCHALL	Cole Information Services
	DEBI FLETCHALL-OLSON	Cole Information Services
	JOHN OLSON	Cole Information Services
	FLETCHALL Olson Debi	Haines Company
1999	ANTONIO FRANCHI	Cole Information Services
1994	PARK, CHRIS	Cole Information Services
1980	TRETMAN SEYMOUR	Pacific Telephone
	TRETMAN A	Pacific Telephone

8331 DUCOR AVE

Year	Uses	Source
2015	OCCUPANT UNKNOWN	Cole Information Services
2009	JANINE BACA	Cole Information Services
2004	WORAVIT MEKTRAKARN	Cole Information Services
	MEKTRAKARN Areeral	Haines Company
1999	JANINE BACA	Cole Information Services
1985	Mektrakarn Supatra	Pacific Bell
1980	MEKTRAKARN AREERAT	Pacific Telephone

8332 DUCOR AVE

Year	Uses	Source
2015	ARMAN SOLIMANI	Cole Information Services

FINDINGS

Year	Uses	Source
2004	ARCHER Mavis	Haines Company

8337 DUCOR AVE

Year	Uses	Source
2009	KEIKO MIYAMOTO	Cole Information Services
2004	KAZUTAKA MIYAMOTO	Cole Information Services
	OMIYAMOTO Keiko	Haines Company
1999	KEIKO MIYAMOTO	Cole Information Services
1995	Sturza R R	Pacific Bell
1991	Flanagan Terrence	Pacific Bell

8338 DUCOR AVE

Year	Uses	Source
2015	GAREN ANANIAN	Cole Information Services
2009	GAREN ANANIAN	Cole Information Services
2004	ANANIAN ENTERPRISES	Cole Information Services
	VATCHE ANANIAN	Cole Information Services
	ANANIAN Parsegh	Haines Company
1999	GAREN ANANIAN	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
1995	Ananian Parsegh	Pacific Bell
1994	ANANIAN, PARSEGH	Cole Information Services
1991	Ananian R	Pacific Bell
	Ananian Parsegh	Pacific Bell
1985	Ananian Parsegh	Pacific Bell

8341 DUCOR AVE

Year	Uses	Source
2015	DANIEL MESTMAN	Cole Information Services
2009	DANIEL MESTMAN	Cole Information Services
2004	DANIEL MESTMAN	Cole Information Services
	MESTMAN Daniel	Haines Company
1999	DANIEL MESTMAN	Cole Information Services
1995	Mestman Dan I	Pacific Bell
1994	MESTMAN, DANIEL	Cole Information Services
1991	Mestman Danl	Pacific Bell
1980	MESTMAN DANL	Pacific Telephone

FINDINGS

8344 DUCOR AVE

Year	Uses	Source
2015	JOHN MILLER	Cole Information Services
2009	JOHN MILLER	Cole Information Services
2004	MARYANNE MALZONE	Cole Information Services
	MALZONEMaryanne	Haines Company
1999	JOHN MILLER	Cole Information Services
1980	MAZAREI JAVAD	Pacific Telephone

8347 DUCOR AVE

Year	Uses	Source
2015	CRYSTAL VIGIL	Cole Information Services
2009	IRWIN JACOBSON	Cole Information Services
2004	MARK JOHNSTON	Cole Information Services
	SINGH Narrder	Haines Company
1999	IRWIN JACOBSON	Cole Information Services
1985	Bahim Shahram	Pacific Bell
1975	Foris Victor G	Pacific Telephone

8348 DUCOR AVE

Year	Uses	Source
2015	PHILIP CHAU	Cole Information Services
2009	PHILIP CHAU	Cole Information Services
2004	PHILIP CHAU	Cole Information Services
	CHAU Philip	Haines Company
1999	PHILIP CHAU	Cole Information Services
1995	i Chau Philip	Pacific Bell
	Chau Pauline & Eric Nor	Pacific Bell
1994	CHAU, PHILIP	Cole Information Services
1991	Chau Philip	Pacific Bell
1985	Chau Philip	Pacific Bell
1980	CHAU PHILIP	Pacific Telephone

8351 DUCOR AVE

Year	Uses	Source
2015	JAMES HENSHALL	Cole Information Services
2009	JAMES HENSHALL	Cole Information Services
2004	JAMES HENSHALL	Cole Information Services
	HENSHALLJS	Haines Company
1999	JAMES HENSHALL	Cole Information Services

FINDINGS

8355 DUCOR AVE

Year	Uses	Source
2015	BRIAN HOUGH	Cole Information Services
2009	CAROLYN EISENSTEIN	Cole Information Services
2004	JEREMY EISENSTEIN	Cole Information Services
	GEISENSTEIN Jeremy	Haines Company
1999	CAROLYN EISENSTEIN	Cole Information Services

8356 DUCOR AVE

Year	Uses	Source
2015	PETER TORNELL	Cole Information Services
2009	PETER TORNELL	Cole Information Services
2004	SOHNYung	Haines Company
1999	PETER TORNELL	Cole Information Services
1995	Sawyer Robt O	Pacific Bell
1991	Sawyer Robt O	Pacific Bell
1985	Sawyer Robt O	Pacific Bell
1980	SAWYER ROBT O	Pacific Telephone

LENA AVE

8243 LENA AVE

Year	Uses	Source
2004	KAREL SPANGENBERG	Cole Information Services

ROSCOE BLVD

22920 ROSCOE BLVD

Year	Uses	Source
2015	OCCUPANT UNKNOWN	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2004	AMIR MAJIDIAN	Cole Information Services
	OMAJIDIAN Amir	Haines Company
1980	MITCHELL EUGENE W	Pacific Telephone

22928 ROSCOE BLVD

Year	Uses	Source
2015	ROGER BLANTON	Cole Information Services
2009	RICHARD YOUNG	Cole Information Services
2004	RICHARD YOUNG	Cole Information Services
1999	RICHARD YOUNG	Cole Information Services

FINDINGS

22934 ROSCOE BLVD

Year	Uses	Source
2015	JOSEPH RUDY	Cole Information Services
2009	JOSEPH RUDY	Cole Information Services
2004	JOSEPH RUDY	Cole Information Services
	JOSEPH Rudy	Haines Company
1999	JOSEPH RUDY	Cole Information Services

22942 ROSCOE BLVD

Year	Uses	Source
2015	KEVIN BRADY	Cole Information Services
2009	KEVIN BRADY	Cole Information Services
2004	KEVIN BRADY	Cole Information Services
	BRADY Kevin	Haines Company
1999	KEVIN BRADY	Cole Information Services
1980	BENNETT J	Pacific Telephone
1965	UODOGE WAYNE	Pacific Telephone

22950 ROSCOE BLVD

Year	Uses	Source
2015	ADAM JOHNSON	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2004	OCCUPANT UNKNOWN	Cole Information Services
	SPRESSON Ronald a	Haines Company
1965	HERPICH ALFRED	Pacific Telephone

22956 ROSCOE BLVD

Year	Uses	Source
2015	MINHGIAO DAOVAN	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2004	SANDRA BLAKELY	Cole Information Services
	SFRIEDLICH El	Haines Company
1991	Cozadd Edgar M	Pacific Bell
1985	Cozadd Edgar M	Pacific Bell
1980	ROLDAN ALFONSO	Pacific Telephone
1965	81YD L H	Pacific Telephone

23001 ROSCOE BLVD

Year	Uses	Source
2015	COMM DSPTCH CTR LAPD VALLEY	Cole Information Services

FINDINGS

23004 ROSCOE BLVD

Year	Uses	Source
2009	CITY OF LOS ANGELES	Cole Information Services
1999	LOS ANGELES CITY OF FIRE DEPARTMENT	Cole Information Services

23023 ROSCOE BLVD

Year	Uses	Source
1965	PORTER JAMES	Pacific Telephone

ROSCOE PL

22920 ROSCOE PL

Year	Uses	Source
1975	Jackson Tom	Pacific Telephone
	Jackson O R	Pacific Telephone
1970	JACKSON O R	Pacific Telephone
	JACKSON TOM	Pacific Telephone
	JACKSON O R	Pacific Telephone
	JACKSON TOM	Pacific Telephone

22934 ROSCOE PL

Year	Uses	Source
1970	BOETTCHER EUGENE R	Pacific Telephone
	BOETTCHER EUGENE R	Pacific Telephone
1962	PARKER EDW H	Pacific Telephone

22942 ROSCOE PL

Year	Uses	Source
1970	FORD GEO RICHARD	Pacific Telephone
	FORD GEO RICHARD	Pacific Telephone
1962	DODGE WAYNE	Pacific Telephone

22950 ROSCOE PL

Year	Uses	Source
1975	Herpich Alfred	Pacific Telephone
1970	HERPLCH ALFRED	Pacific Telephone
	HERPLCH ALFRED	Pacific Telephone
1962	HERPICH ALFRED	Pacific Telephone

FINDINGS

22956 ROSCOE PL

Year	Uses	Source
1975	Norris David W	Pacific Telephone
1970	GRODSKE WM J	Pacific Telephone
	GRODSKE WM J	Pacific Telephone

23004 ROSCOE PL

Year	Uses	Source
1970	RUCKLE BEN	Pacific Telephone
	RUCKLE BEN	Pacific Telephone
1962	LEIBO CONSTRUCTION CO	Pacific Telephone
	LEIBO CONSTRUCTION CO	Pacific Telephone

SAMRA DR

8368 SAMRA DR

Year	Uses	Source
2004	THOMAS JW	Haines Company

8374 SAMRA DR

Year	Uses	Source
2015	MARTIN TILLINGER	Cole Information Services
2009	MARTIN TILLINGER	Cole Information Services
2004	MARTIN TILLINGER	Cole Information Services
	OTILLINGER Marin	Haines Company
1999	MARTIN TILLINGER	Cole Information Services
1995	Savage Carroll	Pacific Bell
	gecils Pierre	Pacific Bell
	G	Pacific Bell
1994	SAVAGE, CARROLL	Cole Information Services
	GECILS, PIERRE	Cole Information Services
1991	Savage Carroll	Pacific Bell
	Gecils Pierre	Pacific Bell
	Gecmen MS	Pacific Bell
1985	Gecils Pierre	Pacific Bell
	Savage Carroll	Pacific Bell

8376 SAMRA DR

Year	Uses	Source
2015	ALEXANDER WASSERMAN	Cole Information Services
2009	ALEXANDER WASSERMAN	Cole Information Services

FINDINGS

Year	Uses	Source
2009	ALEXANDER WASSERMAN	Cole Information Services
	WATRONIX	Cole Information Services
2004	ALEXANDER WASSERMAN	Cole Information Services
	WATRONIX	Cole Information Services
	WASSERMAN Alexander	Haines Company
1999	ALEXANDER WASSERMAN	Cole Information Services
1995	Wasserman Alexander	Pacific Bell
1985	Kato Hiroshi	Pacific Bell

8377 SAMRA DR

Year	Uses	Source
2015	HOOSHMAND ZAGHI	Cole Information Services
2009	HOOSHMAND ZAGHI	Cole Information Services
2004	HOOSHMAND ZAGHI	Cole Information Services
	ZAGHIHank	Haines Company
1999	HOOSHMAND ZAGHI	Cole Information Services

8380 SAMRA DR

Year	Uses	Source
2015	RAMI YOMTOV	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2004	JUDY YOMTOV	Cole Information Services
	0 YOMTOVYosseff	Haines Company
1975	Epping Quintin A	Pacific Telephone

8384 SAMRA DR

Year	Uses	Source
2015	ELISABETH COLEMAN	Cole Information Services
2009	JOEL SMIOFF & ASSOCIATES	Cole Information Services
	JOEL SIMOFF	Cole Information Services
2004	JOEL SIMOFF	Cole Information Services
	JOEL SMIOFF & ASSOCS	Cole Information Services
	0 SIMOFFJoel	Haines Company
	$SIMOFFRani	Haines Company
1999	JOEL SIMOFF	Cole Information Services
1995	Simoff Joel & Rani	Pacific Bell
1994	SIMOFF, JOEL	Cole Information Services
1991	Simoff Joel & Rani	Pacific Bell
	Simokovic Kali	Pacific Bell

FINDINGS

Year	Uses	Source
1985	Simofi Joel & Rani	Pacific Bell
1975	Marks Richard A	Pacific Telephone

8385 SAMRA DR

Year	Uses	Source
2015	BONNIE BOLDT	Cole Information Services
2009	BONNIE BOLDT	Cole Information Services
2004	no info	Haines Company
1999	OCCUPANT UNKNOWN	Cole Information Services
	BONNIE BOLDT	Cole Information Services

8388 SAMRA DR

Year	Uses	Source
2009	JAMES THOMAS	Cole Information Services
1999	OCCUPANT UNKNOWN	Cole Information Services
	JAMES THOMAS	Cole Information Services
1995	Cooper GG	Pacific Bell
1994	COOPER, GORDON G	Cole Information Services
1975	Guarrera Frank	Pacific Telephone

8391 SAMRA DR

Year	Uses	Source
2015	MICHELE PEERY	Cole Information Services
2009	DAVE LASZ	Cole Information Services
2004	DAVE LASZ	Cole Information Services
	PROOF PERFECT	Cole Information Services
	LASZDave	Haines Company
	PROOF PERFECT	Haines Company
1999	DAVE LASZ	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
	PROOF PERFECT	Cole Information Services
1995	Proof Perfect	Pacific Bell
1994	PROOF PERFECT	Cole Information Services
1985	Design Alternatives	Pacific Bell
1975	Mills Thos E	Pacific Telephone

8392 SAMRA DR

Year	Uses	Source
2015	BONNIE BRANDON	Cole Information Services
2009	BONNIE BRANDON	Cole Information Services

Year	Uses	Source
2004	BONNIE BRANDON	Cole Information Services
	SBRANDONBonnie H	Haines Company
1999	BONNIE BRANDON	Cole Information Services
1994	BRANDON, BONNIE	Cole Information Services
1991	Brandon Bl	Pacific Bell
1985	Brandon B	Pacific Bell

SEDAN AVE

8211 SEDAN AVE

Year	Uses	Source
1985	Hargrave P	Pacific Bell
	Hargrave Jack C	Pacific Bell
1980	HARGRAVE JACK C	Pacific Telephone
1970	TORRES ERNESTO	Pacific Telephone
	TORRES ERNESTO	Pacific Telephone

8218 SEDAN AVE

Year	Uses	Source
1985	Chambers W Hughes	Pacific Bell
1980	CHAMBERS W HUGHES	Pacific Telephone
1970	CHAMBERS W HUGHES	Pacific Telephone
	CHAMBERS W HUGHES	Pacific Telephone

8239 SEDAN AVE

Year	Uses	Source
2015	CHRIS LOHMAN	Cole Information Services

8300 SEDAN AVE

Year	Uses	Source
2015	HACATUR SAVSA	Cole Information Services
2009	ASDGIG SAVSA	Cole Information Services
2004	ASDGIG SAVSA	Cole Information Services
1999	ASDGIG SAVSA	Cole Information Services
1991	Ben Itshak Fannie & Azaria	Pacific Bell
1985	Woodward William	Pacific Bell
1980	SHELTON P	Pacific Telephone
	FALK E	Pacific Telephone

FINDINGS

8301 SEDAN AVE

Year	Uses	Source
2015	KENNETH VAUGHAN	Cole Information Services
2009	ANTONIO ALVAREZ	Cole Information Services
2004	ANTONIO ALVAREZ	Cole Information Services
	ALVAREZAntonio	Haines Company
1999	W CASTRO	Cole Information Services
	ANTONIO ALVAREZ	Cole Information Services
1980	RODEN JAN T	Pacific Telephone

8307 SEDAN AVE

Year	Uses	Source
2015	SONIA MOGHADAM	Cole Information Services
	KATIA JULIAN	Cole Information Services
	KEVIN RAHEDANE	Cole Information Services
	CHONG HO	Cole Information Services
2009	KATIA JULIAN	Cole Information Services
	TAMGIJIDI NAYER	Cole Information Services
	SONIA MOGHADAM	Cole Information Services
2004	SONIA MOGHADAM	Cole Information Services
	KATIAJulian	Haines Company
1999	KATIA JULIAN	Cole Information Services
	TAMGIJIDI NAYER	Cole Information Services
	SONIA MOGHADAM	Cole Information Services

8308 SEDAN AVE

Year	Uses	Source
2015	ISACK COHEN	Cole Information Services
2009	ISACK COHEN	Cole Information Services
2004	ZEPUR KUCUKERKIN	Cole Information Services
	COHEN Isack	Haines Company
1999	ISACK COHEN	Cole Information Services
1970	MADDEN RAY D	Pacific Telephone
	MADDEN RAY D	Pacific Telephone

8311 SEDAN AVE

Year	Uses	Source
2015	HAGOP PETOYAN	Cole Information Services
2009	R AVAKYAN	Cole Information Services
2004	OSYSANShamel	Haines Company

FINDINGS

Year	Uses	Source
1999	R AVAKYAN	Cole Information Services
1995	Sysan Shamel	Pacific Bell
1991	Sysan Shamel	Pacific Bell

8312 SEDAN AVE

Year	Uses	Source
2015	CHARLES ZEIDMAN	Cole Information Services
2009	CHARLES ZEIDMAN	Cole Information Services
2004	CHARLES ZEIDMAN	Cole Information Services
	IZEIDMAN Charles	Haines Company
1999	OCCUPANT UNKNOWN	Cole Information Services
	CHARLES ZEIDMAN	Cole Information Services
1994	MULKERN, MICHAEL D	Cole Information Services
1991	Mulkern MD	Pacific Bell
1985	Mulkern M D	Pacific Bell
1980	MULKERN M D	Pacific Telephone
1970	MULKERN N D	Pacific Telephone
	MULKERN N D	Pacific Telephone

8316 SEDAN AVE

Year	Uses	Source
2015	FERNANDO MESINA	Cole Information Services
2009	FERNANDO MESINA	Cole Information Services
2004	FERNANDO MESINA	Cole Information Services
1999	FERNANDO MESINA	Cole Information Services
1995	Mesina Fernando G	Pacific Bell
1994	MESINA, F G	Cole Information Services
1985	Mesina Fernando G	Pacific Bell
1980	MESINA FERNANDO G	Pacific Telephone

8317 SEDAN AVE

Year	Uses	Source
2015	ALEX PEREZ	Cole Information Services
2009	RUDOLPH PEREZ	Cole Information Services
2004	PIRANELI BUILDERS	Cole Information Services
	NINOS OSHAMA	Cole Information Services
	OSHANANinos	Haines Company
1999	OCCUPANT UNKNOWN	Cole Information Services
	RUDOLPH PEREZ	Cole Information Services

FINDINGS

Year	Uses	Source
1980	AHNER RAYMOND P	Pacific Telephone

8318 SEDAN AVE

Year	Uses	Source
2004	6 MESINAFernando G	Haines Company

8320 SEDAN AVE

Year	Uses	Source
2015	JOHN RIDDELL	Cole Information Services
2009	JULIE RIDDELL	Cole Information Services
2004	JULIE RIDDELL	Cole Information Services
	ICE BLUE POOLS	Cole Information Services
	SRIDDELLJulle	Haines Company
	RIDDELLJohn	Haines Company
1999	JULIE RIDDELL	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
1995	Ray Loyd C	Pacific Bell
1991	Ray M	Pacific Bell
	Ray Loyd C	Pacific Bell
	Ray M Pac	Pacific Bell
1985	Ward Rodger	Pacific Bell
	Ward Rodger	Pacific Bell
1980	RIDDELL JOHN	Pacific Telephone

8321 SEDAN AVE

Year	Uses	Source
2015	PERRY HABERMAN	Cole Information Services
2009	DOGGY MANS	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
2004	OCCUPANT UNKNOWN	Cole Information Services
	SHABERMANPenrry	Haines Company
1999	PERRY HABERMAN	Cole Information Services

8328 SEDAN AVE

Year	Uses	Source
2015	LARRY BROWN	Cole Information Services
2009	LARRY BROWN	Cole Information Services
2004	ABRAHAM LEVY	Cole Information Services
	BROWN Susan	Haines Company
	LEVY Abraham	Haines Company

FINDINGS

Year	Uses	Source
1999	LARRY BROWN	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
	POSITIVITY PLUS	Cole Information Services
1995	Baby Power	Pacific Bell
1994	BABY POWER	Cole Information Services
1991	Baby Power	Pacific Bell
1985	Baby Power	Pacific Bell

8329 SEDAN AVE

Year	Uses	Source
2015	DONALD POLITE	Cole Information Services
2009	NICOLE BERRENSON	Cole Information Services
2004	DORSY KARSTEN	Cole Information Services
	SKARSTENKia	Haines Company
1999	NICOLE BERRENSON	Cole Information Services
1995	Intercare Cleaning Services	Pacific Bell
	De Silva Lal	Pacific Bell

8332 SEDAN AVE

Year	Uses	Source
2015	CECELIA GARCIA	Cole Information Services
2009	CECELIA GARCIA	Cole Information Services
2004	CECELIA GARCIA	Cole Information Services
	GARCIACecela	Haines Company
1999	CECELIA GARCIA	Cole Information Services

8333 SEDAN AVE

Year	Uses	Source
2015	ANTHONY BUCCINO	Cole Information Services
2009	ANTHONY BUCCINO	Cole Information Services
2004	ANTHONY BUCCINO	Cole Information Services
	BUCCINOAnlhony	Haines Company
1999	OCCUPANT UNKNOWN	Cole Information Services
	ANTHONY BUCCINO	Cole Information Services
1985	Anas V	Pacific Bell

8336 SEDAN AVE

Year	Uses	Source
2015	RHONDA WILCOX	Cole Information Services
2009	JUDY WILCOX	Cole Information Services

FINDINGS

Year	Uses	Source
2004	JUDY WILCOX	Cole Information Services
	SWILCOXJudy	Haines Company
1999	OCCUPANT UNKNOWN	Cole Information Services
	JUDY WILCOX	Cole Information Services

8337 SEDAN AVE

Year	Uses	Source
2015	RANDALL KIRWAN	Cole Information Services
2009	RANDALL KIRWAN	Cole Information Services
2004	RANDALL KIRWAN	Cole Information Services
	KIRWAN Randall	Haines Company
1999	RANDALL KIRWAN	Cole Information Services
1994	KIRWAN, RANDY	Cole Information Services
1991	Kir Wna Steve	Pacific Bell
	Kirwan Randy & Lee	Pacific Bell

8340 SEDAN AVE

Year	Uses	Source
2015	VALERIE HO	Cole Information Services
2009	RICHARD ALCOCER	Cole Information Services
2004	PETER PIEDRAHITA	Cole Information Services
	VERONICAS GARDEN	Cole Information Services
	PIEDRAHITARandi	Haines Company
	OPIEDRAHITA Petler	Haines Company
1999	RICHARD ALCOCER	Cole Information Services

8341 SEDAN AVE

Year	Uses	Source
2015	DAVID LEISEN	Cole Information Services
2009	DAVID LEISEN	Cole Information Services
2004	DAVID LEISEN	Cole Information Services
	LEISEN David	Haines Company
1999	DAVID LEISEN	Cole Information Services
1991	Mandvia Jaffar	Pacific Bell

8346 SEDAN AVE

Year	Uses	Source
2015	JAMES MELODY	Cole Information Services
2009	JAMES MELODY	Cole Information Services
2004	JAMES MELODY	Cole Information Services

FINDINGS

Year	Uses	Source
2004	MELODYJames J	Haines Company
	SMELODYJames A	Haines Company
1999	JAMES MELODY	Cole Information Services
1995	Melody James A P	Pacific Bell
1994	MELODY, JAMES A	Cole Information Services
1991	Melody Jennifer I	Pacific Bell
	Melody James AP	Pacific Bell
1985	Melody James A P	Pacific Bell
1980	MELODY JAS A P	Pacific Telephone

8347 SEDAN AVE

Year	Uses	Source
2015	SANDRA BAKELMAN	Cole Information Services
2009	PERRY BAKELMAN	Cole Information Services
2004	PERRY BAKELMAN	Cole Information Services
	BAKELMAN Perry	Haines Company
1999	PERRY BAKELMAN	Cole Information Services
1995	Bakelman Perry	Pacific Bell
1994	BAKELMAN, PERRY	Cole Information Services
1991	Bakelman Perry	Pacific Bell
1985	Bakeman Lisa	Pacific Bell
	Bakeman Debra	Pacific Bell
	Baker A . . .2441736	Pacific Bell
	Baker A	Pacific Bell
	Bakelman Perry	Pacific Bell
1980	BAKELMAN PERRY	Pacific Telephone

8351 SEDAN AVE

Year	Uses	Source
2009	SHARON SIDES	Cole Information Services
2004	SHARON SIDES	Cole Information Services
1999	SHARON SIDES	Cole Information Services

8352 SEDAN AVE

Year	Uses	Source
2015	HARRIET JOHNSON	Cole Information Services
2009	HARRIET JOHNSON	Cole Information Services
1999	HARRIET JOHNSON	Cole Information Services

FINDINGS

8355 SEDAN AVE

Year	Uses	Source
2015	NIRU TRIVEDI	Cole Information Services
2009	KIRIT TRIVEDI	Cole Information Services
2004	OCCUPANT UNKNOWN	Cole Information Services
	TRIVEDINinu	Haines Company
1999	KIRIT TRIVEDI	Cole Information Services

8356 SEDAN AVE

Year	Uses	Source
2015	MARIA ENRIQUEZ	Cole Information Services
2004	RON LOMBARD	Cole Information Services
	SENGER Clarence	Haines Company
1999	OCCUPANT UNKNOWN	Cole Information Services
1980	STUART SANDRA	Pacific Telephone

8360 SEDAN AVE

Year	Uses	Source
2015	OAK LAKE ASSN	Cole Information Services
2009	OAK LAKE ASSOCIATION	Cole Information Services
2004	OAK LAKE ASSOCIATION	Cole Information Services
	OAK LAKE ASSN	Haines Company
1999	OAK LAKE ASSOCIATION	Cole Information Services
1995	Oak Lake Assn	Pacific Bell
1994	OAK LAKE ASSN	Cole Information Services
1991	Oak Lake Assn	Pacific Bell
1985	Oak Lake Assn	Pacific Bell
1980	OAK LAKE ASSN	Pacific Telephone
1970	HIDDEN LAKE ESTATES	Pacific Telephone
	HIDDEN LAKE ESTATES	Pacific Telephone

FINDINGS

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
22920 ROSCOE BLVD	2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22920 ROSCOE BLVD	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22920 ROSCOE PL	2015, 2009, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22928 ROSCOE BLVD	2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22934 ROSCOE BLVD	2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22934 ROSCOE BLVD	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22934 ROSCOE PL	2015, 2009, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22942 ROSCOE BLVD	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22942 ROSCOE BLVD	2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
22942 ROSCOE PL	2015, 2009, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22950 ROSCOE BLVD	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22950 ROSCOE BLVD	2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22950 ROSCOE PL	2015, 2009, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22956 ROSCOE BLVD	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22956 ROSCOE BLVD	2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22956 ROSCOE PL	2015, 2009, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
23001 ROSCOE BLVD	2009, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
23004 ROSCOE BLVD	2015, 2006, 2004, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
23004 ROSCOE PL	2015, 2009, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
23023 ROSCOE BLVD	2015, 2009, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8211 SEDAN AVE	2015, 2009, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8218 SEDAN AVE	2015, 2009, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8239 SEDAN AVE	2009, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8243 LENA AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8300 DUCOR AVE	2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8300 DUCOR AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8300 SEDAN AVE	2015, 2009, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8300 SEDAN AVE	2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8301 DUCOR AVE	2006, 2004, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
8301 DUCOR AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8301 SEDAN AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8301 SEDAN AVE	2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8304 DUCOR AVE	2006, 2003, 2001, 2000, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8304 DUCOR AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8305 DUCOR AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8305 DUCOR AVE	2006, 2003, 2001, 2000, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8307 SEDAN AVE	2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8307 SEDAN AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8308 SEDAN AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
8308 SEDAN AVE	2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8310 DUCOR AVE	2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8310 DUCOR AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8311 DUCOR AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8311 DUCOR AVE	2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8311 SEDAN AVE	2006, 2004, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8311 SEDAN AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1994, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8312 SEDAN AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8312 SEDAN AVE	2006, 2003, 2001, 2000, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8314 DUCOR AVE	2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
8314 DUCOR AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8315 DUCOR AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8315 DUCOR AVE	2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8316 SEDAN AVE	2006, 2003, 2001, 2000, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8316 SEDAN AVE	2015, 2009, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1994, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8317 SEDAN AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8317 SEDAN AVE	2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8318 DUCOR AVE	2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8318 DUCOR AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8318 SEDAN AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
8319 DUCOR AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1994, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8319 DUCOR AVE	2006, 2003, 2001, 2000, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8320 SEDAN AVE	2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8320 SEDAN AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1994, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8321 SEDAN AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8321 SEDAN AVE	2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8322 DUCOR AVE	2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8322 DUCOR AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8325 DUCOR AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8325 DUCOR AVE	2006, 2003, 2001, 2000, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
8328 DUCOR AVE	2015, 2006, 2003, 2001, 2000, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8328 DUCOR AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8328 SEDAN AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1994, 1992, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8328 SEDAN AVE	2006, 2003, 2001, 2000, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8329 SEDAN AVE	2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8329 SEDAN AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8331 DUCOR AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8331 DUCOR AVE	2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8332 DUCOR AVE	2009, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8332 DUCOR AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
8332 SEDAN AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8332 SEDAN AVE	2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8333 SEDAN AVE	2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8333 SEDAN AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8336 SEDAN AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8336 SEDAN AVE	2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8337 DUCOR AVE	2015, 2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8337 DUCOR AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1994, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8337 SEDAN AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8337 SEDAN AVE	2006, 2003, 2001, 2000, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
8338 DUCOR AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1994, 1992, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8338 DUCOR AVE	2006, 2003, 2001, 2000, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8340 SEDAN AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8340 SEDAN AVE	2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8341 DUCOR AVE	2006, 2003, 2001, 2000, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8341 DUCOR AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1994, 1992, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8341 SEDAN AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8341 SEDAN AVE	2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8344 DUCOR AVE	2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8344 DUCOR AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
8346 SEDAN AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1994, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8346 SEDAN AVE	2006, 2003, 2001, 2000, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8347 DUCOR AVE	2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8347 DUCOR AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8347 SEDAN AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1994, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8347 SEDAN AVE	2006, 2003, 2001, 2000, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8348 DUCOR AVE	2006, 2003, 2001, 2000, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8348 DUCOR AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1994, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8351 DUCOR AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8351 DUCOR AVE	2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
8351 SEDAN AVE	2015, 2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8352 SEDAN AVE	2006, 2004, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8355 DUCOR AVE	2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8355 DUCOR AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8355 SEDAN AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8355 SEDAN AVE	2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8356 DUCOR AVE	2006, 2004, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8356 DUCOR AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1994, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8356 SEDAN AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8356 SEDAN AVE	2009, 2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
8360 SEDAN AVE	2006, 2003, 2001, 2000, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8360 SEDAN AVE	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1994, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8368 SAMRA DR	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8374 SAMRA DR	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1994, 1992, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8374 SAMRA DR	2006, 2003, 2001, 2000, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8376 SAMRA DR	2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8376 SAMRA DR	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1994, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8377 SAMRA DR	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8377 SAMRA DR	2006, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8380 SAMRA DR	2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
8380 SAMRA DR	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8384 SAMRA DR	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1994, 1992, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8384 SAMRA DR	2006, 2003, 2001, 2000, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8385 SAMRA DR	2006, 2004, 2003, 2001, 2000, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8385 SAMRA DR	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8388 SAMRA DR	2015, 2009, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8388 SAMRA DR	2015, 2006, 2004, 2003, 2001, 2000, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8391 SAMRA DR	2006, 2003, 2001, 2000, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8391 SAMRA DR	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1994, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8392 SAMRA DR	2015, 2009, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

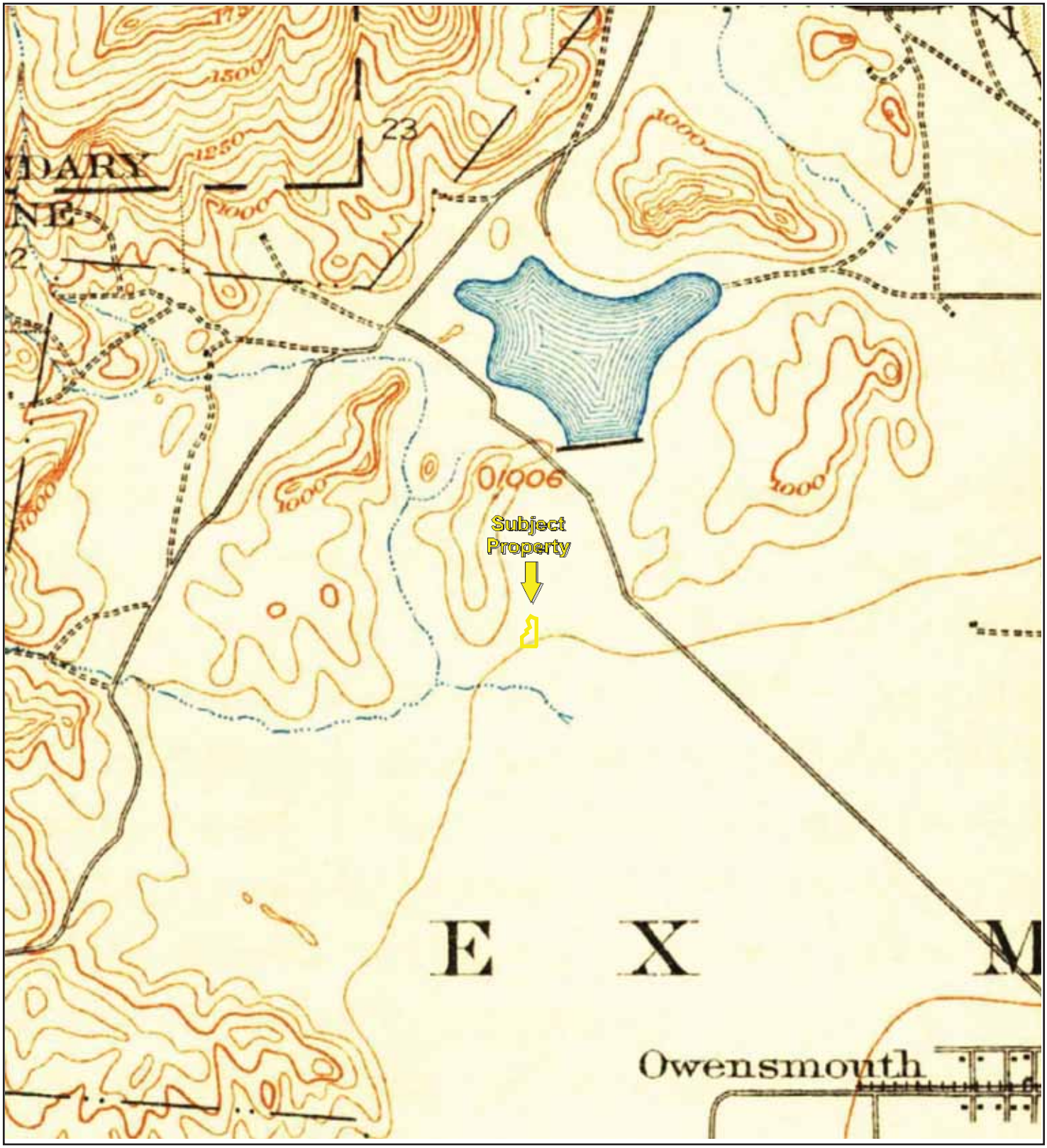
FINDINGS

Address Researched	Address Not Identified in Research Source
8392 SAMRA DR	2006, 2003, 2001, 2000, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
NW Corner of Roscoe Boulevard & Fallbrook Avenue	2009, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1994, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

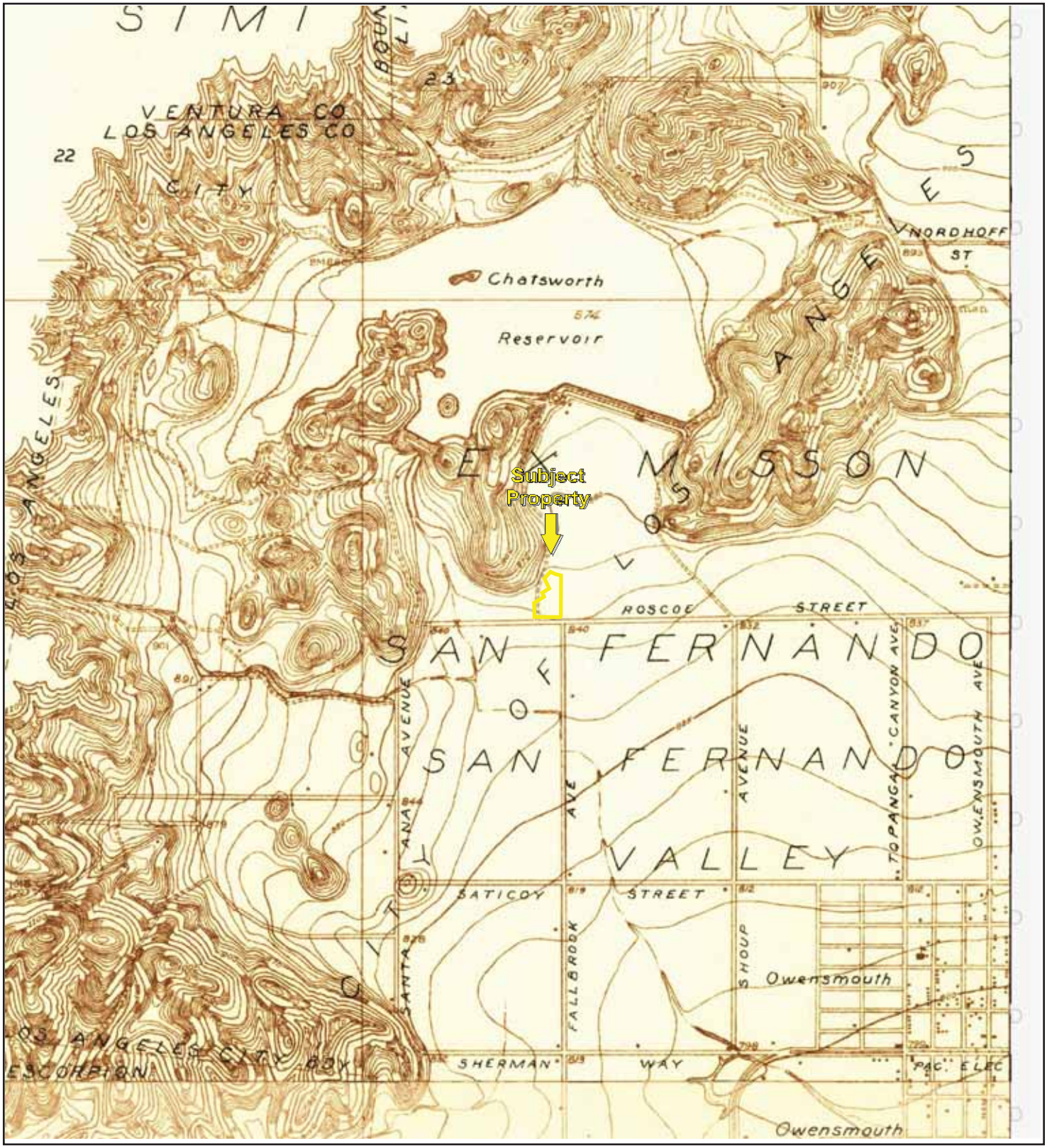


TP, Calabasas, 1903, 15-minute

0 Miles 0.25 0.5 1 1.5

N

Key: Subject Property



TP, Chatsworth, 1925, 7.5-minute
S, Dry Canyon, 1925, 7.5-minute

0 Miles 0.25 0.5 1 1.5

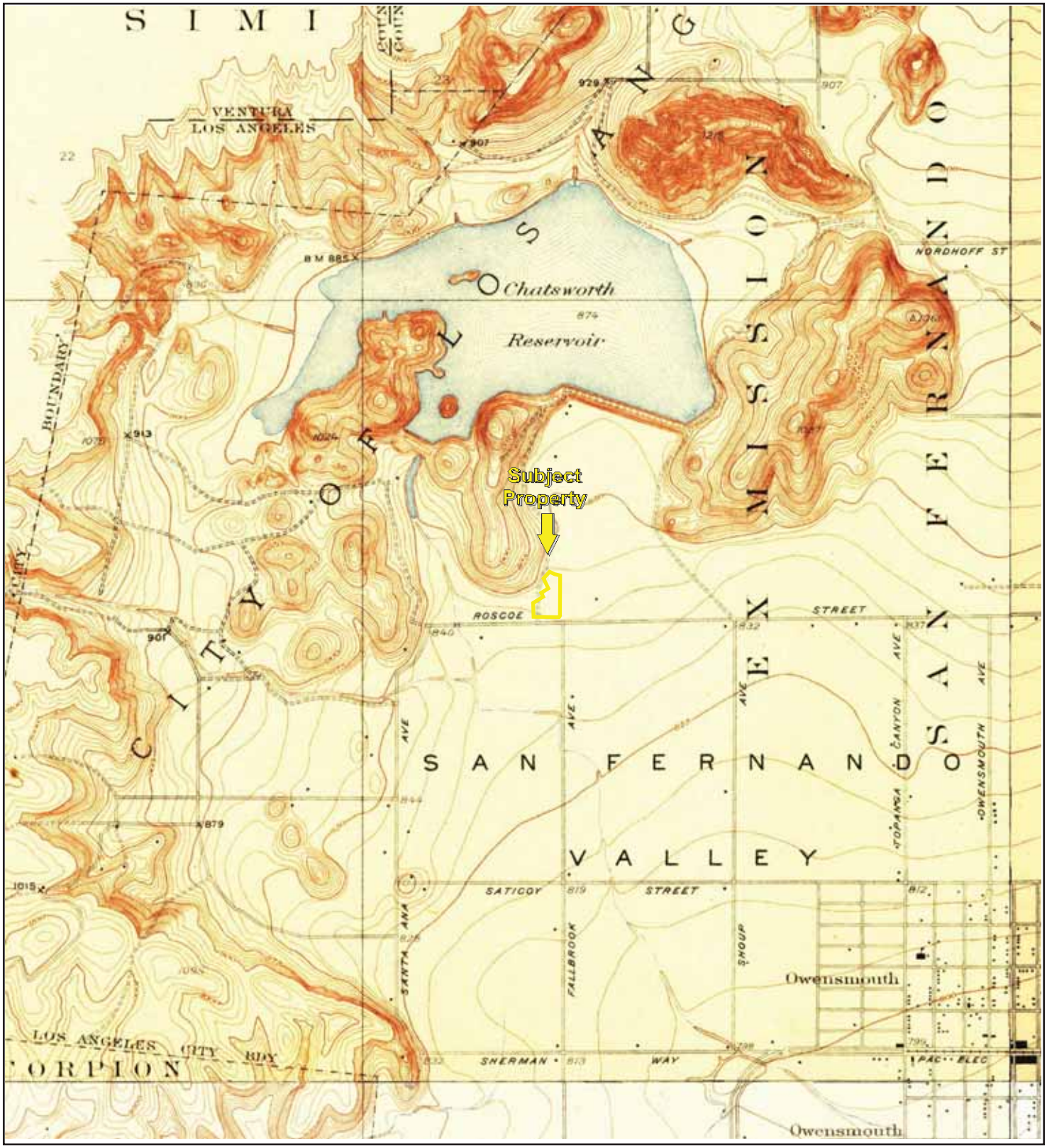
N

Key: Subject Property

APPENDIX B: Topographic Maps

Project No. 20-288877.1

PARTNER



TP, Chatsworth, 1927, 7.5-minute
NE, Zelzah, 1928, 7.5-minute
SE, Reseda, 1928, 7.5-minute
S, Dry Canyon, 1928, 7.5-minute

0 Miles 0.25 0.5 1 1.5

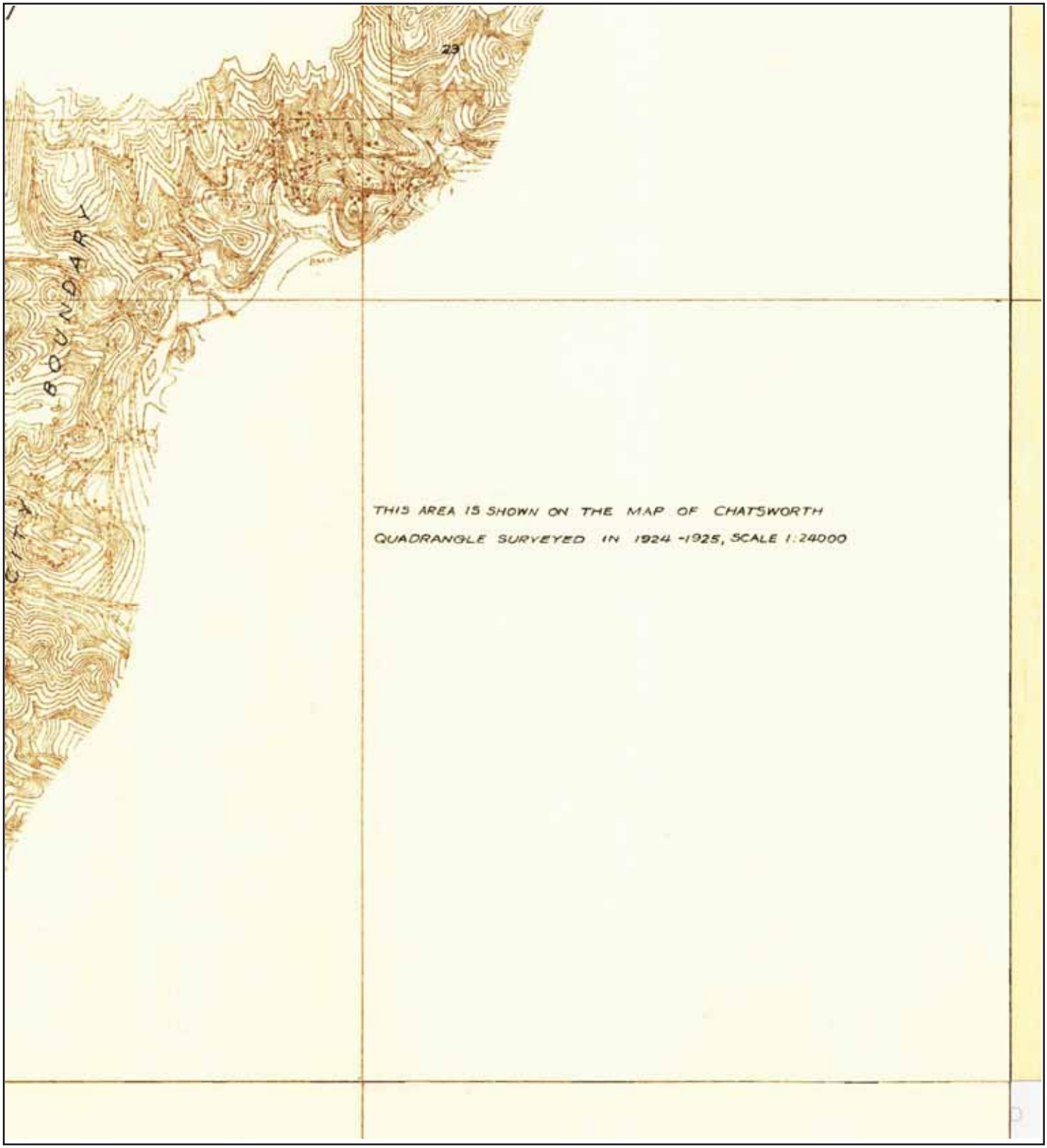
N

Key: Subject Property

APPENDIX B: Topographic Maps

Project No. 20-288877.1

PARTNER



TP, Chatsworth, 1929, 7.5-minute
NE, Zelzah, 1929, 7.5-minute
S, Dry Canyon, 1929, 7.5-minute

0 Miles 0.25 0.5 1 1.5

N

Key: Subject Property



TP, Chatsworth, 1933, 7.5-minute
NE, Zelzah, 1932, 7.5-minute
S, Dry Canyon, 1932, 7.5-minute

0 Miles 0.25 0.5 1 1.5

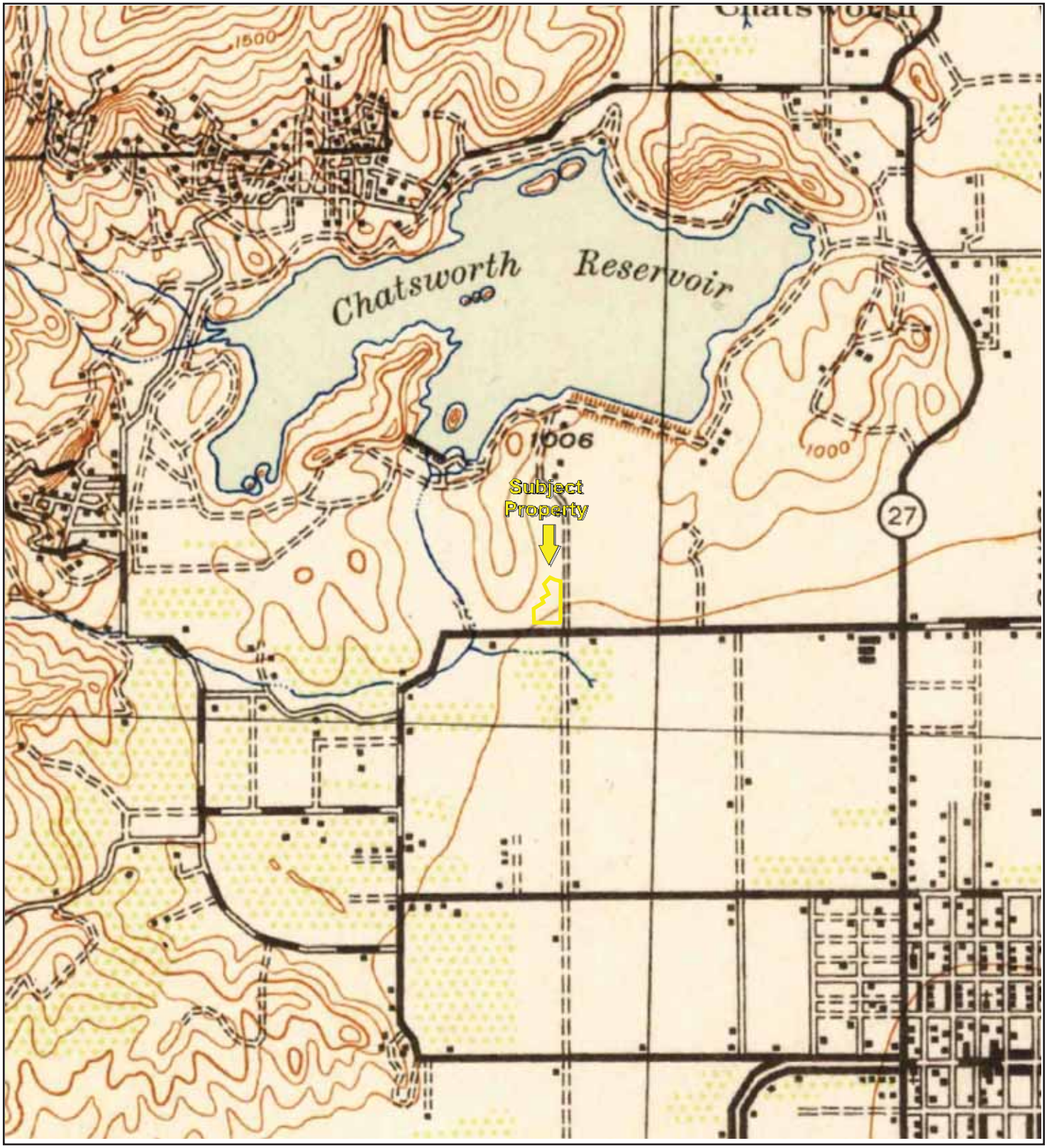
N

Key: Subject Property

APPENDIX B: Topographic Maps

Project No. 20-288877.1

PARTNER



TP, Calabasas, 1944, 15-minute

0 Miles 0.25 0.5 1 1.5

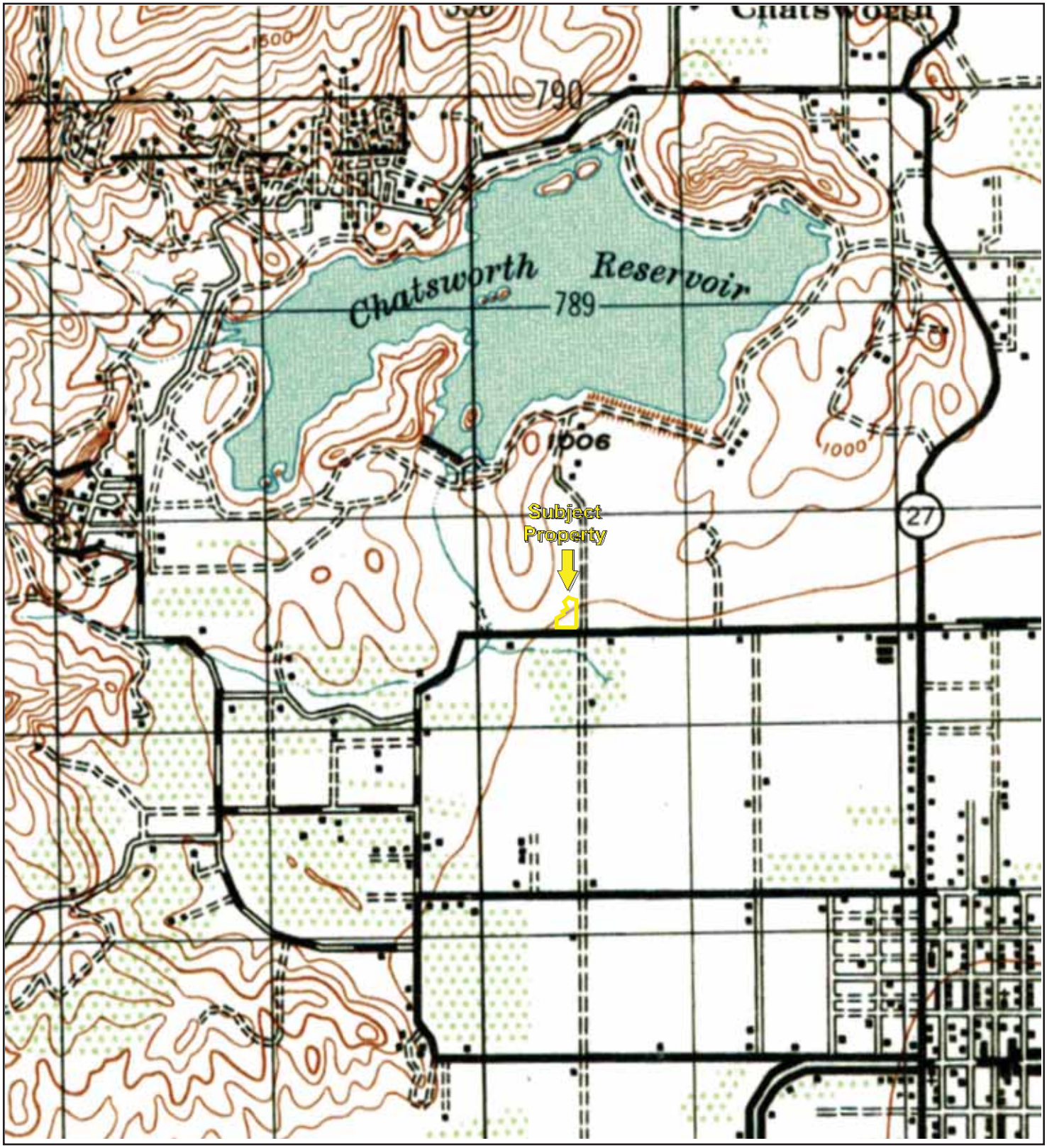
N

Key: Subject Property

APPENDIX B: Topographic Maps

Project No. 20-288877.1

PARTNER



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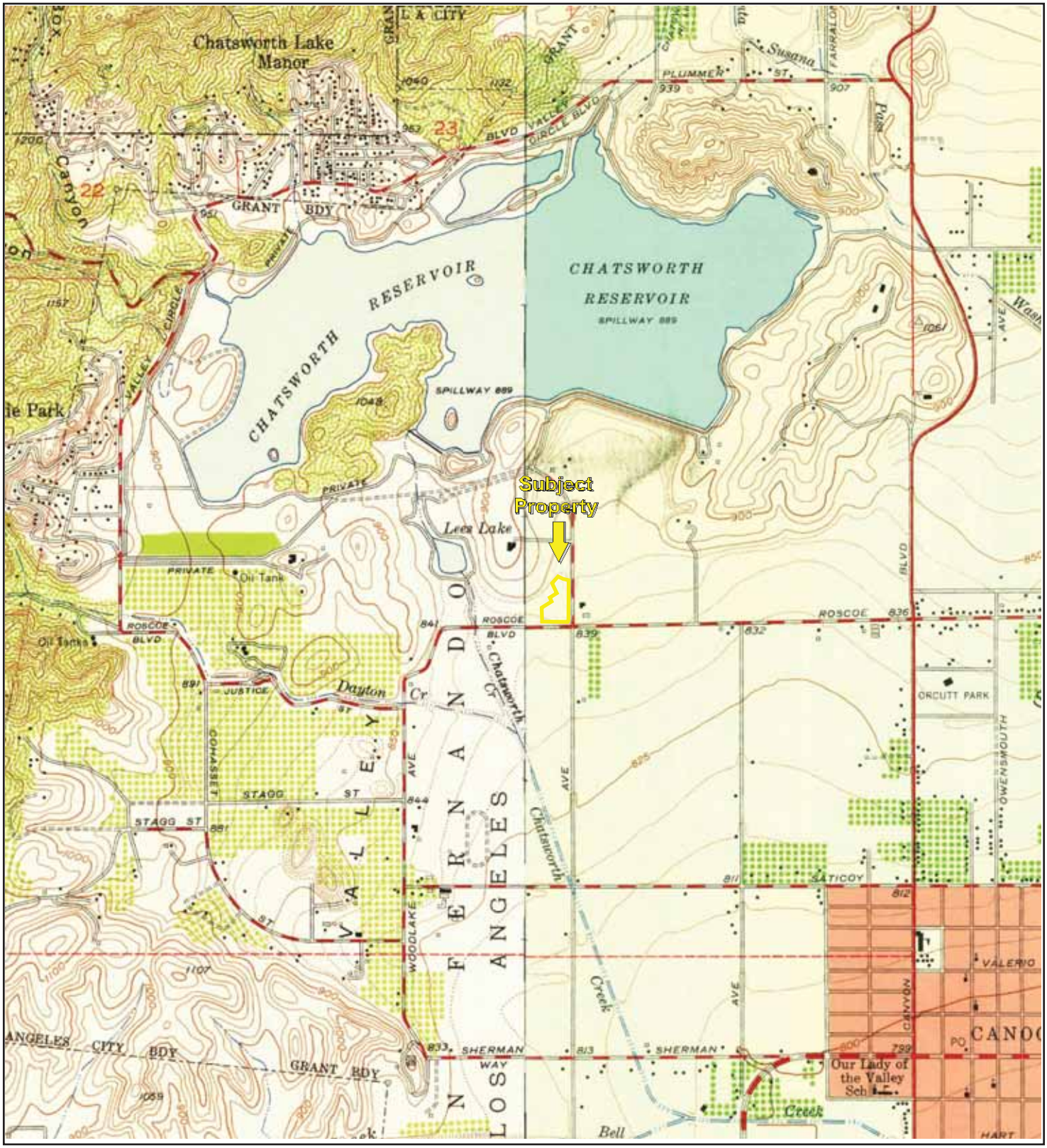
Key: Subject Property

APPENDIX B: Topographic Maps

Project No. 20-288877.1

PARTNER



TP, Calabasas, 1952, 7.5-minute
SE, Canoga Park, 1952, 7.5-minute

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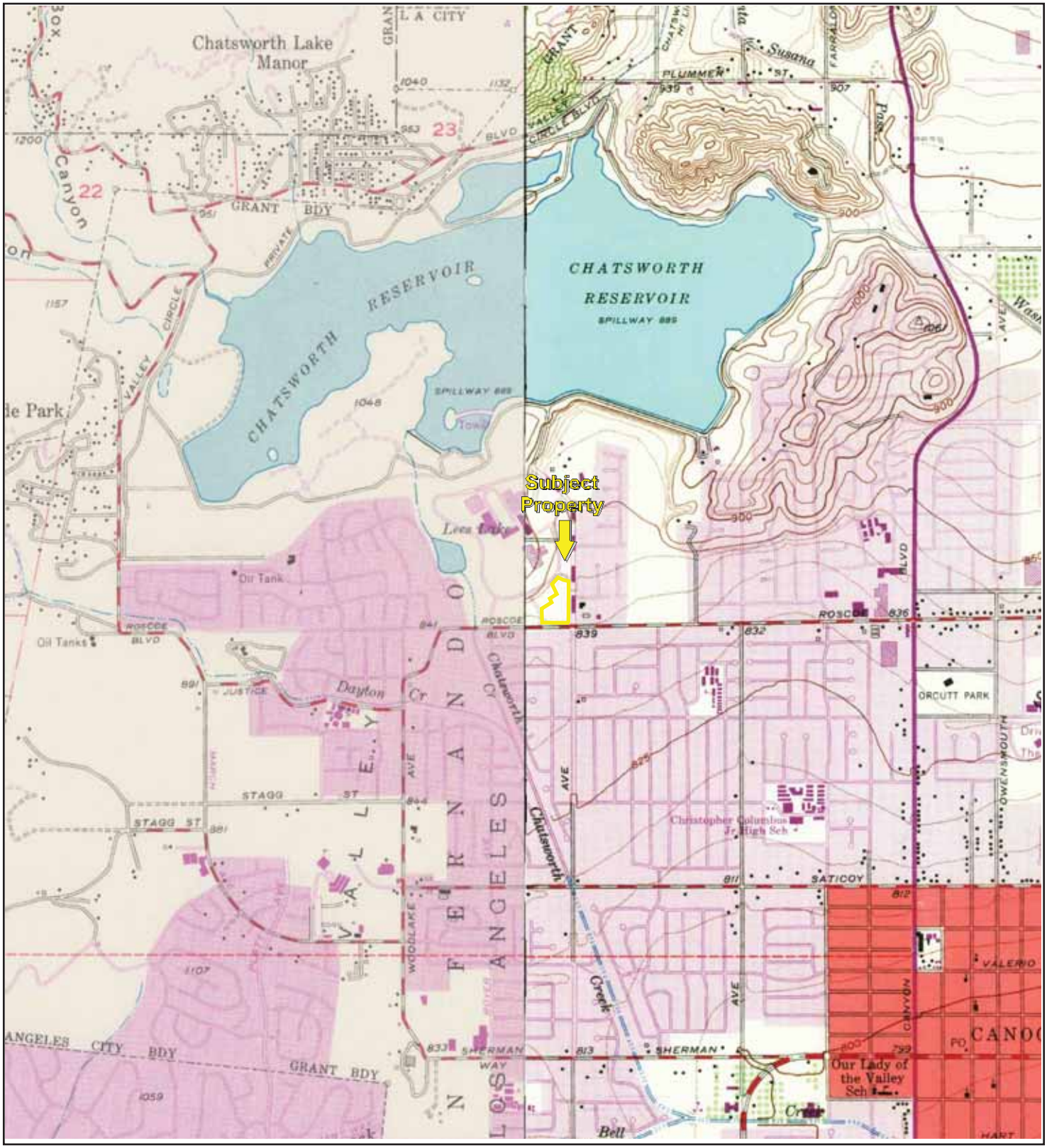
N

Key: Subject Property

APPENDIX B: Topographic Maps

Project No. 20-288877.1

PARTNER



TP, Calabasas, 1967, 7.5-minute
SE, Canoga Park, 1967, 7.5-minute

0 Miles 0.25 0.5 1 1.5

N

Key: Subject Property

APPENDIX B: Topographic Maps

Project No. 20-288877.1

PARTNER



TP, Calabasas, 2012, 7.5-minute
SE, Canoga Park, 2012, 7.5-minute

0 Miles 0.25 0.5 1 1.5

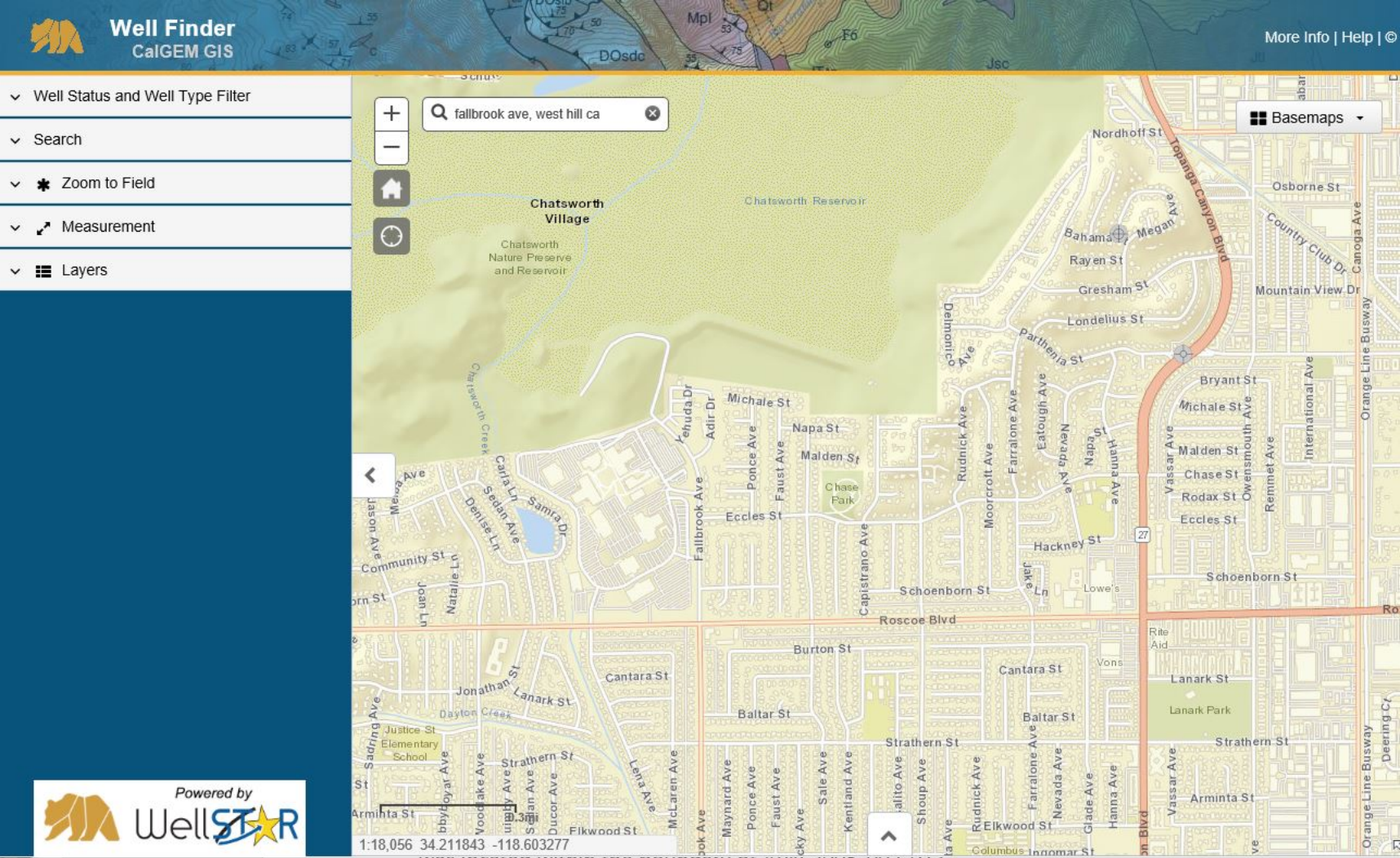
N

Key: Subject Property

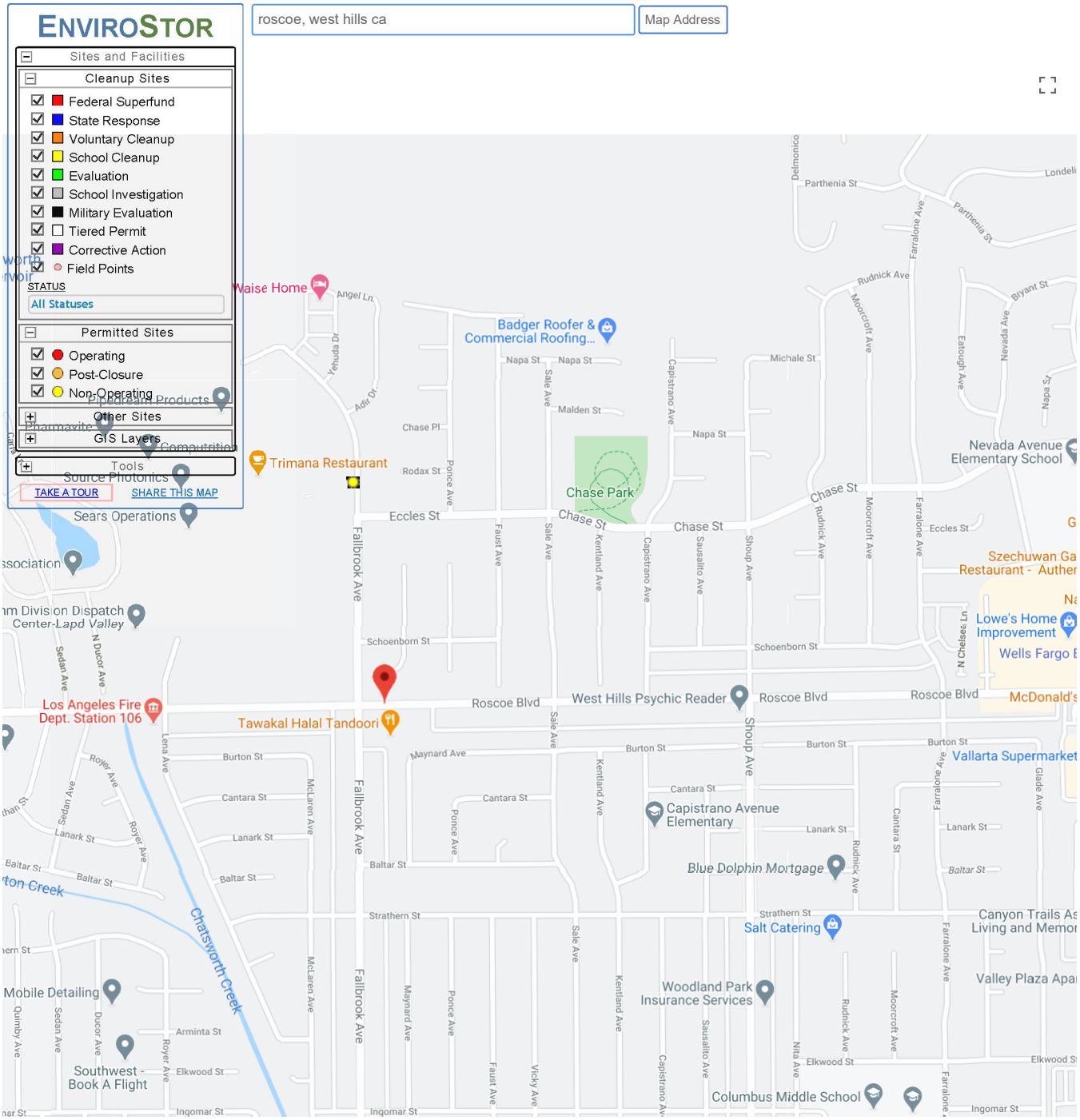
APPENDIX B: Topographic Maps

Project No. 20-288877.1

PARTNER



was located within the boundary of APN 2005-002-013.



SITES CURRENTLY VISIBLE ON MAP — 3 SITES LISTED — EXPORT THIS LIST TO EXCEL

PROJECT NAME	STATUS	PROJECT TYPE	ADDRESS	CITY
GOLDEN CLEANERS	REFER: 1248 LOCAL AGENCY	EVALUATION	8225 TOPANGA CANYON BLVD.	CANOGA PARK
RAYTHEON SYSTEMS CO	CLOSED	NON-OPERATING	8433 FALLBROOK AVE	CANOGA PARK
RAYTHEON SYSTEMS CO	ACTIVE	CORRECTIVE ACTION	8433 FALLBROOK AVE	CANOGA PARK

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIROSTOR

Tools Reports Community Involvement How to Use EnviroStor ESI DTSC Web

RAYTHEON SYSTEMS CO (CAD041162124)

SIGN UP FOR EMAIL ALERTS

8433 FALLBROOK AVE
CANOGA PARK, CA 913040000
LOS ANGELES COUNTY

FACILITY TYPE: HIST PERMITTED
PROGRAM TYPE: HAZARDOUS WASTE FACILITY

CENSUS TRACT: 6037113231
CALENVIROSCREEN PERCENTILE SCORE: 36-40%

Permitting | Activities | Site/Facility Docs | Map | Related Sites | CalEnviroScreen | Enforcement / Inspections | Corrective Action

Site Information

SITE/FACILITY TYPE
CLOSED
- PERMIT AUTHORITY: RCRA

SITE CODE	ASSEMBLY DISTRICT	SENATE DISTRICT
300336	45	27

Facility History

Raytheon, Canoga Park facility is an inactive facility and currently DTSC is reviewing its Closure Certification Report (CCR). It has two known permitted units, a hazardous waste storage area (HWSA) and a waste oil tank T3. The HWSA is used to store containerized hazardous wastes such as flammables, nonflammables, and corrosives. The Tank T3 has a capacity of 4,000 gallons and was used to store waste oils and waste oil mixed with solvents. T3 was removed in 1988.

The Closure Plan was submitted in February 1995 and revised August 1995, as a result of Notices of Deficiencies (NODs) issued to Hughes Missile System Company (HMSC) by DTSC dated December 21, 1994 and June 6, 1995. On December 1995, the DTSC modified the Closure Plan dated August 1995 to reflect changes in the closure performance standards for certain VOCs, background from metals, and conditions under the Health and Safety Plan.

Raytheon submitted the Closure Certification Report (CCR) for the HWSA in 2002 and shortly after Raytheon requested a change of Project Manager (PM). The project was then transfer from Southern California to Northern California. However, due to staff changes in Raytheon and DTSC, the CCR was not evaluated until the middle of 2006.

August 2007 update - The CCR is being reviewed for closure. An RCRA Facility Assessment (RFA) is being drafted in anticipation of a Corrective Action Consent Agreement (CA) which is to address all outstanding in the HWSA and T3 plus a number of other Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs).

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DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIROSTOR

Tools Reports Community Involvement How to Use EnviroStor ESI DTSC Web

RAYTHEON SYSTEMS CO (80001366)

SIGN UP FOR EMAIL ALERTS

8433 FALLBROOK AVE
CANOGA PARK, CA 913040000
LOS ANGELES COUNTY
SITE TYPE: CORRECTIVE ACTION

PROJECT MANAGER: JESSY FIERRO
SUPERVISOR: ALLAN PLAZA
OFFICE: CLEANUP CHATSWORTH
CENSUS TRACT: 6037113231
CALENVIROSCREEN PERCENTILE SCORE: 36-40%

Summary | Activities | Site/Facility Docs | Sub-Areas | Map | Related Sites | CalEnviroScreen | Permitting | Enforcement / Inspections

Site Information

CLEANUP STATUS
ACTIVE AS OF 6/15/2009

SITE TYPE: CORRECTIVE ACTION
NATIONAL PRIORITIES LIST: NO
ACRES: 86 ACRES
APN: NONE SPECIFIED
CLEANUP OVERSIGHT AGENCIES:
DTSC - SITE CLEANUP PROGRAM

ENVIROSTOR ID: 80001366
SITE CODE: 300336, 301758
SPECIAL PROGRAM:
FUNDING:
ASSEMBLY DISTRICT: 45
SENATE DISTRICT: 27

Regulatory Profile

PAST USE(S) THAT CAUSED CONTAMINATION
HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, RESEARCH - AEROSPACE, UNDERGROUND STORAGE TANKS, WASTE - INDUSTRIAL WASTE LINE

POTENTIAL CONTAMINANTS OF CONCERN
METALS
RADIOACTIVE ISOTOPES
TPH-DIESEL
VOLATILE ORGANICS (8260B VOCS)

POTENTIAL MEDIA AFFECTED
OTHER GROUNDWATER AFFECTED (USES OTHER THAN DRINKING WATER), SOIL, SOIL VAPOR

Site History

Raytheon, Canoga Park facility is an inactive facility and DTSC requires the facility to undergo the closure process. It has two known permitted units, a hazardous waste storage area (HWSA) and a waste oil tank T3. The HWSA is used to store containerized hazardous wastes such as flammables, nonflammables, and corrosives. The Tank T3 has a capacity of 4,000 gallons and was used to store waste oils and waste oil mixed with solvents. T3 was removed in 1988.

The Closure Plan was submitted in February 1995 and revised August 1995, as a result of Notices of Deficiencies (NODs) issued to Hughes Missile System Company (HMSC) by DTSC dated December 21, 1994 and June 6, 1995. On December 1995, the DTSC modified the Closure Plan dated August 1995 to reflect changes in the closure performance standards for certain VOCs, background from metals, and conditions under the Health and Safety Plan.

A Corrective Action Consent Agreement (CACA) is necessary to address all outstanding issues related to the HWSA and T3, including a number of other Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs).

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RCRA FACILITY ASSESSMENT.

HUGHES MISSILE SYSTEMS COMPANY

CANOGA PARK FACILITY

(RAYTHEON)

EPA ID – CAD041162124

Prepared by:

Martin Herrmann
Hazardous Substance Engineer

Department of Toxic Substances Control
8800 Cal Center Drive

January 30, 2008

Table of Contents

1.0 INTRODUCTION..... 3
2.0 SITE DESCRIPTION..... 3
3.0 ENVIRONMENTAL SETTING 5
4.0 SOLID WASTE MANAGEMENT UNITS And AREAS Of CONCERN..... 6
5.0 EXPOSURE PATHWAYS..... 15
6.0 VISUAL SITE INSPECTIONS 15
7.0 RECOMMENDATIONS FOR FURTHER ACTION..... 15
FIGURES..... 17

1.0 INTRODUCTION

The 1984 Resource Conservation and Recovery Act (RCRA) amendments provide authority for the U.S. Environmental Protection Agency (USEPA) to require comprehensive corrective action on Solid Waste Management Units (SWMUs) and other areas of concern at facilities applying for a Part B permit and those with RCRA Interim Status or facilities that operated in a manner that required a hazardous waste facility permit even though the facility had not obtained or applied for a hazardous waste permit. The Hughes Missile Systems Company operated the Canoga Park Facility with two permitted interim status units. These units were closed with closure certification pending. Interim Remediation is currently being under taken under the Los Angeles Regional Water Quality Control Board (LARWQCB).

In 1997 the Raytheon Missile Systems Company acquired the Hughes Missile Systems Company which then merged with Raytheon in 1998 to become the Raytheon Systems Company (Raytheon). Raytheon subsequently sold off the Canoga Park site but retains responsibility for site cleanup.

In order to accomplish the objective of corrective action, a RCRA Facility Assessment (RFA) of the Canoga Park Facility was conducted. This assessment consisted of a preliminary review (PR) of documentation of past site investigations and a Visual Site Inspections (VSI). The VSI was conducted on June 13, 2007.

This report is a summary of the PR and the VSI. The PR is based upon information found in files and reports at the Department of Toxic Substances Control (DTSC) including the facility operation plan, closure plan, and documents provided by Hughes/Raytheon. The documents that form the basis for this RFA are referenced and are considered as supplemental documents.

2.0 SITE DESCRIPTION

2.1 Location

The Canoga Park Facility is located at 8433 Fallbrook Avenue in Canoga Park, California. The facility is located in the northwest portion of the San Fernando Valley of Los Angeles County, California. The site is approximately 86 acres in area and ranges in elevation from approximately 900 feet above mean sea level (MSL) in the north-central portion to approximately 840 feet above MSL at its southern boundary. The site is bounded to the east by Fallbrook Avenue, to the south by Roscoe Boulevard, to the north by open space land adjacent to the Chatsworth reservoir, and to the west by single family residential housing (Figure 1 - Aerial photo). Residential neighborhoods are located across Fallbrook Avenue and Roscoe Boulevard.

2.2 Ownership History

In 1959, the 8433 Fallbrook Avenue property was developed as an industrial park by Bunker-Ramo, an electrical component design and testing company. Bunker-Ramo was the sole occupant of the Facility from 1959 until 1966. From 1966 to 1976, Hughes

Missile Systems Company (Hughes) was a co-occupant with Rocketdyne, a division of Rockwell International, and Bunker-Ramo. Hughes purchased the entire Site in the mid-1970s and became the sole occupant, operating as an aerospace research and development facility. Through a merger with Hughes in 1997, Raytheon assumed management of the environmental investigations and remediation activities at the Facility. The January 17, 1994 Northridge Earthquake (Mw 6.7) damaged several buildings at the property and led to Hughes moving people and activities to Tucson, Arizona. In May 1995, the Facility was purchased from Hughes by Coast Federal Bank (CFB). At this time, land use changed from research, development and "prototyping" to commercial office space. The northern portion of the Site was sold to Regent Properties, Inc. (Regent) in 1997. Regent completed a major development project that included building redevelopment, remodeling and re-grading to raise the elevation of a portion of the Site. Parcels within the southern portion of the Site were subsequently purchased by DeVry Incorporated, Los Angeles Metropolitan Police Department and Trammel Crow. DeVry initiated a development project that included new building construction and re-grading. In September 2001, Regent sold its portion of the Facility to Shamrock Holdings, Inc., who in turn, sold the property to MEPT West Hills Limited Liability Corporation (LLC) in June 2002. MEPT West Hills LLC is the current property owner, although Trammell Crow Company acts as property manager for the Facility. As stipulated in the sales agreement with CFB in 1995, Hughes (now Raytheon) continued to address environmental impacts resultant from its former operations.

2.3 Past Waste Management Activities

Small amounts of hazardous wastes were collected in 55 gallon drums and stored in the HWSA, where flammables were physically separated from corrosives. Wastes handled include acids, bases, iron, tin, fluorine, gasoline, diesel, copper, chromium, Freon, oils, cyanides, flammable solvents and chlorinated solvents. The curbed storage area had a reinforced concrete base with a grated sump. Security was controlled by masonry, chain link walls and gated access. The area had a tarpaulin roof. Wastes were accumulated, and full containers were periodically sent to a hazardous waste facility.

Hazardous waste oils and solvents were collected in a four thousand gallon underground storage tank (T3) just northwest of the HSWA. Wastes were accumulated and were periodically sent by tanker to a hazardous waste facility.

2.4 Current Waste Management Activities

Currently the site is used as office space for a multitude of tenants. The waste activities are chiefly the remediation of the soil and groundwater at the identified hot spots in the north west and the central east portions of the site. Since 1995 the groundwater and soil in the northwest plume has been treated by a groundwater recovery and treatment system, (GRTS), a solvent vapor extraction system(SVE) and later enhanced with an air sparge system (AS). The water was treated by air stripping and carbon absorption of the volatile organics. The soil vapor was extracted by vacuum volatilization and carbon absorption. These were shutdown because of asymptotic conditions and replaced with an enhanced in-situ bioremediation process (EISB) starting in October of 2005. The EISB process was also applied to a smaller plume in the northeast of the site in December of 2006.

Current operations involve ground water monitoring on a quarterly basis to monitor the effectiveness of the EISB process.

2.5 Permit History for Hazardous Waste Management Units

Hughes Missile Systems Group operated at the site since 1965 and was issued a Hazardous Waste Facility Permit on June 28, 1985 for the HWSA and T3 RCRA units. Operations ceased in 1994. A Closure and Post Closure Plan was approved in late1995. This plan included a report of the T3 closure. A closure certification report for the HWSA was submitted in November 8, 2002. Both of these closures were incomplete with soil and ground water contamination at depth.

3.0 ENVIRONMENTAL SETTING

3.1 Site Geology

The shallow geologic deposits of the western San Fernando Valley in the vicinity of the project site are comprised of predominantly unconsolidated sands, silts and clays with occasional gravels. These alluvial fill deposits are of Quaternary age and range in thickness from thin veneer at the valley margins to more than 700 feet in the central portion of the San Fernando Valley. In the western portion of valley, the unconsolidated alluvial fill deposits are unconformably underlain by consolidated bedrock of the Modelo and Chatsworth Formations, respectively. The Modelo Formation consists of grayish siltstone, clayey siltstone and shale, with minor interbedded diatomaceous shale. A relatively thin weathered zone exists along the top of the formation where it is in contact with the shallow alluvial deposits. The Chatsworth Formation is comprised primarily of a turbidite sandstone sequence with interbedded shale and minor conglomerates. The bedrock of the Chatsworth Formation, which is the major rock comprising the Simi Hills, forms the distinct outcrops north of Chatsworth Reservoir (McLaren, 1989). A major portion of the Former Raytheon Facility is constructed on consolidated bedrock of the Miocene Modelo Formation. Near surface (to 50 or 100 ft bg), deposits are highly weathered. Beds of the Modelo are seen in road cuts and in drill-hole samples to be dipping at up to 45° from horizontal. Generally, dip direction is toward the south or southwest.

In the northwestern portion of the Facility, to the west and northwest of Building 270 and at other locations on the site periphery, the shallow subsurface is comprised of unconsolidated alluvial valley fill of Quaternary age. This material is present to depths of at least 75 feet. The beds are flat-lying, and consist primarily of mixed silt and fine sand, with lesser amounts of clay. The Modelo Formation is believed to be unconformably present beneath the valley fill. A thin (up to 10-foot) layer of construction fill material is locally present at the surface overlying

3.2 Surface Water Hydrology

Primary surface drainage in the site vicinity is Chatsworth Creek, lying immediately west of the Site. Portions of Chatsworth Creek, north and south of Hidden Lake (formerly Lees Lake) are contained within large underground culverts. Other portions are contained in lined or unlined structured channels. The portion of Chatsworth Creek in

the site vicinity is contained in underground cement-lined tunnels. Water from Chatsworth Creek eventually flows into the Los Angeles River about 2.5 miles down gradient. Hidden Lake is the only active reservoir within a 1-mile radius of the site. Hidden Lake is used as a recreational area by residents of the surrounding housing development. It should be noted that storm drainage, including storm drain discharge, from the site flows to Chatsworth Creek, the majority of which enters south and downstream of Hidden Lake.

3.3 Groundwater Hydrology

Groundwater gradient direction within the vicinity of the site regionally flows from northwest to southeast, from the Simi Hills to the San Fernando Valley. The depth to groundwater is approximately 25 feet bg near Roscoe Boulevard. The hydraulic gradient of the regional groundwater is approximately 0.0047 feet per foot (ft/ft). The water bearing materials comprising the western portion of the valley are generally fine grained alluvial sediments, which contain naturally-occurring total dissolved solids (TDS) in excess of 1,000 milligrams per liter (mg/L), exceeding the recommended USEPA drinking water guidelines. Due to the relatively low yields and excessive TDS, there are no drinking water wells in the vicinity of the facility. Essentially all drinking water consumed in the western San Fernando Valley is derived from the State Water project and the Los Angeles Aqueduct, which delivers water to southern California from the Sierra Nevada Mountains. Although the Los Angeles Department of Water and Power (LADWP) supplements its water supply with groundwater from the San Fernando Basin, all of the groundwater production well fields are located in the eastern quarter of the basin. The nearest active production well for supply of potable water to the public is more than 15 miles down gradient from the Site. In the vicinity of the site, groundwater occurs between 10 and 65 ft bg, depending on the location on the property. Groundwater gradient direction is generally to the southeast (i.e., from the Simi Hills to the San Fernando Valley), but on the western side of the property, there is a westward component due to the local topography Quarterly groundwater gauging of onsite monitoring wells has been conducted since December 1991 (with previous monthly gauging from August 1990). The groundwater gradient in the northwest portion of the site, which contains the main volatile organic compound (VOC) plume, is consistently westward and ranges from 0.01 to 0.02 ft/ft. In the extreme northwest corner of the site, the gradient becomes less steep and a localized depression is often observed even under static non-pumping conditions. This is likely due to the lithologic change from the Modelo formation to the alluvial unit in this area. The apparent groundwater gradient over the remainder of the Site is towards the southwest, south and south-southeast, with gradients ranging from 0.01 to 0.04 ft/ft. Water depths, groundwater gradients, and apparent groundwater flow directions are generally consistent with minor localized changes due to pumping activities during GRTS operation. Average hydraulic conductivities were calculated to be approximately 9 gallons per day per square foot (gpd/ft^2) for the Modelo Formation ($4.24x10^{-4}$ centimeters per second or cm/sec) and approximately 270 gpd/ft^2 for the alluvial fill ($1.27x10^{-2}$ cm/sec) (GTI, 1993).

4.0 SOLID WASTE MANAGEMENT UNITS And AREAS Of CONCERN

This Assessment has included all Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) identified by DTSC in 2002 from in a previous draft Corrective Action Consent Agreement; Table 1. The northeast plume at well CM-8 was also considered as an AOC. These units are indicated on the site drawing, Figure 2.

4.1 SWMUs

4.1.1 SWMU-1 (aka Hazardous Waste Storage Area, HWSA)

This unit was used to store carboy and drum quantities of hazardous wastes containing solvents, acids, bases, plating solutions and paint.

This unit was addressed in the *Modified Closure Plan for the Hazardous Waste Storage Area and Tank T3* [1] which was accepted by DTSC and dated August 1995. A document titled *Closure Certification Report for the Hazardous Waste Storage Area*[2] and dated 11/08/2002 documents the action taken. The closure process discovered arsenic, cadmium and hexavalent chromium that exceeded Closure Performance Standards in the underlying soils. After excavation to 14.5 feet below the former HWSA pad there still were high levels of hexavalent chromium. The pit was lined with polyethylene and back filled. Latter the area was regraded with about 8-9 feet of additional soil and paved. Additional borings were made to help define the extent of the chromium plume[3,4]. High levels of hexavalent chromium were detected in a narrow plume below the former HWSA all the way to groundwater. Since August 1999 Raytheon has been monitoring the groundwater at nearby wells for hexavalent chromium.

The Closure Certification Report was not accepted by DTSC as of the present. The extent of high levels of hexavalent chromium in subsurface soil and water must be defined and considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

Table 1
SOLID WASTE MANAGEMENT UNITS AND AREAS OF CONCERN
RAYTHEON MISSLE SYSTEMS COMPANY
CANOGA PARK, CALIFORNIA

EPA and DTSC DESIGNATION	NAME	RELEASES
SWMU-1 (HWSA)	Hazardous waste storage area	Release to soil and groundwater. COCs include hexavalent chromium
SWMU-2 (T3)	Underground Storage Tank (UST) for Waste	Release to soil and groundwater. Constituents include dichloroethylene (DCE)
SWMU-3	Building 272	Volatile organic compounds (VOCs) identified in vapor survey.
SWMU-4	Building 282 Former Drum Storage Room	Soil tested positive for chlorinated VOC vapors
SWMU-5	Pits #1 and #2 near Building 269	Releases to soil of cadmium and Beryllium. Groundwater contaminated with tetrachloroethylene (PCE).
SWMU-6	Parking area between Buildings 274 & 276	Releases to soil and groundwater. Constituents include Freon-11
SWMU-7	Cooling Unit outside of Building 274	Releases to soil. Constituents include Freon-11
SWMU-8	Former USTs T-1/T2 pump island near Buildings 272 & 282	Releases to soil and groundwater. Constituents include petroleum hydrocarbons
SWMU-9	Site wide sewer line	Releases to soil near soil boring BSL-4. Constituents include arsenic.
AOC-1	Building 262 drains and feeder sewer lines	Suspected release. Building is up gradient of wells CM-8d, CM-9d and CM-18 which have 1,1 DCE for which no source has been determined.
AOC-2	Building 263 drains, sumps and feeder sewer lines	Suspected release. Building is near and up gradient of well CM-8d which have 1,1 DCE.
AOC-3	Building 265 drains and feeder sewer lines	Suspected release. Down gradient SWMU-4 has contaminated soil with Freon-11
AOC-4	Building 269 interior: plating pit, drains, sumps, degreaser exterior clarifier pit and feeder sewer lines	Releases to soil at exterior clarifier pit, SWMU-5

Table 1
SOLID WASTE MANAGEMENT UNITS AND AREAS OF CONCERN
RAYTHEON MISSLE SYSTEMS COMPANY
CANOGA PARK, CALIFORNIA

Continued …

EPA and DTSC DESIGNATION	NAME	RELEASES
AOC-5	Building 271 industrial waste clarifier, drains and feeder sewer lines	Suspected release. Building associated with UST T-4. CM-8d nearly down gradient and groundwater contaminated with Freon-11
AOC-6	Building 274 drains and feeder sewer lines	Unknown. Building was used to store/use solvents including 1,1, TCA, Freon-11 and hydraulic fluid. Up gradient of CM-10 which had Freon-11 in groundwater..
AOC-7	Building 276 drains and feeder sewer lines	Unknown. Soil gas data from parking area toward Building 274 shows vapor phaseFreon-11. Building is up gradient of CM-10 which had Freon-11 in groundwater.
AOC-8	Building 281 drains and feeder sewer lines	Unknown. Building is up gradient of CM-8d and cross gradient from CM-9d which had Freon-11 in groundwater. Also next to former diesel USTs
AOC-9	Former USTs T-5 & T-6	Suspected releases. T-5 used for storage of hazardous waste including waste oil and sulfuric acid.
AOC-10	Former USTs T-7, T-8 and T-9	Diesel fuel contaminated soil was excavated in this area
AOC-11	Above ground tank, T-14	Unknown. Tank was located inside Building 269 and stored solvent waste such as acetone, 1,1,1 TCA and isopropyl alcohol.
AOC-12	Site wide storm water system	Releases suspected
AOC-13	Northeast plume	1,1 DCE, Freon

4.1.2 SWMU-2 (aka T3)

This tank was used to store bulk quantities of hazardous wastes which consisted of machine cutting fluids, some solvents used for cleaning and maintenance of machinery, and machine lubricating oils. Hazardous constituents present in these wastes were 1,1,l-trichloroethane (TCA), acetone, and oils. Contaminants detected in the soil in vicinity of T3 include TPH, 1,1dichloroethylene (l,l-DCE), 1,1-dichloroethane (l,l-DCA), and TCA.

Tank T3 was permitted under RCRA when it was removed. The tank was removed in June 1988 and associated contaminated soils were removed in September 1991 under a Corrective Action Plan (CAP) approved on March 18, 1991 by the CalEPA Los Angeles Regional Water Quality Control Board (LARWQCB). The document, *Final Report, Remediation of Former T3 Tank Site*[5] (November 1991), discusses the extent of soils removed. The soil was excavated to 40 feet below ground surface in the vicinity of the former T3 by boring three foot holes on a triangular pitch. The excavation left a cookie cutter pattern of soil wedges behind unexcavated. The holes were backfilled with a cement and sand slurry. Later the area was regraded with about 7 feet of additional soil and paved. CAP goals were used to determine the extent of excavation. The LARWQCB approved cleanup action levels for remediation of impacted soils at the T3 site were:

LARWQCB Corrective Action Plan Cleanup Action Levels	
Total petroleum hydrocarbons (TPH)	100 ppm
Total volatile organic compounds (VOCs)	20 ppm
1, l-dichloroethylene (1, 1-DCE)	6 ppm

The groundwater in the area is contaminated with a range chlorinated VOCs and has been undergoing a series of interim remediation under LARWQCB guidance. From 1995 to 2005 ground water has been treated via a Pump and Treat system with the treated water used for on site irrigation needs. The soil has been treated via a Soil Vapor Extraction system (SVE) for the same period. Contaminant levels became asymptotic by 2000 and an Enhanced In-Situ Bioremediation approach (EISB) was instituted in 2005[6]. Final cleanup levels have not been determined under DTSC protocol.

The Closure Certification Report was not accepted by DTSC as of this document. The presence of VOCs in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.1.3 SWMU-3 (Building 272)

Building 272 is a small building associated with the former gas pump area. The building has been removed. The area is within the NW treatment area that includes the EISB areas A, B & C. The contamination there is well defined and is currently undergoing interim remediation under LARWQCB guidance. Final cleanup levels have not been determined under DTSC protocol. The presence of VOCs in subsurface soil and water

must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.[7]

4.1.4 SWMU-4 (Building 282)

Building 282 is a former drum storage room associated with the former gas pump area. The building has been removed. The area is within the NW treatment area that includes the EISB areas A, B & C. The contamination there is well defined and is currently undergoing interim remediation under LARWQCB guidance. Final cleanup levels have not been determined under DTSC protocol. The presence of VOCs in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.[8]

4.1.5 SWMU-5 (Pits #1 and #2 near Building 269)

These pits received photographic wastes and neutralized acids. Releases to soil of Cadmium and Beryllium have been noted. Groundwater is contaminated with tetrachloroethylene (PCE). These pits have been removed. The area is within the NW treatment area that includes the EISB areas A, B & C. The contamination there is well defined and is currently undergoing interim remediation under LARWQCB guidance. Final cleanup levels have not been determined under DTSC protocol. The presence of VOCs and metals in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.1.6 SWMU-6 (Parking area between Buildings 274 & 276)

The 1991 Preliminary Assessment authorized under US EPA cites the presence of Freon-11 and elevated radioactivity in this area.[8] It has been contended that elevated radioactivity is due to natural geologic variation.[9] This area is in the SE part of the site. The contamination is suspected to have resulted from maintenance work on cooling units next to the former Building 274. According to a 1998 Fluor Daniel GTI Site Assessment report[10] the cooling unit at Building 274 used Freon 22 and only Buildings 263 used Freon 11. In any event the plume was delineated as centered at the edge of a former parking area. At the time of the report it was concluded that the Freon levels were declining and below drinking water standards. Need to determine if any issues remain.

4.1.7 SWMU-7 (Cooling Unit outside of former Building 274)

The presence of Freon-11 was detected in the soil. This area is in the SE part of the site. The contamination is suspected to have resulted from maintenance work on the cooling units.[11] Need to determine if any issues remain.

4.1.8 SWMU-8 (Former USTs T1 & T2 for the gasoline pump island)

The release of petroleum hydrocarbons to soil and groundwater occurred. The area is within the NW treatment area that includes the EISB areas A, B & C. The extent of hydrocarbon contamination was assesses in 1991.[12] The plume is within the larger VOC plume in the northwest corner of the site and is currently undergoing interim remediation under LARWQCB guidance. Final cleanup levels have not been determined under DTSC protocol. The presence of VOCs in subsurface soil and water must be considered

in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.1.9 SWMU-9 (Site wide sewer line)

Site wide assessment in 1991 did not show up any metal contamination at detection limits.[13] One sample had a trace (0.009 mg/kg) of toluene. Sample B-SL had 0.3 mg/kg of toluene. No other VOCs were detected. Need to determine if any issues remain.

4.2 AOCs

4.2.1 AOC-1 (Building 262 drains and feeder sewer lines)

This building is up gradient of a release and could be a source of the contamination. It is near the area that includes the EISB areas D, a small plume of VOCs. The contamination there is well defined and is currently undergoing interim remediation under LARWQCB guidance. Final cleanup levels have not been determined under DTSC protocol. The presence of VOCs in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.2.2 AOC-2 (Building 263 drains sumps and feeder sewer lines)

This building is adjacent to an area of release and could be a source of the contamination. It is near the area that includes the EISB areas D, a small plume of VOCs. The contamination there is well defined and is currently undergoing interim remediation under LARWQCB guidance. Final cleanup levels have not been determined under DTSC protocol. The presence of VOCs in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels. In 1992 wells near Building 263 tested above EPA Maximum Concentration Limit (MCL) for uranium.[14]

4.2.3 AOC-3 (Building 265 drains and feeder sewer lines)

This building is next to an area with Freon contamination and could be a source of the contamination. Final cleanup levels have not been determined under DTSC protocol. The presence of Freon in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.2.4 AOC-4 (Building 269 drains and feeder sewer lines)

This building was in an area where soil is contaminated with VOCs and the sewer line may have been a source. The building was removed by 1988. It was in the area that includes the EISB areas A, B & C. The contamination there is well defined and is currently undergoing interim remediation under LARWQCB guidance. Final cleanup levels have not been determined under DTSC protocol. The presence of VOCs in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.[8,15]

4.2.5 AOC-5 (Building 271 drains and feeder sewer lines)

This small building was associated with a large concrete water basin, T4. This building is adjacent to an area of release and could be a source of the contamination. It is near the area that includes the EISB areas D, a small plume of VOCs. The contamination there is well defined and is currently undergoing interim remediation under LARWQCB

guidance. Final cleanup levels have not been determined under DTSC protocol. The presence of VOCs in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.2.6 AOC-6 (Building 274 drains and feeder sewer lines)

This small building was use for solvent parts cleaning and stored 1,1,1 TCA, Freon, and Hydraulic fluid. The building has been removed. Nearby is an area with Freon contamination and it could be a source of the contamination. Final cleanup levels have not been determined under DTSC protocol. The presence of contamination in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.2.7 AOC-7 (Building 276 drains and feeder sewer lines)

This building had 2 active chemical use areas, solvent cleaning and photographic processing operations. Freon has been detected at a down gradient well, CM-10. Final cleanup levels have not been determined under DTSC protocol. The presence of contamination in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.2.8 AOC-8 (Building 281 drains and feeder sewer lines)

This building is adjacent to an area of release and could be a source of the contamination. Generally it handled small quantities of in a maintenance shop setting. Chemicals included dichloromethane, insecticides, mineral oil and ethylene glycol. It is near the area that includes the EISB areas D, a small plume of VOCs. The contamination there is well defined and is currently undergoing interim remediation under LARWQCB guidance. Also it is next to the former diesel USTs. Final cleanup levels have not been determined under DTSC protocol. The presence of VOCs and hydrocarbons in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.2.9 AOC-9 (T5 and T6)

These USTs were used to store waste oil and sulfuric acid. These were glass lined 500 gallon vessels that were contained in a concrete vault located west of building 263. The tanks were removed in 1984 along with the vaults and soil was excavated.[16] Residual contamination consisting of toluene and xylenes need to be considered in the HRA. The presence of VOCs and hydrocarbons in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.2.10 AOC-10 (T7, T8 & T9)

These USTs were used to store diesel fuel. The tanks were removed in1991.[17]. Subsequently the soil was excavated to remove contaminated soil.[18]. A clean-up level of 100 ppm of TPHD was used. Currently most of this area has been covered with a bi-level parking lot. Residual diesel should be considered in a health and environmental risk assessment.

4.2.11 AOC-11 (T14)

This AOC is an above ground tank that was located in building B269. Building 269 was removed by 1998. The area is within the contaminant plume in EISB treatment areas A & B. The plume there has been characterized and has undergone SVE, pump and treat and currently EISB. The presence of VOCs in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.2.12 AOC-12 Site Wide Storm Sewer System.

The Storm sewer system has not been investigated. Key points where runoff could carry contaminants and where leaks are more likely to occur may need to be tested for contamination.

4.2.13 AOC-13 Northeast Plume between B263, B264 & B281

This plume has had definition and is currently undergoing interim measures by EISB in area D.

4.3 SUMMARY OF CONSOLIDATED SWMUS AND AOCS.

The various SWMUs and AOCs can be regrouped in to several zones for Risk assessment and treatment purposes (figure 3). The following zones are defined.

4.3.1 Zone 1 The contiguous Northwest Plume consisting of:

- SWMU-1 former HSWA
- SWMU-2 former T3
- SWMU-3 former B272 gas station bldg
- SWMU-4 former B282 drum stg bldg
- SWMU-5 former P1 & P2 at B269
- SWMU-8 former T1 &T2 gasoline tanks
- AOC-4 former B-269
- AOC-11 former AST in B269

This zone has a known contamination of VOCs, CVOCs, chromium^{+6} and potential cadmium and beryllium at SWMU-5.

4.3.2 Zone 2 Sewer system network consisting of

- SWMU-9 Sewer System
- AOC-1 B262 sewer drains and feeders
- AOC-2 B263 sewer drains and feeders
- AOC-3 B265 sewer drains and feeders
- AOC-5 B271 sewer drains and feeders
- AOC-6 B274 sewer drains and feeders
- AOC-7 B276 sewer drains and feeders
- AOC-8 B281 sewer drains and feeders

4.3.3 Zone 3 South plume area (Freon 11 contamination)

- SWMU-6 B274,276 parking lot
- SWMU-7 former B-274; Chiller building

4.3.4 Other areas that remain individual AOCs. These are:

- AOC-9 former T5,T6; oil, sulfuric acid tanks
- AOC-10 former T-7,8,9; diesel tanks
- AOC-12 Storm sewer system
- AOC-13 Northeast plume

5.0 EXPOSURE PATHWAYS

5.1 Surface Water

Nearest stream is in adjacent neighborhood to the west where a small stream, Chatsworth Creek, enters and exits a small lake, Hidden Lake (aka Lees Lake), via culverts and continues south via lined and unlined structured channels. The property is graded to drain to the SE through storm drains which empty into this stream.

5.2 Groundwater

Groundwater flows to the West at the NW corner of the property but generally to the SSE on the rest of the property into the San Fernando Valley. With measured TDS of over 1000 ppm the water is not likely to be used for drinking water. There may be interaction between the groundwater and Hidden Lake to the west.

5.3 Air

The area is paved, built upon or vegetated with irrigated beds. There is potential for soil gas intrusion into buildings. Buildings are being used commercially as office space.

5.4 Surface Soil

There is essentially no exposed soil due to paving and buildings. Soil exposure could occur when it is disturbed during construction activities.

6.0 VISUAL SITE INSPECTIONS

The site was visited on Wednesday June 13, 2007. The site is a well landscaped business office site. The vast majority of the area is covered with office buildings, roadways, parking lots and walkways. The remaining area consists of a central park area and narrow vegetated corridors that border and subdivide the property. The primary treatment area is in the north western corner of the site. A new parking structure was nearly completed in the north east corner of the site.

Visual Evidence of SWMUs, AOCs and treatment systems are minimal. The GRTS and SVE equipment are idle behind a small fenced area. Well heads are flush to ground level and covered. Observations are photo documented (See figures 4 to 11).

7.0 RECOMMENDATIONS FOR FURTHER ACTION

- Continue Groundwater Remediation

- Determine data gaps to developing a site wide heath risk assessment using the current DTSC-modified model. A site conceptual model needs to be developed to address all exposure routes.

- Collect samples needed to fill in the data gaps.

- Complete a soil vapor survey using old and new data as appropriate to model vapor intrusion. This work is to be in accordance with the Department's publications: GUIDANCE FOR THE EVALUATION AND MITIGATION OF SUBSURFACE VAPOR INTRUSION TO INDOOR AIR and ADVISORY – ACTIVE SOIL GAS INVESTIGATIONS. As these documents are under going revision it is important that this investigation be done with close coordination with the project manager.

- Prepare site wide HRA for all modes of exposure to define remediation goals acceptable to DTSC.

- Modify remediation effort as required to meet the DTSC remediation goals or existing CAP goals whichever is the more stringent.

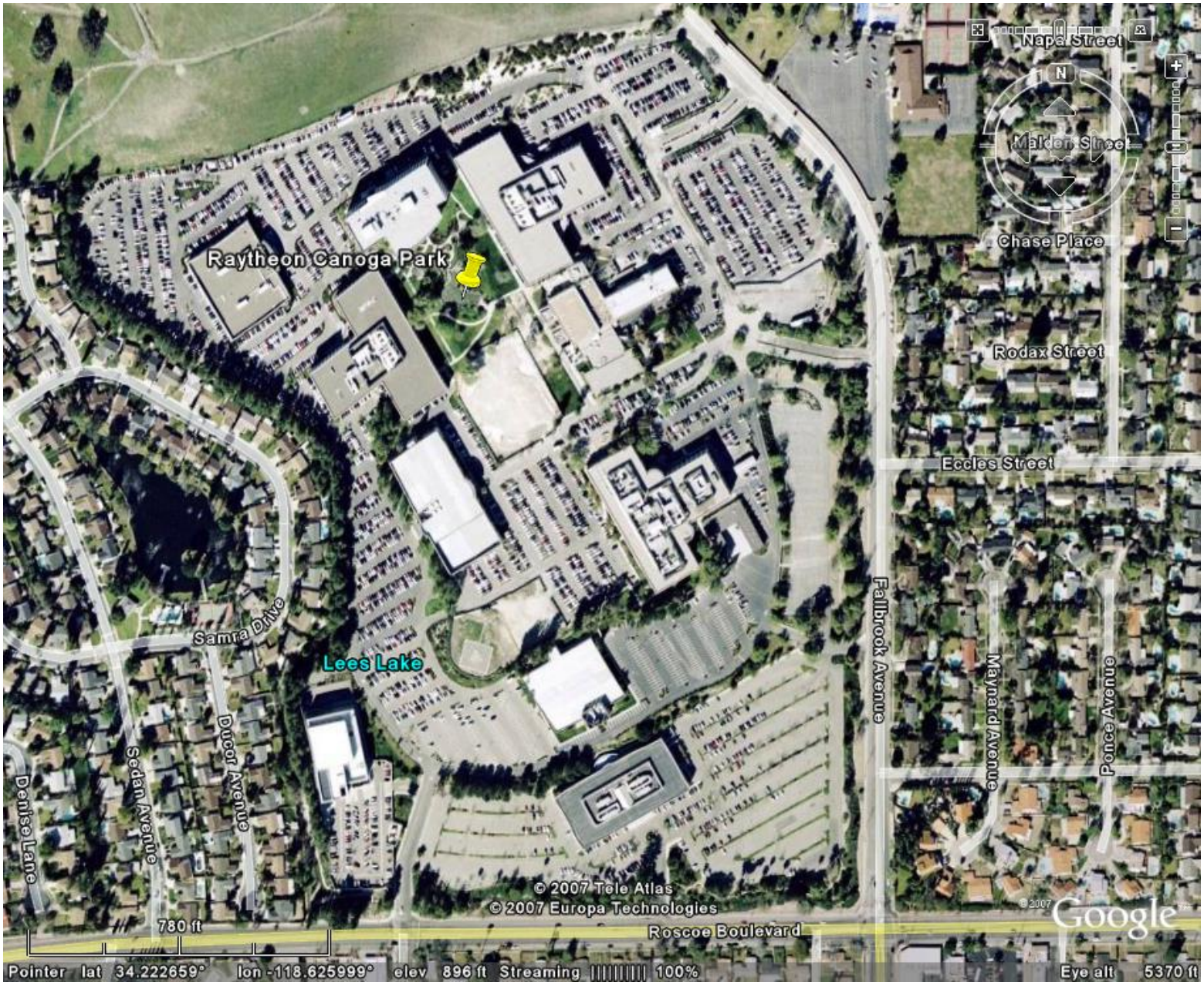
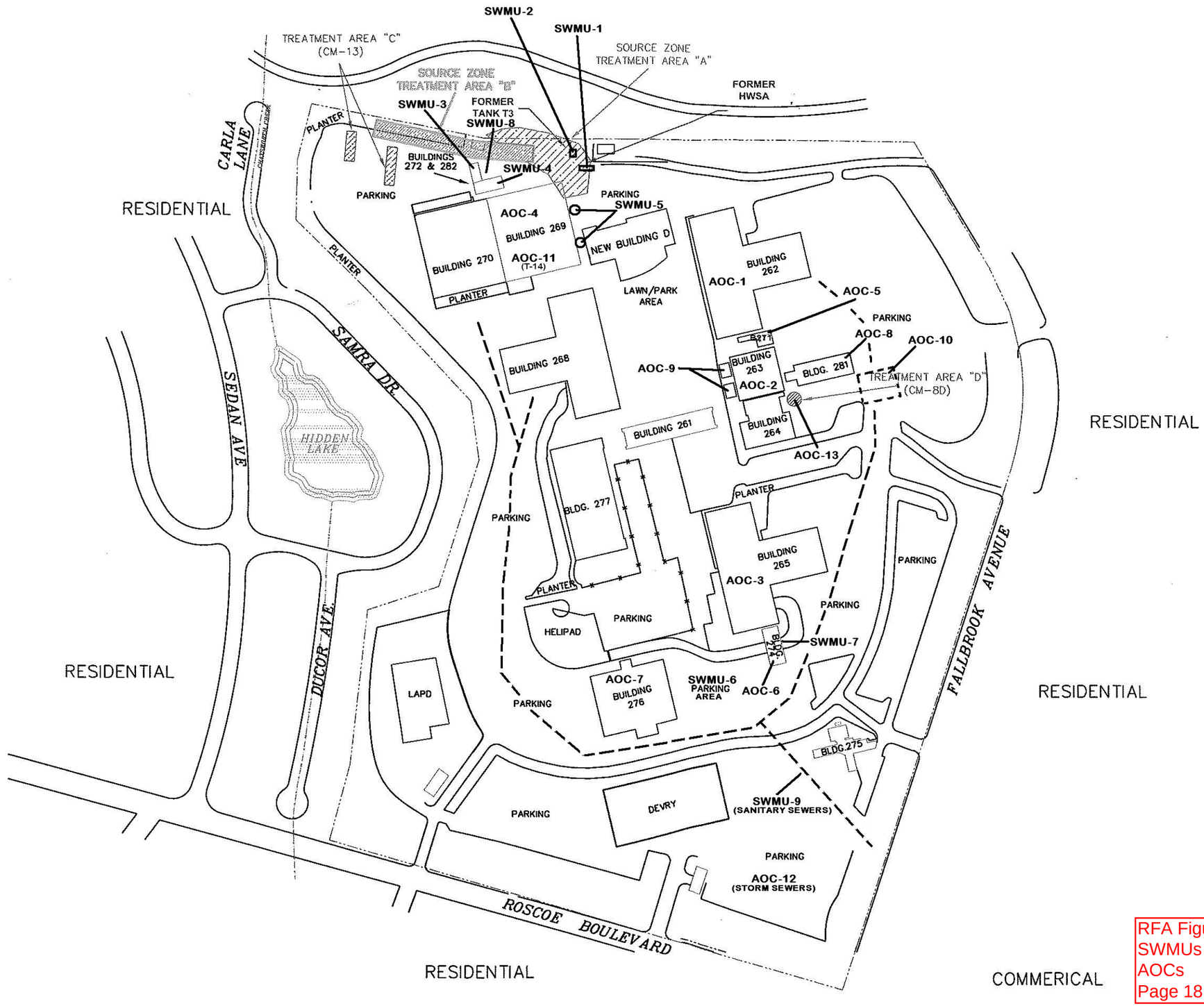
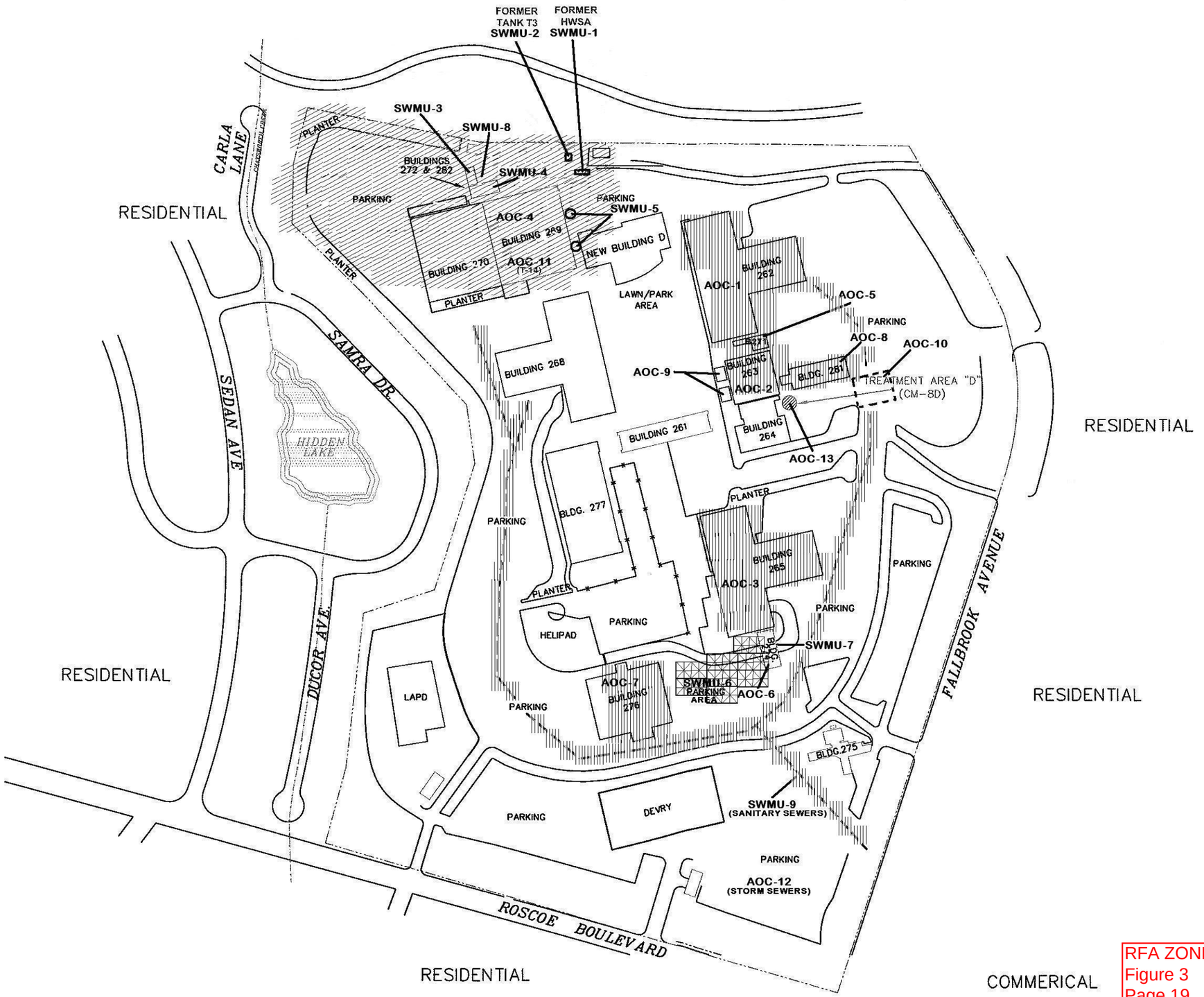


Figure 1. Former Raytheon Canoga Park Site, Google Earth image downloaded 12/18/2007



RFA Figure 2
SWMUs &
AOCs
Page 18



LEGEND

- PROPERTY LINE
- FORMER CREEK TREND
- FORMER BUILDING
- CURRENT BUILDING
- Zone 1 (NW PLUME)
- Zone 2 (SEWERS)
- Zone 3 (S PLUME)

SCALE IN FEET
0 140 280 420

DATE:	FILE NAME:	REVISED:
07/12/2004	RC-DATA-04.DWG	04/12/2007

SITE PLAN SHOWING CONCEPTUAL DESIGN FOR EISB IMPLEMENTATION

FORMER RAYTHEON FACILITY
8433 FALLBROOK AVENUE
CANOGA PARK, CALIFORNIA

T N & Associates, Inc.
Engineering and Science

FIGURE 2

RFA ZONES
Figure 3
Page 19



Figure 4. SVE & GRTS Idle Equipment (June 13,2007)



Figure 5. SVE & GRTS Idle Equipment (June 13,2007)



Figure 6. SVE & GRTS Idle Eq (June 13,2007)



Figure 7. NW fence line (June 13,2007)



Figure 8. B269 (where it was) (June 13,2007)



Figure 9. B270 looking W (June 13,2007)



Figure 10. New parking structure (June 13,2007)



Figure 11 New parking structure lower level (June 13,2007)

[1] *Modified Closure Plan for the Hazardous Waste Storage Area and Tank T3* , August 1995

[2] *Closure Certification Report for the Hazardous Waste Storage Area*, 11/08/2002

[3] *Results of Additional Subsurface Characterization, Former Hazardous Waste Storage Area*; Former Company Facility, 8433 Fallbrook Avenue, Canoga Park, California. September 22, 2000

[4] *Additional Subsurface Characterization, Former Hazardous Waste Storage Area*, Former Raytheon Systems Company Facility, 8433 Fallbrook Avenue, Canoga Park, California; EPA ID No. CAD 041162124, October 10, 2000

[5] *Final ReportRemediation of Former T-3 Tank Site*, November 1991

[6] *COVERAGE UNDER GENERAL WASTE DISCHARGE PERMIT ORDER NO. R4-2005-0030 AND MONITORING AND REPORTING PROGRAM NO. CI-8947* - (SLIC NO. 0693, SITE ID NO. 2043TOO), September 20, 2005

[7] SUMMARY REPORT OF SUPPLEMENTAL SAMPLING AND ANALYSIS PERFORMED AT THE LOCATIONS OF FORMER BUILDINGS 269, 272 AND 282, September 23, 1998

[8] *ENVIRONMENTAL PRIORITIES INITIATIVE PRELIMINARY ASSESSMENT*, Ecology and Environment, Inc., July 29, 1991

[9] *RADIOISOTOPE REVIEW AND COMPARISON FOR THE HUGHES MISSILE SYSTEMS GROUP FACILITY*, CANOGA PARK, CALIFORNIA, McLaren/Hart Environmental Engineering Corporation, July 30, 1991

[10] *Additional Site Assessment Report, Vicinity of CM-10 and Buildings 265,274, and 276, Former Raytheon Missile Systems Company Facility*, 8433 Fallbrook, Canoga Park, California, FLUOR DANIEL GTI**,** September 2, 1998

[11] *Additional Site Assessment Report, Vicinity of CM-10 and Buildings 265,274, and 276, Former Raytheon Missile Systems Company Facility*, 8433 Fallbrook, Canoga Park, California, FLUOR DANIEL GTI**,** September 2, 1998

[12] *GASOLINE CONTAMINATION SITE ASSESSMENT for HUGHES MISSILE SYSTEMS GROUP*, 8433 Fallbrook Avenue, Canoga Park, California, AMERICAN ENVIRONMENTAL MANAGEMENT CORPORATION, October 28,1991

[13] *REPORT ON FACILITY-WIDE SITE ASSESSMENT, HUGHES MISSILE SYSTEMS COMPANY*, CANOGA PARK, CALIFORNIA, Groundwater Technology, Inc., January 4, 1994

[14] *RESULTS OF RADIOLOGICAL SAMPLING OF MONITORING WELLS*, July 1, 1992, Hughes Missile Systems Group, Canoga Park Facility, Groundwater Resources Consultants, Inc.

[15] *ADDITIONAL SITE ASSESSMENT REPORT, SAMPLING AND ANALYSIS FOR FORMER BUILDING 269 LOCATION*, FORMER RAYTHEON SYSTEMS COMPANY, CANOGA PARK, CALIFORNIA , IT Project No. 779027, April 1999

[16] *Closure Report, Removal of Underground Tanks*, Hughes Aircraft Company, Canoga Park, California, Project No. 846562, January 29, 1985

Final Closure Report, Removal of Underground Tank, Hughes Aircraft Company, Canoga Park, California, Project No. 846562, March 12, 1985

[17] *DIESEL UNDERGROUND STORAGE TANK CLOSURE REPORT*, HUGHES MISSILE SYSTEMS GROUP, Canoga Park, October 28, 1991

[18] *DIESEL TANK SUBSURFACE INVESTIGATION and SITE REMEDIATION*, HUGHES MISSILE SYSTEMS GROUP, Canoga Park, California, August 14, 1992
-

Linda S. Adams
Secretary for
Environmental Protection

Department of Toxic Substances Control

Maureen F. Gorsen, Director
8800 Cal Center Drive
Sacramento, California 95826-3200

Arnold Schwarzenegger
Governor

May 8, 2008

Mr. Neal Holdridge
Trammell Crow Co.
4 Park Plaza, Suite 700
Irvine, California 92614

MEPT SOIL MANAGEMENT PLAN FOR A1 LANDSCAPING DECISION BY DEPARTMENT OF TOXIC SUBSTANCES CONTROL (DTSC); RAYTHEON SITE; CANOGA PARK (FORMERLY HUGHES); CAD 041162124

Dear Mr. Holdridge:

DTSC has reviewed the amended MEPT West Hills document titled SOIL MANAGEMENT PLAN, May 6, 2008. DTSC has also reviewed the amended CONTRACTOR HEALTH AND SAFETY PLAN (HASP), May 6, 2008. DTSC finds that the plans were deficient in two areas that I discussed with you over the phone:

- The DTSC request for an action level summary chart for the various field measurements (dust, PID and alpha, beta radiation). It is understood that the soil screening samples are broad and detection hits will be compared to industrial PRGs as the action levels.

- DTSC requested assurance that the existing monitoring wells will be not modified and will be protected and available to ongoing use by Raytheon.

DTSC has received via email the above two items, has reviewed them, and found them acceptable. These items are attached to this letter and are considered an integral part of the Soil Management Plan. DTSC approves the landscaping plan as prudently protective of the health of the public and workers and as protective of the existing environmental facilities at the site. The approved plan consists of the following documents:

1. SOIL MANAGEMENT PLAN, May 6, 2008
2. CONTRACTOR HEALTH AND SAFETY PLAN (HASP), May 6, 2008
3. TABLE 1. POTENTIAL CHEMICALS OF CONCERN (COCS) FOR CAFÉ AREA
4. WEST HILLS CAMPUS @ 8413 FALLBROOK AVENUE; PENDING LANDSCAPE WORK AT THE CAFE AREA AND GRADE ADJUSTMENTS OF EXISTING MONITORING WELLS, May 5, 2008

Printed on Recycled Paper

The plan is not intended to address the site wide cleanup issues which Raytheon is the lead responsible party. Approval of the plan by DTSC means that implementation of the plan should reasonably protect human health to public and employees from chemical exposure and does not address common physical hazards of construction. The contractor must follow local, state and federal regulations as applicable to the work place. Approval of the plan does not relieve the contractor from responsibility from unforeseen chemical hazards arising from the landscaping project.

Please forward a firm construction schedule as soon as possible so that DTSC can schedule a site visit. DTSC is particularly interested in the time when the soil over the plume area is exposed.

If you have any questions, please contact Mr. Martin Herrmann at (916) 255-3592 or by email at mherrman@dtsc.ca.gov.

Sincerely,

Original signed by

Mr. Martin Herrmann, Project Manager
Legacy Landfill and RCRA Corrective Action Unit
Department of Toxic Substance Control

Attachments

cc: Mr. Rizgar Ghazi, Supervisor
Legacy Landfill and RCRA Corrective Action Unit
Department of Toxic Substance Control
8800 Cal Center Drive, 2nd Floor
Sacramento, California 95826-3200

Ms. Ann Chang, Water Resource Control Engineer
Los Angeles Regional Water Control Board
320 W 4th St, Suite 200
Los Angeles, California 90013

Mr. Daniel Samorano, Environmental Engineer
Raytheon Missile Systems Company
Post Office Box 11337, Building 826
Tucson, Arizona 85734

COMMERCIAL REAL ESTATE DEVELOPMENT AND INVESTMENT

Trammell Crow Company

Memo

To: Martin Herrmann, DTSC & Ann Chang, RWQCB

From: Neal Holdridge

Date: May 5, 2008

Subject: West Hills campus @ 8413 Fallbrook Avenue; pending Landscape work at the Café area and grade adjustments of existing monitoring wells

---

MESSAGE:

Mr. Herrmann & Ms. Chang:

Trammell Crow Company, as developer for MEPT West Hills, LLC, has been in discussions with DTSC regarding landscaping and re-paving work that is pending in the Café area of the subject property. A diagram of the area of the property to be affected by this work was recently submitted in Environ's Soil Management Plan. DTSC has verbally indicated that any modifications to the existing Raytheon groundwater monitoring wells in the Café area will require advance notice and approval from DTSC and RWQCB.

The purpose of this memo is to inform you that no modifications to the well casings will be made by TCC or its contractors during the course of the Café area work at this time. After discussing the situation with representatives of Raytheon and their environmental consultant, TN & Associates (TN), it was agreed that TN would adjust well casings after the landscaping work is completed. In all instances the well casings will either be able to be maintained at their current respective elevations, or will require an extension be added to the casing of up to approximately 3-feet (maximum).

To allow for TN to extend the casings and re-survey their respective reference elevations (as appropriate), TCC's contractor (DPR Construction) will remove the existing 12-inch diameter well manholes from over the affected wells (see attached diagram) along with the paving that is to be replaced. DPR will then protect the well casings by physically boxing them out with form lumber and demarcating around each one to prevent the limited surficial grading activities that are to be conducted from damaging the casings. DPR will then place a 12-inch diameter sonotube (or like) rigid casing around each well casing. The sonotube will extend to sub-grade beneath the new pavement level and the previous removed well manholes will be reinstalled over the sonotube in the new pavement at the new grade levels. TN will then be able to access and extend (as applicable) the well casings within the sonotube following the completion of the Café area pavement placement.

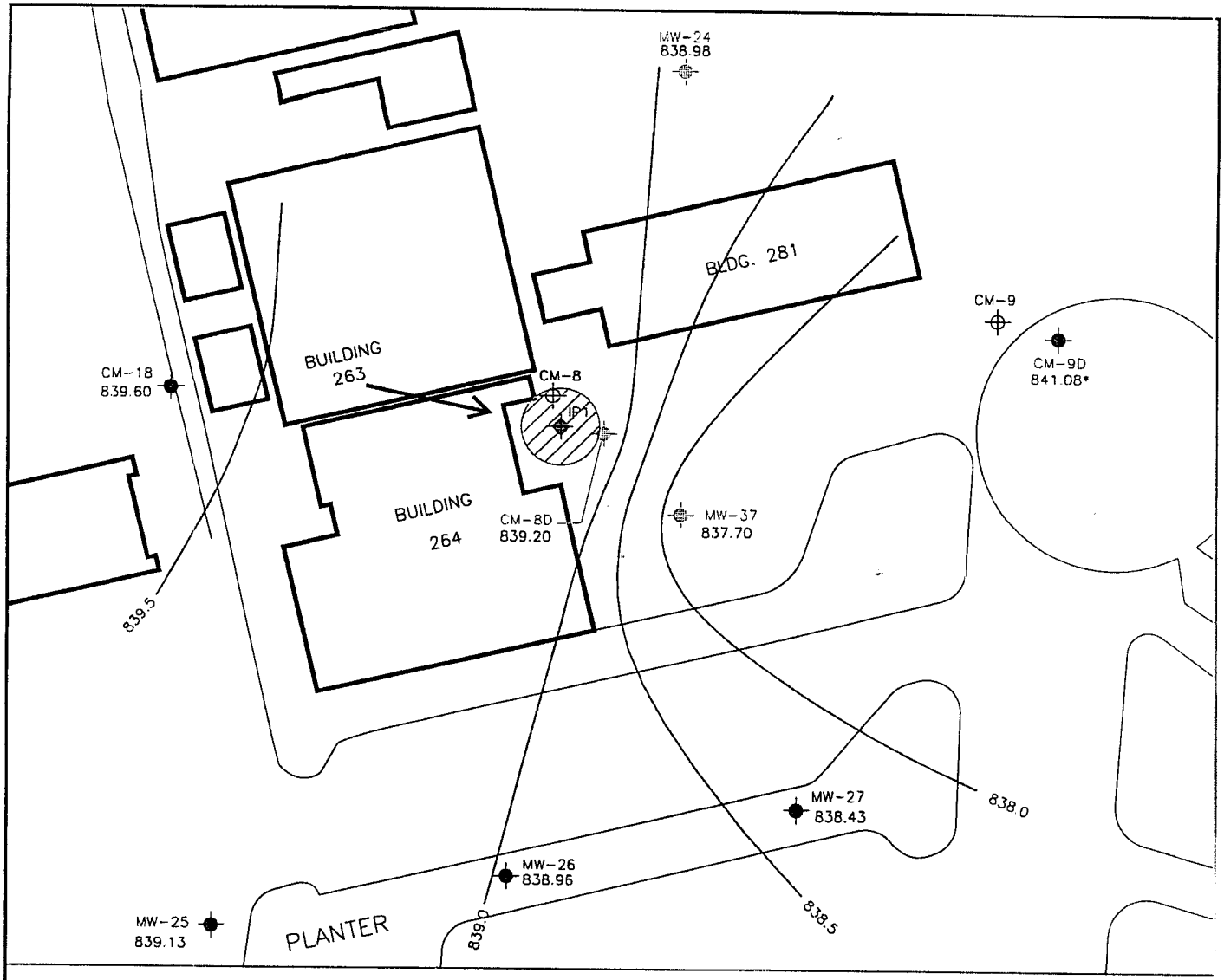
Please provide your approval of the above measures so that the requisite materials can be purchased in preparation for this work.

Thank you.
TRAMMELL CROW COMPANY

Original signed by

Neal H. Holdridge
Sr. Vice President – Environmental Manager

4 Park Plaza, Suite 700, Irvine, CA 92614 p: (949) 477-4700 f: (949) 477-9107



LEGEND

- CM- — EISB PROGRESS MONITORING WELL LOCATION
- IP1 — INJECTION POINT LOCATION
- CM- / MW- — GROUNDWATER WELLS INCLUDED IN EXISTING M&R PROGRAM
- CM- — ABANDONED GROUNDWATER MONITORING WELL
- APPARENT GROUNDWATER GRADIENT DIRECTION
- 840 — CONTOUR LINE OF ESTIMATED EQUAL ELEVATION, DASHED WHERE INFERRED
- TREATMENT AREA D (CM-8D)
- * GROUNDWATER ELEVATION NOT USED IN CONTOURING

0 80 160

APPROXIMATE SCALE IN FEET

NOTE:

1. DEPTH TO WATER WAS GAUGED ON 11/03/2007
2. AVERAGE GROUNDWATER GRADIENT WAS CALCULATED AT 0.007 FEET/FOOT TOWARDS THE EAST
3. CONTOUR INTERVAL = 0.5 FOOT
4. CONTOURS REPRESENT APPROXIMATE ELEVATIONS ABOVE SEA LEVEL.

PREPARED: 12/3/2007

GROUNDWATER GRADIENT TREATMENT AREA D NOVEMBER 3, 2007

FORMER RAYTHEON FACILITY
8433 FALLBROOK AVENUE, CANOGA PARK, CA

T N & Associates, Inc.
Engineering and Science

FIGURE 4

WEST HIL

ADJUSTING
TO FINAL

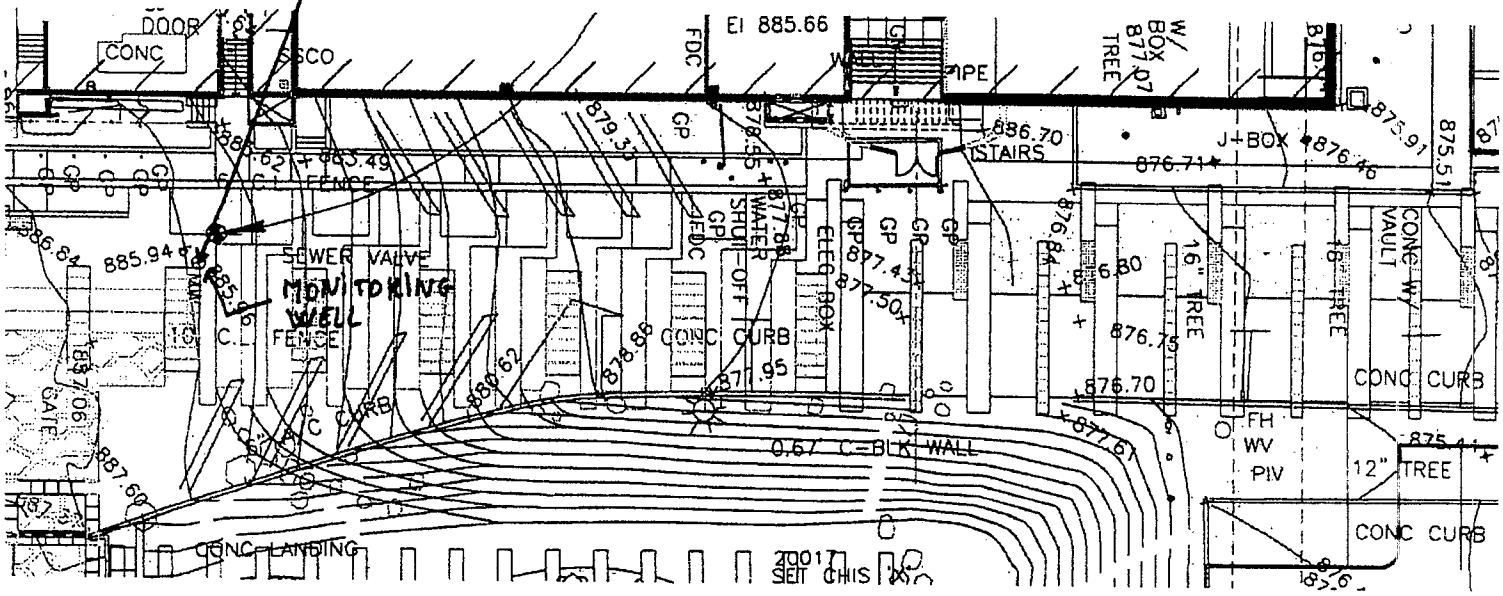
+3.41 RAISE

(885.96) EXISTING

889.37 PROPOSED

(873.

873.12



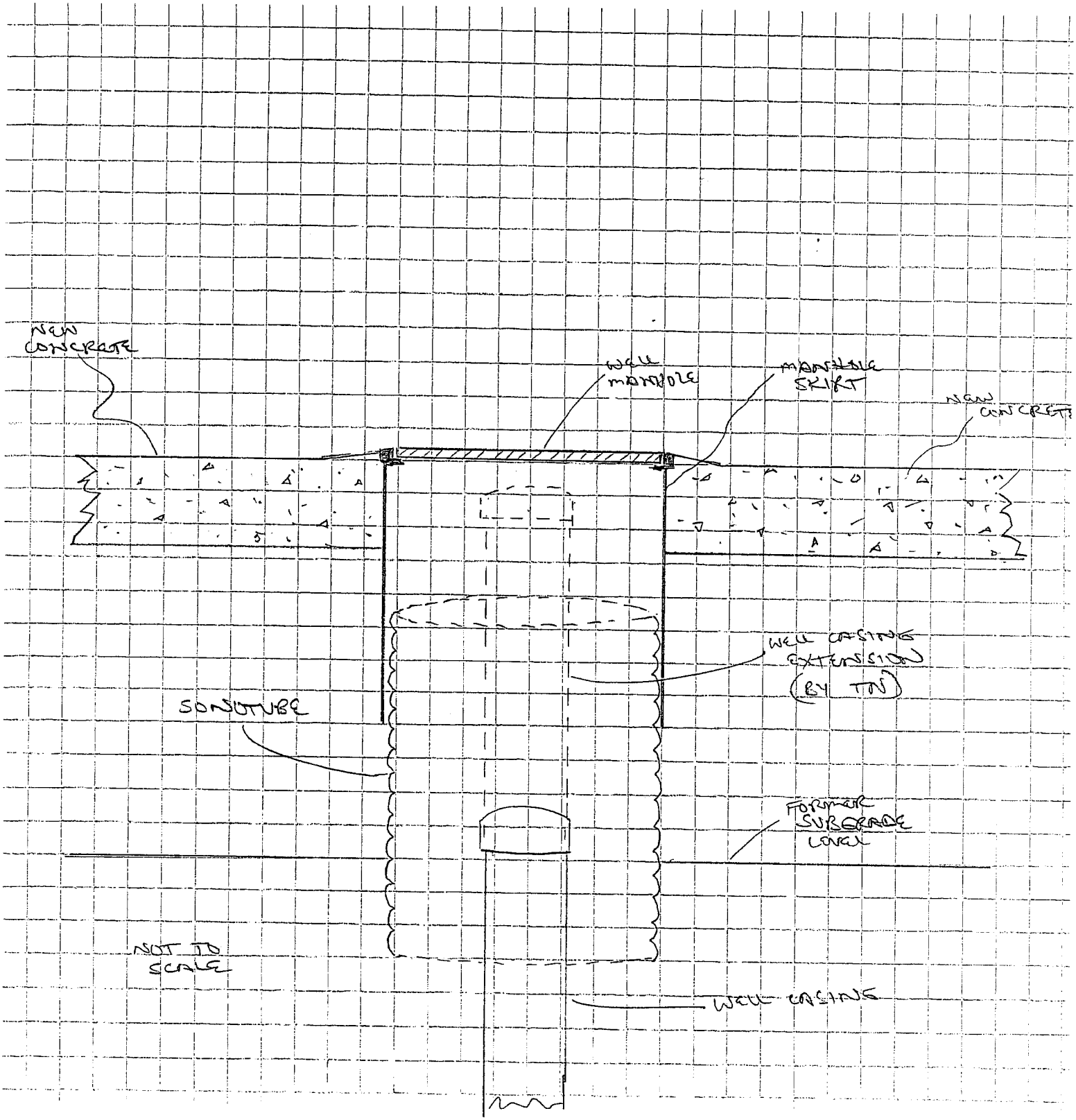

NEW CONCRETE
WELL MANHOLE
MANHOLE SKIRT
NEW CONCRETE
WELL CASING EXTENSION
(BY TN)
SONOTUBE
FORMER SUBGRADE LEVEL
NOT TO SCALE
WELL CASING

Table 1. Potential Chemicals of Concern (COCs) for Café Area				
COC	**Action Level (AL)**	**AL Source**	**Measurement Method**	**Reporting Limit**
Soils				
TCE	6.5 mg/kg	USEPA Region IX PRGs	USEPA Method 8260B	2 µg/kg
PCE	1.3 mg/kg	USEPA Region IX PRGs	USEPA Method 8260B	2 µg/kg
1,1-DCE	410 mg/kg	USEPA Region IX PRGs	USEPA Method 8260B	5 µg/kg
1,1,1-TCA	1200 mg/kg	USEPA Region IX PRGs	USEPA Method 8260B	2 µg/kg
TPH (diesel)	10,000 mg/kg	DTSC conference call	USEPA Method 8015M	500 µg/kg
Air in Work Area				
Respirable Dust	5 mg/m^3	Cal OSHA PEL (8-hour TWA)	MIE Personal DataRam	0.001 mg/m^3
Radiological Activity	2 mR/hr above background	Code of Federal Regulations 10CFR20	Geiger Counter	1 µR/hr
VOCs	10 ppm, sustained for more than 1 minute in the breathing zone, except for1,1-DCE, which is 0.5 ppm	Cal OSHA PEL (8-hour TWA)	OVM, except for 1,1-DCE which is measured using a Draeger tube	• 0.1 ppm for the OVM 0.1 ppm for the Draeger tube

Notes:
TCE – trichloroethene; PCE – perchloroethene; 1,1-DCE – 1,1-dichloroethene; 1,1,1-TCA – 1,1,1-trichloroethane;
TPH – total petroleum hydrocarbons; mg/kg – milligrams per kilogram; USEPA – United States Environmental Protection Agency;
PRGs – Preliminary Remedial Goals (see Appendix B); µg/kg – micrograms per kilogram; mg/m^3 – milligrams per cubic meter;
mR/hr – millirems per hour; µR/hr - microrems per hour; Cal OSHA – California Occupational Safety and Health Administration;
PEL – Permissible Exposure Limit; TWA – time weighted average; ppm – parts per million; OVM – organic vapor meter

Linda S Adams
Secretary for
Environmental Protection

Department of Toxic Substances Control

Maureen F Gorsen, Director
9211 Oakdale Avenue
Chatsworth, California CA 91311

Arnold Schwarzenegge
Governor

August 5, 2008

Mr. Hadar Plafkin
City Planner
City of Los Angeles, Department of City Planning
200 North Spring Street
Room 525, City Hall
Los Angeles, California 90012-4801

DEPARTMENT OF TOXIC SUBSTANCES CONTROL (DTSC) ENVIRONMENTAL OVERSIGHT OF RAYTHEON CANOGA PARK SITE; CORPORATE POINTE AT WEST HILLS; WEST HILLS, CALIFORNIA (THE "PROPERTY"), CAD0411692124

Dear Mr. Plafkin:

DTSC received a letter from your office dated July 16, 2008 concerning the Property. DTSC understands that the City of Los Angeles, Department of City Planning (LADCP) is in the process of completing its environmental review associated with the application for General Plan Amendment, Zone Change, Conditional Use for Commercial Development and Site Plan review for the Property.

DTSC's understanding of the plans for development on the Property includes two new office buildings, a parking garage, retail space, and other modifications. The areas of the proposed developments are located primarily on the southern half of the Property near or within a Solid Waste Management Unit (SWMU) or an Area of Concern (AOC) (see attached map). DTSC's understanding is that there is no development proposed in the vicinity of the northwest groundwater plume located on the northwest portion of the Property.

The Property was formerly a portion of a Hughes Aircraft research facility. Hughes successor, Raytheon Corporation, has an agreement with the current owners for the continued responsibilities to address the environmental issues for the property. DTSC is the lead agency for environmental issues at the Property. The California Regional Water Quality Control Board (Regional Board) has been overseeing the Interim Remediation of groundwater at the Property. On July 15, 2008 the Regional Board issued an Order to Raytheon Corporation requiring a work plan for additional groundwater investigation at the Property.

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In response to LACDP request for clarification and confirmation of the conditions on which the development can occur without impeding the investigation and cleanup of the Property, DTSC offers the following guidance:

1. There will be no restrictions on development in those areas on the Property not identified as an AOC or a SWMU in the document entitled, "RCRA Facility Assessment., Hughes Missile Systems Company, Canoga Park Facility (Raytheon), EPA ID – CAD041162124", dated January 30, 2008.

2. A soil sampling work plan will be submitted to DTSC for approval, before the issuance of a building permit for any construction in an identified AOC or SWMU within the Property.

3. Development and use of the Property may continue without further DTSC requirements, if DTSC determines that contaminants are at or below acceptable levels for the intended use of the particular areas of the Property

4. If DTSC determines that contaminants are above acceptable levels for the intended use on a particular area of the Property, DTSC would require submission and approval of a remediation plan to address the contamination prior to issuance of a building permit.

If you have any questions, please contact me at (818) 717-6597.

Sincerely,

Rodney Collins
Project Manager
Brownfields and Environmental Restoration Program

Attachment

cc: Mr. Allan Plaza, Unit Chief
Brownfields and Environmental Restoration Program
Department of Toxic Substances Control
9211 Oakdale Avenue
Chatsworth, California CA 91311

Mr. Phil Chandler, Unit Chief
Brownfields and Environmental Restoration Program
Department of Toxic Substances Control
9211 Oakdale Avenue
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Ms. Ann Chang, Ph.D. (via email)
Water Resources Control Engineer
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nchang@waterboards.ca.gov

Mr. Neal Holdridge (via email)
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Trammel Crow Company
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Mr. Kenneth J. Katich (via email)
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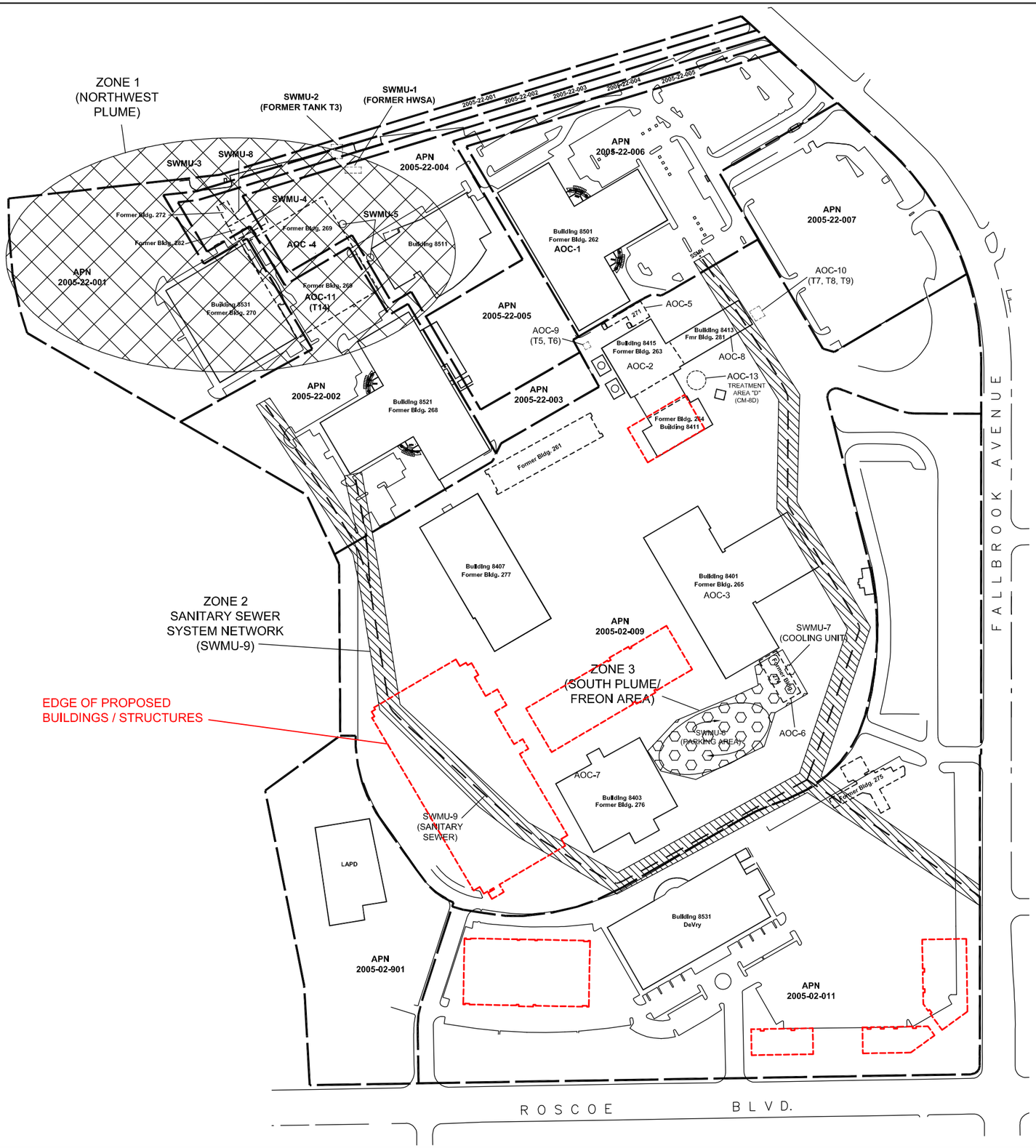
Trammel Crow Company
kkatich@trammellcrow.com



Legend

- Current Building Outline and Building Number
- Former Building Outline and Building Number
- 2005-02-009 — Assessors Parcel Number (APN)
- Sewer Line
- Assessors Parcel Property Boundary
- DTSC "Zone 1"
- DTSC "Zone 2"
- DTSC "Zone 3"
- **AOC-10 (T7, T8, T9)** — SWMU/AOC Designator per DTSC 2008 RCRA Facility Assessment

Approximate Scale in Feet

0 250 500

Figure 1
Canoga DTSC Figure

Former Canoga Park Facility
Canoga Park, California

TN & A — T N & Associates, Inc.
Engineering and Science

Date: May 12, 2008

File: Canoga_DTSC.dwg

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

FACILITY ASSESSMENT STREAMLINING TEAM (FAST)

RECORDS REVIEW CHECKLIST

1. General Site Information:

FAST #:	Site Name:	EPA ID:
147	**RAYTHEON SYSTEMS CO**	**CAD980737076**
Site Address: 8433 FALLBROOK AVE		
City: CANOGA PARK	State **CA**	Zip 91304
Other Site Names: **HUGHES AIRCRAFT** **Hu**GHES MISSILE SYSTEMS COMPANY		Total Acres: **86**

2. Review Information and Conclusions:

File Reviewer Name: Peter Ruttan	Date(s) of review: August 12, 2009	Regional Office of Review : Files Present: Yes ☐ * No ☒	* If No files. Where are they? Chatsworth Office - Contacted Rod Collins

List Type of File (s) reviewed (i.e.: permitting, corrective action, enforcement, other) Envirostor

1. RFA was done 2/2008 by Marin Hermann – **RFA is already uploaded to Envirstor**

2. RFA (addendum) is currently being performed by Rodney Collins

3.

Reviewer Recommendation:	**FAST Team Recommendation:**
RFA Done: Yes ☒ No ☐ RFA Needed: Yes ☐ No ☒	RFA Needed: Yes ☒ No ☐ 8/12/2009 - RFA Currently being worked on by Rodney Collins.

In Corrective Action: Yes ☐ No ☒ PM Assigned: Yes ☒ No ☐ PM Contacted: Yes ☒ No ☐

Name: RODNEY COLLINS

Permit Lead: Permit Supervisor: CA Lead: RODNEY COLLINS CA Sup: JULI PROPES	Site Facility Type: HWTF Clean-up Status: RFA being done as of 8/12/2009	CA Lead/Sup. Contacted: Yes ☒ No ☐ Contact Phone: Date: Contacted: August 12, 2009

Raytheon, Canoga Park facility is an inactive facility and currently DTSC is reviewing its Closure Certification Report (CCR).
It has two known permitted units, a hazardous waste storage area (HWSA) and a waste oil tank T3. The HWSA is used to store containerized hazardous wastes such as flammables, nonflammables, and corrosives. The Tank T3 has a capacity of 4,000 gallons and was used to store waste oils and waste oil mixed with solvents. T3 was removed in 1988.

The Closure Plan was submitted in February 1995 and revised August 1995, as a result of Notices of Deficiencies (NODs) issued to Hughes Missile System Company (HMSC) by DTSC dated December 21, 1994 and June 6, 1995. On December 1995, the DTSC modified the Closure Plan dated August 1995 to reflect changes in the closure performance standards for certain VOCs, background from metals, and conditions under the Health and Safety Plan.

Raytheon submitted the Closure Certification Report (CCR) for the HWSA in 2002 and shortly after Raytheon requested a change of Project Manager (PM). The project was then transfer from Southern California to Northern California. However, due to staff changes in Raytheon and DTSC, the CCR was not evaluated until the middle of 2006.

August 2007 update - The CCR is being reviewed for closure. An RCRA Facility Assessment (RFA) is being drafted in anticipation of a Corrective Action Consent Agreement (CA) which is to address all outstanding in the HWSA and T3 plus a number of other Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs).

Contaminants of Concern: from envirostor

From Envirostor

FACILITY ASSESSMENT STREAMLINING TEAM (FAST)

RECORDS REVIEW CHECKLIST (continued)

Site Name: Raytheon	FAST #: 147

Explanations:

POTENTIAL CONTAMINANTS OF CONCERN

[EDIT]	PROJECT WIDE	RESEARCH - AEROSPACE WASTE - INDUSTRIAL WASTE LINE HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS UNDERGROUND STORAGE TANKS	ARSENIC CADMIUM AND COMPOUNDS - CONFIRMED CHROMIUM VI - CONFIRMED BERYLLIUM AND COMPOUNDS - CONFIRMED TOTAL CHROMIUM (1:6 RATIO CR VI:CR III) - CONFIRMED TPH-DIESEL - CONFIRMED RADIOACTIVE ISOTOPES URANIUM BENZENE - CONFIRMED TRICHLOROFLUOROMETHANE - CONFIRMED TETRACHLOROETHYLENE (PCE) - CONFIRMED 1,1,1-TRICHLOROETHANE (TCA) - CONFIRMED 1,1-DICHLOROETHANE - CONFIRMED 1,2-DICHLOROETHANE (EDC) - CONFIRMED TRICHLOROETHYLENE (TCE) - CONFIRMED 1,1-DICHLOROETHYLENE - CONFIRMED VINYL CHLORIDE - CONFIRMED



ANNUAL
GROUNDWATER MONITORING REPORT
JANUARY - DECEMBER 2012

Former Canoga Park Facility
8433 Fallbrook Avenue
Canoga Park, California

Los Angeles Regional Water Quality Control Board File No. 94-45
Waste Discharge Requirement Permit No. 95-012
Monitoring and Reporting Program No. CI-7483
Global ID SL2043T1572

Prepared for

Emily Wong
Site Cleanup I
Los Angeles Regional Water Quality Control Board
320 W. Fourth Street, Suite 200
Los Angeles, California 90013

Prepared by

Oneida Total Integrated Enterprises, LLC

OTIE
Oneida Total Integrated Enterprises

317 E. Main Street
Ventura, California 93001
805.585.2110

Project No. 2009025

March 2013

ANNUAL GROUNDWATER MONITORING REPORT JANUARY – DECEMBER 2012

Former Canoga Park Facility
8433 Fallbrook Avenue
Canoga Park, California

Oneida Total Integrated Enterprises Project No. 2009025
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Prepared for:
Emily Wong
Site Cleanup I
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Prepared by:

Kim Sawyer, P.G.
Senior Geologist

Reviewed by:

PROFESSIONAL GEOLOGIST
JACQUES MARCILLAC
NO. 902
CERTIFIED
HYDROGEOLOGIST
STATE OF CALIFORNIA

Jacques Marcillac, CHG
Project Manager

EXECUTIVE SUMMARY

This Annual Groundwater Monitoring and Remediation Report, for the period of January through December of 2012, presents the results of the groundwater monitoring and sampling program performed for Raytheon Company (Raytheon) at the Former Canoga Park facility located at 8433 Fallbrook Avenue in Canoga Park, California (Site). This report was prepared by Oneida Total Integrated Enterprises (OTIE) to comply with Monitoring and Reporting Program (M&RP) No. CI-7483 issued by the California Regional Water Quality Control Board Los Angeles Region (LARWQCB), File Number 94-45. The M&RP was amended by the August 26, 1997 and January 22, 2007 LARWQCB letters which approved modifications to the sampling plan. M&RP No. CI-7483 was associated with Waste Discharge Requirements (WDR) Permit No. 95-012, which was issued in 1995. This WDR was officially rescinded by the LARWQCB in their letter dated September 16, 2010; however, monitoring in accordance with M&RP No. CI-7483 will continue on a voluntary basis until a new site-wide M&RP is established.

Characterization and monitoring activities at the Site have been ongoing since 1988 and a groundwater remediation program has been underway since 1995 to achieve cleanup criteria established in the original Corrective Action Plan (CAP) (Hughes, 1992). Soil vapor extraction, air sparging and groundwater extraction activities occurred from 1995 through 2006 and an enhanced in-situ bioremediation (EISB) program was implemented in 2005. EISB activities are currently reported under Waste Discharge Requirements (WDR) Order No. R4-2007-0019 (Series No. 092), M&RP No. CI-8947, under separate cover. The most recent EISB report was the *Enhanced In Situ Bioremediation and In Situ Chemical Reduction Progress Report, Fourth Quarter and 2012 Annual Summary*, (OTIE, 2013) submitted to LARWQCB in February 2013.

The results and observations for the first and second semiannual 2012 groundwater monitoring events and activities at the former Canoga Park facility are as follows:

<u>First Semiannual 2012 Event</u>

- Static groundwater depths for the monitoring wells were gauged on May 29, 2012. Depths to groundwater in the wells ranged from 10.88 feet (MW-19D) to 61.62 feet (CM-19) below top of casing (TOC). The groundwater gradient in the northwest portion of the site was to the west-southwest at 0.0182 feet per foot (ft/ft). The groundwater gradient was essentially flat in the extreme northwest corner of the Site. In the north-central and northeast portions of the Site, the gradient ranged from 0.0212 ft/ft to the south to 0.0133 ft/ft to the southeast. Depth to water measurements and average groundwater gradients for this event are consistent with historical trends.

- Per M&RP No. CI-7483, wells CM-7D, CM-8D, CM-16, MW-15, MW-16, MW-19S, MW-19D and MW-20S were purged and sampled for volatile organic compound (VOC) analysis between May 30 and June 7, 2012. Well MW-37 was also sampled during this event for additional groundwater data.

- Results for the monitoring well samples indicated that none contained VOC concentrations above the detection limit except for wells CM-8D and MW-37. The sample from well CM-8D contained 1.2 micrograms per liter (µg/L) of 1,1-Dichloroethane (1,1-DCA), 17 µg/L of 1,1-Dichloroethene (1,1-DCE), and 7.4 µg/L of trichloroethene (TCE). Concentrations of VOCs detected in the sample from well MW-37 were 52 µg/L of 1,1-DCE, 46.2 µg/L of TCE, and 5.7 µg/L of chloroform. Additionally, the sample from well MW-20S contained only a

concentration of acetone (30 µg/L), which is a possible lab contaminant. No VOC concentration exceeded the CAP goals.

- During the May-June 2012 semiannual sampling event, recovery wells RW-01, RW-02, RW-04, RW-05, RW-06, RW-07, RW-08, RW-09, RW-10, RW-11, RW-13, RW-14, RW-15, and RW-16 were also sampled. Samples from wells RW-02, RW-05, RW-07, RW-09, and RW-13 were below detection limits for all VOCs. CAP goals were only exceeded in 3 of the 14 wells sampled: RW-01, RW-11, and RW-14. Samples from wells RW-01, RW-11 and RW-14 contained 1,1-DCE concentrations exceeding the 60 µg/L CAP goal at 160 µg/L, 70 µg/L and 80 µg/L, respectively. VOCs detected in the recovery well samples below CAP goals included tetrachloroethene (PCE); 1,1-DCE; TCE; *cis*-1,2-dichloroethene (*cis*-1,2-DCE); 1,1-DCA; 1,2-Dichloroethane (1,2-DCA); vinyl chloride (VC); and toluene at concentrations ranging from 0.51 µg/L (1,2-DCA in RW-01) to 100 µg/L (VC in RW-10).

Second Semiannual and Annual 2012 Event

- Semiannual gauging was performed for the second half of 2012 on December 12, 2012, when 59 monitoring wells were gauged. Depths to water ranged from 10.06 feet (well MW-21D) to 62.79 feet below TOC (well CM-19). The overall average groundwater elevation was 1.29 feet lower in December 2012 as compared to the May 2012 average elevation (when comparing the same wells). Apparent groundwater gradient in the northwest portion of the Site ranged from 0.0143 ft/ft southwest to 0.016 ft/ft northeast, while the groundwater gradient was essentially flat in the extreme northwest corner of the Site. The apparent groundwater gradient over the north-central and northeast portions of the Site ranged from 0.138 ft/ft northwest to 0.020 ft/ft southwest to 0.021 ft/ft southeast. In the southern portion of the Site, the gradient ranged from 0.021 ft/ft to 0.0485 ft/ft southeast. Depth to water measurements and average groundwater gradients for this event are consistent with historical trends.

- Results of the December 2012 sampling event indicated that concentrations of VOCs were identified in 9 of the 25 monitoring wells sampled. Samples from monitoring wells CM-7D, CM-9D, CM-13, CM-14, CM-16, CM-18, MW-15, MW-16, MW-17, MW-19S, MW-19D, MW-20S, MW-24, MW-25, MW-26, and MW-27 were below detection limits for all analytes. Eleven different analytes were detected in the nine samples and none exceeded the CAP goals. 1,1-DCE was detected in five wells with concentrations ranging from 1.8 µg/L (CM-2D) to 47 µg/L (MW-37). Concentrations of TCE were detected in samples from only two wells: CM-8D (6.5 µg/L) and MW-37 (5.4 µg/L). Concentrations of *cis*-1,2-DCE were not detected in any wells. Concentrations of VC were detected in samples from wells M-1 (40 µg/L), CM-4D (1.3 µg/L), MW-23 (80 µg/L), and MW-36 (1.2 µg/L). As VC was not detected prior to the initiation of EISB at the Site, there is no CAP goal for it. VC levels are a by-product of the EISB process and are expected to diminish over time.

- All 14 of the accessible recovery wells were sampled during the second semiannual event in December 2012. Sampled wells include RW-01, RW-02, RW-04 through RW-11, and RW-13 through RW-16. Eight of the 14 recovery wells sampled (RW-01, RW-04, RW-06, RW-10, RW-11, RW-14, RW-15, and RW-16) contained detectable levels of VOCs. Results from recovery wells RW-02, RW-05, RW-07, RW-08, RW-09, and RW-13 were below detection limits for all VOCs. The samples from wells RW-01, RW-11, RW-14, and RW-15 exceeded the 60 µg/L CAP goal for 1,1-DCE at 280 µg/L, 70 µg/L, 370 µg/L, and 63 µg/L, respectively. VC concentrations were detected in wells RW-01, RW-04, RW-06, RW-10, RW-14, RW-15 and RW-16 at levels ranging from 0.54 µg/L (RW-15) to 78 µg/L (RW-14).

The semiannual data indicate generally stable or decreasing concentrations, sustained decreases below CAP goals in the vicinity of wells CM-8D and MW-37, and only three areas that remain above CAP goals: two in the northwest area (wells RW-01 and RW-11) and one in the former Tank T3 area in the north-central portion of the Site (near well RW-14).

The lateral extent of the VOC plume is generally stable or decreasing with significant sustained decreases in concentrations within the plume's interior due to the implementation of the EISB program. None of the 25 monitoring wells sampled and four of the 14 recovery wells sampled (RW-01, RW-11, RW-14, and RW-15) had concentrations exceeding CAP goals. Some notable changes in 2012 data include a significant decrease in VOCs in well CM-2D, where 1,1,-DCE decreased from 71 µg/L in December 2011 to 1.8 µg/L in December 2012, and well CM-19 contained a 1,1-DCE concentration of 21 µg/L, which while below the CAP goal, is the highest concentration to date in that well.

The next monitoring event for M&RP CI-7483 is the first semiannual 2013 event and is scheduled for June 2013. Results will be presented in the first semiannual 2013 groundwater monitoring and remediation report to be submitted by October 30, 2013.

TABLE OF CONTENTS

1.0 INTRODUCTION 1
1.1. Site Ownership and Redevelopment History 2
1.2. Remediation System Description 2
1.3. Site Physical Setting 3
1.3.1. Geology 3
1.3.2. Surface Water Hydrology 3
1.3.3. Hydrogeology 4
2.0 GROUNDWATER GAUGING 5
3.0 SEMIANNUAL SAMPLING, ANALYSES, AND RESULTS 6
3.1. Field Activities And Analyses 6
3.1.1. Purging and Sampling 6
3.1.2. Field Quality Assurance/Quality Control Samples 7
3.2. Laboratory Results 7
3.3. Field and Laboratory Quality Assurance/Quality Control Results 8
4.0 ANNUAL SAMPLING, ANALYSES AND RESULTS – DECEMBER 2012 9
4.1. Field Activities and Analyses 9
4.1.1. Groundwater Monitoring Well Sampling 9
4.1.2. Recovery Well Sampling 9
4.2. Laboratory Results 9
4.2.1. Monitoring Well Results 9
4.2.2. Recovery Well Results 10
5.0 *IN SITU* BIOREMEDIATION 12
6.0 FIELD AND LABORATORY QUALITY ASSURANCE/QUALITY CONTROL 13
7.0 INVESTIGATION DERIVED WASTE 14
8.0 SUMMARY AND CONCLUSIONS 15
9.0 REFERENCES 17

FIGURES

Figure 1 Site Vicinity Map

Figure 2 Site Plan Showing Groundwater Gradient, May 29, 2012

Figure 3 Site Plan Showing Groundwater Gradient, December 12, 2012

Figure 4 Site Plan Showing Selected Volatile Organic Compounds versus Time in Groundwater

TABLES

Table 1A Depth to Water and Groundwater Elevation Data, May 29, 2012

Table 1B Depth to Water and Groundwater Elevation Data, December 12, 2012

Table 1C Well Construction and Survey Data

Table 2A Groundwater Analytical Results for Monitoring and Recovery Wells, December 2012

Table 2B Groundwater Analytical Results for Field QA/QC Samples, December 2012

Table 3 Historical Volatile Organic Compound Concentrations in Groundwater Monitoring Wells, 1995 – Present

Table 4 Historical Volatile Organic Compound Concentrations in Groundwater Recovery Wells, 1995 – Present

GRAPHS

Graph 1 Hydrograph, Monitoring Wells M-1 through CM-9D

Graph 2 Hydrograph, Monitoring Wells CM-10 through CM-17

Graph 3 Hydrograph, Monitoring Wells CM-18 through MW-20D

Graph 4 Hydrograph, Monitoring Wells MW-21D through MW-30

Graph 5 Hydrograph, Monitoring Wells MW-24, MW-25, MW-28, MW-29, MW-31, MW-37, and MW-38

Graph 7 Volatile Organic Compounds vs. Time, Monitoring Well M-1

Graph 8 Volatile Organic Compounds vs. Time, Monitoring Well CM-2D

Graph 9 Volatile Organic Compounds vs. Time, Monitoring Well CM-4D

Graph 10 Volatile Organic Compounds vs. Time, Monitoring Well CM-7D

Graph 11 Volatile Organic Compounds vs. Time, Monitoring Well CM-8D

Graph 12 Volatile Organic Compounds vs. Time, Monitoring Well CM-9D

Graph 13 Volatile Organic Compounds vs. Time, Monitoring Well CM-10

Graph 14 Volatile Organic Compounds vs. Time, Monitoring Well CM-11A

Graph 15 Volatile Organic Compounds vs. Time, Monitoring Well CM-12

Graph 16 Volatile Organic Compounds vs. Time, Monitoring Well CM-13
Graph 17 Volatile Organic Compounds vs. Time, Monitoring Well CM-14
Graph 18 Volatile Organic Compounds vs. Time, Monitoring Well CM-15
Graph 19 Volatile Organic Compounds vs. Time, Monitoring Well CM-16
Graph 20 Volatile Organic Compounds vs. Time, Monitoring Well CM-17
Graph 21 Volatile Organic Compounds vs. Time, Monitoring Well CM-18
Graph 22 Volatile Organic Compounds vs. Time, Monitoring Well CM-19
Graph 23 Volatile Organic Compounds vs. Time, Monitoring Well MW-15
Graph 24 Volatile Organic Compounds vs. Time, Monitoring Well MW-16
Graph 25 Volatile Organic Compounds vs. Time, Monitoring Well MW-17
Graph 26 Volatile Organic Compounds vs. Time, Monitoring Well MW-19S
Graph 27 Volatile Organic Compounds vs. Time, Monitoring Well MW-19D
Graph 28 Volatile Organic Compounds vs. Time, Monitoring Well MW-20S
Graph 29 Volatile Organic Compounds vs. Time, Monitoring Well MW-21S
Graph 30 Volatile Organic Compounds vs. Time, Monitoring Well MW-22S
Graph 31 Volatile Organic Compounds vs. Time, Monitoring Well MW-23
Graph 32 Volatile Organic Compounds vs. Time, Monitoring Well MW-24
Graph 33 Volatile Organic Compounds vs. Time, Monitoring Well MW-25
Graph 34 Volatile Organic Compounds vs. Time, Monitoring Well MW-26
Graph 35 Volatile Organic Compounds vs. Time, Monitoring Well MW-27
Graph 36 Volatile Organic Compounds vs. Time, Monitoring Well MW-28
Graph 37 Volatile Organic Compounds vs. Time, Monitoring Well MW-29
Graph 38 Volatile Organic Compounds vs. Time, Monitoring Well MW-30
Graph 39 Volatile Organic Compounds vs. Time, Monitoring Well MW-31
Graph 40 Volatile Organic Compounds vs. Time, Monitoring Well MW-36
Graph 41 Volatile Organic Compounds vs. Time, Monitoring Well MW-37
Graph 42 Volatile Organic Compounds vs. Time, Monitoring Well MW-38
Graph 43A-B Trichloroethene Concentrations vs. Time, Groundwater Recovery Wells
Graph 44A-B 1,1,1-Trichloroethane Concentrations vs. Time, Groundwater Recovery Wells
Graph 45A-B 1,1-Dichloroethene Concentrations vs. Time, Groundwater Recovery Wells

APPENDICES

Appendix A Field Logbook Data and Groundwater Well Purge Records

Appendix B Summary of Water Level Data, January 1996 – Present

Appendix C Laboratory Reports and Chains of Custody

Appendix D Waste Manifest

Appendix E Raytheon Company, Certification Statement Letter

ACRONYMS

amsl	above mean sea level
AS	air sparge
bgs	below ground surface
CAP	Corrective Action Plan
cm/s	centimeters per second
COCs	constituents of concern
1,1-DCA	1,1-dichloroethane
1,1-DCE	1,1-dichloroethene
1,2-DCA	1,2-dichloroehtane
cis-1,2-DCE	*cis*-1,2-dichloroethene
EISB	enhanced *in situ* bioremediation
ft/ft	feet per foot
gpd/ft^2	gallons per day per square foot
GRTS	groundwater recovery and treatment system
Hughes	Hughes Missile Systems Company
HWSA	Hazardous Waste Storage Facility
ISCR	*in situ* chemical reduction
LAMPD	Los Angeles Metropolitan Police Department
LARWQCB	Los Angeles Regional Water Quality Control Board
LCS	laboratory control samples
LCSD	laboratory control samples duplicates
MEK	2-butanone or methyl ethyl ketone
MEPT	MEPT West Hills, LLC
µg/L	micrograms per liter
MS	matrix spike
MSD	matrix spike duplicate
M&RP	Monitoring and Reporting Program
OTIE	Oneida Total Integrated Enterprises, LLC
PCE	tetrachloroethene (perchloroethene)

PDS	post-digestion spike
PDSD	post-digestion spike duplicate
QA/QC	Quality Assurance and Quality Control
Raytheon	Raytheon Company
RPD	relative percent difference
RPM	remedial progress monitoring
SVE	soil vapor extraction
TCE	trichloroethene
TDS	total dissolved solids
TN&A	T N & Associates, Inc.
TOC	top of casing
U.S. EPA	United States Environmental Protection Agency
VC	vinyl chloride
VOC	volatile organic compound
WDR	Waste Discharge Requirements

1.0 INTRODUCTION

Oneida Total Integrated Enterprises, LLC (OTIE), has prepared this Annual Groundwater Monitoring and Remediation Report to present the results of the groundwater monitoring and sampling program and remediation activities performed in 2012 for Raytheon Company (Raytheon) at the former Canoga Park facility located at 8433 Fallbrook Avenue in Canoga Park, California ("Site") (Figure 1). This report complies with Monitoring and Reporting Program (M&RP) No. CI-7483 issued by the California Regional Water Quality Control Board Los Angeles Region (LARWQCB), File Number 94-45. The M&RP was amended by the August 26, 1997 and January 22, 2007 LARWQCB letters which approved modifications to the sampling plan. M&RP No. CI-7483 was associated with Waste Discharge Requirements (WDR) Permit No. 95-012, which was issued in 1995. This WDR was officially rescinded by the LARWQCB in their letter dated September 16, 2010; however, monitoring in accordance with M&RP No. CI-7483 will continue on a voluntary basis until a new site-wide M&RP is established.

Several remediation techniques have been used to remove volatile organic compounds (VOCs) from shallow groundwater (generally between 25 feet and 50 feet below ground surface [bgs]) and the unsaturated soil zone underlying the northwestern portion of the Site. The primary constituents of concern (COCs) at the Site are 1,1-dichloroethene, trichloroethene, and their daughter products.

Characterization and monitoring activities at the Site have been ongoing since 1988 and a groundwater remediation program has been underway since 1995 to achieve cleanup criteria established in the original Corrective Action Plan (CAP) (Hughes, 1992). Clean up goals for the COCs in groundwater are summarized below:

Chemical of Concern	CAP Goal (micrograms per liter [µg/L])
Tetrachloroethene (PCE)	50
Trichloroethene (TCE)	50
cis-1,2-Dichloroethene (*cis*-1,2-DCE)	60
1,1- Dichloroethene (1,1-DCE)	60
1,1-Dichloroethane (1,1-DCA)	50
1,2-Dichloroethane (1,2-DCA)	5

The monitoring program and remediation at the former Canoga Park facility are under the coordination of:

Mr. Jacques Marcillac, CHG
OTIE
317 East Main Street
Ventura, California 93001
(805) 585-2110

All consultant work was performed under the review of:

Mr. Daniel Samorano, P.E.
Raytheon Company
PO Box 11337, Building 845
Tucson, Arizona 85734-1337
(520) 794-9026

The lead agency for the monitoring and remediation is the LARWQCB. The current LARWQCB project manager is:

Ms. Emily Wong
Site Cleanup Unit
Regional Water Quality Control Board
320 W. 4th Street, Suite 200
Los Angeles, CA 90013
(213) 620-6070

1.1. SITE OWNERSHIP AND REDEVELOPMENT HISTORY

In 1959, the 8433 Fallbrook Avenue property was developed as an industrial park by Bunker Ramo, an electrical component design and testing company. Bunker-Ramo was the sole occupant of the facility from 1959 until 1966. From 1966 to 1976, Hughes Missile Systems Company (Hughes) was a co-occupant with Rocketdyne, a division of Rockwell International, and Bunker-Ramo. Hughes purchased the entire Site in the mid-1970s and became the sole occupant, operating as an aerospace research and development facility. The former Raytheon Facility was purchased from Hughes Missile Systems Company by Coast Federal Bank in May 1995. Parcels were subsequently purchased by DeVry and the Los Angeles Metropolitan Police Department (LAMPD). The northern portion of the Site was sold to Regent Properties, Inc. in 1997. Regent sold its portion of the property to Shamrock Holdings, Inc. in 2001, who in turn, sold the property to MEPT West Hills, LLC (MEPT) in June 2002. In 2007, MEPT purchased the DeVry parcel and they remain the property owner for the entire property except for the LAMPD parcel. CB Richard Ellis is the current property manager and is the primary contact for Site logistical issues. Through a merger with Hughes in 1997, Raytheon assumed management of the environmental investigations and remediation activities at the Site. Agency-approved closure of the Site continues to be sought by Raytheon.

1.2. REMEDIATION SYSTEM DESCRIPTION

Raytheon implemented a groundwater recovery and treatment system (GRTS), a soil vapor extraction (SVE) system, and an air sparge (AS) system, which began operation in 1995 to remove VOCs from the shallow groundwater and the unsaturated soil zone underlying the Site.

All systems were shut off in December 1998 due to construction activities at the Site. The GRTS was re-started in July 1999 and the SVE and AS systems were restarted in December 2000. The SVE/AS systems operated until September 2005 when they were shut off for the implementation of an *in situ* remedy (see Section 5.0 below). The GRTS was shut down in April 2006 due to low and asymptotic influent levels and elevated naturally occurring sulfate levels in the effluent. A letter from the LARWQCB dated January 25, 2007 approved the interim-shutdown status (LARWQCB, 2007b).

A detailed summary of the GRTS, SVE, and AS systems installation and operation can be found in the *Annual Groundwater Monitoring and Groundwater Remediation System Report, January-*

December 2006, Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California, (TN&A, 2007) submitted to the LARWQCB in 2007.

1.3. SITE PHYSICAL SETTING

1.3.1. Geology

The geologic deposits of the western San Fernando Valley in the vicinity of the study area are comprised of predominantly unconsolidated sands, silts and clays with occasional gravels. These alluvial fill deposits are of Quaternary age and range in thickness from a thin veneer at the valley margins to more than 700 feet in the central portion of the San Fernando Valley (McLaren Hart, 1990). In the western portion of valley, the unconsolidated alluvial fill deposits are underlain by consolidated bedrock of the Miocene Modelo and Cretaceous Chatsworth Formations, respectively. The Modelo Formation consists of grayish siltstone, clayey siltstone and shale, with minor interbedded diatomaceous shale. A relatively thin weathered zone exists along the top of the formation where it is in contact with the shallower alluvial deposits. The Chatsworth Formation is comprised primarily of a turbidite sandstone sequence with interbedded shales and minor conglomerates. The bedrock of the Chatsworth Formation is the major rock comprising the Simi Hills and from the distinct outcrops north of Chatsworth Reservoir (McLaren Hart, 1990).

The major portion of the Former Canoga Park Facility is constructed on consolidated bedrock of the Miocene Modelo Formation. Near surface (to 50 or 100 feet below grade), deposits are highly weathered. Beds of the Modelo are seen in road cuts and in drill-hole samples to be dipping at up to 45 degrees from horizontal. Generally, dip direction is the south or southwest.

In the northwestern portion of the Facility, to the west and northwest of Building 8531 (Former Building 270) (Figure 2), and at other locations on the Site periphery, the shallow subsurface is comprised of unconsolidated alluvial valley fill of Quaternary age. This material is present to depths of at least 75 feet. The beds are flat-lying, and consist primarily of mixed silt and fine sand, with lesser amounts of clay. The Modelo Formation is believed to be unconformably present beneath the alluvium. A thin (up to 10-foot) layer of construction fill material is locally present at the surface overlying the Modelo Formation or alluvium.

1.3.2. Surface Water Hydrology

Primary surface drainage in the Site vicinity is towards Chatsworth Creek, lying immediately west of the Site. Portions of Chatsworth Creek, north and south of Hidden Lake (formerly Lees Lake), are contained within large underground culverts. Other portions are contained in lined or unlined structured channels. The portion of Chatsworth Creek in the Site vicinity is contained in underground cement-lined tunnels. Water from Chatsworth Creek eventually flows into the Los Angeles River about 2.5 miles downgradient.

Hidden Lake is the only surface body of water within a 1-mile radius of the Site. Hidden Lake is used as a recreational area by residents of the surrounding housing development. Storm drainage, including storm drain discharge from the Site flows to the channelized Chatsworth Creek, the majority of which enters south and downstream of Hidden Lake.

It should be noted that the comparison of survey data for the water level of Hidden Lake collected in March 2002 (849.60 feet above mean sea level [amsl]) and the potentiometric surface in shallow groundwater in wells near the reservoir (840 to 842 feet amsl in May 2009) concluded that the potentiometric groundwater surface was approximately eight to ten feet

below the surface water elevation. This indicates that the reservoir is a "losing" body of water, meaning that the groundwater does not recharge the reservoir.

1.3.3. Hydrogeology

Groundwater gradient direction within the vicinity of the Site regionally flows from northwest to southeast, from the Simi Hills to the San Fernando Valley. The depth to groundwater is approximately 25 feet bgs near Roscoe Boulevard. The hydraulic gradient of the regional groundwater is approximately 0.0047 feet per foot (ft/ft).

The water bearing materials comprising the western portion of the valley are generally fine-grained alluvial sediments, which contain naturally-occurring total dissolved solids (TDS) in excess of 1,000 milligrams per liter, exceeding the recommended United States Environmental Protection Agency (U.S. EPA) drinking water guidelines. Due to the relatively low yields and excessive TDS, there are no drinking water wells in the vicinity of the Facility. Essentially all drinking water consumed in the western San Fernando Valley is derived from the State Water project and the Los Angeles Aqueduct, which delivers water to southern California from the Sierra Nevada Mountains.

Although the Los Angeles Department of Water and Power does supplement its water supply with groundwater from the San Fernando Basin, all of the groundwater production well fields are located in the eastern quarter of the basin. The nearest active production well for supply of potable water to the public is more than 15 miles downgradient from the Site.

In the vicinity of the Site, groundwater occurs between 10 and 65 feet bgs, depending on the location on the property. The groundwater gradient direction is generally to the southeast (i.e., from the Simi Hills to the San Fernando Valley), but on the western side of the property, there is a westward component due to the local topography.

Routine groundwater gauging of onsite monitoring wells has been conducted since December 1991 (with previous monthly gauging from August 1990). Groundwater gradient in the northwest portion of the Site is consistently westward until reaching the western edge of the property where it turns southward. Gradients in this portion generally range from 0.01 to 0.02 ft/ft. The apparent groundwater gradient over the remainder of the Site is towards the southwest, south and south-southeast, with historic gradients ranging from 0.01 to 0.04 ft/ft. Water depths, groundwater gradients, and apparent groundwater flow directions are generally consistent with minor localized changes due to pumping activities during GRTS operation.

Two rounds of aquifer tests (and 1991 and 1993) were performed at the Site to determine aquifer hydraulic parameters as a prerequisite to groundwater modeling and conceptual design of the groundwater remediation system. Average hydraulic conductivities were calculated to be approximately 9 gallons per day per square foot (gpd/ft^2) for the Modelo Formation ($4.24x10^{-4}$ centimeters per second [cm/s]) and approximately 270 gpd/ft^2 for the alluvial fill ($1.27x10^{-2}$ cm/s) (Groundwater Technology, Inc., 1993).

2.0 GROUNDWATER GAUGING

In accordance with M&RP No. CI-7483 (p. T-2, condition 3g) as modified by the January 22, 2007 LARWQCB letter (LARWQCB, 2007a), groundwater elevations are measured in accessible groundwater monitoring wells on a semiannual basis. Groundwater levels were measured using an electric water level meter that was cleaned between each well during gauging as outlined within sampling and analysis plan. Semiannual gauging was performed for the first half of 2012 in May.

On May 29, 2012, 36 site monitoring wells were gauged. Depths to groundwater in the wells ranged from 10.88 feet (MW-19D) to 61.62 feet (CM-19) below top of casing (TOC). The groundwater gradient in the northwest portion of the site was to the west-southwest at 0.0182 ft/ft. The groundwater gradient was essentially flat in the extreme northwest corner of the Site. In the north-central and northeast portions of the Site, the gradient ranged from 0.0212 ft/ft to the south to 0.0133 ft/ft to the southeast. The May 29, 2012 groundwater elevation measurements are summarized in Table 1A and plotted and contoured on Figure 2.

Semiannual gauging was performed for the second half of 2012 on December 12, when 59 monitoring wells were gauged. In December, depths to water ranged from 10.06 feet (well MW-21D) to 62.79 feet below TOC (well CM-19). The overall average groundwater elevation was 1.29 feet lower in December 2012 as compared to the May 2012 average elevation (when comparing the same wells). Apparent groundwater gradient in the northwest portion of the Site ranged from 0.0143 ft/ft southwest to 0.016 ft/ft northeast, while the groundwater gradient was essentially flat in the extreme northwest corner of the Site. The apparent groundwater gradient over the north-central and northeast portions of the Site ranged from 0.138 ft/ft northwest to 0.020 ft/ft southwest to 0.021 ft/ft southeast. In the southern portion of the Site, the gradient ranged from 0.021 ft/ft to 0.0485 ft/ft southeast. Groundwater elevation measurements collected on December 12, 2012 are summarized in Table 1B. The groundwater elevation contours were drawn using only shallow groundwater elevation data from the monitoring wells located both on and off the Site (Figure 3).

Hydrographs for 38 monitoring wells are provided in Graphs 1 through 5. The field gauging documentation for December 2012 is included in Appendix A, and a summary of water level data for January 1996 through present is provided in Appendix B. Well completion information for all Site wells is presented in Table 1C.

3.0 SEMIANNUAL SAMPLING, ANALYSES, AND RESULTS

Several groundwater monitoring events were conducted concurrently in May-June 2012. In addition to the semiannual event, remedial progress monitoring (RPM) events for Phase IV and VI injections were performed under Waste Discharge Requirements (WDR) Permit No. R4-2007-0019 (Series No. 092). As some of the semiannual wells are also RPM wells, the sampling of the eight perimeter monitoring wells (CM-7D, CM-8D, CM-16, MW-15, MW-16, MW-19S, MW-19D and MW-20S) was conducted on May 31 and June 6 for the first semiannual 2012 event. The selected wells are sampled because they are located upgradient, downgradient and cross-gradient of the dissolved-phase VOC concentrations. All eight required wells were sampled during this semiannual sampling event. Well MW-37 was also sampled concurrently for continued enhanced *in situ* bioremediation (EISB) remedial progress monitoring downgradient of well CM-8D (injection area "D").

The GRTS recovery wells have also been sampled on a semiannual basis during most of the system's operating history for remedial progress data. However, recovery well sampling is only required on an annual frequency per M&RP requirements. In the May-June 2012 semiannual sampling event, all accessible recovery wells were sampled for VOC analysis (EPA Method 8260B) to supplement the data set for the northwest portion of the site.

3.1. FIELD ACTIVITIES AND ANALYSES

The following sections summarize purging and sampling wells and field quality control and quality assurance.

3.1.1. Purging and Sampling

Between May 30 and June 7, 2012, monitoring and recovery wells CM-7D, CM-8D, CM-16, MW-15, MW-16, MW-19S, MW-19D, MW-20S, MW-37, RW-01, RW-02, RW-04, RW-05, RW-06, RW-07, RW-08, RW-09, RW-10, RW-11, RW-13, RW-14, RW-15, and RW-16 were all purged and sampled for this semiannual event. All collected samples were analyzed for VOCs using EPA Method 8260B. Prior to sampling, wells RW-01, RW-10, RW-11, RW-13, and RW-15 were purged using a "low-flow" technique with a portable electric submersible pump (monsoon) and dedicated tubing. Wells RW-04, RW-05, RW-06, RW-07, RW-08, RW-09, RW-14, and RW-16 were purged and sampled using the dedicated extraction pumps and tubing, while well RW-02 was sampled with a peristaltic pump due to root obstructions. Field water quality parameters, including pH, temperature, oxidation reduction potential, dissolved oxygen, total dissolved solids, and salinity, were measured periodically during purging with a calibrated water quality meter equipped with a flow cell and recorded during purging onto monitoring well purge / sample logs. All undedicated or non-disposable, downhole equipment was decontaminated prior to purging and sampling each well. Monitoring well purge / sample logs were provided in Appendix A of the first semiannual 2012 report (OTIE, 2012).

Following stabilization of field water quality parameters, samples were collected into laboratory supplied containers appropriate for the analyses. The containers were filled, labeled, and then placed on ice inside a secured cooler. Samples were delivered by courier to CalScience Environmental Laboratories, Inc., of Garden Grove, California, a California State certified analytical laboratory. All samples were analyzed for VOCs using EPA Method SW 5030/8260B.

Water generated during purging and sampling wells was temporarily collected into a trailer mounted, 300-gallon polyethylene storage tank, owned and operated by OTIE. The purge water was transferred from the temporary storage tank to the on-site groundwater remediation system, treated, and stored for use as mixing water for future *in situ* injections.

3.1.2. Field Quality Assurance/Quality Control Samples

Field quality assurance / quality control (QA/QC) samples collected during the first semiannual 2012 monitoring event included two trip blanks and three field duplicate samples. All QA/QC samples were analyzed for VOCs.

Trip blanks are used to evaluate representativeness by identifying any VOCs that may have been introduced to the samples' environment during shipment, handling, or storage on site and at the laboratory. Two laboratory-supplied trip blanks were placed in the cooler with other groundwater samples for the following shipments to the laboratory by courier on May 30 and June 7, 2012. The trip blanks were labeled as TB3-5-30-12 for May 30, 2012 and as TB1-6-7-12 for June 7, 2012.

Field duplicate samples are collected and analyzed to evaluate the accuracy and precision of the contract laboratory. Three duplicate samples were collected concurrently with the primary samples at these wells: CM-8D, RW-11, and RW-14 and labeled as DUP1-6-6-12, DUP3-5-30-12 and DUP2, respectively.

3.2. LABORATORY RESULTS

Results of the May-June 2012 semiannual sampling event indicated that none of the samples from the monitoring wells contained concentrations of chemicals of concern above the detection limits except for wells CM-8D and MW-37. Concentrations of VOCs detected in the sample from well CM-8D were 1.2 µg/L of 1,1-DCA, 17 µg/L of 1,1-DCE, and 7.4 µg/L of TCE. Concentrations of VOCs detected in the sample from well MW-37 were 52 µg/L of 1,1-DCE, 6.2 µg/L of TCE, and 5.7 µg/L of chloroform. Additionally, the sample from well MW-20S contained only a concentration of acetone (30 µg/L), which could be attributed to lab contamination. None of the VOC concentrations exceeded the CAP groundwater clean-up goals established for the Site (Hughes, 1992).

Nine of the 14 recovery wells sampled (RW-01, RW-04, RW-06, RW-08, RW-10, RW-11, RW-14, RW-15, and RW-16) contained trace to moderate concentrations of VOCs ranging from 0.51 µg/L (1,2-DCA in RW-01) to 160 µg/L (1,1-DCE in RW-01). Results for recovery wells RW-02, RW-05, RW-07, RW-09, and RW-13 were all below detection limits for all VOC analytes. Samples from wells RW-01, RW-11, and RW-14 exceeded the CAP goal for 1,1-DCE with concentrations of 160 µg/L, 70 µg/L, and 80 µg/L, respectively.

Detected VOCs in recovery wells that were below CAP goals were as follows:

- 1,1-DCA was detected in wells RW-01, RW-10, and RW-14 at concentrations of 1.3 µg/L, 1.5 µg/L and 2.0 µg/L, respectively;
- 1,2-DCA was detected in wells RW-01 and RW-14 at a concentration of 0.51 µg/L and 1.1 µg/L, respectively;
- 1,1-DCE was detected in wells RW-06, RW-08, and RW-15 at concentrations of 25 µg/L, 4.0 µg/L, and 24 µg/L, respectively;
- *cis*-1,2-DCE was detected in wells RW-06, RW-14, and RW-16 at concentrations of 2.3 µg/L, 1.6 µg/L and 1.9 µg/L, respectively;
- PCE was detected only in well RW-15 at a concentration of 2.1 µg/L;

- TCE was detected in wells RW-01, RW-06, RW-14, and RW-15 at concentrations ranging from 1.2 µg/L to 6.4 µg/L;
- Vinyl chloride (VC) concentrations were detected in wells RW-01, RW-04, RW-06, RW-08, RW-10, RW-14, and RW-16 at concentrations ranging from 0.71 µg/L (RW-08) to 100 µg/L (RW-10). VC was not previously detected at the Site until EISB activities commenced in 2004. The VC concentrations are an intermediate daughter product, resulting from the EISB dechlorination process and are anticipated to eventually dissipate as further treatment is completed; and
- The sample from well RW-16 contained a concentration of toluene at 3.7 µg/L.

Results of the May-June 2012 sampling event are summarized in Table 2A of the first semiannual 2012 report (OTIE, 2012) and also included in Tables 3 and 4 of this report (historical results). The laboratory reports and chain-of-custody documentation for these results are provided in Appendix D of the first semiannual 2012 report.

3.3. FIELD AND LABORATORY QUALITY ASSURANCE/QUALITY CONTROL RESULTS

Field QA/QC samples for the groundwater sampling event included two trip blanks and three field duplicates. No VOCs were detected in the trip blank samples. Field duplicate samples are collected and analyzed to provide an indication of overall precision of the contract laboratory. Evaluation of the precision was accomplished by calculating the relative percent difference (RPD) of detected compounds in the field sample and field sample duplicate. The field duplicate RPDs ranged from 0% to 143% with all except one sample pair within established control limits of less than 35%. The 1,1-DCE results for the sample pair for CM-8D exceeded the RPD limit and were J-flagged.

Duplicate and primary sample results are summarized in Table 2B of the first semiannual 2012 report. All groundwater samples were shipped under appropriate chain of custody protocol at the method-specified temperature limit (4°C ± 2°C). All sample analyses were completed within the prescribed holding time.

Laboratory QA/QC procedures were carried out in accordance with U.S. EPA method specifications and the data was accepted based on the QA/QC criteria established by the U.S. EPA. Laboratory QA/QC samples included method blanks, laboratory control samples (LCS), LCS duplicates (LCSD), matrix spike samples (MS), MS duplicate (MSD) samples, post-digestion spike (PDS), and post-digestion spike duplicate (PDSD).

All laboratory quality control samples (method blanks, spike/spike duplicate, PDS/PDSD, and LCS/LCSD) were within their respective control limits with the following exceptions:

- 1,1-DCE in the spike/spike duplicate sample were outside of their control limits in sample batch 120601S01. As a result, all 1,1-DCE detects in that sample batch were “J” flagged.

4.0 ANNUAL SAMPLING, ANALYSES AND RESULTS – DECEMBER 2012

Several groundwater monitoring events were conducted concurrently in December 2012. In addition to the annual event, RPM events for Phase IV, VI, and VII injections were performed under WDR Permit No. R4-2007-0019 (Series No. 092). As some of the annual wells are also RPM wells, the sampling of the all the perimeter monitoring wells was conducted between December 6 and December 20 for the annual 2012 event. Eight semiannual monitoring wells and 15 annual monitoring wells were monitored and sampled. All 14 of the accessible recovery wells were also sampled during the annual event in December 2012.

4.1. FIELD ACTIVITIES AND ANALYSES

4.1.1. Groundwater Monitoring Well Sampling

Between December 11 and 20, 2012, 15 monitoring wells in the annual sampling program and 8 semiannual wells were sampled per the modified WDR permit and the M&RP requirements, in addition to wells MW-37 and MW-38. The 25 wells sampled include: M-1, CM-2D, CM-4D, CM-7D, CM-8D, CM-9D, CM-13, CM-14, CM-16, CM-18, CM-19, MW-15, MW-16, MW-17, MW-19S, MW-19D, MW-20S, MW-23 through MW-27, MW-36, MW-37, and MW-38.

The wells were purged and monitored as described above in Section 3.1.1. All groundwater samples were transported to Calscience Environmental Laboratory via courier to be analyzed for VOCs (EPA Method 8260B) following chain-of-custody protocol. Field sampling data sheets for this sampling event are provided in Appendix A.

Water generated from well purging was collected and placed into drums pending off-site disposal.

4.1.2. Recovery Well Sampling

As in May-June 2012 for the semiannual sampling event, all 14 recovery wells (RW-01, RW-02, RW-04, RW-05, RW-06, RW-07, RW-08, RW-09, RW-10, RW-11, RW-13, RW-14, RW-15, and RW-16) were sampled between December 6 and 20, 2012 for the annual event.

The wells were purged and monitored as described above in Section 3.1.2. Groundwater samples were transported to Calscience Environmental Laboratory via courier following chain-of-custody protocol for VOC analysis by EPA Method 8260B. Field sampling data sheets are provided in Appendix A.

Water generated from well purging was collected and placed into drums pending off-site disposal.

4.2. LABORATORY RESULTS

4.2.1. Monitoring Well Results

Results of the December 2012 sampling event indicated that concentrations of VOCs were identified in 9 of the 25 monitoring wells sampled. Samples from monitoring wells CM-7D, CM-9D, CM-13, CM-14, CM-16, CM-18, MW-15, MW-16, MW-17, MW-19S, MW-19D, MW-20S, MW-24, MW-25, MW-26, and MW-27 were below detection limits for all analytes.

Eleven different analytes were detected in the nine samples and none exceeded the CAP goals. 1,1-DCE was detected in five monitoring wells with concentrations ranging from 1.8 µg/L (CM-2D) to 47 µg/L (MW-37). Concentrations of TCE were detected in samples from only two

wells: CM-8D (6.5 µg/L) and MW-37 (5.4 µg/L). Concentrations of *cis*-1,2-DCE were not detected in any wells. Concentrations of VC were detected in samples from wells M-1 (40 µg/L), CM-4D (1.3 µg/L), MW-23 (80 µg/L), and MW-36 (1.2 µg/L). As VC was not detected prior to the initiation of EISB at the Site, there is no CAP goal for it. VC levels are a by-product of the EISB process and are expected to diminish over time.

Although no California MCLs were exceeded for any of these analytes, minor concentrations of toluene; chloroform; 1,1-DCA; 1,2-DCA; and PCE were also detected in several wells at levels of 1.1 µg/L to 4.6 µg/L. Acetone, 2-butanone (or methyl ethyl ketone, MEK), and 2-hexanone were also detected in two wells. Acetone was detected in wells M-1 and MW-36 at concentrations of 810 µg/L and 59 µg/L, respectively. Well M-1 also contained 1,000 µg/L of MEK and 310 µg/L of 2-hexanone. MEK and acetone are products of the EISB degradation process. There are no California MCLs for any of these three analytes.

Results of the December 2012 sampling event are summarized in Table 2A and laboratory reports and chain-of-custody documentation are included in Appendix C.

Historical (1996 through present) concentration results for 11 selected compounds in groundwater monitoring wells are summarized in Table 3. Concentrations of select VOCs versus time in Site monitoring wells are illustrated on Figure 4 and in Graphs 7 through 42.

4.2.2. Recovery Well Results

Eight of the 14 recovery wells sampled (RW-01, RW-04, RW-06, RW-10, RW-11, RW-14, RW-15, and RW-16) contained detectable levels of VOCs. Results from recovery wells RW-02, RW-05, RW-07, RW-08, RW-09, and RW-13 were below detection limits for all VOCs. The samples from wells RW-01, RW-11, RW-14, and RW-15 exceeded the 60 µg/L CAP goal for 1,1-DCE at 280 µg/L, 70 µg/L, 370 µg/L, and 63 µg/L, respectively.

Detected VOCs in recovery wells that were below CAP goals were as follows:

- PCE was detected only in well RW-15 with a concentration of 3.7 µg/L;
- TCE was detected in recovery wells RW-01, RW-06, RW-14, and RW-15 at concentrations of 4.4 µg/L, 1.5 µg/L, 2.7 µg/L, and 14 µg/L, respectively;
- 1,1-DCE was also detected below CAP goal in wells RW-04 and RW-06 with values of 3.2 µg/L and 14 µg/L, respectively;
- *cis*-1,2-DCE was detected in wells RW-06 and RW-14 with concentrations of 2.0 µg/L and 2.8 µg/L, respectively;
- VC concentrations were detected in wells RW-01, RW-04, RW-06, RW-10, RW-14, RW-15 and RW-16 at levels ranging from 0.54 µg/L to 78 µg/L. VC was not detected at the Site until EISB activities commenced in 2004. The VC concentrations are a transient daughter product resulting from the EISB dechlorination process and will likely dissipate over time as treatment is completed;
- Trace concentrations of 1,1-DCA (2.3 µg/L and 3.8 µg/L) and 1,2-DCA (0.9 µg/L and 2.68 µg/L) in wells RW-01 and RW-14, respectively.

Results of all detected VOCs for the December 2012 recovery well sampling are summarized in Table 2A. Photocopies of the laboratory reports are provided in Appendix C.

Historical (1995 through present) recovery well concentration results for 11 constituents of concern are summarized in Table 4. Concentrations of select VOCs versus time in the Site's recovery wells are illustrated in Graphs 43A-B through 45A-B.

5.0 *IN SITU* BIOREMEDIATION

On February 23, 2009 the LARWQCB approved T N & Associates, Inc.'s (TN&A's) *Corrective Action Plan Addendum #3: Work Plan for Additional Enhanced In Situ Bioremediation and In Situ Chemical Reduction Activities* (TN&A, 2008) to implement additional EISB efforts in three treatment areas and *in situ* chemical reduction (ISCR) activities in a fourth treatment area. WDR Permit No. R4-2007-0019 (Series No. 092) was obtained in September 2009 and the injection activities were initiated.

In October 2009, the Phase IV EISB injections were implemented in the "Northwest Area" of the Site. A total of four RPM wells were included in M&RP No. CI-8947, and nine post-injection monitoring events have been completed since the injections, the most recent being Month #36 in December 2012.

The Phase V ISCR injection was implemented at the Former Hazardous Waste Storage Area (HWSA) in June 2010. A total of six RPM wells were included in M&RP No. CI-8947 and eight post-injection monitoring events have been completed. The most recent event was Month #30 in December 2012.

In May 2011, the Phase VI EISB injections were implemented in the "Former Bldg 269 Area" of the Site. A total of three RPM wells were included in M&RP No. CI-8947 and six post-injection monitoring event has been completed since the injections, the most recent being Month #18 in December 2012.

In September 2012, the Phase VII EISB injections were implemented in the "Former Tank T3 Area" of the Site. A total of three RPM wells were included in M&RP No. CI-8947 and two post-injection monitoring event have been completed since the injections, the most recent being Month #3 in December 2012.

All historical EISB program information and associated data were summarized in the *Enhanced In Situ Bioremediation and In Situ Chemical Reduction Progress Report, Fourth Quarter and Annual 2012 Summary, Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California* (OTIE, 2013), which was submitted in February 2013. Please refer to this document for information pertaining to the EISB program.

Monitoring events in 2013 will include Phase VII EISB Month #6 in March 2013; Phase IV EISB Month #42, Phase V ISCR Month #36, Phase VI EISB Month #24, and Phase VII EISB Month #9 in May-June 2013; and Phase IV EISB Month #48, Phase V ISCR Month #42, Phase VI EISB Month #30, and Phase VII EISB Month #15 in November-December 2013.

6.0 FIELD AND LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

Field QA/QC samples for water matrix for the sampling event in December 2012 included five trip blanks, one field blank, and six field duplicates. Trip blanks are used to evaluate representativeness by identifying any VOCs that may have been introduced to the samples' environment during shipment, handling, or storage on Site and at the laboratory. Field blanks are used to evaluate decontamination procedures. No VOCs were detected in any of the six trip or field blank samples. Field duplicate samples are collected and analyzed as an indication of overall precision. Field duplicates were collected from monitoring wells CM-2D (DUP-A12a-121412), MW-37 (DUP-A12b-121812), CM-4D (DUP-269) and recovery wells RW-01 (identified as DUP-NW121012), RW-06 (identified as DUP-RW-12612) and RW-14 (sample DUP-T3-121012).

Evaluation of the precision was accomplished by calculating the RPD of detected compounds in the field sample and field sample duplicate. Field duplicate RPDs were within established control limits (<35%) all six sample sets, with two exceptions. For 1,1-DCE concentrations in the CM-2D sample pair, the primary sample contained a detectable concentration while the duplicate sample did not. Therefore the sample pair was flagged with a “J.” Additionally, VC in the pair from well RW-01 had an RPD of 50% which exceeds the control limit. Both results were flagged with a “J.”

Laboratory QA/QC samples for water matrix included method blanks, LCS, LCSD, MS, and MSD. No contamination was detected in the method blanks. All percent recoveries and RPD values for LCS/LCSD and were within method-specified control limits.

Results for QA/QC samples are included in Table 2B.

7.0 INVESTIGATION DERIVED WASTE

The generated water during purging and sampling wells in June 2012 was temporarily collected into a trailer-mounted, 300-gallon polyethylene storage tank, owned and operated by OTIE. The purge water was transferred from the temporary storage tank to the on-site groundwater remediation system, treated, and stored for use as mixing water for future *in situ* injections.

Water generated in June 2012 was used in the Phase VII injections in Former Tank T3 Area in September 2012. As no other injections are currently scoped, purge water generated during sampling in December 2012 was placed into 55-gallon drums. The drums were labeled as non-hazardous and stored on site pending disposal. On December 20, 2012, American Integrated Services, Inc. picked up the drums and transported them under manifest to a state-certified waste facility, Crosby and Overton, Inc., in Long Beach California, where the water was recycled. The manifest for the waste water is included in Appendix D.

8.0 SUMMARY AND CONCLUSIONS

This report was prepared for Raytheon to comply with M&RP No. CI-7483 issued by the LARWQCB, File Number 94-45. This report is also in accordance with the August 26, 1997 and January 22, 2007 LARWQCB letters, approving modifications to the M&RP. M&RP No. CI-7483 was associated with WDR Permit No. 95-012, which was issued in 1995. This WDR was officially rescinded by the LARWQCB in their letter dated September 16, 2010; however, monitoring in accordance with M&RP No. CI-7483 will continue on a voluntary basis until a new site-wide M&RP is established The results and observations for 2012 groundwater monitoring and remedial operations at the Site are as follows:

First Semiannual 2012 Event

- Static groundwater depths for the monitoring wells were gauged on May 29, 2012. Depths to groundwater in the wells ranged from 10.88 feet (MW-19D) to 61.62 feet (CM-19) below TOC. The groundwater gradient in the northwest portion of the site was to the west-southwest at 0.0182 ft/ft. The groundwater gradient was essentially flat in the extreme northwest corner of the Site. In the north-central and northeast portions of the Site, the gradient ranged from 0.0212 ft/ft to the south to 0.0133 ft/ft to the southeast. Depth to water measurements and average groundwater gradients for this event are consistent with historical trends.

- Per M&RP No. CI-7483, wells CM-7D, CM-8D, CM-16, MW-15, MW-16, MW-19S, MW-19D and MW-20S were purged and sampled for VOC analysis between May 30 and June 7, 2012. Well MW-37 was also sampled during this event for additional groundwater data.

- Results for the monitoring well samples indicated that none contained VOC concentrations above the detection limit except for wells CM-8D and MW-37. The sample from well CM-8D contained 1.2 µg/L of 1,1-DCA, 17 µg/L of 1,1-DCE, and 7.4 µg/L of TCE. Concentrations of VOCs detected in the sample from well MW-37 were 52 µg/L of 1,1-DCE, 46.2 µg/L of TCE, and 5.7 µg/L of chloroform. Additionally, the sample from well MW-20S contained only a concentration of acetone (30 µg/L), which is a possible lab contaminant. No VOC concentration exceeded the CAP goals.

- During the May-June 2012 semiannual sampling event, recovery wells RW-01, RW-02, RW04, RW-05, RW-06, RW-07, RW-08, RW-09, RW-10, RW-11, RW-13, RW-14, RW-15, and RW-16 were also sampled. Samples from wells RW-02, RW-05, RW-07, RW-09, and RW-13 were below detection limits for all VOCs. CAP goals were only exceeded in 3 of the 14 wells sampled: RW-01, RW-11, and RW-14. Samples from wells RW-01, RW-11 and RW-14 contained 1,1-DCE concentrations exceeding the 60 µg/L CAP goal at 160 µg/L, 70 µg/L and 80 µg/L, respectively. VOCs detected in the recovery well samples below CAP goals included PCE; 1,1-DCE; TCE; *cis*-1,2-DCE; 1,1-DCA; 1,2-DCA; VC; and toluene at concentrations ranging from 0.51 µg/L (1,2-DCA in RW-01) to 100 µg/L (VC in RW-10).

Second Semiannual and Annual 2012 Event

- Semiannual gauging was performed for the second half of 2012 on December 12, 2012, when 59 monitoring wells were gauged. Depths to water ranged from 10.06 feet (well MW-21D) to 62.79 feet below TOC (well CM-19). The overall average groundwater elevation was 1.29 feet lower in December 2012 as compared to the May 2012 average elevation (when comparing the same wells). Apparent groundwater gradient in the northwest portion

of the Site ranged from 0.0143 ft/ft southwest to 0.016 ft/ft northeast, while the groundwater gradient was essentially flat in the extreme northwest corner of the Site. The apparent groundwater gradient over the north-central and northeast portions of the Site ranged from 0.138 ft/ft northwest to 0.020 ft/ft southwest to 0.021 ft/ft southeast. In the southern portion of the Site, the gradient ranged from 0.021 ft/ft to 0.0485 ft/ft southeast. Depth to water measurements and average groundwater gradients for this event are consistent with historical trends.

- Results of the December 2012 sampling event indicated that concentrations of VOCs were identified in 9 of the 25 monitoring wells sampled. Samples from monitoring wells CM-7D, CM-9D, CM-13, CM-14, CM-16, CM-18, MW-15, MW-16, MW-17, MW-19S, MW-19D, MW-20S, MW-24, MW-25, MW-26, and MW-27 were below detection limits for all analytes. Eleven different analytes were detected in the nine samples and none exceeded the CAP goals. 1,1-DCE was detected in five wells with concentrations ranging from 1.8 µg/L (CM-2D) to 47 µg/L (MW-37). Concentrations of TCE were detected in samples from only two wells: CM-8D (6.5 µg/L) and MW-37 (5.4 µg/L). Concentrations of *cis*-1,2-DCE were not detected in any wells. Concentrations of VC were detected in samples from wells M-1 (40 µg/L), CM-4D (1.3 µg/L), MW-23 (80 µg/L), and MW-36 (1.2 µg/L). As VC was not detected prior to the initiation of EISB at the Site, there is no CAP goal for it. VC levels are a by-product of the EISB process and are expected to diminish over time.

- All 14 of the accessible recovery wells were sampled during the second semiannual event in December 2012. Sampled wells include RW-01, RW-02, RW-04 through RW-11, and RW-13 through RW-16. Eight of the 14 recovery wells sampled (RW-01, RW-04, RW-06, RW-10, RW-11, RW-14, RW-15, and RW-16) contained detectable levels of VOCs. Results from recovery wells RW-02, RW-05, RW-07, RW-08, RW-09, and RW-13 were below detection limits for all VOCs. The samples from wells RW-01, RW-11, RW-14, and RW-15 exceeded the 60 µg/L CAP goal for 1,1-DCE at 280 µg/L, 70 µg/L, 370 µg/L, and 63 µg/L, respectively. VC concentrations were detected in wells RW-01, RW-04, RW-06, RW-10, RW-14, RW-15 and RW-16 at levels ranging from 0.54 µg/L (RW-15) to 78 µg/L (RW-14).

The semiannual data indicate generally stable or decreasing concentrations, sustained decreases below CAP goals in the vicinity of wells CM-8D and MW-37, and only three areas that remain above CAP goals: two in the northwest area (wells RW-01 and RW-11) and one in the former Tank T3 area in the north-central portion of the Site (near well RW-14).

The lateral extent of the VOC plume is generally stable or decreasing with significant sustained decreases in concentrations within the plume's interior due to the implementation of the EISB program. None of the 25 monitoring wells sampled and four of the 14 recovery wells sampled (RW-01, RW-11, RW-14, and RW-15) had concentrations exceeding CAP goals. Some notable changes in 2012 data include a significant decrease in VOCs in well CM-2D, where 1,1,-DCE decreased from 71 µg/L in December 2011 to 1.8 µg/L in December 2012, and well CM-19 contained a 1,1-DCE concentration of 21 µg/L, which, while below the CAP goal, is the highest concentration to date in that well.

The next monitoring event for M&RP CI-7483 is the first semiannual 2013 event and is scheduled for June 2013. Results will be presented in the first semiannual 2013 groundwater monitoring and remediation report to be submitted by October 30, 2013.

9.0 REFERENCES

Groundwater Technology, Inc. 1993. *Report on Pilot Testing of Remedial Technologies, Hughes Missile Systems Company, Canoga Park, California.* July 20.

Hughes Environmental Systems, Inc. (Hughes, 1992). *Corrective Action Plan for Hughes Missile Systems Company, Canoga Park, California.* November 13.

LARWQCB, 2007a. *Revised Monitoring and Reporting Program No. CI-7483- Raytheon Systems Company (Former Hughes Missile Systems Company), 8433 Fallbrook Avenue, Canoga Park.* January 22.

_____. 2007b. *Approval for Interim Shutdown of Groundwater Recovery Treatment System (GRTS) - Raytheon Systems Company (Former Hughes Missile Systems Company), 8433 Fallbrook Avenue, Canoga Park.* January 25.

_____. 2009. *Conditional Approval of Corrective Action Plan Addendum #3, Work Plan for Additional Enhanced In Situ Bioremediation and In Situ Chemical Reduction Activities Former Raytheon Facility (Hughes Missile Systems Company), 8433 Fallbrook Avenue, Canoga Park.* February 23.

_____. 2010. *Final Order – Termination of Waste Discharge Requirements for Former Hughes Missile System Company, 8433 Fallbrook Avenue, Canoga Park, California (Order No. R4-2010-0162, CI-7483).* September 16.

McLaren Hart. 1990. *Phase One Remedial Investigation at the Hughes Missile Systems Group Facility, Canoga Park, California.* December 14.

Oneida Total Integrated Enterprises, LLC (OTIE, 2012). *First Semiannual 2012 Groundwater Monitoring and Groundwater Remediation System Report, Former Raytheon Facility, Canoga Park, California*. November.

_____. 2013. *Enhanced In Situ Bioremediation and In Situ Chemical Reduction Progress Report, Fourth Quarter and 2012 Annual Summary*. February 15.

T N & Associates, Inc. (TN&A, 2007). *Annual Groundwater Monitoring and Groundwater Remediation System Report, January- December 2006, Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California*. January 15.

_____. 2008. *Corrective Action Plan Addendum #3, Work Plan for Additional Enhanced In Situ Bioremediation and In Situ Chemical Reduction Activities, Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California*. September.

FIGURES


SITE LOCATION
Fallbrook Avenue
Plummer St
Valley Circle Blvd
Lake Manor Dr
Alta Way
Nordhoff St
Osborne St
Roscoe Blvd
Burton St
Community St
Chase St
Eccles St
Schoenborn St
Hackney St
Lanark St
Strathern St
Arminta St
Ingomar St
Keswick St
Saticoy St
Covello St
Cohasset St
Leadwell St
Sherman Way
Gault St
Canoga Park
West Hills
WEST HILLS
Topanga Canyon Blvd
Canoga Ave
Owensmouth Ave
Lanark Park
27
Marilla St
Prairie St
Bryant St
Malden St
Chase St
Eccles St
Burton St
Cantara St
Elkwood St
Keswick St
Lull St
Covello St
Gifford St
Valerio St
Wyandotte St
Cantlay St
Sherman Way
Michale St
Bahama St
Gresham St
Londelius St
Schoenborn St
Nordhoff St
Plummer St
Itasca St
Needles St
Acorn St
Marilla St
Jordan Ave
Hanna Ave
Alabama Ave
Eton Ave
Remmet Ave
Deering Ave
Glade Ave
Sale Ave
Ponce Ave
Capistrano Ave
Sausalito Ave
Nita Ave
Rudnick Ave
Eatough Ave
Faust Ave
Mayfield Ave
McLaren Ave
Kentland Ave
Farralone Ave
Lena Ave
Ducor Ave
Quimby Ave
Sedan Ave
Bobbyboyar Ave
Atron Ave
Platt Ave
March Ave
Woodlake Ave
Royer Ave
Jason Ave
Jonathan St
Clemens Ave
Fable Ave
Nadir St
Denise Ln
Rayen St
Azul Dr
Homezell Dr
Jensen Dr
Valley Circle Blvd
Thompson Ave
Ventura Way
County Line Rd
Chaparral Rd
Leota Ln
Box Ca
Andora
Baden Ave
Nevada Ave
Vassar Ave
N Summit Ridge Cir
Plummer
Hanna Ave
Jordan Ave
Prairie St
Alabama Ave
Canoga Ave
Eton Ave
Owensmouth Ave
Bryant St
Malden St
Chase St
Eccles St
Schoenborn St
Hackney St
Topanga Canyon Blvd
Lanark St
Lanark Park
Remmet Ave
Canoga Ave
Arminta St
Alabama Ave
Elkwood St
Owensmouth Ave
Deering Ave
Glade Ave
Covello St
Cohasset St
Gifford St
Valerio St
Leadwell St
Wyandotte St
Cantlay St
Canoga Park
Eton Ave
Sherman Way
Gault St
Milwood Ave
Michale St
Faust Ave
Ponce Ave
Capistrano Ave
Rudnick Ave
Eatough Ave
Hanna Ave
Chase St
Eccles St
Schoenborn St
Hackney St
Fallbrook Avenue
Roscoe Blvd
Burton St
Cantara St
Lanark St
Baltar St
Strathern St
Arminta St
Ingomar St
Keswick St
Lull St
Saticoy St
Covello St
Cohasset St
Leadwell St
Sherman Way
West Hills
WEST HILLS
Topanga Canyon Blvd
Canoga Ave
Owensmouth Ave
Lanark Park
27
Jason Ave
Jonathan St
Clemens Ave
Fable Ave
Nadir St
Community St
Chase St
Denise Ln
Rayen St
Azul Dr
Homezell Dr
Jensen Dr
Valley Circle Blvd
Thompson Ave
Ventura Way
County Line Rd
Chaparral Rd
Leota Ln
Box Ca
Andora
Baden Ave
Needles St
Acorn St
Nevada Ave
Vassar Ave
Itasca St
Plummer St
N Summit Ridge Cir
Plummer
Hanna Ave
Jordan Ave
Prairie St
Alabama Ave
Canoga Ave
Eton Ave
Nordhoff St
Osborne St
Bahama St
Gresham St
Londelius St



Legend

- Property Line
- MW-# / CM-#: Groundwater Monitoring Well
- RW-#: Groundwater Recovery Well
- VW-#: Vapor Extraction Well
- MW-#: Former Hazardous Waste Storage Area Monitoring Well
- Groundwater Elevation Contour Line
- 808.09: Groundwater Elevation in feet above MSL (NGVD29) in Shallow Zone Well
- Apparent Groundwater Flow Direction and Gradient

Average Gradients

1.) Northwest portion of the site: 0.0182 ft/ft towards the west-southwest .
2.) North-Central and Northeast portions of the Site, the gradient ranged from 0.0212 ft/ft south to 0.0133 ft/ft southeast.

Notes

1.) Depth to water gauged 05/29/2012.
2.) Contour interval = 1 foot
3.) Contours represent approximate elevations above mean sea level.
4.) NA = not available. Well could not be gauged due to presence of substrate or water level was below the extraction pump.
5.) Some wells are screened in the deeper zones and therefore were not used in this shallow groundwater elevation map.

N

Approximate Scale in Feet

0 125 250 375

Figure 2
Site Plan Showing
Groundwater Gradient
May 29, 2012

Former Raytheon Facility
8433 Fallbrook Avenue
Canoga Park, California

OTIE
Oneida Total Integrated Enterprises

Date: 06/12/2012
File: RayCan 1SA12 GWE.dwg



Legend

Property Line	
MW-# CM-#	Groundwater Monitoring Well
MW-# CM-#	Abandoned Groundwater Monitoring Well
RW-#	Groundwater Recovery Well
RW-#	Abandoned Groundwater Recovery Well
VW-#	Abandoned Vapor Extraction Well
MW-#	Former Hazardous Waste Storage Area Monitoring Well
	Groundwater Elevation Contour Line
	Apparent Groundwater Flow Direction
808.09	Groundwater Elevation in feet above MSL (NGVD29) in Shallow Zone Well

Groundwater Gradients

1.) Northwest portion of the Site: 0.0143 ft/ft southwest to 0.016 ft/ft northeast.
2.) North-Central and Northeast portions of the Site: ranged from 0.138 ft/ft northwest to 0.020 ft/ft southwest to 0.021 ft/ft southeast.
3.) Southern portion of Site: 0.021 ft/ft to 0.0485 ft/ft southeast.

Notes

1.) Depth to water gauged 12/12/2012.
2.) Contour interval = 1 foot at the Northwest portion of the site and 5 foot at the Central-East and South portion.
3.) Contours represent approximate elevations above mean sea level.
4.) Wells screened in the deeper zones were not used in this shallow groundwater elevation map.

Approximate Scale in Feet

0 125 250 375

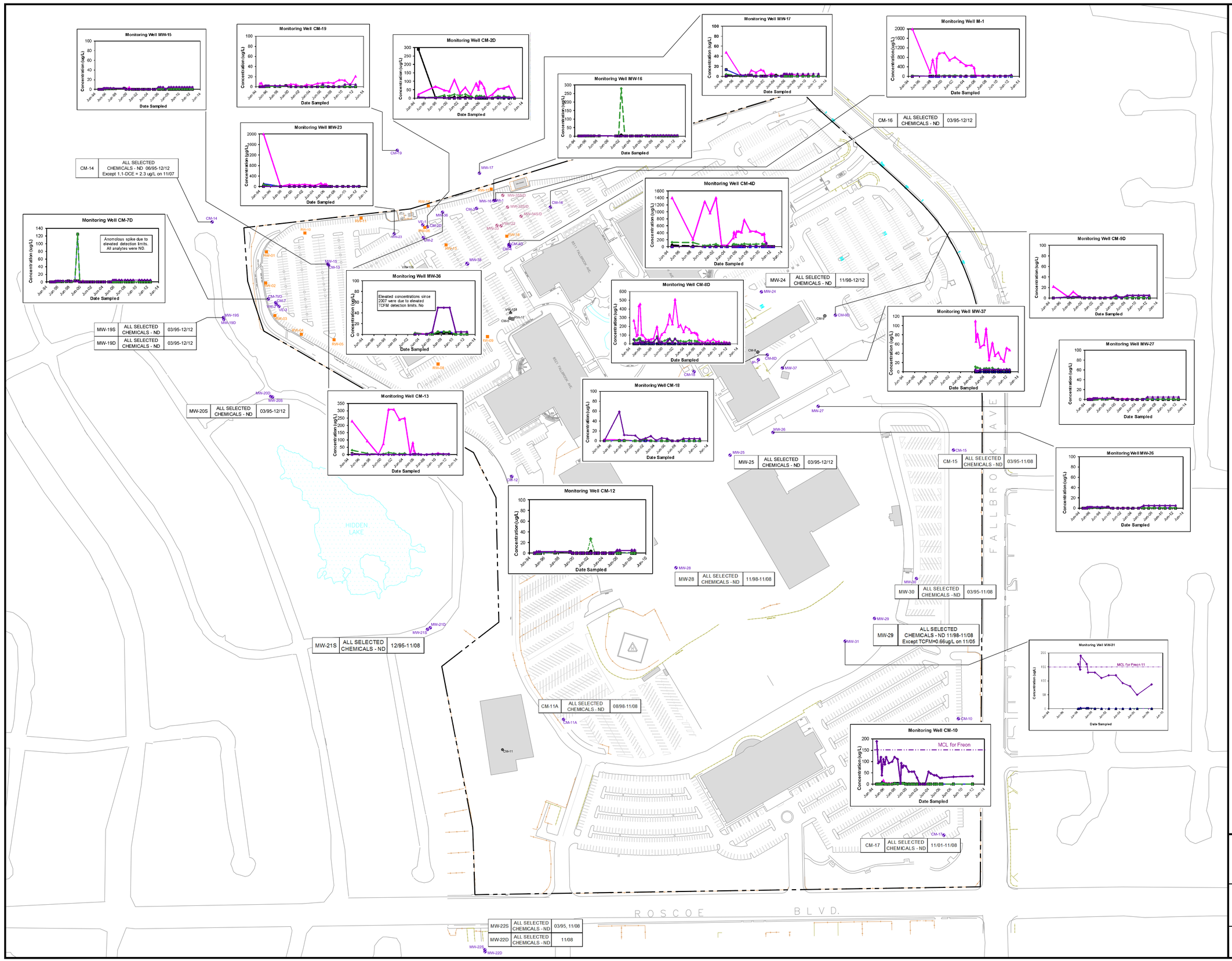
Figure 3
Site Plan Showing Groundwater Gradient
December 12, 2012

Former Raytheon Facility
8433 Fallbrook Avenue
Canoga Park, California

OTIE Oriental Total Integrated Enterprises

Date: January 8, 2013

File: RayCan A12 GWE.dwg



Legend

- Property Line
- MW-# / CM-# — Groundwater Monitoring Well
- MW-# / CM-# — Abandoned Groundwater Monitoring Well
- RW-# — Groundwater Recovery Well
- RW-# — Abandoned Groundwater Recovery Well
- VW-# — Abandoned Vapor Extraction Well
- MW-# — Former Hazardous Waste Storage Area Monitoring Well

Graph Legend

- Benzene
- Chloroform
- 1,1-Dichloroethane (DCA)
- 1,2-Dichloroethane (1,2-DCA)
- Tetrachloroethene (PCE)
- 1,1-Dichloroethene (DCE)
- 1,1,1-Trichloroethane (TCA)
- Toluene
- Trichloroethene (TCE)
- Trichloroflouromethane (TCFM or Freon-11)

WELL ID	SELECTED CHEMICAL	DATES

Selected Chemicals	Corrective Action Plan (CAP) Goals (ug/L)
1,1,1-Trichloroethane	1,000
1,1-Dichloroethane	50
1,1-Dichloroethene	60
1,2-Dichloroethane	5.0
Benzene	1.0
Chloroform	600
Freon 11	150
Tetrachloroethene	50
Toluene	500
Trichloroethene	50

Notes

1.) All concentrations in micrograms per liter.

2.) Most recent sampling event conducted December 2012.

3.) Non-detected values graphed as half the detection limit. See Table 3 for specific concentrations and detection units.

4.) ND = Not Detected above laboratory detection limits.

N

Approximate Scale in Feet

0 125 250 375

Figure 4
Site Plan Showing Selected Volatile Organic Compounds Versus Time in Groundwater

Former Canoga Park Facility
8433 Fallbrook Avenue
Canoga Park, California

OTIE
Oneida Total Integrated Enterprises

Date: March 1, 2012

File: RayCan_A11 Grphs.dwg

TABLES

TABLE 1A
DEPTH TO WATER AND GROUNDWATER ELEVATION DATA - May 29, 2012
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D.	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Screen Interval (ft, bgs)	Groundwater Elevation (ft, MSL)	Gauging Frequency	Sampling Frequency	Comments
M-1	--	882.42	50-70	--	SA	A	substrate in well
CM-2D	28.52	876.50	20-60	847.98	SA	A	
CM-4D	36.35	887.46	20-60	851.11	SA	A	
CM-7	18.51	859.88	19-39	841.37	EISB	NS	
CM-7D	15.90	859.79	70-75	843.89	SA	SA	
CM-8D	50.89	890.19	30-70	839.30	SA	SA	
CM-9D	32.60	873.29	20-60	840.69	SA	A	
CM-13	26.50	868.39	39-74	841.89	SA	A	
CM-14	16.54	858.65	18-33	842.11	SA	A	
CM-16	41.73	892.41	40-70	850.68	SA	SA	
CM-18	48.67	887.89	41-72	839.22	SA	A	
CM-19	61.62	908.17	69-99	846.55	SA	A	
MW-15	25.50	868.23	92-101.5	842.73	SA	SA	
MW-16	36.00	882.19	100-120	846.19	SA	SA	
MW-17	33.84	883.52	37-47	849.68	SA	A	
MW-19S	18.55	860.66	20-30	842.11	SA	SA	
MW-19D	10.88	860.38	80-100	849.50	SA	SA	
MW-20S	15.56	858.03	30-40	842.47	SA	SA	
MW-23	28.28	873.66	25-55	845.38	SA	A	
MW-24	39.58	877.29	35-65	837.71	SA	A	
MW-25	51.96	890.28	40-70	838.32	SA	A	
MW-26	47.37	885.50	40-70	838.13	SA	A	
MW-27	40.12	877.51	35-65	837.39	SA	A	
MW-32S	36.16	887.10	35-45	850.94	HWSA	HWSA	
MW-32D	36.56	887.05	50-55	850.49	HWSA	HWSA	
MW-33	35.75	885.40	49-59	849.65	HWSA	HWSA	
MW-34S	--	888.85	35-45	NA	HWSA	HWSA	water below pump
MW-34D	37.37	888.88	50-55	851.51	HWSA	HWSA	
MW-35S	--	887.35	35-45	NA	HWSA	HWSA	water below pump
MW-35D	36.93	887.34	50-55	850.41	HWSA	HWSA	
MW-36	36.00	879.28	30-40	843.28	SA	A	
MW-37	51.62	889.34	50-60	837.72	SA	A	
MW-38	32.89	881.91	40.5-60.5	849.02	EISB	EISB	
VW-109	21.22	--	12-27	--	EISB	EISB	
VW-121	33.32	883.44	28-43	850.12	HWSA	HWSA	
VW-122	34.33	885.43	25-40	851.10	HWSA	HWSA	
VW-126	20.52	862.08	15-30	841.56	EISB	EISB	
VW-127	22.75	864.79	15-30	842.04	EISB	EISB	
RW-01	19.95	860.71	10-50	840.76	SA	SA	

Notes:
1) ft = feet
2) TOC = top of well casing
3) MSL = Mean Sea Level, National Geodetic Vertical Datum of 1929 (NGVD29)
4) bgs = below ground surface
5) A = annual; SA = semiannual; HWSA = former hazardous waste storage area; EISB = EISB remedial progress monitoring event; NS = not required to be sampled
6) -- = data not available.

TABLE 1B
DEPTH TO WATER AND GROUNDWATER ELEVATION DATA - December 12, 2012
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D.	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Screen Interval (ft, bgs)	Groundwater Elevation (ft, MSL)	Gauging Frequency	Sampling Frequency	Comments
M-1	--	882.42	50-70	--	SA	A	Substrate in well
CM-2D	29.14	876.50	20-60	847.36	SA	A	
CM-4D	37.03	887.46	20-60	850.43	SA	EISB	
CM-7	19.38	859.88	19-39	840.50	EISB	NS	
CM-7D	16.48	859.79	70-75	843.31	SA	SA	
CM-8D	51.39	890.19	30-70	838.80	SA	SA	
CM-9D	32.71	873.29	20-60	840.58	SA	A	
CM-10	46.43	850.78	32-52	804.35	A	NS	
CM-11A	36.72	862.59	43-73	825.87	A	NS	
CM-12	36.22	875.80	46-66	839.58	A	NS	
CM-13	27.52	868.39	39-74	840.87	SA	A	
CM-14	17.52	858.65	18-33	841.13	SA	A	
CM-15	27.43	852.46	40-70	825.03	A	NS	
CM-16	41.94	892.41	40-70	850.47	SA	EISB	
CM-17	42.06	846.26	45-75	804.20	A	NS	
CM-18	48.81	887.89	41-72	839.08	SA	A	
CM-19	62.79	908.17	69-99	845.38	SA	A	
MW-15	26.36	868.23	92-101.5	841.87	SA	SA	
MW-16	36.72	882.19	100-120	845.47	SA	SA	
MW-17	34.85	883.52	37-47	848.67	SA	A	
MW-19S	16.23	860.66	20-30	844.43	SA	SA	
MW-19D	10.14	860.38	80-100	850.24	SA	SA	
MW-20S	16.37	858.03	30-40	841.66	SA	SA	
MW-20D	15.50	858.35	60-80	842.85	A	NS	
MW-21S	12.34	849.95	20-40	837.61	A	NS	
MW-21D	10.06	849.93	70-80	839.87	A	NS	
MW-22S	21.40	840.49	30-40	819.09	A	NS	
MW-22D	21.00	840.23	70-90	819.23	A	NS	
MW-23	29.20	873.66	25-55	844.46	SA	A	
MW-24	39.98	877.29	35-65	837.31	SA	A	
MW-25	52.40	890.28	40-70	837.88	SA	A	
MW-26	48.00	885.50	40-70	837.50	SA	A	
MW-27	40.63	877.51	35-65	836.88	SA	A	
MW-28	51.93	890.90	43-73	838.97	A	NS	Not resurveyed
MW-29	53.95	867.36	35-65	813.41	A	NS	
MW-30	43.51	858.11	28-58	814.60	A	NS	
MW-31	--	864.70	UNK	--	A	NS	Covered by car
MW-32S	36.60	887.10	35-45	850.50	HWSA	HWSA	
MW-32D	36.15	887.05	50-55	850.90	HWSA	HWSA	
MW-33	35.98	885.40	49-59	849.42	HWSA	HWSA	
MW-34S	--	888.85	35-45	--	HWSA	HWSA	water below pump
MW-34D	37.91	888.88	50-55	850.97	HWSA	HWSA	
MW-35S	--	887.35	35-45	--	HWSA	HWSA	water below pump
MW-35D	37.38	887.34	50-55	849.96	HWSA	HWSA	
MW-36	30.69	879.28	30-40	848.59	SA	A	
MW-37	52.38	889.34	50-60	836.96	SA	A	
MW-38	33.35	881.91	40.5-60.5	848.56	EISB	EISB	
MW-39	22.80	864.07	30-40	841.27	--	--	
MW-40	15.69	856.69	26-41	841.00	--	--	

TABLE 1B

DEPTH TO WATER AND GROUNDWATER ELEVATION DATA - December 12, 2012

Former Raytheon Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well I.D.	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Screen Interval (ft, bgs)	Groundwater Elevation (ft, MSL)	Gauging Frequency	Sampling Frequency	Comments
MW-41	22.35	863.54	25-40	841.19	--	--	
MW-42	21.22	860.47	25-40	839.25	--	--	
MW-43	14.15	855.36	26-41	841.21	--	--	
MW-44	15.14	855.23	26-41	840.09	--	--	
VW-122	34.91	885.43	25-40	850.52	HWSA	HWSA	
RW-01	20.61	860.71	10-50	840.10	SA	SA	
RW-11	25.62	869.17	25-65	843.55	SA	SA	
RW-14	27.22	874.37	10-50	847.15	SA	SA	

Notes:

1) ft = feet
2) TOC = top of well casing
3) MSL = Mean Sea Level, National Geodetic Vertical Datum of 1929 (NGVD29)
4) bgs = below ground surface
5) A = annual; SA = semiannual; HWSA = former hazardous waste storage area; EISB = EISB remedial progress monitoring event; NS = not required to be sampled
6) -- = data not available.

Table 1C
Well Construction and Survey Data
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California

Well Identification	Type	Date Installed	Drilling Method	Depth Zone/ Formation Screened	Northing or Latitude	Easting or Longitude	Top of Casing Elevation	Vault Cover Elevation	Casing Diameter (inches) & Type	Screen Interval (feet bgs)	Screen Slot Size (inches) & Type	Filter Pack Material	Constructed Total Depth (feet bgs)	Borehole Diameter (inches)
SITEWIDE MONITORING WELLS														
M-1	Monitoring Well	12/09/88	Air-rotary	Modelo	--	--	882.42	--	4, PVC	50-70	0.030, PVC	No. 3 Sand	70	10
CM-2	Monitoring Well	06/29/85	HSA	Modelo	--	--	879.15*	--	2, PVC	8.5-13.5	0.030, PVC	No. 3 Sand	13.5	9
CM-2D	Monitoring Well	07/17/90	HSA	Modelo	1037.507	762.816	876.50	--	4, SS	20-60	0.020, Wire-Wrap SS	No. 3 Sand	60	12
CM-3	Monitoring Well	06/29/85	HSA	Modelo	--	--	883.88*	--	2, PVC	8.8-13.8	0.030, PVC	No. 3 Sand	13.8	9
CM-4	Monitoring Well	06/29/85	HSA	Modelo	--	--	883.41*	--	2, PVC	5.8-9.0	0.030, PVC	No. 3 Sand	9	9
CM-4D	Monitoring Well	08/09/90	Mud rotary	Modelo	907.386	980.709	887.46	--	4, SS	20-60	0.020, Wire-Wrap SS	No. 3 Sand	60	12
CM-5	Monitoring Well	06/29/85	HSA	Alluvium	792.282	1008.736	884.90	--	2, PVC	27.1-37.1	0.030, PVC	No. 3 Sand	37.1	9
CM-6D	Monitoring Well	07/26/90	HSA	Modelo	652.125	738.150	876.55	--	4, SS	30-70	0.020, Wire-Wrap SS	No. 3 Sand	70	12
CM-7	Monitoring Well	06/30/85	HSA	Alluvium	958.807	261.382	859.88	--	2, PVC	19-39	0.030, PVC	No. 3 Sand	39	9
CM-7I	Monitoring Well	12/14/92	HSA	Alluvium	971.037	239.806			3, PVC	52-62	0.030, PVC	No. 3 Sand	62	14
CM-7D	Monitoring Well	12/14/92	HSA	Modelo	971.037	239.806	859.79	--	3, PVC	70-75	0.020, PVC	--	75	14
CM-8	Monitoring Well	06/30/85	HSA	Modelo	--	--	885.35*	--	2, PVC	8.5-13.5	0.030, PVC	No. 3 Sand	13.5	9
CM-8D	Monitoring Well	06/19/90	HSA	Modelo	358.921	1620.624	885.52	--	4, SS	30-70	0.020, Wire-Wrap SS	No. 3 Sand	70	12
CM-9	Monitoring Well	06/28/85	HSA	Modelo	--	--	873.22*	--	2, PVC	17.7-27.7	0.030, PVC	No. 3 Sand	27.7	9
CM-9D	Monitoring Well	07/30/90	Mud rotary	Modelo	--	--	873.29	--	4, SS	20-60	0.020, Wire-Wrap SS	No. 3 Sand	60	12
CM-10	Monitoring Well	06/28/85	HSA	Modelo	-860.722	1836.996	850.78	--	2, PVC	32-52	0.030, PVC	No. 3 Sand	52	9
CM-11	Monitoring Well	11/16/88	HSA	Alluvium	-531.596	500.084	--	--	--	--	--	--	--	--
CM-11A	Monitoring Well	--	--	Alluvium	34.221	118.628	862.59	863.04	4, PVC	43-73	0.020, PVC	--	73	10
CM-12	Monitoring Well	11/18/88	HSA	Alluvium	34.223	118.629	875.80	876.08	4, PVC	46-66	0.030, PVC	No. 3 Sand	65.5	10
CM-13	Monitoring Well	11/21/88	HSA	Alluvium	1015.209	443.494	868.39	--	4, PVC	39-74	0.030, PVC	No. 3 Sand	74	10
CM-14	Monitoring Well	11/10/88	HSA	Alluvium	1263.516	55.511	858.65	--	4, PVC	18-33	0.030, PVC	No. 3 Sand	33	10
CM-15	Monitoring Well	09/24/91	HSA	Modelo	34.223	118.624	852.46	852.80	4, SS	40-70	0.020, Wire-Wrap SS	No. 2/12 Sand	70	10
CM-16	Monitoring Well	09/26/91	HSA	Modelo	34.225	118.628	892.41	892.68	4, SS	40-70	0.020, Wire-Wrap SS	No. 2/12 Sand	70	10
CM-17	Monitoring Well	09/27/91	HSA	Alluvium	34.220	118.624	846.26	846.77	4, SS	45-75	0.020, Wire-Wrap SS	No. 2/12 Sand	75	10
CM-18	Monitoring Well	09/30/91	HSA	Modelo	34.224	118.626	887.89	888.66	4, SS	41-72	0.020, Wire-Wrap SS	No. 2/12 Sand	70	10
CM-19	Monitoring Well	--	--	Alluvium	1326.088	687.961	908.17	--	4, PVC	69-99	0.020, PVC	--	99	10
MW-15	Monitoring Well	08/03/90	Mud rotary	Modelo	1018.556	442.350	868.23	--	4, SS	92-101.5	0.020, Wire-Wrap SS	No. 3 Sand	101.5	10
MW-16	Monitoring Well	07/20/90	Mud rotary	Modelo	1067.147	883.391	882.19	--	4, SS	100-120	0.020, Wire-Wrap SS	No. 3 Sand	120	10
MW-17	Monitoring Well	07/10/90	HSA	Alluvium	1143.878	960.388	883.52	--	2, SS	37-47	0.020, Wire-Wrap SS	No. 3 Sand	47	10
MW-19S	Monitoring Well	06/20/90	HSA	Alluvium	963.068	93.078	860.66	--	2, SS	20-30	0.020, Wire-Wrap SS	No. 3 Sand	30	10
MW-19D	Monitoring Well	06/20/90	HSA	Alluvium	958.817	92.700	860.38	--	2, SS	80-100	0.020, Wire-Wrap SS	No. 3 Sand	100	10
MW-20S	Monitoring Well	06/15/90	HSA	Alluvium	690.555	160.819	858.03	--	2, SS	30-40	0.020, Wire-Wrap SS	No. 3 Sand	40	10
MW-20D	Monitoring Well	06/18/90	HSA	Alluvium	693.120	157.087	858.35	--	2, SS	60-80	0.020, Wire-Wrap SS	No. 3 Sand	80	10
MW-21S	Monitoring Well	07/10/90	HSA	Alluvium	-119.072	394.180	849.95	--	2, SS	20-40	0.020, Wire-Wrap SS	No. 3 Sand	40	10
MW-21D	Monitoring Well	06/27/90	HSA	Modelo	-117.094	403.712	849.93	--	2, SS	70-80	0.020, Wire-Wrap SS	No. 3 Sand	80	10
MW-22S	Monitoring Well	06/13/90	HSA	Alluvium	--	--	840.49	--	2, SS	30-40	0.020, Wire-Wrap SS	No. 3 Sand	40	10
MW-22D	Monitoring Well	06/12/90	HSA	Alluvium	--	--	840.23	--	2, SS	70-90	0.020, Wire-Wrap SS	No. 3 Sand	90	10
MW-23	Monitoring Well	09/25/91	HSA	Modelo	34.225	118.629	873.66	874.22	4, SS	25-55	0.020, Wire-Wrap SS	No. 2/12 Sand	55	10
MW-24	Monitoring Well	08/25/93	HSA	Modelo	34.224	118.626	877.29	877.66	4, PVC	35-65	0.020, PVC	No. 2/12 Sand	65	10
MW-25	Monitoring Well	08/23/93	HSA	Modelo	34.223	118.626	890.28	890.72	4, PVC	40-70	0.020, PVC	No. 2/12 Sand	70	10
MW-26	Monitoring Well	08/23/93	HSA	Modelo	130.661	1566.226	885.50	--	4, PVC	40-70	0.020, PVC	No. 2/12 Sand	70	10
MW-27	Monitoring Well	08/24/93	HSA	Modelo	164.493	1719.764	877.51	--	4, PVC	35-65	0.020, PVC	No. 2/12 Sand	65	10
MW-28	Monitoring Well	08/25/93	HSA	Modelo	-169.463	1164.285	890.90	--	4, PVC	43-73	0.020, PVC	No. 2/12 Sand	73	10

Table 1C
Well Construction and Survey Data
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California

Well Identification	Type	Date Installed	Drilling Method	Depth Zone/ Formation Screened	Northing or Latitude	Easting or Longitude	Top of Casing Elevation	Vault Cover Elevation	Casing Diameter (inches) & Type	Screen Interval (feet bgs)	Screen Slot Size (inches) & Type	Filter Pack Material	Constructed Total Depth (feet bgs)	Borehole Diameter (inches)
MW-29	Monitoring Well	08/27/93	HSA	Modelo	-496.477	1687.823	867.36	--	4, PVC	35-65	0.020, PVC	No. 2/12 Sand	65	10
MW-30	Monitoring Well	08/27/93	HSA	Modelo	-419.821	1844.456	858.11	--	4, PVC	28-58	0.020, PVC	No. 2/12 Sand	58	10
MW-31	Monitoring Well	--	--	Modelo	--	--	864.70	--	--	--	--	--	--	--
MW-36	Monitoring Well	12/01/01	--	Modelo	34.225	118.629	879.28	879.65	4, PVC	30-40	0.010, PVC	--	40	--
MW-37	Monitoring Well	12/18/06	HSA	Shallow	34.224	118.626	889.34	889.73	4, PVC	50-60	0.010, PVC	No. 2/16 Sand	60	12
MW-38	Monitoring Well	04/25/11	HSA	Shallow	1904740.790	6371600.780	881.91	882.18	4, PVC	40.8-60.2	0.010, PVC	No. 2/16 Sand	60.7	10.5
MW-39	Monitoring Well	10/09/12	DPT	--	1904855.887	6371062.540	863.76	864.07	3/4, PVC	30-40	0.010, PVC	No. 2/16 Sand	40	2.25
MW-40	Monitoring Well	10/09/12	DPT	--	1904843.476	6370967.894	856.54	856.69	3/4, PVC	26-41	0.010, PVC	No. 2/16 Sand	41	2.25
MW-41	Monitoring Well	10/10/12	DPT	--	1904812.664	6370997.975	863.34	863.54	3/4, PVC	25-40	0.010, PVC	No. 2/16 Sand	40	2.25
MW-42	Monitoring Well	10/10/12	DPT	--	1904791.880	6370955.788	860.25	860.47	3/4, PVC	25-40	0.010, PVC	No. 2/16 Sand	40	2.25
MW-43	Monitoring Well	11/29/12	DPT	--	1904514.497	6371072.451	855.01	855.36	3/4, PVC	26-41	0.010, PVC	No. 2/16 Sand	41	2.25
MW-44	Monitoring Well	11/29/12	DPT	--	1904479.560	6371119.683	854.98	855.23	3/4, PVC	26-41	0.010, PVC	No. 2/16 Sand	41	2.3
FORMER HAZARDOUS WASTE STORAGE AREA MONITORING WELLS														
MW-32S	Monitoring Well - HWSA	06/01/02	HSA	Shallow	1021.581	1010.198	887.10	887.53	2, PVC	35-45	0.020, PVC	No. 3 Sand	45	10
MW-32D	Monitoring Well - HWSA	06/01/02	HSA	Deep	1021.699	1010.422	887.05	887.53	2, PVC	50-55	0.020, PVC	No. 3 Sand	55	10
VW-122	Monitoring Well - HWSA	--	--	Shallow	973.799	972.572	885.43	--	3, PVC	25-40	0.020 V-Wrap	--	40	10
MW-33	Monitoring Well - HWSA	06/01/02	HSA	Deep	978.450	963.839	885.40	885.71	2, PVC	49-59	0.020, PVC	No. 3 Sand	59	10
MW-34S	Monitoring Well - HWSA	06/01/02	HSA	Shallow	983.403	1041.036	888.85	889.22	2, PVC	35-45	0.020, PVC	No. 3 Sand	45	10
MW-34D	Monitoring Well - HWSA	06/01/02	HSA	Deep	983.399	1041.338	888.88	889.22	2, PVC	50-55	0.020, PVC	No. 3 Sand	55	10
MW-35S	Monitoring Well - HWSA	06/01/02	HSA	Shallow	1059.600	1007.238	887.35	887.70	2, PVC	35-45	0.020, PVC	No. 3 Sand	45	10
MW-35D	Monitoring Well - HWSA	06/01/02	HSA	Deep	1059.679	1007.493	887.34	887.70	2, PVC	50-55	0.020, PVC	No. 3 Sand	55	10
GROUNDWATER RECOVERY WELLS														
RW-01	Recovery Well	01/04/93	HSA	Alluvium	34.225	118.631	860.71	861.56	6	10-50	0.020, PVC	No. 3 Sand	50	14
RW-02	Recovery Well	12/21/92	HSA	Alluvium	1018.904	248.292	--	--	4	10-50	0.020, Wire-Wrap SS	No. 3 Sand	50	14
RW-03	Recovery Well	12/21/92	HSA	Alluvium	919.747	243.929	--	--	6	10-50	0.020, PVC	No. 3 Sand	50	14
RW-04	Recovery Well	12/22/92	HSA	Alluvium	840.980	302.030	--	--	6	10-50	0.020, PVC	No. 3 Sand	50	14
RW-05	Recovery Well	01/04/93	HSA	Alluvium	804.119	401.320	--	--	6	10-50	0.020, PVC	No. 3 Sand	50	14
RW-06	Recovery Well	03/25/93	HSA	Modelo	1037.890	758.983	--	--	5, PVC	19-69	0.020, PVC	No. 3 Sand	70	12
RW-07	Recovery Well	--	HSA	Modelo	755.186	533.602	--	--	5	20-60	0.020 V-Wrap	--	65	--
RW-08	Recovery Well	--	HSA	Modelo	633.459	668.750	--	--	5	25-65	0.020 V-Wrap	--	70	--
RW-09	Recovery Well	--	HSA	Modelo	668.127	835.536	--	--	5	25-65	0.020 V-Wrap	--	70	--
RW-10	Recovery Well	--	HSA	Modelo	1129.300	405.545	--	--	5	15-55	0.020 V-Wrap	--	60	--
RW-11	Recovery Well	--	HSA	Modelo	1904880.922	6371281.813	866.75	869.17	5	25-65	0.020 V-Wrap	--	70	--
RW-12	Recovery Well	Abandoned	HSA	Modelo	919.251	599.028	--	--	5	20-60	0.020 V-Wrap	--	60	--
RW-13	Recovery Well	--	HSA	Modelo	968.807	798.410	--	--	5	25-65	0.020 V-Wrap	--	70	--
RW-14	Recovery Well	--	HSA	Modelo	1904916.827	6371485.004	870.18	874.37	5	15-55	0.020 V-Wrap	--	60	--
RW-15	Recovery Well	--	HSA	Modelo	1089.803	979.441	--	--	5	29-69	0.020 V-Wrap	--	74	--
RW-16	Recovery Well	--	HSA	Modelo	940.407	981.779	--	--	5	25-65	0.020 V-Wrap	--	70	--
RW-17	Recovery Well	Abandoned	HSA	Modelo	792.545	1016.686	--	--	5	25-65	0.020 V-Wrap	--	70	--

Table 1C
Well Construction and Survey Data
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California

Well Identification	Type	Date Installed	Drilling Method	Depth Zone/ Formation Screened	Northing or Latitude	Easting or Longitude	Top of Casing Elevation	Vault Cover Elevation	Casing Diameter (inches) & Type	Screen Interval (feet bgs)	Screen Slot Size (inches) & Type	Filter Pack Material	Constructed Total Depth (feet bgs)	Borehole Diameter (inches)
VAPOR EXTRACTION WELLS AND AIR SPARGE/INJECTION WELLS														
IP-01	Injection Well	12/28/06	HSA	--	35.223900	118.625852	886.62	886.93	2, PVC	50 - 70	0.020, PVC	No. 2/16 Sand	70	
IP-02	Injection Well	09/10/12	HSA	--	1904922.694	6371548.313	880.13	880.56	2, PVC	45.3 - 59.9	0.020, PVC	No. 2/12 Sand	60.3	8.5
IP-03	Injection Well	09/11/12	HSA	--	1904931.503	6371581.218	881.92	882.30	2, PVC	45.9 - 60.3	0.020, PVC	No. 2/12 Sand	60.8	8.5
IP-04	Injection Well	09/12/12	HSA	--	1904946.166	6371635.798	884.46	884.88	2, PVC	46.7 - 61.3	0.020, PVC	No. 2/12 Sand	61.7	8.5
IP-05	Injection Well	09/12/12	HSA	--	1904930.985	6371640.864	884.14	884.55	2, PVC	46 - 60.5	0.020, PVC	No. 2/12 Sand	61.0	8.5
IP-06	Injection Well	09/13/12	HSA	--	1904911.039	6371650.127	883.76	884.30	2, PVC	46 - 60.5	0.020, PVC	No. 2/12 Sand	61.0	8.5
IP-07	Injection Well	04/26/11	HSA	--	1904830.53	6371723.53	887.23	887.55	2, PVC	40.7-60.2	0.020, PVC	No. 2/12 Sand	60.7	8.5
IP-08	Injection Well	04/27/11	HSA	--	1904812.74	6371731.43	887.76	888.04	2, PVC	40.9-60.4	0.020, PVC	No. 2/12 Sand	60.9	8.5
IP-09	Injection Well	04/27/11	HSA	--	1904805.74	6371736.45	888.07	888.39	2, PVC	40.8-60.2	0.020, PVC	No. 2/12 Sand	60.6	8.5
IP-10	Injection Well	04/28/11	HSA	--	1904793.08	6371741.11	888.45	888.67	2, PVC	40.9-60.4	0.020, PVC	No. 2/12 Sand	60.9	8.5
IP-HWSA-01	Injection Well	06/04/10	HSA	--	1904914.47	6371718.62	887.04	--	2, CPVC	33.5-52.8	0.020, CPVC	No. 2/12 Sand	53.2	8
IP-HWSA-02	Injection Well	06/04/10	HSA	--	1904914.96	6371728.34	887.45	--	2, CPVC	34.8-54.0	0.020, CPVC	No. 2/12 Sand	54.5	8
IP-HWSA-03	Injection Well	06/03/10	HSA	--	1904913.91	6371740.22	888.00	--	2, CPVC	33.3-52.5	0.020, CPVC	No. 2/12 Sand	53.0	8
IP-HWSA-04	Injection Well	06/03/10	HSA	--	1904915.02	6371748.57	888.28	--	2, CPVC	34.8-54.0	0.020, CPVC	No. 2/12 Sand	54.5	8
VE-1	Extraction/Injection Well	03/29/93	HSA	Vadose/Shallow	1046.448	750.162	--	--	4, PVC	20-50	0.020, PVC	No. 2/12 Sand	50	10
VE-2	Extraction/Injection Well	03/24/93	HSA	Vadose/Shallow	34.224	118.631	--	--	4, PVC	10-30	0.020, PVC	No. 2/12 Sand	30	10
VE-3	Extraction/Injection Well	03/24/93	HSA	Vadose/Shallow	940.523	263.689	--	--	4, PVC	10-30	0.020, PVC	No. 2/12 Sand	30	10
VP-1	Extraction/Injection Well	03/30/93	HSA	Vadose/Shallow	--	--	--	--	2, PVC	19-21', 29-31', 39-41'	0.020, PVC	No. 2/12 Sand	42	8
AS-1	Extraction/Injection Well	03/24/93	HSA	Vadose/Shallow	--	--	--	--	2, PVC	55-60'	0.020, PVC	No. 2/12 Sand	60	8
VW-101	Vapor Extraction	--	--	Vadose/Shallow	1107.971	660.632	--	--	3, PVC	20-35	0.020 V-Wrap	--	35	--
VW-102	Vapor Extraction	--	--	Vadose/Shallow	--	--	--	--	3, PVC	20-35	0.020 V-Wrap	--	35	--
VW-103	Vapor Extraction	--	--	Vadose/Shallow	950.633	583.547	--	--	3, PVC	19-34	0.020 V-Wrap	--	35	--
VW-104	Vapor Extraction	--	--	Vadose/Shallow	931.870	662.512	--	--	3, PVC	20-35	0.020 V-Wrap	--	35	--
VW-105	Vapor Extraction	--	--	Vadose/Shallow	935.929	696.421	--	--	3, PVC	20-35	0.020 V-Wrap	--	35	--
VW-106	Vapor Extraction	--	--	Vadose/Shallow	1054.484	595.583	--	--	3, PVC	19-34	0.020 V-Wrap	--	35	--
VW-107	Vapor Extraction	--	--	Vadose/Shallow	1117.316	585.559	--	--	3, PVC	20-35	0.020 V-Wrap	--	35	--
VW-108	Vapor Extraction	--	--	Vadose/Shallow	1119.029	469.482	--	--	3, PVC	13-28	0.020 V-Wrap	--	30	--
VW-109	Vapor Extraction	--	--	Vadose/Shallow	1126.484	347.122	--	--	3, PVC	12-27	0.020 V-Wrap	--	29	--
VW-110	Vapor Extraction	--	--	Vadose/Shallow	1067.342	299.870	--	--	3, PVC	10.5-25.5	0.020 V-Wrap	--	27.5	--
VW-111	Vapor Extraction	--	--	Vadose/Shallow	941.324	299.160	--	--	3, PVC	12.5-27.5	0.020 V-Wrap	--	30	--
VW-112	Vapor Extraction	--	--	Vadose/Shallow	890.339	359.142	--	--	3, PVC	12-27	0.020 V-Wrap	--	30	--
VW-113	Vapor Extraction	--	--	Vadose/Shallow	881.044	481.224	--	--	3, PVC	14.5-29.5	0.020 V-Wrap	--	30	--
VW-114	Vapor Extraction	--	--	Vadose/Shallow	--	--	--	--	3, PVC	20-35	0.020 V-Wrap	--	35	--
VW-115	Vapor Extraction	--	--	Vadose/Shallow	1094.711	856.022	--	--	3, PVC	20-35	0.020 V-Wrap	--	35	--
VW-116	Vapor Extraction	--	--	Vadose/Shallow	973.772	785.667	--	--	3, PVC	26-41	0.020 V-Wrap	--	41	--
VW-117	Vapor Extraction	--	--	Vadose/Shallow	994.906	857.937	--	--	3, PVC	20-35	0.020 V-Wrap	--	35	--
VW-118	Vapor Extraction	--	--	Vadose/Shallow	996.309	912.496	--	--	3, PVC	20-35	0.020 V-Wrap	--	37	--
VW-119	Vapor Extraction	--	--	Vadose/Shallow	1086.950	918.102	879.89	885.04	3, PVC	25-40	0.020 V-Wrap	--	41	--
VW-120	Vapor Extraction	--	--	Vadose/Shallow	1090.059	995.265	--	--	3, PVC	31-46	0.020 V-Wrap	--	46	--
VW-121	Vapor Extraction	--	--	Vadose/Shallow	1041.959	984.418	883.44	887.05	3, PVC	28-43	0.020 V-Wrap	--	44	--
VW-122	Vapor Extraction	--	--	Vadose/Shallow	973.858	972.665	885.43	--	3, PVC	25-40	0.020 V-Wrap	--	40	--
VW-123	Vapor Extraction	--	--	Vadose/Shallow	887.435	994.429	--	--	3, PVC	25-40	0.020 V-Wrap	--	40	--
VW-124	Vapor Extraction	--	--	Vadose/Shallow	806.454	1011.436	--	--	3, PVC	25-40	0.020 V-Wrap	--	40	--
VW-126	Vent	12/01/01	--	Vadose/Shallow	34.225	118.631	862.08	862.59	2, PVC	15-30	0.020, PVC	--	30	--
VW-127	Vent	12/01/01	--	Vadose/Shallow	34.225	118.630	864.79	865.48	2, PVC	15-30	0.020, PVC	--	30	--
VW-128	Vent	12/01/01	--	Vadose/Shallow	34.225	118.630	869.99	870.39	2, PVC	15-30	0.020, PVC	--	30	--

Table 1C
Well Construction and Survey Data
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California

Well Identification	Type	Date Installed	Drilling Method	Depth Zone/ Formation Screened	Northing or Latitude	Easting or Longitude	Top of Casing Elevation	Vault Cover Elevation	Casing Diameter (inches) & Type	Screen Interval (feet bgs)	Screen Slot Size (inches) & Type	Filter Pack Material	Constructed Total Depth (feet bgs)	Borehole Diameter (inches)
	Dual Completion:								--	--	--			
SW/VW-1	Sparge	--	--	--	--	--	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	--	--	--	--	3, PVC	15-30	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-2	Sparge	--	--	--	--	--	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	--	--	--	--	3, PVC	15-30	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-3	Sparge	--	--	--	1087.427	628.322	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	1087.427	628.322	--	--	3, PVC	15-30	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-4	Sparge	--	--	--	1026.403	625.314	--	--	2, PVC	520-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	1026.403	625.314	--	--	3, PVC	15-30	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-5	Sparge	--	--	--	1020.702	678.838	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	1020.702	678.838	--	--	3, PVC	20-35	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-6	Sparge	--	--	--	995.453	656.112	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	995.453	656.112	--	--	3, PVC	20-35	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-7	Sparge	--	--	--	965.973	623.700	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	965.673	623.700	--	--	3, PVC	15-30	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-8	Sparge	--	--	--	963.381	687.862	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	963.381	687.862	--	--	3, PVC	20-35	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-9	Sparge	--	--	--	944.586	529.993	--	--	2, PVC	50.5-55.5	0.015 V-Wrap	--	55.5	--
	Vapor Extraction	--	--	--	944.586	529.993	--	--	3, PVC	15-30	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW-VW-10	Sparge	--	--	--	1062.099	515.378	--	--	2, PVC	50-55	0.015 V-Wrap	--	5	--
	Vapor Extraction	--	--	--	1062.099	515.378	--	--	3, PVC	15-30	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-11	Sparge	--	--	--	1065.597	406.187	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	1065.597	406.187	--	--	3, PVC	15-30	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-12	Sparge	--	--	--	1004.128	469.309	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	1004.128	469.309	--	--	3, PVC	15-30	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-13	Sparge	--	--	--	1004.785	354.984	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	1004.785	354.984	--	--	3, PVC	156-30	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-14	Sparge	--	--	--	1005.684	468.159	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	1005.684	468.159	--	--	3, PVC	15-35	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SWVW-15	Sparge	--	--	--	1054.597	725.825	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	1054.597	725.825	--	--	3, PVC	20-35	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-16	Sparge	--	--	--	1024.616	753.671	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	1024.616	753.671	--	--	3, PVC	20-35	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-17	Sparge	--	--	--	994.563	724.966	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	994.563	724.966	--	--	3, PVC	20-35	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-18	Sparge	--	--	--	1051.697	792.978	--	--	2, PVC	55-60	0.015 V-Wrap	--	60	--
	Vapor Extraction	--	--	--	1051.697	792.978	--	--	3, PVC	20-35	0.020	--	--	--

Table 1C
Well Construction and Survey Data
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California

Well Identification	Type	Date Installed	Drilling Method	Depth Zone/ Formation Screened	Northing or Latitude	Easting or Longitude	Top of Casing Elevation	Vault Cover Elevation	Casing Diameter (inches) & Type	Screen Interval (feet bgs)	Screen Slot Size (inches) & Type	Filter Pack Material	Constructed Total Depth (feet bgs)	Borehole Diameter (inches)
	Dual Completion:								--	--	--	--	--	--
SW/VW-19	Sparge	--	--	--	1074.749	760.619	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	1074.749	760.619	--	--	3, PVC	20-35	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-20	Sparge	--	--	--	1072.712	824.592	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	1072.712	824.592	--	--	3, PVC	20-35	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-21	Sparge	--	--	--	990.478	783.488	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	990.478	783.488	--	--	3, PVC	20-35	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-22	Sparge	--	--	--	975.336	797.490	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	975.336	797.490	--	--	3, PVC	20-35	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-23	Sparge	--	--	--	1018.799	825.091	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	1018.799	825.091	--	--	3, PVC	20-35	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-24	Sparge	--	--	--	--	--	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	--	--	--	--	3, PVC	20-35	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-25	Sparge	--	--	--	1017.353	884.375	--	--	2, PVC	55-60	0.015 V-Wrap	--	60	--
	Vapor Extraction	--	--	--	1017.353	884.375	--	--	3, PVC	23-38	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-26	Sparge	--	--	--	1043.431	922.923	--	--	2, PVC	55-60	0.015 V-Wrap	--	60	--
	Vapor Extraction	--	--	--	1043.431	922.923	--	--	3, PVC	25-40	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-27	Sparge	--	--	--	1063.559	892.836	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	1063.559	892.830	--	--	3, PVC	20-35	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-28	Sparge	--	--	--	--	--	--	--	2, PVC	55-60	0.015 V-Wrap	--	60	--
	Vapor Extraction	--	--	--	--	--	--	--	3, PVC	25-40	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-29	Sparge	--	--	--	1013.645	939.760	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	1013.645	939.760	--	--	3, PVC	20-35	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-30	Sparge	--	--	--	995.435	591.630	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--			--	--	3, PVC	15-30	0.020	--	--	--
S-1	Sparge	12/01/01	--	Shallow	34.2247756	118.6307196	--	862.73	1	29 - 30	0.01	--	30	--
				Mid	34.2247756	118.6307196	--	862.73	1	39 - 40	0.01	--	40	--
				Deep	34.2247756	118.6307196	--	862.73	1	49 - 50	0.01	--	50	--
S-2	Sparge	12/01/01	--	Shallow	34.2248475	118.6306458	--	863.44	1	29 - 30	0.01	--	30	--
				Mid	34.2248475	118.6306458	--	863.44	1	39 - 40	0.01	--	40	--
				Deep	34.2248475	118.6306458	--	863.44	1	49 - 50	0.01	--	50	--
S-3	Sparge	12/01/01	--	Shallow	34.2249103	118.6305517	--	864.24	1	29 - 30	0.01	--	30	--
				Mid	34.2249103	118.6305517	--	864.24	1	39 - 40	0.01	--	40	--
				Deep	34.2249103	118.6305517	--	864.24	1	49 - 50	0.01	--	50	--
S-4	Sparge	12/01/01	--	Shallow	34.2249580	118.6304437	--	865.14	1	29 - 30	0.01	--	30	--
				Mid	34.2249580	118.6304437	--	865.14	1	39 - 40	0.01	--	40	--
				Deep	34.2249580	118.6304437	--	865.14	1	49 - 50	0.01	--	50	--
S-5	Sparge	12/01/01	--	Shallow	34.2249696	118.6303154	--	866.48	1	29 - 30	0.01	--	30	--
				Mid	34.2249696	118.6303154	--	866.48	1	39 - 40	0.01	--	40	--
				Deep	34.2249696	118.6303154	--	866.48	1	49 - 50	0.01	--	50	--
S-6	Sparge	12/01/01	--	Shallow	34.2249811	118.6302014	--	867.84	1	29 - 30	0.01	--	30	--
				Mid	34.2249811	118.6302014	--	867.84	1	39 - 40	0.01	--	40	--
				Deep	34.2249811	118.6302014	--	867.84	1	49 - 50	0.01	--	50	--

Table 1C
Well Construction and Survey Data
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California

Well Identification	Type	Date Installed	Drilling Method	Depth Zone/ Formation Screened	Northing or Latitude	Easting or Longitude	Top of Casing Elevation	Vault Cover Elevation	Casing Diameter (inches) & Type	Screen Interval (feet bgs)	Screen Slot Size (inches) & Type	Filter Pack Material	Constructed Total Depth (feet bgs)	Borehole Diameter (inches)
S-7	Sparge	12/01/01	--	Shallow	34.2249925	118.6300808	--	869.14	1	29 - 30	0.01	--	30	--
				Mid	34.2249925	118.6300808	--	869.14	1	39 - 40	0.01	--	40	--
				Deep	34.2249925	118.6300808	--	869.14	1	49 - 50	0.01	--	50	--
S-8	Sparge	12/01/01	--	Shallow	34.2250038	118.6299665	--	870.13	1	29 - 30	0.01	--	30	--
				Mid	34.2250038	118.6299665	--	870.13	1	39 - 40	0.01	--	40	--
				Deep	34.2250038	118.6299665	--	870.13	1	49 - 50	0.01	--	50	--
S-9	Sparge	12/01/01	--	Shallow	34.2250135	118.6298469	--	871.31	1	29 - 30	0.01	--	30	--
				Mid	34.2250135	118.6298469	--	871.31	1	39 - 40	0.01	--	40	--
				Deep	34.2250135	118.6298469	--	871.31	1	49 - 50	0.01	--	50	--
S-10	Sparge	12/01/01	--	Shallow	34.2250236	118.6297300	--	872.23	1	29 - 30	0.01	--	30	--
				Mid	34.2250236	118.6297300	--	872.23	1	39 - 40	0.01	--	40	--
				Deep	34.2250236	118.6297300	--	872.23	1	49 - 50	0.01	--	50	--
S-11	Sparge	12/01/01	--	Shallow	34.2250373	118.6296110	--	873.09	1	34 - 35	0.01	--	35	--
				Mid	34.2250373	118.6296110	--	873.09	1	42 - 43	0.01	--	43	--
				Deep	34.2250373	118.6296110	--	873.09	1	49 - 50	0.01	--	50	--
S-12	Sparge	12/01/01	--	Shallow	34.2250152	118.6294952	--	873.71	1	34 - 35	0.01	--	35	--
				Mid	34.2250152	118.6294952	--	873.71	1	42 - 43	0.01	--	43	--
				Deep	34.2250152	118.6294952	--	873.71	1	49 - 50	0.01	--	50	--
S-13	Sparge	12/01/01	--	Shallow	34.2250241	118.6293603	--	874.93	1	34 - 35	0.01	--	35	--
				Mid	34.2250241	118.6293603	--	874.93	1	42 - 43	0.01	--	43	--
				Deep	34.2250241	118.6293603	--	874.93	1	49 - 50	0.01	--	50	--
S-14	Sparge	12/01/01	--	Shallow	34.2250449	118.6292618	--	875.79	1	34 - 35	0.01	--	35	--
				Mid	34.2250449	118.6292618	--	875.79	1	42 - 43	0.01	--	43	--
				Deep	34.2250449	118.6292618	--	875.79	1	49 - 50	0.01	--	50	--
S-15	Sparge	12/01/01	--	Shallow	34.2250907	118.6291483	--	877.63	1	34 - 35	0.01	--	35	--
				Mid	34.2250907	118.6291483	--	877.63	1	42 - 43	0.01	--	43	--
				Deep	34.2250907	118.6291483	--	877.63	1	49 - 50	0.01	--	50	--
S-16	Sparge	12/01/01	--	Shallow	34.2251132	118.6290422	--	879.22	1	34 - 35	0.01	--	35	--
				Mid	34.2251132	118.6290422	--	879.22	1	42 - 43	0.01	--	43	--
				Deep	34.2251132	118.6290422	--	879.22	1	49 - 50	0.01	--	50	--
S-17	Sparge	12/01/01	--	Shallow	34.2251333	118.6289268	--	880.98	1	34 - 35	0.01	--	35	--
				Mid	34.2251333	118.6289268	--	880.98	1	42 - 43	0.01	--	43	--
				Deep	34.2251333	118.6289268	--	880.98	1	49 - 50	0.01	--	50	--

Notes:
1) bgs = below ground surface; HAS = hollow stem auger; PVC = poly vinyl chloride; SS = stainless steel; CPVC = chlorinated poly vinyl chloride
2) '--' = not available.
3) Latitude/longitude in decimal degree format.
4) Only recently-installed wells surveyed using latitude/longitude. All other wells surveyed in State of California Plane Coordinate System Zone 5 (NAD83) using NGVD029 for a vertical datum; or surveyed using an arbitraty onsite datum. City of Los Angeles Benchmark 06-04499 (elevation 839.288 feet above mean sea level) used for most surveying activities.
5) " * " = Top of casing elevation at the time of installtion. Not necessarily current.

TABLE 2A
Groundwater Analytical Results for Monitoring Wells and Recovery Wells, December 2012
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Sample Identification	Sample Type	Sampling Date	Benzene	Chloroform	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	TCE	VC	Acetone	MEK	2-Hexanone
			CAP Goals:	**1.0**	**600**	**50**	**5.0**	**60**	**60**	**50**	**500**	**50**	**--**	**--**	**--**	**--**
MONITORING WELLS																
CM-02D	CM-2D	N	12/14/12	<0.5	<1.0	<1.0	<0.5	**1.8 J**	<1.0	<1.0	<1.0	<1.0	<0.5	<20	<10	<10
	Dup-A12a-121412	FD	12/14/12	<0.5	<1.0	<1.0	<0.5	<1.0 J	<1.0	<1.0	<1.0	<1.0	<0.5	<20	<10	<10
CM-04D	CM-4D	N	12/11/12	<0.5	<1.0	<1.0	**1.7**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.3**	<20	<10	<10
	DUP-269	FD	12/11/12	<0.5	<1.0	<1.0	**1.8**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.3**	<20	<10	<10
CM-07D	CM-7D	N	12/14/12	<0.5	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<20	<10	<10
CM-08D	CM-8D	N	12/18/12	<0.5	<1.0	**1.1**	<0.5	**14**	<1.0	<1.0	<1.0	**6.5**	<0.5	<20	<10	<10
CM-09D	CM-9D	N	12/17/12	<0.5	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<20	<10	<10
CM-13	CM-13	N	12/14/12	<0.5	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<20	<10	<10
CM-14	CM-14	N	12/11/12	<0.5	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<20	<10	<10
CM-16	CM-16	N	12/11/12	<0.5	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<20	<10	<10
CM-18	CM-18	N	12/18/12	<0.5	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<20	<10	<10
CM-19	CM-19	N	12/11/12	<0.5	<1.0	<1.0	<0.5	**21**	<1.0	<1.0	<1.0	<1.0	<0.5	<20	<10	<10
M-1	M-1	N	12/20/12	<5.0	<10	<10	<5.0	**13**	<10	<10	<10	<10	**40**	**810**	**1,000**	**310**
MW-15	MW-15	N	12/14/12	<0.5	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<20	<10	<10
MW-16	MW-16	N	12/20/12	<0.5	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<20	<10	<10
MW-17	MW-17	N	12/11/12	<0.5	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<20	<10	<10
MW-19D	MW-19D	N	12/17/12	<0.5	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<20	<10	<10
MW-19S	MW-19S	N	12/17/12	<0.5	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<20	<10	<10
MW-20S	MW-20S	N	12/17/12	<0.5	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<20	<10	<10
MW-23	MW-23	N	12/14/12	<1.0	<2.0	<2.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	**80**	<40	<20	<20
MW-24	MW-24	N	12/18/12	<0.5	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<20	<10	<10
MW-25	MW-25	N	12/19/12	<0.5	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<20	<10	<10
MW-26	MW-26	N	12/19/12	<0.5	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<20	<10	<10
MW-27	MW-27	N	12/19/12	<0.5	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<20	<10	<10
MW-36	MW-36	N	12/19/12	<0.5	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	**4.1**	<1.0	**1.2**	**59**	<10	<10
MW-37	MW-37	N	12/18/12	<0.5	**4.6**	<1.0	<0.5	**47**	<1.0	<1.0	<1.0	**5.4**	<0.5	<20	<10	<10
	DUP-A12b-121812	FD	12/18/12	<0.5	**4.2**	<1.0	<0.5	**41**	<1.0	<1.0	<1.0	**4.9**	<0.5	<20	<10	<10
MW-38	MW-38	N	12/11/12	<0.5	<1.0	<1.0	<0.5	<1.0	<1.0	**2.5**	<1.0	<1.0	<0.5	<20	<10	<10

TABLE 2A

Groundwater Analytical Results for Monitoring Wells and Recovery Wells, December 2012

Former Raytheon Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Sample Identification	Sample Type	Sampling Date	Benzene	Chloroform	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	TCE	VC	Acetone	MEK	2-Hexanone
			CAP Goals:	**1.0**	**600**	**50**	**5.0**	**60**	**60**	**50**	**500**	**50**	**--**	**--**	**--**	**--**
RECOVERY WELLS																
RW-01	RW-01	N	12/10/12	<0.5	<1.0	**2.3**	**0.6**	**280**	<1.0	<1.0	<1.0	**3.8**	**0.72 J**	<20	<10	<10
	DUP-NW121012	FD	12/10/12	<0.5	<1.0	**2.4**	**0.9**	**270**	<1.0	<1.0	<1.0	**4.4**	**1.2 J**	<20	<10	<10
RW-02	RW-02	N	12/10/12	<0.5	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<20	<10	<10
RW-04	RW-04	N	12/06/12	<0.5	<1.0	<1.0	<0.5	**3.2**	<1.0	<1.0	<1.0	<1.0	**34**	<20	<10	<10
RW-05	RW-05	N	12/06/12	<0.5	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<20	<10	<10
RW-06	RW-06	N	12/06/12	<0.5	<1.0	<1.0	<0.5	**14**	**2.0**	<1.0	<1.0	**1.5**	**2.2**	<20	<10	<10
	DUP RW 12612	FD	12/06/12	<0.5	<1.0	<1.0	<0.5	**12**	**1.8**	<1.0	<1.0	**1.5**	**1.7**	<20	<10	<10
RW-07	RW-07	N	12/06/12	<0.5	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<20	<10	<10
RW-08	RW-08	N	12/06/12	<0.5	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<20	<10	<10
RW-09	RW-09	N	12/06/12	<0.5	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<20	<10	<10
RW-10	RW-10	N	12/10/12	<0.5	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	**63**	<20	<10	<10
RW-11	RW-11	N	12/10/12	<0.5	<1.0	<1.0	<0.5	**70**	<1.0	<1.0	<1.0	<1.0	<0.5	<20	<10	<10
RW-13	RW-13	N	12/06/12	<0.5	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<20	<10	<10
RW-14	RW-14	N	12/10/12	<0.5	<1.0	**3.8**	**2.5**	**360**	**2.8**	<1.0	<1.0	**2.7**	**78**	<20	<10	<10
	DUP-T3-121012	FD	12/10/12	<0.5	<1.0	**3.7**	**2.6**	**370**	**2.8**	<1.0	<1.0	**2.5**	**78**	<20	<10	<10
RW-15	RW-15	N	12/10/12	<0.5	<1.0	<1.0	<0.5	**63**	<1.0	**3.7**	<1.0	**14**	**0.54**	<20	<10	<10
RW-16	RW-16	N	12/06/12	<0.5	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	**1.4**	<20	<10	<10

Notes:

1) All results in micrograms per liter (mg/L)

2) Only detectable concentrations of constituents of concern are shown; detections above reporting limit are **bolded**.

3) 1,1-DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; 1,1-DCE = 1,1-Dichloroethene; cis-1,2-DCE = 1,2-Dichloroethene; PCE =Tetrachloroethene; TCE = Trichloroethene; VC = Vinyl Chloride; MEK = 2-Butanone.

4) CAP Goals = Corrective Action Plan Groundwater Cleanup Goals (Hughes Environmental Systems, 1992); N = Normal Sample; FD = Field Duplicate Sample; "<" = not detected above the stated reporting limit.

5) Concentrations exceeding CAP Goals are shaded in gray

6) "N"- normal sample, "FD" - field duplicate

TABLE 2B

Groundwater Analytical Results for Field QA/QC Samples, December 2012

Former Raytheon Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Sample Identification	Sample Type	Sampling Date	Chloroform	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	VC
CM-2D	CM-2D	N	12/14/12	<1.0	<1.0	<0.5	**1.8 J**	<1.0	<1.0	<1.0	<0.5
	Dup-A12a-121412	FD	12/14/12	<1.0	<1.0	<0.5	<1.0 J	<1.0	<1.0	<1.0	<0.5
Relative Percent Difference				NA	NA	NA	**113%**	NA	NA	NA	NA
CM-4D	CM-4D	N	12/11/12	<1.0	<1.0	**1.7**	<1.0	<1.0	<1.0	<1.0	**1.3**
	DUP-269	FD	12/11/12	<1.0	<1.0	**1.8**	<1.0	<1.0	<1.0	<1.0	**1.3**
Relative Percent Difference				NA	NA	**5.7%**	NA	NA	NA	NA	**0.0%**
MW-37	MW-37	N	12/18/12	**4.6**	<1.0	<0.5	**47**	<1.0	<1.0	**5.4**	<0.5
	DUP-A12b-121812	FD	12/18/12	**4.2**	<1.0	<0.5	**41**	<1.0	<1.0	**4.9**	<0.5
Relative Percent Difference				**9.1%**	NA	NA	**13.6%**	NA	NA	**9.7%**	NA
RW-01	RW-01	N	12/10/12	<1.0	**2.3**	**0.64**	**280**	<1.0	<1.0	**3.8**	**0.72 J**
	DUP-NW121012	FD	12/10/12	<1.0	**2.4**	**0.88**	**270**	<1.0	<1.0	**4.4**	**1.2 J**
Relative Percent Difference				NA	**4.3%**	**32%**	**3.6%**	NA	NA	**15%**	**50%**
RW-06	RW-06	N	12/06/12	<1.0	<1.0	<0.5	**14**	**2.0**	<1.0	**1.5**	**2.2**
	DUP RW 12612	FD	12/06/12	<1.0	<1.0	<0.5	**12**	**1.8**	<1.0	**1.5**	**1.7**
Relative Percent Difference				NA	NA	NA	**15%**	**11%**	NA	**0%**	**26%**
RW-14	RW-14	N	12/10/12	<1.0	**3.8**	**2.5**	**360**	**2.8**	<1.0	**2.7**	**78**
	DUP-T3-121012	FD	12/10/12	<1.0	**3.7**	**2.6**	**370**	**2.8**	<1.0	**2.5**	**78**
Relative Percent Difference				NA	**2.7%**	**3.9%**	**2.7%**	**0.0%**	NA	**7.7%**	**0.0%**
TRIP BLANKS											
FieldQC	Trip Blank 12612	TB	12/06/12	<1	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<0.5
FieldQC	FB3-121012	FB	12/10/12	<1	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<0.5
FieldQC	TB3-121012	TB	12/10/12	<1	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<0.5
FieldQC	TB-121112	TB	12/11/12	<1	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<0.5
FieldQC	TB2-12112	TB	12/11/12	<1	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<0.5
FieldQC	TB-122012	TB	12/20/12	<1	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<0.5

1) All analyses by EPA Method 8260B.

2) All concentrations in micrograms per liter (µg/L).

3) All detectable concentrations of constituents of concern are shown.

4) 1,1-DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; 1,1-DCE = 1,1-Dichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; PCE = tetrachloroethene; TCE = Trichloroethene; VC = vinyl chloride.

5) "N" = normal sample; "FD" = field duplicate; "FB" = field blank; "TB" = trip blank; "<" = not detected above the stated reporting limit.

6) "J" indicates a qualified result. See text for complete details.

Table 3
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
M-1	03/08/95	<10	**30**	<10	**2,000**	<10	<10	<10	**26**	**30**	<10	--
	05/12/98	<5.0	<5.0	<5.0	**180**	<5.0	<5.0	<5.0	<5.0	**5.9**	<5.0	--
	11/12/98	<2.0	**5.9**	**2.3**	**710**	<2.0	**2.0**	<2.0	**3.8**	**18**	<5.0	--
	06/25/99	<5.0	<5.0	<5.0	**19**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	08/04/99	<0.5	**7.1**	<5.0	**780**	<5.0	**7.6**	<5.0	<5.0	**29**	<5.0	--
	12/29/99	<5.0	**7.0**	<5.0	**970**	<5.0	**8.0**	<5.0	<5.0	**36**	<5.0	--
	12/05/00	<0.5	**4.7**	**0.87**	**1,000**	<0.5	**5.0**	<0.5	**1.4**	**21**	**1.3**	--
	11/06/01	<5.0	**5.0**	<5.0	**680**	<5.0	<5.0	<5.0	<5.0	**20**	<5.0	--
	11/10/02	<0.5	**3.9**	<0.5	**810**	<0.5	**9.4**	<0.5	**1.1**	**39**	**2.9**	--
	11/09/03	<0.5	**4.0**	<0.5	**620**	<0.5	**6.9**	<0.5	**0.9**	**26**	<0.5	--
	10/25/04	<1.0	**2.9**	<1.0	**450**	<1.0	**9.4**	<1.0	<1.0	**2.3**	<1.0	--
	11/14/05	<2.5	**3.4**	<2.5	**470**	<2.5	**5.0**	<2.5	**5.0**	**22**	<2.5	--
	04/23/06	<0.5	**2.7**	<0.5	**370**	<1.0	**5.9**	<1.0	**3.5**	**20**	<10	<0.5
	07/15/06	<0.5	<1.0	<0.5	**47**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<2.5
	11/08/06	Not sampled due to the Presence of Substrate in the well										
	05/13/07	Not sampled due to the Presence of Substrate in the well										
	11/05/07	<0.5	<1.0	<0.5	**27**	**2.0**	<1.0	<1.0	<1.0	<1.0	<10	**90**
	11/18/08	<2.5	<5.0	<2.5	**15**	<5.0	<5.0	<5.0	<5.0	<5.0	<50	**70**
	12/03/09	<0.5	<1.0	<0.5	**22**	**2.3**	<1.0	<1.0	<1.0	**1.3**	<10	**64**
	12/28/10	<1.0	<2.0	<1.0	**11**	<2.0	<2.0	<2.0	<2.0	<2.0	<20	**33**
	12/08/11	**1.2**	<2.0	<1.0	**5.8**	<2.0	<2.0	<2.0	<2.0	<2.0	<20	**17**
	12/20/12	<5.0	<10	<5.0	**13**	<10	<10	<10	<10	<10	<100	**40**
CM-2D	03/08/95	**290**	<10	<10	**22**	<10	<10	**630**	<10	<10	<10	--
	05/12/98	<5.0	<5.0	<5.0	**69**	<5.0	<5.0	<5.0	<5.0	**5.5**	<5.0	--
	12/29/99	<5.0	<5.0	<5.0	**47**	<5.0	<5.0	<5.0	<5.0	**17**	<5.0	--
	12/05/00	<0.5	<0.5	<0.5	**42**	<0.5	**2.6**	<0.5	<0.5	**13**	<0.5	--
	11/06/01	<0.5	**0.55**	<0.5	**110**	<0.5	**5.7**	<0.5	<0.5	**23**	<0.5	--
	11/10/02	<0.5	<0.5	<0.5	**30**	**0.66**	**4.0**	<0.5	<0.5	**15**	<0.5	--
	11/10/03	<0.5	<0.5	<0.5	**64**	<0.5	**6.2**	<0.5	<0.5	**23**	<0.5	--
	10/24/04	<0.5	<0.5	<0.5	**19**	<0.5	**4.1**	<0.5	<0.5	**9.5**	<0.5	--
	11/13/05	<0.5	**0.61**	<0.5	**89**	<0.5	**3.3**	<0.5	<0.5	**12**	<0.5	--
	04/23/06	<0.5	<1.0	<0.5	**51**	<1.0	**2.6**	<1.0	<1.0	**7.9**	<10	**0.9**
	07/15/06	<0.5	<1.0	<0.5	**100**	<1.0	**3.6**	<1.0	<1.0	**14**	<10	**5.4**
	11/04/06	<0.5	<1.0	<0.5	**90**	<1.0	**2.5**	<1.0	<1.0	**11**	<10	**4.7**
	05/13/07	<0.5	<1.0	<0.5	**63**	<1.0	**2.8**	<1.0	<1.0	**9.1**	<10	**2.8**
	11/05/07	<0.5	<1.0	<0.5	**3.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/18/08	<0.5	<1.0	<0.5	**23**	<1.0	<1.0	<1.0	<1.0	**3.4**	<10	**2.9**
	12/01/09	**0.6**	<1.0	<0.5	**56**	**1.1**	**2.9**	**1.6**	<1.0	**12**	<10	**2.4**
	12/28/10	<0.5	<1.0	<0.5	**59**	**2.0**	**2.3**	<1.0	<1.0	**11**	<10	**8.8**
	12/08/11	<0.5	<1.0	<0.5	**71**	**2.8**	**1.8**	<1.0	<1.0	**6.9**	<10	**27**
	12/14/12	<0.5	<1.0	<0.5	**1.8**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5

Table 3

Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present

Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
CM-4D	03/08/95	<5.0	<5.0	<5.0	**1,400**	<5.0	**51**	<5.0	<5.0	**130**	<5.0	--
	11/12/98	<2.0	<2.0	<2.0	**220**	<2.0	**21**	<2.0	<2.0	**120**	<5.0	--
	12/05/00	<0.5	**8.1**	**5.1**	**1,300**	<0.5	**5.8**	<0.5	<0.5	**30**	<0.5	--
	11/06/01	<5.0	**6.7**	<5.0	**970**	<5.0	**8.0**	<5.0	<5.0	**45**	<5.0	--
	11/10/02	<0.5	**12**	**8.8**	**1,400**	<0.5	**6.4**	<0.5	<0.5	**75**	<0.5	--
	11/09/03	<0.5	**1.6**	**2.5**	**51**	<0.5	**1.9**	<0.5	<0.5	**12**	<0.5	--
	10/25/04	<0.5	<0.5	<0.5	**41**	<0.5	**3.5**	<0.5	<0.5	**8.4**	<0.5	--
	11/13/05	<0.5	**5.1**	**4.0**	**250**	<0.5	**9.5**	<0.5	<0.5	**70**	<0.5	--
	04/23/06	<0.5	**4.4**	**4.1**	**290**	<1.0	**7.7**	<1.0	<1.0	**56**	<10	<0.5
	07/15/06	<0.5	<1.0	**3.1**	**440**	<1.0	**8.3**	<1.0	<1.0	**59**	<10	<2.5
	11/04/06	<2.5	**5.1**	**3.9**	**440**	<5.0	**5.3**	<5.0	<5.0	**53**	<50	<2.5
	05/13/07	<2.5	<5.0	**3.3**	**420**	<5.0	**13**	<5.0	<5.0	**69**	<50	<2.5
	11/05/07	<2.5	**7.3**	**4.3**	**770**	<5.0	**11**	<5.0	<5.0	**81**	<50	<2.5
	11/18/08	<2.5	<5.0	<2.5	**450**	<5.0	**14**	<5.0	<5.0	**70**	<50	<2.5
	12/01/09	<2.5	<5.0	**3.3**	**440**	<5.0	**14**	<5.0	<5.0	**71**	<50	<2.5
	12/29/10	<1.0	**3.7**	**2.5**	**350**	**4.3**	**17**	<2.0	<2.0	**86**	<20	<1.0
	05/05/11	<1.0	**6.3**	**5.3**	**380**	<2.0	**6.7**	<2.0	<2.0	**63**	<20	<1.0
	06/16/11	<1.0	**3.2 J**	**2.7 J**	**170**	**27**	<2.0	<2.0	<2.0	**2.1 J**	<20	<1.0
	05/05/11	<1.0	**6.3**	**5.3**	**380**	<2.0	**6.7**	<2.0	<2.0	**63**	<20	<1.0
	06/16/11	<1.0	**3.2**	**2.7**	**170**	**27**	<2.0	<2.0	<2.0	**2.1**	<20	<1.0
	09/22/11	<10	<20	<10	**53**	**41**	<20	<20	<20	<20	<200	<10
	11/30/11	<0.5	<1.0	<0.5	**33**	**48**	<1.0	<1.0	<1.0	<1.0	<10	**6.6**
	03/27/12	<0.5	<1.0	**0.51**	<1.0	**1.9**	<1.0	**1.2**	<1.0	<1.0	<10	**3.6**
	05/31/12	<0.5	<1.0	**1.2**	<1.0	**1.2**	<1.0	**2.3**	<1.0	<1.0	<10	**3.2**
	12/11/12	<0.5	<1.0	**1.8**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	**1.3**
CM-7	03/07/95	<3.0	**9.4**	<3.0	**400**	**7.0**	<3.0	<3.0	<3.0	**9.0**	<3.0	--
	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-7D	03/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/06/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**82**	<0.5	<0.5	<0.5	--
	09/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**3.8**	<0.5	<0.5	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.62**	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/13/97	<2.0	--	--	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/17/97	<2.0	<2.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/12/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	11/12/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/28/99	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	--

Table 3

Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present

Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
CM-7D	05/11/00	**0.73**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.5**	<0.5	<0.5	<0.5	--
(cont'd)	12/06/00	<0.5	<0.5	<0.5	**2.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/26/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/10/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/15/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/23/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	04/23/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/14/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/05/06	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	02/18/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/14/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/04/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/01/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/19/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/29/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/03/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/10/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/29/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/08/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/06/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/14/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-8D	03/08/95	<3.0	**14**	<3.0	**270**	<3.0	<3.0	<3.0	**5.4**	**45**	**54**	--
	06/05/95	<1.0	**6.9**	<1.0	**190**	<1.0	<1.0	**4.4**	**2.3**	**43**	**12**	--
	09/19/95	<0.5	**4.7**	<0.5	**93**	<0.5	**0.86**	<0.5	**1.7**	**41**	**8.4**	--
	12/04/95	<0.5	**5.6**	<0.5	**110**	<0.5	**0.69**	<0.5	**1.6**	**47**	**11**	--
	02/13/96	<10	**20**	<10	**440**	<10	<10	<10	<10	**64**	<25	--
	05/14/96	<10	**20**	<10	**460**	<10	<10	<10	<10	**63**	**49**	--
	08/13/96	<2.0	**4.8**	<2.0	**110**	<2.0	<2.0	<2.0	<2.0	**32**	**18**	--
	11/11/96	<2.0	**5.3**	<2.0	**100**	<2.0	<2.0	<2.0	<2.0	**31**	**17**	--
	05/12/97	<2.0	**3.8**	<2.0	**58**	<2.0	<2.0	<2.0	<2.0	**29**	**24**	--
	12/16/97	<2.0	**2.7**	<2.0	**46**	<2.0	<2.0	<2.0	<2.0	**23**	**30**	--
	05/12/98	<5.0	<5.0	<5.0	**55**	<5.0	<5.0	<5.0	<5.0	**18**	**19**	--
	11/11/98	<2.0	**3.9**	<2.0	**63**	<2.0	<2.0	<2.0	<2.0	**24**	**18**	--
	06/25/99	<5.0	**10**	<5.0	**200**	<5.0	<5.0	<5.0	<5.0	**87**	**69**	--

Table 3

Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present

Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
CM-8D	10/19/99	<5.0	<5.0	<5.0	**60**	<5.0	<5.0	<5.0	<5.0	**24**	**17**	--
(cont'd)	12/28/99	<5.0	<5.0	<5.0	**46**	<5.0	<5.0	<5.0	<5.0	**23**	**14**	--
	05/11/00	<0.5	**5.7**	<5.0	**110**	<0.5	<5.0	<5.0	<5.0	**24**	**22**	--
	12/07/00	<0.5	**8.1**	**0.79**	**140**	<0.5	**0.85**	<0.5	**0.9**	**36**	**5.3**	--
	06/26/01	<0.5	**15**	<0.5	**230**	**1.3**	**2.6**	<0.5	**0.5**	**55**	**35**	--
	11/08/01	<0.5	**18**	**1.7**	**340**	**1.9**	**2.2**	<0.5	<0.5	**62**	**58**	--
	05/22/02	<0.5	**10**	**1.6**	**230**	**1.6**	<0.5	<0.5	<0.5	**27**	**11**	--
	11/12/02	<2.5	**18**	<2.5	**510**	<2.5	<2.5	<2.5	<2.5	**62**	**56**	--
	06/16/03	<0.5	**10**	<0.5	**200**	<0.5	<0.5	<0.5	<0.5	**31**	**14**	--
	11/10/03	<1.0	**11**	<1.0	**220**	<1.0	<1.0	<1.0	<1.0	**34**	**6.3**	--
	06/12/04	<1.0	**6.7**	<1.0	**140**	**0.54**	<1.0	<1.0	<1.0	**27**	**6.5**	--
	10/21/04	<0.5	**9.4**	**0.95**	**200**	**1.1**	**2.7**	<0.5	<0.5	**24**	**9.3**	--
	06/29/05	<0.5	**11**	**1.5**	**170**	**1.2**	<0.5	<0.5	<0.5	**42**	**10**	--
	11/14/05	<0.5	**9.9**	**1.3**	**130**	**0.98**	**0.91**	<0.5	<0.5	**34**	**7.6**	--
	07/14/06	<0.5	**9.6**	**1.1**	**130**	**1.6**	**1.1**	<1.0	<1.0	**33**	<10	<0.5
	11/08/06	<0.5	**6.9**	**1.1**	**120**	**1.1**	<1.0	<1.0	<1.0	**26**	<10	<0.5
	12/28/06	<0.5	**7.8**	**1.2**	**110**	**1.1**	<1.0	<1.0	<1.0	**28**	<10	<0.5
	02/18/07	<0.5	**3.1**	<0.5	**43**	<1.0	**0.32J**	<1.0	<1.0	**12**	**2.4J**	<0.5
	05/14/07	<0.5	**2.6**	<0.5	**45**	<1.0	<1.0	<1.0	<1.0	**12**	<10	<0.5
	11/04/07	<0.5	**2.1**	<0.5	**25**	<1.0	<1.0	<1.0	<1.0	**8.1**	<10	<0.5
	07/02/08	<0.5	**1.5**	<0.5	**20**	<1.0	<1.0	<1.0	<1.0	**7.6**	<10	<0.5
	11/20/08	<0.5	**2.1**	<0.5	**43**	<1.0	<1.0	<1.0	<1.0	**8.0**	<10	<0.5
	05/27/09	<0.5	**1.8**	<0.5	**27**	<1.0	<1.0	<1.0	<1.0	**7.2**	<10	<0.5
	12/08/09	<0.5	**2.9**	<0.5	**55**	**1.2**	<1.0	<1.0	<1.0	**14**	<10	<0.5
	06/10/10	<0.5	**1.3**	<0.5	**23**	<1.0	<1.0	<1.0	<1.0	**5.7**	<10	<0.5
	12/28/10	<0.5	**2.0**	<0.5	**31**	<1.0	<1.0	<1.0	<1.0	**8.7**	<10	<0.5
	06/14/11	<0.5	**2.9**	**0.52 J**	**2.5 J**	<1.0	<1.0	<1.0	<1.0	**14**	<10	<0.5
	12/13/11	<0.5	<1.0 J	<0.5	**23**	<1.0	<1.0	<1.0	<1.0	**8.0**	<10	<0.5
	06/06/12	<0.5	**1.2**	<0.5	**17 J**	<1.0	<1.0	<1.0	<1.0	**7.4**	<10	<0.5
	12/18/12	<0.5	**1.1**	<0.5	**14**	<1.0	<1.0	<1.0	<1.0	**6.5**	<10	<0.5
CM-9D	03/07/95	<0.5	**2.8**	<0.5	**22**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/15/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/98	<2.0	<2.0	<2.0	**12**	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.8**	--
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.3**	--
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/21/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.4**	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.7**	--
	11/07/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5

Table 3

Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present

Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
CM-9D	11/07/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
(cont'd)	11/20/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/08/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/28/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/13/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/17/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-10	03/08/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**190**	--
	06/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.58**	<0.5	<0.5	**93**	--
	09/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**100**	--
	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**120**	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<20	<2.0	**39**	--
	05/14/96	<10	<10	<10	<25	<10	<10	<10	<10	<10	**110**	--
	08/12/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**88**	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<10	<2.0	<2.0	<2.0	<2.0	**120**	--
	05/13/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**93**	--
	12/15/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**100**	--
	05/12/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**120**	--
	12/04/98	<5.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<5.0	<2.0	**110**	--
	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	08/04/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**93**	--
	10/19/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**74**	--
	12/27/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**82**	--
	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**80**	--
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**55**	--
	06/26/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**56**	--
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**55**	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**29**	--
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/16/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**56**	--
	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**47**	--
	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**40**	--
	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**40**	--
	07/14/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**27**	<0.5
	11/08/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**28**	<0.5
	11/21/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**32**	<0.5
CM-11	03/07/95	<0.5	<0.5	<0.5	**3.0**	<0.5	<0.5	<0.5	<0.5	**1.3**	<0.5	--
Well abandoned	12/17/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
CM-11A	08/11/98	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	11/12/98	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<2.0	<2.0	<2.0	<0.5	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--

Table 3

Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present

Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
CM-11A	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
(cont'd)	01/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/11/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/21/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/06/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/21/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-12	03/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/06/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**9.3**	<0.5	<0.5	<5.0	--
	09/19/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	--
	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/26/01	<0.5	<0.5	<0.5	<0.5	<0.5	**0.58**	<0.5	<0.5	<0.5	<0.5	--
	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/10/02	<0.5	<0.5	<0.5	<0.5	**7.2**	**4.0**	<0.5	<0.5	**27**	<0.5	--
	06/15/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/15/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/06/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/02/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/19/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-13	03/08/95	**6.0**	**7.6**	<3.0	**230**	<3.0	<0.5	<0.5	<0.5	**31**	<0.5	--
	12/17/97	<2.0	**3.2**	<2.0	**94**	<2.0	<2.0	<2.0	<2.0	**9.4**	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/06/00	<0.5	**2.0**	<0.5	**75**	**1.9**	<0.5	<0.5	<0.5	**4.8**	<0.5	--
	11/07/01	**0.69**	**6.4**	**1.0**	**310**	**1.2**	**1.2**	<0.5	<0.5	**14**	<0.5	--
	11/12/02	<1.0	**4.4**	<1.0	**310**	<1.0	<1.0	<1.0	<1.0	**8.1**	<1.0	--
	11/10/03	<0.5	**4.9**	<0.5	**240**	<0.5	**0.56**	<0.5	<0.5	**7.5**	<0.5	--
	10/23/04	<0.5	**5.0**	<0.5	**250**	**0.77**	**2.4**	<0.5	<0.5	**9.3**	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	**1.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table 3
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
CM-13	04/23/06	<0.5	**1.3**	<0.5	**82**	<1.0	<1.0	<1.0	<1.0	**4.1**	<10	<0.5
(cont'd)	07/16/06	<0.5	<1.0	<0.5	**30**	<1.0	<1.0	<1.0	<1.0	**1.1 J**	<10	**0.82**
	11/04/06	<0.5	<1.0	<0.5	**6.6**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	**0.93**
	02/18/07	<0.5	<1.0	<0.5	**0.3 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/14/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/04/07	<0.5	<1.0	<0.5	**1.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	**4.2**
	11/18/08	<0.5	<1.0	<0.5	**1.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	**9.7**
	12/03/09	<0.5	<1.0	<0.5	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/17/10	<0.5	<1.0	<0.5	**10**	**1.3**	<1.0	<1.0	<1.0	**1.0**	<10	**19**
	12/08/11	<0.5	<1.0	<0.5	**3.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	**12**
	12/14/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-14	06/06/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	09/19/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/12/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/29/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/05/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/24/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/06/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/06/07	<0.5	<1.0	<0.5	**2.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/22/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/01/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	**1.3**	<1.0	<1.0	<10	<0.5
	12/15/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/07/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/11/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-15	03/08/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/06/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**34**	<0.5	<0.5	<0.5	--
	09/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--

Table 3

Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present

Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
CM-15	11/11/96	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
(cont'd)	12/15/97	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/27/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/22/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	03/08/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/13/97	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/17/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/12/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/12/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/29/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/05/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/26/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/06/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/10/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/15/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/09/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/13/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/25/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/14/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	--
	11/06/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/15/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/05/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/01/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/18/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/29/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/08/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/10/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/29/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/05/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5

Table 3

Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present

Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
CM-16	06/16/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
(cont'd)	09/22/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/30/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	03/27/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/31/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/11/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-17	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	11/21/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-18	03/08/95	<0.5	<0.5	<0.5	**2.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**59**	--
	11/12/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**12**	--
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**11**	--
	11/07/01	<0.5	<0.5	<0.5	**1.6**	<0.5	<0.5	<0.5	<0.5	<0.5	**2.5**	--
	11/10/02	<0.5	<0.5	<0.5	**4.4**	**1.2**	**0.91**	<0.5	<0.5	**4.5**	**5.2**	--
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**10**	--
	10/21/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.3**	--
	11/16/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**6.1**	--
	11/07/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/06/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/22/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/08/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/28/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/13/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/18/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-19	03/07/95	<0.5	--	<0.5	**6.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/06/95	<0.5	<0.5	<0.5	**7.6**	<0.5	<0.5	**5.5**	<0.5	<0.5	<0.5	--
	09/19/95	<0.5	--	<0.5	**2.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	**1.4**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/12/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/29/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--

Table 3

Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present

Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
CM-19	12/05/00	<0.5	<0.5	<0.5	**5.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
(cont'd)	11/08/01	<0.5	<0.5	<0.5	**5.0**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/09/03	<0.5	<0.5	<0.5	**4.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/24/04	<0.5	<0.5	<0.5	**3.0**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	**6.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/06/06	<0.5	<1.0	<0.5	**7.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/06/07	<0.5	<1.0	<0.5	**8.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/22/08	<0.5	<1.0	<0.5	**7.7**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/01/09	<0.5	<1.0	<0.5	**14**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/15/10	<0.5	<1.0	<0.5	**13**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/07/11	<0.5	<1.0	<0.5	**2.8**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/11/12	<0.5	<1.0	<0.5	**21**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-15	03/08/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/06/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.79**	<0.5	<0.5	<0.5	--
	09/19/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	**14**	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/13/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/17/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	**0.73**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.9**	<0.5	<0.5	<0.5	--
	12/06/00	<0.5	<0.5	<0.5	**4.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/26/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.95**	<0.5	<0.5	<0.5	--
	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/15/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.5**	<0.5	<0.5	<0.5	--
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/13/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/23/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.5**	<0.5	<0.5	<0.5	--
	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.70**	<0.5	<0.5	<0.5	--
	07/14/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/06/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/15/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/06/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/02/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5

Table 3

Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present

Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-15	11/18/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
(cont'd)	05/29/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/03/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/10/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/17/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/08/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/06/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/14/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-16	03/08/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/06/95	<0.5	<0.5	<0.5	**1.5**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	09/19/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/13/97	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/17/97	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/12/98	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/06/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/10/02	<0.5	<0.5	<0.5	**5.9**	**6.9**	**8.3**	<0.5	<0.5	**280**	<0.5	--
	06/15/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/09/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/13/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/25/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/14/06	<0.5	<1.0	<0.5	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/15/07	<0.5	<1.0	<0.5	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/05/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/01/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/18/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/27/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/01/09	**0.74**	<1.0	<0.5	<1.0	<1.0	<1.0	**2.0**	<1.0	<1.0	<10	<0.5
	06/10/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/29/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5

Table 3

Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present

Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-16	12/08/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
(cont'd)	06/06/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/20/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-17	03/07/95	<0.5	<0.5	<0.5	**48**	<0.5	**2.4**	<0.5	**13**	**4.4**	**0.7**	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/12/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/29/99	<5.0	<5.0	<5.0	**12**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/05/00	<0.5	<0.5	<0.5	**7.7**	<0.5	**0.71**	<0.5	<0.5	**1.1**	<0.5	--
	11/08/01	<0.5	<0.5	<0.5	**13**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	**11**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/09/03	<0.5	<0.5	<0.5	**5.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/25/04	<0.5	<0.5	<0.5	**2.6**	<0.5	**2.4**	<0.5	<0.5	**0.59**	<0.5	--
	11/13/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	04/23/06	<0.5	<1.0	<0.5	**4.6**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/17/06	<0.5	<1.0	<0.5	**4.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/05/06	<0.5	<1.0	<0.5	**5.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/13/07	<0.5	<1.0	<0.5	**2.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/06/07	<0.5	<1.0	<0.5	**4.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/22/08	<0.5	<1.0	<0.5	**1.6**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/01/09	**0.77**	<1.0	<0.5	**2.7**	<1.0	<1.0	**1.9**	<1.0	<1.0	<10	<0.5
	12/15/10	<0.5	<1.0	<0.5	**2.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/07/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/11/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19S	03/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**6.4**	<0.5	<0.5	<0.5	--
	09/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/03/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/12/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/27/99	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/26/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/08/01	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--

Table 3

Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present

Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-19S (cont'd)	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/16/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/13/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/23/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/16/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/15/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/08/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/15/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/07/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/01/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/20/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/26/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/04/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/10/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/23/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/15/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/06/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/17/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19D	03/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**84**	<0.5	<0.5	<0.5	--
	09/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/03/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/27/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/16/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table 3

Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present

Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-19D	06/13/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
(cont'd)	10/23/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/16/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/15/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/08/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/15/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/07/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/01/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/20/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/26/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/04/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/10/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/23/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/15/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/06/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/17/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-20S	03/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	09/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/03/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/13/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/12/98	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/27/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/26/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/16/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/13/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table 3

Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present

Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-20S	10/23/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
(cont'd)	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/16/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/15/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/08/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/15/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/07/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/01/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/20/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/29/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/10/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/04/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/23/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/06/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/17/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-20D	11/20/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-21S	03/07/95	<0.5	<0.5	<0.5	**0.6**	<0.5	<0.5	<0.5	<0.5	**1.0**	<0.5	--
	09/18/95	<0.5	<0.5	<0.5	**0.87**	<0.5	<0.5	<0.5	<0.5	**1.1**	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/19/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-21D	11/19/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-22S	03/07/95	<0.5	<0.5	<0.5	**1.7**	<0.5	**1.1**	<0.5	<0.5	<0.5	<0.5	--
	11/21/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-22D	11/21/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-23	03/08/95	<5.0	**61**	<5.0	**2,000**	<5.0	**14**	**5.4**	**99**	**68**	<5.0	--
	05/12/98	<5.0	<5.0	<5.0	**7.8**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/29/99	<5.0	<5.0	<5.0	**85**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/06/00	**0.64**	**1.8**	**0.64**	**63**	<0.5	<0.5	**0.63**	<0.5	**3.9**	<0.5	--
	11/08/01	<0.5	**1.2**	<0.5	**73**	<0.5	**0.97**	<0.5	<0.5	**3.8**	<0.5	--
	11/10/02	**0.74**	**0.97**	<0.5	**82**	**1.9**	<0.5	<0.5	<0.5	**2.1**	<0.5	--
	11/10/03	<0.5	**1.1**	<0.5	**60**	<0.5	**0.53**	<0.5	<0.5	**3.1**	<0.5	--
	10/23/04	<0.5	**1.2**	<0.5	**33**	<0.5	<0.5	<0.5	<0.5	**2.1**	<0.5	--
	11/13/05	**0.51**	**1.4**	**0.7**	**120**	<0.5	<0.5	<0.5	<0.5	**2.5**	<0.5	--
	04/23/06	<0.5	**1.2**	<0.5	**62**	<1.0	<1.0	<1.0	<1.0	**3.0**	<10	**9.5**
	07/15/06	<0.5	**1.6**	**0.63**	**97**	<1.0	<1.0	<1.0	<1.0	**2.8**	<10	**21**

Table 3

Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present

Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-23	11/04/06	<0.5	**1.6**	**0.87**	**93**	<1.0	<1.0	<1.0	<1.0	**1.9**	<10	**31**
(cont'd)	05/13/07	<0.5	**1.9**	**0.76**	**2.3**	**2.2**	<1.0	<1.0	<1.0	<1.0	<10	**83**
	11/05/07	<0.5	**2.6**	**0.94**	**3.6**	**2.3**	<1.0	<1.0	<1.0	<1.0	<10	**130**
	11/18/08	<0.5	**1.5**	<0.5	<1.0	**1.1**	<1.0	<1.0	<1.0	<1.0	<10	**100**
	12/01/09	**1.0**	**1.1**	<0.5	<1.0	<1.0	<1.0	**1.7**	<1.0	<1.0	<10	**75**
	12/17/10	<0.5	**1.0**	<0.5	**1.1**	**1.5**	<1.0	<1.0	<1.0	<1.0	<10	**90**
	12/08/11	<0.5	**1.6**	**0.51**	**8.5**	**2.3**	<1.0	<1.0	<1.0	<1.0	<10	**76**
	12/14/12	<1.0	<2.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<20	**80**
MW-24	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<5.0	<2.0	<5.0	--
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/21/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/16/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/28/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	02/18/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/14/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/04/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/02/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/21/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/08/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/28/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/13/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/18/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-25	03/08/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/15/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<5.0	<2.0	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/21/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/16/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/06/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/22/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/04/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/28/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5

Table 3

Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present

Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-25	12/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
(cont'd)	12/19/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-26	03/07/95	<0.5	<0.5	<0.5	**0.8**	<0.5	<0.5	<0.5	**0.6**	<0.5	<0.5	--
	06/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**24**	<0.5	<0.5	<0.5	--
	09/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/02	<0.5	<0.5	<0.5	**0.64**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/16/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/07/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/22/08	**0.66**	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/04/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/28/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/19/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-27	03/07/95	<0.5	<0.5	<0.5	**1.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/06/95	<0.5	<0.5	<0.5	**1.8**	<0.5	<0.5	**2.8**	<0.5	<0.5	<0.5	--
	09/19/95	<0.5	<0.5	<0.5	**0.81**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	**0.61**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/07/00	<0.5	<0.5	<0.5	**0.54**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/08/01	<0.5	<0.5	<0.5	**1.5**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/02	<0.5	<0.5	<0.5	**1.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table 3

Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present

Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-27	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
(cont'd)	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/06	<0.5	<1.0	<0.5	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/07/07	<0.5	<1.0	<0.5	**1.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/22/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/04/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/28/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/19/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-28	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/11/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/25/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/19/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-29	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/21/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.66**	--
	11/20/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-30	03/07/95	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/05/95	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	**21**	<0.5	<0.5	<0.5	--
	09/19/95	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	**3.8**	<0.5	<0.5	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/15/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/27/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table 3

Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present

Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-30	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
(cont'd)	11/07/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/21/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-31	05/22/98	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**150**	--
	08/11/98	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**160**	--
	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**140**	--
	12/04/98	<5.0	<2.0	<2.0	<5.0	<2.0	<2.0	<5.0	<5.0	<2.0	**190**	--
	08/04/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	10/19/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**160**	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**130**	--
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	**0.53**	<0.5	<0.5	<0.5	**130**	--
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**110**	--
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**120**	--
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**120**	--
	10/21/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**92**	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**81**	--
	11/06/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**100**	<0.5
	11/19/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**87**	<0.5
MW-36	09/30/03	<0.5	<0.5	<0.5	**3.1**	<0.5	<0.5	<0.5	<0.5	**2.7**	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/06/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/05/07	<5.0	<10	<5.0	<10	<10	<10	<10	<10	<10	<100	<5.0
	11/18/08	<5.0	<10	<5.0	<10	<10	<10	<10	<10	<10	<100	<5.0
	12/01/09	<5.0	<10	<5.0	<10	<10	<10	<10	<10	<10	<100	<5.0
	12/29/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	**0.97**
	12/08/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	**5.7**	<1.0	<1.0	<10	**0.84**
	12/19/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	**4.1**	<1.0	<1.0	<10	**1.2**
MW-37	12/28/06	<0.5	<1.0	<0.5	**110**	<1.0	<1.0	<1.0	<1.0	**11**	<10	<0.5
	02/18/07	<0.5	**0.85 J**	<0.5	**66**	<1.0	<1.0	<1.0	<1.0	**7.8**	**2.3 J**	<0.5
	05/14/07	<0.5	<1.0	<0.5	**82**	<1.0	<1.0	<1.0	<1.0	**9.3**	<10	<0.5
	11/04/07	<0.5	**1.0**	<0.5	**53**	<1.0	<1.0	<1.0	<1.0	**7.0**	<10	<0.5
	07/02/08	<0.5	<1.0	<0.5	**59**	<1.0	<1.0	<1.0	<1.0	**7.0**	<10	<0.5
	11/20/08	<0.5	**1.1**	<0.5	**94**	<1.0	<1.0	<1.0	<1.0	**8.1**	<10	<0.5
	05/27/09	<0.5	**1.1**	<0.5	**26**	<1.0	<1.0	<1.0	<1.0	**7.2**	<10	<0.5
	12/08/09	<0.5	<1.0	<0.5	**63**	<1.0	<1.0	<1.0	<1.0	**8.4**	<10	<0.5
	06/10/10	<0.5	<1.0	<0.5	**35**	<1.0	<1.0	<1.0	<1.0	**4.4**	<10	<0.5
	12/08/09	<0.5	<1.0	<0.5	**63**	<1.0	<1.0	<1.0	<1.0	**8.4**	<10	<0.5
	12/28/10	<0.5	<1.0	<0.5	**42**	<1.0	<1.0	<1.0	<1.0	**6.8**	<10	<0.5
	06/14/11	<0.5	<1.0	<0.5	**29**	<1.0	<1.0	<1.0	<1.0	**4.4**	<10	<0.5
	12/13/11	<0.5	<1.0	<0.5	**23**	<1.0	<1.0	<1.0	<1.0	**3.4**	<10	<0.5

Table 3
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-37	06/06/12	<0.5	<1.0	<0.5	**52**	<1.0	<1.0	<1.0	<1.0	**6.2**	<10	<0.5
(cont'd)	12/18/12	<0.5	<1.0	<0.5	**47**	<1.0	<1.0	<1.0	<1.0	**5.4**	<10	<0.5
MW-38	05/05/11	<0.5	<1.0	<0.5	<1.0	<1.0	**3.5**	<1.0	<1.0	**2.0**	<10	<0.5
	06/16/11	<0.5	<1.0	<0.5	<1.0	<1.0	**2.4**	<1.0	<1.0	<1.0	<10	<0.5
	09/22/11	<0.5	<1.0	<0.5	<1.0	<1.0	**3.0**	<1.0	<1.0	**1.5**	<10	<0.5
	11/30/11	<0.5	<1.0	<0.5	<1.0	<1.0	**2.3**	<1.0	<1.0	<1.0	<10	<0.5
	03/27/12	<0.5	<1.0	<0.5	<1.0	<1.0	**3.1**	<1.0	<1.0	<1.0	<10	<0.5
	05/31/12	<0.5	<1.0	<0.5	<1.0	<1.0	**4.1**	<1.0	<1.0	**1.2**	<10	<0.5
	12/11/12	<0.5	<1.0	<0.5	<1.0	<1.0	**2.5**	<1.0	<1.0	<1.0	<10	<0.5

Notes:

1) All concentrations in µg/L.

2) All analyses done by EPA Method 8260, 8260B or 8021B.

3) '-- = not analyzed for parameter

4) Only wells with detectable concentrations of constituents of concern since March 1995 are shown.

5) 1,1-DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; 1,1-DCE = 1,1-Dichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; PCE = Tetrachloroethene; 1,1,1-TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane; VC = Vinyl Chloride.

6) "J" - result qualified as estimated due to quality control issues.

Table 4
Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
RW-01	03/17/95	<2.0	<2.0	<2.0	**130**	<2.0	**5.1**	<2.0	**9.6**	<2.0	**6.7**	--
	06/13/95	<20	<20	<20	**730**	<2.0	<20	<20	**31**	<20	<20	--
	09/11/95	<10	<10	<10	**570**	<2.0	<10	<10	**32**	<10	<10	--
	11/17/95	<20	<20	<20	**590**	<2.0	<20	<20	**30**	<20	**13**	--
	02/13/96	<10	<10	<10	**650**	<10	<10	<10	**22**	<2.0	**11**	--
	05/14/96	<10	<10	<10	**580**	<10	<10	<10	**15**	<2.0	<10	--
	08/13/96	<2.0	**5.8**	<2.0	**310**	<2.0	<2.0	<2.0	**14**	<2.0	**12**	--
	11/12/96	<2.0	**2.9**	<2.0	**220**	<2.0	<2.0	<2.0	**6.2**	<2.0	**7.1**	--
	05/13/97	<10	<10	<10	**360**	<10	<10	<10	<10	<10	<10	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/12/98	<5.0	**7.7**	<5.0	**910**	<5.0	<5.0	<5.0	**14**	<5.0	**16**	--
	09/09/98	<2.0	**4.8**	<2.0	**530**	<2.0	**2.0**	<2.0	**7.6**	<2.0	**15**	--
	11/10/98	<2.0	**2.7**	<2.0	**260**	<2.0	<2.0	<2.0	**2.3**	<2.0	**11**	--
	07/12/99	<5.0	<5.0	<5.0	**390**	<5.0	<5.0	<5.0	<5.0	<5.0	**11**	--
	10/19/99	<5.0	<5.0	<5.0	**360**	<5.0	<5.0	<5.0	<5.0	<5.0	**12**	--
	12/28/99	<5.0	<5.0	<5.0	**300**	<5.0	<5.0	<5.0	<5.0	<5.0	**11**	--
	05/11/00	<0.5	**2.7**	**0.77**	**400**	**0.66**	**1.0**	<0.5	**1.2**	<0.5	**7.0**	--
	12/05/00	<0.5	**2.6**	**0.64**	**250**	**0.68**	**0.9**	<0.5	**1.1**	<0.5	**8.4**	--
	06/12/01	<0.5	**3.1**	<0.5	**470**	<0.5	**0.91**	<0.5	**1.5**	<0.5	**11**	--
	11/06/01	<0.5	**2.9**	**0.57**	**270**	**0.71**	**0.9**	<0.5	**0.64**	<0.5	**9.3**	--
	05/22/02	<0.5	**1.9**	<0.5	**170**	<0.5	<0.5	<0.5	<0.5	<0.5	**5.6**	--
	11/13/02	<1.0	**1.6**	<1.0	**210**	<1.0	<1.0	<1.0	<1.0	<1.0	**6.1**	--
	06/16/03	<0.5	**1.5**	<0.5	**170**	<0.5	**0.75**	<0.5	<0.5	<0.5	**6.4**	--
	11/09/03	<0.5	**2.4**	<0.5	**210**	<0.5	<0.5	<0.5	<0.5	<0.5	**6.5**	--
	06/12/04	<0.5	**1.7**	<0.5	**200**	<0.5	<0.5	<0.5	<0.5	<0.5	**4.7**	--
	10/24/04	<0.5	**0.88**	<0.5	**62**	<0.5	<0.5	<0.5	<0.5	<0.5	**3.2**	--
	11/14/05	<0.5	**2.8**	**0.9**	**210**	<0.5	<0.5	<0.5	<0.5	<0.5	**7.8**	--
	04/23/06	<0.5	**2.7**	**0.95**	**240**	<1.0	<1.0	<1.0	<1.0	<1.0	**5.7**	<0.5
	07/16/06	<0.5	**2.6**	<0.5	**230**	<1.0	<1.0	<1.0	<1.0	<1.0	**6.2**	<1.0
	11/05/06	<1.0	**2.3**	<1.0	**240**	<2.0	<2.0	<2.0	<2.0	<2.0	**6.1**	<1.0
	02/18/07	<2.5	**3.1 J**	<2.5	**360**	<5.0	<5.0	<5.0	<5.0	<5.0	**5.7**	<2.5
	05/14/07	<0.5	**3.1**	**1.2**	**450**	<1.0	<1.0	<1.0	<1.0	<1.0	**6.3**	<1.0
	11/04/07	<2.5	<5.0	<2.5	**310**	<5.0	<5.0	<5.0	<5.0	<5.0	**5.4**	<2.5
	06/29/08	<2.5	<5.0	<2.5	**280**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.5
	11/16/08	<2.5	<5.0	**1.9 J**	**340**	<5.0	<5.0	<5.0	<5.0	<5.0	**3.0 J**	<2.5
	05/28/09	<2.5	<5.0	<2.5	**250**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.5
	10/23/09	<1.0	**2.7**	<1.0	**260**	<2.0	<2.0	<2.0	<2.0	<2.0	**4.8**	<1.0
	12/02/09	<1.0	**2.5**	<1.0	**280**	<2.0	<2.0	<2.0	<2.0	<2.0	**4.5**	<1.0
	02/02/10	<0.5	<1.0	<0.5	**75**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.5**	**1.0**
	06/09/10	<0.5	**1.6**	<0.5	**180**	<1.0	<1.0	<1.0	<1.0	<1.0	**3.8**	<0.5
	09/15/10	<0.5	**2.4**	**0.98**	**260**	<1.0	<1.0	<1.0	<1.0	<1.0	**3.7**	**7.9**

Table 4
Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
RW-01	12/20/10	<0.5	<1.0	<0.5	**1.7**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
(cont'd)	06/09/11	<0.5	**1.9**	**0.62**	**180**	<1.0	<1.0	<1.0	<1.0	<1.0	**2.9**	**6.8**
	11/29/11	<0.5 J	**1.4**	**0.62**	**150**	<1.0	<1.0	<1.0 J	<1.0	<1.0	**2.9**	**5.3**
	05/30/12	<0.5	**1.3**	**0.51**	**160**	<1.0	<1.0	<1.0	<1.0	<1.0	**2.6**	**4.8**
	12/10/12	<0.5	**2.4**	**0.88**	**280**	<1.0	<1.0	<1.0	<1.0	<1.0	**4.4**	**1.2 J**
RW-02	03/17/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	06/13/95	<2.0	<2.0	<2.0	**31**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	09/11/95	<2.0	<2.0	<2.0	**21**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/17/95	<2.0	<2.0	<2.0	**7.4**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	02/13/96	<2.0	<2.0	<2.0	**55**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	08/13/96	<2.0	**5.1**	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**3.1**	--
	11/12/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/13/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/12/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	09/09/98	<2.0	<2.0	<2.0	<5.0	**5.6**	<2.0	<2.0	<2.0	<2.0	**7.0**	--
	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	07/12/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	10/19/99	<5.0	<5.0	<5.0	**11**	**8.3**	<5.0	<5.0	<5.0	<5.0	**7.0**	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/05/00	<0.5	<0.5	<0.5	**3.0**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/01	<0.5	<0.5	<0.5	**3.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/06/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	**4.7**	**2.2**	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/02	<0.5	<0.5	<0.5	**4.2**	**0.98**	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/16/03	<0.5	<0.5	<0.5	**7.6**	**1.1**	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/09/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/24/04	<0.5	<0.5	<0.5	**1.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/05/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	05/12/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/03/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/29/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/16/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	05/28/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	10/26/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/02/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	02/02/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/09/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5

Table 4

Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
RW-02	09/15/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
(cont'd)	12/20/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/09/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/29/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	05/30/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/10/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-03	03/20/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	06/13/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	09/11/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/17/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	02/13/96	<2.0	<2.0	<2.0	**9.4**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/14/96	<2.0	<2.0	<2.0	**13**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	08/13/96	<2.0	**14**	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/12/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/13/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/12/98	<5.0	<5.0	<5.0	**76**	**3.0**	<5.0	<5.0	<5.0	<5.0	<5.0	--
	09/09/98	<2.0	**2.2**	<2.0	**78**	**3.8**	<2.0	<2.0	<2.0	<2.0	**3.1**	--
	11/10/98	<2.0	<2.0	<2.0	**49**	**3.2**	<2.0	<2.0	<2.0	<2.0	<2.0	--
	07/12/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	10/19/99	<5.0	<5.0	<5.0	**100**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	**49**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	<0.5	**1.7**	<0.5	**15**	<0.5	<0.5	<0.5	**0.58**	<0.5	**1.2**	--
Obstructed	12/05/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
by roots 10/01	06/12/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-04	03/20/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	06/13/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	09/11/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/17/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/14/96	<2.0	<2.0	<2.0	**10**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/12/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/13/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/12/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	09/09/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	07/12/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	10/19/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table 4
Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
RW-04	12/05/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
(cont'd)	06/12/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/06/01	<0.5	<0.5	<0.5	<0.5	<0.5	**0.51**	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/11/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/16/03	<0.5	<0.5	<0.5	**16**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.9**	--
	11/09/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/24/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/05/06	<0.5	**1.0**	<0.5	**83**	<1.0	<1.0	<1.0	<1.0	<1.0	**2.4**	<0.5
	05/12/07	<0.5	<1.0	<0.5	**39**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.8**	**2.6**
	11/03/07	<0.5	<1.0	<0.5	**17**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.3**
	06/29/08	<0.5	<1.0	<0.5	**3.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/16/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	05/28/09	<0.5	<1.0	<0.5	**1.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/09/09	<0.5	<1.0	<0.5	**1.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/11/10	<0.5	**1.8**	<0.5	**250**	<1.0	<1.0	<1.0	<1.0	<1.0	**4.3**	**0.84**
	07/07/10	<0.5	**1.6**	<0.5	**150**	<1.0	<1.0	<1.0	<1.0	<1.0	**4.0**	<0.5
	09/08/10	<0.5	**1.9**	<0.5	**170**	**1.1**	<1.0	<1.0	<1.0	<1.0	**3.6**	**12**
	12/21/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.7**
	06/15/11	<0.5	<1.0	<0.5	**18**	**1.2**	<1.0	<1.0	<1.0	<1.0	**2.9**	<0.5
	12/27/11	<0.5	<1.0	<0.5	**4.2**	**1.7**	<1.0	<1.0	<1.0	<1.0	<1.0	**50**
	06/07/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**18**
	12/06/12	<0.5	<1.0	<0.5	**3.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**34**
RW-05	03/17/95	<2.0	<5.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	06/13/95	<2.0	<5.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	09/11/95	<2.0	<5.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/17/95	<2.0	<5.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	02/13/96	<2.0	<5.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/14/96	<2.0	<5.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	08/13/96	<2.0	<5.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/13/96	<2.0	<5.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/13/97	<2.0	<5.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	12/16/97	<2.0	<5.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	09/09/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	07/12/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	10/19/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/05/00	<0.5	**3.3**	**0.89**	**280**	**0.69**	**0.59**	<0.5	<0.5	<0.5	**8.4**	--

Table 4

Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
RW-05	06/12/01	<0.5	**2.6**	<0.5	**250**	**1.2**	<0.5	<0.5	<0.5	<0.5	**6.8**	--
(cont'd)	11/06/01	<0.5	<0.5	<0.5	**0.57**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/16/03	**0.72**	<0.5	<0.5	**15**	<0.5	<0.5	<0.5	<0.5	<0.5	**3.2**	--
	11/09/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/24/04	<0.5	<0.5	<0.5	**2.7**	<0.5	<0.5	<0.5	<0.5	<0.5	**0.92**	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/05/06	<0.5	**1.4**	<0.5	**82**	<1.0	<1.0	<1.0	<1.0	<1.0	**3.2**	<0.5
	05/12/07	<0.5	<1.0	<0.5	**11**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/03/07	<0.5	<1.0	<0.5	**1.9**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/29/08	<0.5	<1.0	<0.5	**1.9**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/16/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	05/28/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/09/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/11/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/21/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/16/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/27/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/07/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/06/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-06	03/17/95	**810**	<20	<20	**1,100**	<2.0	<20	**130**	**48**	<20	**37**	--
	06/13/95	**250**	<20	<20	**1,400**	<2.0	<20	**37**	**67**	<20	**24**	--
	09/11/95	**80**	<20	<20	**730**	<2.0	<20	<20	**50**	<20	<20	--
	11/17/95	**59**	**7.9**	<5.0	**300**	<2.0	<5.0	**7.3**	**16**	<5.0	**10**	--
	02/13/96	**5.8**	**2.9**	<2.0	**230**	<2.0	<2.0	<2.0	**6.8**	<2.0	**7.0**	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	08/13/96	**3.1**	**68**	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**2.0**	--
	11/12/96	**9.8**	<2.0	<2.0	**23**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/13/97	<2.0	<2.0	<2.0	**19**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	12/16/97	**2.1**	<2.0	<2.0	**23**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/12/98	<5.0	<5.0	<5.0	**12**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	09/09/98	<2.0	**3.0**	<2.0	**170**	<2.0	<2.0	<2.0	**4.6**	<2.0	**7.5**	--
	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	07/12/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	10/19/99	<5.0	<5.0	<5.0	**100**	<5.0	<5.0	<5.0	<5.0	<5.0	**7.4**	--
	12/28/99	<5.0	<5.0	<5.0	**19**	<5.0	<5.0	<5.0	<5.0	<5.0	**9.9**	--
	05/11/00	**0.63**	<0.5	<0.5	**36**	<0.5	**1.2**	<0.5	<0.5	<0.5	**4.4**	--
	12/05/00	**4.4**	<0.5	<0.5	**19**	**0.76**	**1.4**	<0.5	<0.5	<0.5	**4.4**	--
	06/12/01	**2.5**	**2.1**	<0.5	**130**	<0.5	**0.95**	<0.5	<0.5	<0.5	**4.6**	--
	11/06/01	**0.55**	**1.6**	**0.82**	**170**	**0.59**	**3.1**	<0.5	**0.93**	<0.5	**13**	--

Table 4

Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
RW-06	05/22/02	**2.9**	<0.5	<0.5	**21**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.1**	--
(cont'd)	11/13/02	**1.4**	<0.5	<0.5	**34**	**0.73**	**0.94**	<0.5	<0.5	<0.5	**5.3**	--
	06/16/03	**0.61**	<0.5	<0.5	**20**	<0.5	**1.2**	<0.5	<0.5	<0.5	**4.9**	--
	11/11/03	<0.5	<0.5	<0.5	**16**	<0.5	**0.87**	<0.5	<0.5	<0.5	**3.3**	--
	03/22/04	**0.86**	<0.5	<0.5	**25**	**1.2**	**1.0**	<0.5	<0.5	<0.5	**5.5**	--
	06/09/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/24/04	<0.5	<0.5	<0.5	**11**	**0.52**	**2.3**	<0.5	<0.5	<0.5	**2.7**	--
	11/14/05	<0.5	<0.5	<0.5	**0.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/05/06	<0.5	<1.0	<0.5	**18**	<1.0	<1.0	<1.0	<1.0	<1.0	**2.1**	**1.4**
	05/12/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/03/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/29/08	<0.5	<1.0	<0.5	**4.8**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/16/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	05/28/09	<0.5	<1.0	<0.5	**15**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.6**
	12/09/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/11/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/22/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/17/11	<0.5	<1.0	<0.5	**1.9**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/27/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/07/12	<0.5	<1.0	<0.5	**25**	**2.3**	<1.0	<1.0	<1.0	<1.0	**1.7**	**7.6**
	12/06/12	<0.5	<1.0	<0.5	**14**	**2.0**	<1.0	<1.0	<1.0	<1.0	**1.5**	**2.2**
RW-07	03/17/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	06/13/95	<2.0	<2.0	<2.0	**29**	<2.0	<2.0	<2.0	<2.0	<2.0	**4.0**	--
	09/11/95	<2.0	<2.0	<2.0	**6.6**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/17/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	02/13/96	<2.0	<2.0	<2.0	**15**	<2.0	<2.0	<2.0	<2.0	<2.0	**2.3**	--
	05/14/96	<2.0	<2.0	<2.0	**8.1**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/12/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/13/97	<2.0	<2.0	<2.0	**9.1**	<2.0	<2.0	<2.0	<2.0	<2.0	**2.5**	--
	05/12/98	<5.0	<5.0	<5.0	**6.5**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	09/09/98	<2.0	<2.0	<2.0	**8.2**	<2.0	<2.0	<2.0	<2.0	<2.0	**2.6**	--
	11/10/98	<2.0	<2.0	<2.0	**23**	<2.0	<2.0	<2.0	<2.0	<2.0	**5.5**	--
	07/12/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	10/19/99	<5.0	<5.0	<5.0	**33**	<5.0	<5.0	<5.0	<5.0	<5.0	**7.8**	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	<0.5	<0.5	<0.5	**0.63**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/05/00	<0.5	<0.5	<0.5	**2.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/01	<0.5	<0.5	<0.5	**5.9**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.0**	--
	11/06/01	<0.5	**1.5**	<0.5	**20**	**0.51**	<0.5	<0.5	<0.5	<0.5	**4.5**	--
	05/22/02	<0.5	**1.6**	<0.5	**45**	<0.5	<0.5	<0.5	<0.5	<0.5	**6.0**	--
	11/11/02	<0.5	<0.5	<0.5	**11**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.2**	--

Table 4

Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
RW-07	06/16/03	<0.5	**1.4**	<0.5	**36**	<0.5	<0.5	<0.5	<0.5	<0.5	**5.6**	--
(cont'd)	11/09/03	<0.5	<0.5	<0.5	**3.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/04	<0.5	<0.5	<0.5	**1.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/24/04	<0.5	<0.5	<0.5	**6.3**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.2**	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/12/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/03/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/29/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/16/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	05/28/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/09/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/11/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/21/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/15/11	<0.5	<1.0	<0.5	**27**	<1.0	**1.2**	<1.0	<1.0	<1.0	**5.7**	<0.5
	12/27/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/07/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/06/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-08	03/17/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	06/13/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/17/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/12/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/13/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	12/16/97	<2.0	<2.0	<2.0	**5.0**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/12/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	09/09/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	07/12/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	10/19/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	<0.5	<0.5	<0.5	**0.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/05/00	<0.5	<0.5	<0.5	**1.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/06/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/16/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/09/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/24/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table 4

Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
RW-08	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
(cont'd)	05/12/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/03/07	<0.5	<1.0	<0.5	**15**	**7.5**	**6.1**	<1.0	<1.0	<1.0	**31**	<0.5
	06/29/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/16/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	05/28/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/09/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/11/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/23/10	<0.5	<1.0	<0.5	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.7**
	06/17/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/27/11	<0.5	<1.0	<0.5	**1.8**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/07/12	<0.5	<1.0	<0.5	**4.0**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.71**
	12/06/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-09	03/17/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	06/13/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	--
	09/11/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/17/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/12/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/13/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/12/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	09/09/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	07/12/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	10/19/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/05/00	<0.5	<0.5	<0.5	**2.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/06/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/16/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/09/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/24/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/12/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/03/07	<0.5	<1.0	<0.5	**11**	**6.5**	**4.5**	<1.0	<1.0	<1.0	**21**	<0.5

Table 4

Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
RW-09	06/29/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
(cont'd)	11/16/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	05/28/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/09/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/11/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/23/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/17/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/28/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/07/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/06/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-10	03/17/95	<20	<20	<20	**1,600**	<2.0	<20	<20	<20	**200**	<20	--
	06/13/95	<20	<20	<20	**1,900**	<2.0	<20	<20	**180**	<20	<20	--
	09/11/95	<20	<20	<20	**990**	<2.0	<20	<20	**100**	<20	<20	--
	11/17/95	<20	<20	<20	**720**	<2.0	<20	<20	**70**	<20	<20	--
	02/13/96	<10	<10	<10	**540**	<10	<10	<10	**35**	<2.0	<10	--
	05/14/96	<10	<10	<10	**350**	<10	<10	<10	**25**	<2.0	<10	--
	08/13/96	<2.0	**7.1**	**2.0**	**680**	<2.0	<2.0	<2.0	**37**	<2.0	**12**	--
	11/12/96	<10	<10	<10	**590**	<2.0	<10	<10	**40**	<10	**11**	--
	05/13/97	<10	<10	<10	**710**	<10	<10	<10	**35**	<10	<10	--
	12/16/97	<10	<10	<10	**450**	<10	<10	<10	**16**	<10	<10	--
	05/12/98	<5.0	<5.0	<5.0	**350**	<5.0	<5.0	<5.0	**12**	<5.0	**6.5**	--
	09/09/98	<2.0	**6.1**	**2.2**	**650**	<2.0	<2.0	<2.0	**20**	<2.0	**13**	--
	11/10/98	<2.0	<2.0	<2.0	**440**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	07/12/99	<5.0	<5.0	<5.0	**700**	<5.0	<5.0	<5.0	<5.0	<5.0	**9.1**	--
	10/19/99	<5.0	**7.2**	<5.0	**780**	<5.0	<5.0	<5.0	**17**	<5.0	**13**	--
	12/28/99	<5.0	**6.3**	<5.0	**440**	<5.0	<5.0	<5.0	<5.0	<5.0	**110**	--
	05/11/00	<0.5	**5.3**	**2.3**	**670**	<0.5	**1.2**	<0.5	**8.5**	<0.5	**10**	--
	12/05/00	<0.5	**4.6**	**1.7**	**450**	<0.5	**1.3**	<0.5	**5.5**	**0.55**	**14**	--
	06/12/01	<0.5	**5.6**	**1.2**	**610**	<0.5	**0.78**	<0.5	**4.1**	<0.5	**13**	--
	05/22/02	<0.5	**1.3**	**1.0**	**100**	<0.5	<0.5	<0.5	**0.6**	<0.5	**3.9**	--
	11/13/02	<0.5	**3.6**	**1.3**	**310**	<0.5	<0.5	<0.5	**2.7**	<0.5	**8.4**	--
	06/16/03	<0.5	**1.6**	<0.5	**160**	<0.5	<0.5	<0.5	**1.3**	<0.5	**4.7**	--
	11/09/03	<0.5	**2.8**	<0.5	**330**	<0.5	<0.5	<0.5	**2.7**	<0.5	**4.2**	--
	06/12/04	<0.5	**1.7**	<0.5	**240**	<0.5	<0.5	<0.5	**1.4**	<0.5	**4.6**	--
	10/24/04	<0.5	<0.5	<0.5	**26**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.2**	--
	11/14/05	<0.5	**2.0**	**0.88**	**190**	<0.5	<0.5	<0.5	**0.91**	<0.5	**3.1**	--
	04/23/06	<0.5	**2.7**	**0.95**	**96**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.4**	<0.5
	07/16/06	<0.5	<1.0	**0.63**	**91**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.2**	**2.1**
	11/05/06	<0.5	<1.0	<0.5	**5.8**	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0	**5.1**
	02/18/07	<0.5	**0.60 J**	<0.5	**3.4**	<1.0	<1.0	**0.44 J**	<1.0	<1.0	<1.0	**58**
	05/14/07	<0.5	<1.0	<0.5	**3.4**	<1.0	<1.0	**5.0**	<1.0	<1.0	<1.0	**42**
	11/04/07	<0.5	<1.0	<0.5	**2.8**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**45**

Table 4

Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
RW-10	06/29/08	<0.5	**1.9**	**0.84**	**72**	**2.2**	<1.0	<1.0	<1.0	<1.0	<1.0	**99**
(cont'd)	11/16/08	<0.5	**2.1**	**0.8**	**88**	**1.4**	<1.0	<1.0	<1.0	<1.0	**1.1**	**120**
	05/28/09	<0.5	**2.8**	<0.5	**76**	**1.5**	<1.0	<1.0	<1.0	<1.0	**1.3**	**85**
	10/23/09	<0.5	**1.6**	**0.5**	**23**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**80**
	12/02/09	<0.5	<1.0	<0.5	**18**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**7.6**
	02/02/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	**5.0**	<1.0	<1.0	<1.0	**6.7**
	06/09/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	**5.2**	<1.0	<1.0	<1.0	**10**
	09/15/10	<0.5	<1.0	<0.5	**1.0**	<1.0	<1.0	**3.8**	<1.0	<1.0	<1.0	**13**
	12/20/10	<0.5	<1.0	<0.5	**1.0**	<1.0	<1.0	**1.5**	<1.0	<1.0	<1.0	**25**
	06/09/11	<0.5	**1.7**	**0.63**	**2.9**	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0	**120J**
	11/29/11	<0.5	**1.0**	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**98**
	05/30/12	<0.5	**1.5**	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**100**
	12/10/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**63**
RW-11	03/17/95	<10	<10	<10	**770**	<2.0	<10	<10	**87**	<10	<10	--
	06/13/95	<20	<20	<20	**250**	<2.0	<20	<20	**25**	<20	<20	--
	09/11/95	<5.0	<5.0	<5.0	**210**	<2.0	<5.0	<5.0	**25**	<5.0	<5.0	--
	11/17/95	<10	<10	<10	**460**	<2.0	<10	<10	**49**	<10	<10	--
	02/13/96	<5.0	<5.0	<5.0	**290**	<2.0	<5.0	<5.0	**19**	<2.0	<5.0	--
	05/14/96	<2.0	**2.3**	<2.0	**100**	<2.0	<2.0	<2.0	**11**	<2.0	**2.1**	--
	08/13/96	<2.0	**4.9**	**2.3**	**630**	<2.0	<2.0	<2.0	**34**	<2.0	**8.8**	--
	11/12/96	<10	<10	<10	**540**	<10	<10	<10	**36**	<10	<10	--
	05/13/97	<20	<20	<20	**1,100**	<20	<20	<20	**46**	<20	<20	--
	12/16/97	<10	<10	<10	**350**	<10	<10	<10	**16**	<10	<10	--
	05/12/98	<5.0	<5.0	<5.0	**67**	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0	--
	09/09/98	<2.0	**2.2**	<2.0	**260**	<2.0	<2.0	<2.0	**5.4**	<2.0	**5.4**	--
	11/10/98	<2.0	<2.0	<2.0	**170**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	07/12/99	<5.0	<5.0	<5.0	**210**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	10/19/99	<5.0	**5.2**	<5.0	**540**	<5.0	<5.0	<5.0	**9.5**	<5.0	**9.5**	--
	12/28/99	<5.0	**6.1**	<5.0	**400**	<5.0	<5.0	<5.0	<5.0	<5.0	**8.2**	--
	05/11/00	<0.5	**2.9**	**1.1**	**480**	<0.5	**0.72**	<0.5	**3.5**	<0.5	**5.1**	--
	12/05/00	<0.5	**4.3**	**1.6**	**620**	<0.5	**1.1**	<0.5	**3.8**	<0.5	**8.3**	--
	06/12/01	<0.5	<0.5	<0.5	**110**	<0.5	<0.5	<0.5	<0.5	<0.5	**2.7**	--
	11/06/01	<1.0	**4.2**	**1.8**	**410**	<1.0	**2.6**	<1.0	**3.2**	<1.0	**21**	--
	05/22/02	<0.5	**0.78**	<0.5	**27**	<0.5	<0.5	<0.5	<0.5	<0.5	**3.4**	--
	11/13/02	<0.5	**0.71**	<0.5	**79**	<0.5	<0.5	<0.5	<0.5	<0.5	**2.5**	--
	06/16/03	<0.5	<0.5	<0.5	**22**	<0.5	**1.0**	<0.5	<0.5	<0.5	**4.0**	--
	11/09/03	<0.5	<0.5	<0.5	**2.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/04	<0.5	**0.92**	<0.5	**110**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.7**	--
	10/24/04	<0.5	<0.5	<0.5	**21**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.6**	--
	11/13/05	<0.5	<0.5	<0.5	**45**	<0.5	<0.5	<0.5	<0.5	<0.5	**3.1**	--
	04/23/06	<0.5	**1.2**	<0.5	**130**	<0.5	<0.5	<0.5	<0.5	<0.5	**2.5**	<0.5
	07/16/06	<0.5	**1.5**	**0.52**	**190**	<1.0	<1.0	<1.0	<1.0	<1.0	**2.2**	**11**

Table 4

Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
RW-11	11/04/06	<1.0	<2.0	<1.0	**60**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**7.4**
(cont'd)	02/18/07	<0.5	<1.0	<0.5	**18**	<1.0	<1.0	<1.0	<1.0	<1.0	**0.35J**	**5.5**
	05/14/07	<0.5	<1.0	<0.5	**24**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**3.0**
	11/04/07	<0.5	<1.0	<0.5	**27**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.4**
	06/29/08	<0.5	<1.0	<0.5	**21**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/16/08	<0.5	<1.0	<0.5	**36**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	05/28/09	<0.5	<1.0	<0.5	**12**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	10/23/09	<0.5	<1.0	<0.5	**36**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/02/09	<0.5	<1.0	<0.5	**100**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	02/02/10	<0.5	<1.0	<0.5	**28**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/09/10	<0.5	<1.0	<0.5	**33**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	09/15/10	<0.5	<1.0	<0.5	**49**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/20/10	<0.5	<1.0	<0.5	**20**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/09/11	<0.5	<1.0	<0.5	**92**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/29/11	<0.5	<1.0	<0.5	**91**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.0**	<0.5
	05/30/12	<0.5	<1.0	<0.5	**70**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	09/18/12	<0.5	<1.0	<0.5	**57**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/06/12	<0.5	<1.0	<0.5	**57**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.0**	<0.5
	12/10/12	<0.5	<1.0	<0.5	**70**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-12	03/17/95	**7.6**	**10**	<5.0	**250**	<2.0	<5.0	<5.0	<5.0	<5.0	**27**	--
	06/13/95	<10.0	<10	<10	**410**	<2.0	<10	<10	<10	<10	**26**	--
	09/11/95	<10.0	**5.6**	<10	**220**	<2.0	<10	<10	**13**	<10	**9.5**	--
	11/17/95	<2.0	**8.4**	<2.0	**210**	<2.0	<2.0	<2.0	<2.0	<2.0	**19**	--
	02/13/96	**2.9**	**7.6**	<2.0	**240**	<2.0	<2.0	<2.0	<2.0	<2.0	**17**	--
	05/14/96	<2.0	**5.0**	<2.0	**100**	<2.0	<2.0	<2.0	<2.0	<2.0	**10**	--
	08/13/96	**2.3**	**7.6**	<2.0	**180**	<2.0	<2.0	<2.0	<2.0	<2.0	**18**	--
	11/12/96	<2.0	**5.6**	<2.0	**100**	<2.0	<2.0	<2.0	<2.0	<2.0	**16**	--
	05/13/97	<2.0	**4.5**	<2.0	**73**	<2.0	<2.0	<2.0	<2.0	<2.0	**13**	--
	12/16/97	<2.0	**2.3**	<2.0	**32**	<2.0	<2.0	<2.0	<2.0	<2.0	**7.1**	--
	05/12/98	<5.0	<5.0	<5.0	**50**	<5.0	<5.0	<5.0	<5.0	<5.0	**9.5**	--
Well abandoned	09/09/98	<2.0	**5.7**	<2.0	**120**	<2.0	<2.0	<2.0	<2.0	<2.0	**16**	--
in 1999	11/10/98	<2.0	**3.5**	<2.0	**67**	<2.0	<2.0	<2.0	<2.0	<2.0	**11**	--
RW-13	03/17/95	<2.0	<2.0	<2.0	**12**	<2.0	<2.0	<2.0	<2.0	<2.0	**6.9**	--
	06/13/95	<2.0	<2.0	<2.0	**110**	<2.0	**4.9**	<2.0	<2.0	<2.0	**24**	--
	09/11/95	<2.0	<2.0	<2.0	**26**	<2.0	<2.0	<2.0	<2.0	<2.0	**7.0**	--
	11/17/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**2.6**	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/12/96	<2.0	<2.0	<2.0	**68**	**3.5**	**5.7**	<2.0	**4.3**	<2.0	**30**	--
	05/13/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--

Table 4
Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
RW-13	05/12/98	<5.0	<5.0	<5.0	**7.4**	<5.0	<5.0	<5.0	<5.0	<5.0	**6.2**	--
(cont'd)	09/09/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**3.0**	--
	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	07/12/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	10/19/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	<0.5	<0.5	<0.5	**0.59**	<0.5	<0.5	<0.5	<0.5	<0.5	**0.58**	--
	12/05/00	<0.5	<0.5	<0.5	**1.0**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.4**	--
	06/12/01	<0.5	<0.5	<0.5	**1.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/06/01	<0.5	<0.5	<0.5	**1.8**	<0.5	**0.51**	<0.5	<0.5	<0.5	**2.3**	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/11/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.69**	--
	06/16/03	<0.5	<0.5	<0.5	**2.8**	<0.5	**0.69**	<0.5	<0.5	<0.5	**2.8**	--
	11/09/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/24/04	<0.5	<0.5	<0.5	**1.1**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.5**	--
	11/14/05	<0.5	<0.5	<0.5	**0.92**	<0.5	**0.5**	<0.5	<0.5	<0.5	**2.6**	--
	11/05/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	05/12/07	<0.5	<1.0	<0.5	<1.0	**7.1**	<1.0	<1.0	<1.0	<1.0	<1.0	**2.9**
	11/03/07	<0.5	<1.0	<0.5	**9.5**	**4.7**	**4.0**	<1.0	<1.0	<1.0	**19**	<0.5
	06/29/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/16/08	<0.5	<1.0	<0.5	**36**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	05/28/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/09/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/11/10	<0.5	<1.0	<0.5	**1.7**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/23/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/17/11	<0.5	<1.0	<0.5	**1.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/28/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/07/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/06/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-14	03/17/95	<100	<100	<100	**5,500**	<2.0	<100	<100	**670**	<100	<100	--
	06/13/95	<100	<100	<100	**5,300**	<2.0	<100	<100	**620**	<100	<100	--
	09/11/95	<100	<100	<100	**5,300**	<2.0	<100	<100	**570**	<100	<100	--
	11/17/95	<50	<50	<50	**3,500**	<2.0	<50	<50	**350**	<50	<50	--
	02/13/96	<40	<40	<40	**2,300**	<40	<40	<40	**160**	<2.0	<40	--
	05/14/96	<2.0	<2.0	**3.6**	**7.7**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	08/13/96	<2.0	**10**	**7.4**	**610**	<2.0	<2.0	<2.0	**43**	**2.0**	**7.2**	--
	11/12/96	<40	<40	<40	**1.5**	<40	<40	<40	**99**	<40	<40	--
	05/13/97	<20	<20	<20	**1.4**	<20	<20	<20	**80**	<20	<20	--
	12/16/97	<10	**11**	<10	**860**	<10	<10	<10	**33**	<10	**15**	--
	05/12/98	<5.0	**11**	**7.0**	**1,000**	<5.0	<5.0	<5.0	**45**	<5.0	**5.8**	--
	09/09/98	<2.0	**16**	**9.5**	**1,500**	<2.0	**3.6**	<2.0	**50**	**3.0**	**15**	--

Table 4
Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
RW-14	11/10/98	<20	<20	<20	**290**	<20	<20	<20	<20	<20	<20	--
(cont'd)	07/12/99	<5.0	**7.0**	**8.0**	**760**	<5.0	<5.0	<5.0	**20**	<5.0	**13**	--
	10/19/99	<5.0	**14**	**8.1**	**2,200**	<5.0	<5.0	<5.0	**30**	<5.0	**18**	--
	12/28/99	<0.5	**11**	**9.6**	**1,200**	<5.0	**5.3**	<5.0	<5.0	<5.0	**17**	--
	05/11/00	<0.5	**9.4**	**6.4**	**1,900**	<0.5	**3.6**	<0.5	**13**	<0.5	**12**	--
	12/05/00	--	**7.7**	**4.6**	**1,500**	--	**3.4**	--	**8.6**	**1.4**	**15**	--
	06/12/01	<0.5	**12**	**5.2**	**800**	**1.8**	**4.1**	<0.5	**10**	<0.5	**17**	--
	11/06/01	<5.0	**12**	**7.3**	**1500**	<5.0	<5.0	<5.0	**12**	<5.0	**13**	--
	05/22/02	<5.0	**6.7**	<5.0	**770**	<5.0	<5.0	<5.0	<5.0	<5.0	**9.3**	--
	11/13/02	<5.0	**7.8**	<5.0	**1,400**	<5.0	<5.0	<5.0	<5.0	<5.0	**13**	--
	06/16/03	<2.5	<2.5	<2.5	**500**	<2.5	<2.5	<2.5	<2.5	<2.5	**8.1**	--
	11/11/03	<1.0	**8.0**	<1.0	**750**	**6.0**	<1.0	<1.0	<1.0	<1.0	**2.9**	--
	03/22/04	<1.0	**3.9**	**1.8**	**6.4**	<0.5	**0.82**	<1.0	<1.0	<1.0	<0.5	--
	06/09/04	<1.0	**1.9**	<0.5	**6.3**	<0.5	**0.63**	<1.0	<1.0	<1.0	<0.5	--
	10/24/04	<0.5	**4.9**	**3.0**	**380**	**0.98**	**3.3**	<0.5	**1.0**	<0.5	**5.1**	--
	11/13/05	<1.0	**6.0**	**4.2**	**420**	<1.0	<1.0	<1.0	<1.0	<1.0	**4.0**	--
	04/23/06	<0.5	<1.0	**0.5**	**45**	<1.0	<1.0	<1.0	<1.0	<1.0	**2.5**	**6.8**
	07/17/06	<0.5	**3.9**	**2.1**	**300**	<1.0	<1.0	<1.0	<1.0	<1.0	**3.4**	**23**
	11/04/06	<2.5	**5.4**	**3.4**	**240**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**230**
	05/13/07	<0.5	**1.3**	**2.1**	**73**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**38**
	11/03/07	<0.5	**4.6**	**3.7**	**260**	**1.9**	<1.0	<1.0	<1.0	<1.0	**1.8**	**110**
	06/29/08	<2.5	<5.0	<2.5	**450**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**34**
	11/16/08	<2.5	<5.0	<2.5	**250**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**110**
	05/28/09	<0.5	**2.1**	**0.63**	**56**	**4.7**	<1.0	<1.0	<1.0	<1.0	**2.0**	**76**
	12/09/09	<0.5	**2.7**	**1.0**	**170**	**4.4**	<1.0	<1.0	<1.0	<1.0	**4.6**	**55**
	06/11/10	<0.5	**5.3**	**3.6**	**400**	**1.5**	<1.0	<1.0	<1.0	<1.0	**3.3**	**51**
	12/22/10	<0.5	<1.0	<0.5	**17**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**3.5**
	06/15/11	<2.5	<5.0	**3.1**	**580**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.5
	12/27/11	<2.5	<5.0	<2.5	**430**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**41**
	06/07/12	<0.5	**2.0**	**0.97**	**80**	**1.6**	<1.0	<1.0	<1.0	<1.0	**1.4**	**65**
	09/18/12	<0.5	**3.5**	**1.8J**	**190**	**2.3**	<1.0	<1.0	<1.0	<1.0	**2.8**	**54**
	11/06/12	<0.5	**4.1**	**2.4**	**280**	**2.5**	<1.0	<1.0	<1.0	<1.0	**3.0**	**73**
	12/10/12	<0.5	**3.8**	**2.6**	**370**	**2.8**	<1.0	<1.0	<1.0	<1.0	**2.7**	**78**
RW-15	03/17/95	<10	<10	<10	**490**	<2.0	<10	<10	**100**	<10	**22**	--
	06/13/95	<20	<20	<20	**740**	<2.0	<20	<20	**110**	<20	<20	--
	09/11/95	<5.0	<5.0	<5.0	**550**	<2.0	<5.0	<5.0	**62**	<5.0	**16**	--
	11/17/95	<10	<10	<10	**320**	<2.0	<10	<10	**41**	<10	**17**	--
	02/13/96	<4.0	<4.0	<4.0	**180**	<4.0	<4.0	<4.0	**12**	<2.0	**6.5**	--
	05/14/96	<2.0	<2.0	<2.0	**62**	<2.0	<2.0	<2.0	**5.3**	<2.0	**3.6**	--
	08/13/96	<2.0	<2.0	<2.0	**94**	<2.0	<2.0	<2.0	**5.7**	<2.0	**6.7**	--
	11/12/96	<2.0	<2.0	<2.0	**94**	<2.0	**2.1**	<2.0	**6.5**	<2.0	**11**	--
	05/13/97	<2.0	<2.0	<2.0	**110**	<2.0	**2.4**	<2.0	**6.6**	<2.0	**9.1**	--

Table 4
Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
RW-15	12/16/97	<2.0	<2.0	<2.0	**190**	<2.0	**8.6**	<2.0	**5.6**	<2.0	**28**	--
(cont'd)	05/12/98	<5.0	<5.0	<5.0	**54**	<5.0	<5.0	<5.0	<5.0	<5.0	**5.3**	--
	09/09/98	<2.0	<2.0	<2.0	**97**	<2.0	**2.7**	<2.0	**4.9**	<2.0	**7.3**	--
	11/10/98	<8.0	<8.0	<8.0	**180**	<8.0	<8.0	<8.0	<8.0	<8.0	**8.6**	--
	07/12/99	<5.0	<5.0	<5.0	**44**	<5.0	<5.0	<5.0	<5.0	<5.0	**7.1**	--
	10/19/99	<5.0	<5.0	<5.0	**96**	<5.0	<5.0	<5.0	<5.0	<5.0	**11**	--
	12/28/99	<5.0	<5.0	<5.0	**86**	<5.0	<5.0	<5.0	<5.0	<5.0	**9.8**	--
	11/13/05	<0.5	<0.5	<0.5	**34**	<0.5	**1.9**	<0.5	<0.5	<0.5	**5.5**	--
	07/18/06	<0.5	<1.0	<0.5	**51**	<1.0	**2.8**	<1.0	**8.9**	<1.0	<1.0	--
	04/23/06	<0.5	<1.0	<0.5	**21**	<1.0	**2.6**	<1.0	<1.0	<1.0	**6.1**	<0.5
	11/04/06	<0.5	<1.0	<0.5	**22**	<1.0	**1.7**	<1.0	<1.0	<1.0	**5.9**	<0.5
	05/13/07	<0.5	<1.0	<0.5	**53**	<1.0	**3.0**	<1.0	<1.0	<1.0	**8.3**	<0.5
	11/03/07	<0.5	<1.0	<0.5	**42**	<1.0	**1.5**	<1.0	<1.0	<1.0	**5.8**	<0.5
	06/29/08	<0.5	<1.0	<0.5	**20**	<1.0	<1.0	<1.0	<1.0	<1.0	**4.2**	<0.5
	11/16/08	<0.5	<1.0	<0.5	**4.7**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.9**	<0.5
	05/28/09	<0.5	<1.0	<0.5	**56**	<1.0	**1.5**	<1.0	<1.0	<1.0	**6.8**	<0.5
	12/09/09	<0.5	<1.0	<0.5	**100**	<1.0	**2.2**	<1.0	<1.0	<1.0	**8.5**	<0.5
	06/11/10	<0.5	<1.0	<0.5	**16**	<1.0	**1.0 J**	<1.0	<1.0	<1.0	**3.6**	<0.5
	12/22/10	<0.5	<1.0	<0.5	**9.9**	<1.0	<1.0	<1.0	<1.0	<1.0	**2.1**	<0.5
	06/15/11	<0.5	<1.0	<0.5	**30**	<1.0	<1.0	<1.0	<1.0	<1.0	**2.3**	<0.5
	12/28/11	<0.5	<1.0	<0.5	**24**	<1.0	**1.9**	<1.0	<1.0	<1.0	**6.6**	<0.5
	06/07/12	<0.5	<1.0	<0.5	**24**	<1.0	**2.1**	<1.0	<1.0	<1.0	**6.4**	<0.5
	09/18/12	<0.5	<1.0	<0.5	**41**	<1.0	**2.7**	<1.0	<1.0	<1.0	**7.7**	<0.5
	11/06/12	<0.5	<1.0	<0.5	**29**	<1.0	**1.8**	<1.0	<1.0	<1.0	**7.2**	<0.5
	12/10/12	<0.5	<1.0	<0.5	**63**	<1.0	**3.7**	<1.0	<1.0	<1.0	**14**	**0.54**
RW-16	03/17/95	<4.0	<4.0	<4.0	**280**	<2.0	**12**	<4.0	<4.0	<4.0	**67**	--
	06/13/95	<2.0	<2.0	<2.0	**150**	<2.0	**15**	<2.0	**2.2**	<2.0	**57**	--
	09/11/95	<2.0	<2.0	<2.0	**85**	<2.0	**6.7**	<2.0	**2.2**	<2.0	**37**	--
	11/17/95	<2.0	<2.0	<2.0	**59**	<2.0	<2.0	<2.0	<2.0	<2.0	**28**	--
	02/13/96	<2.0	<2.0	<2.0	**28**	<2.0	**2.3**	<2.0	<2.0	<2.0	**9.4**	--
	05/14/96	<2.0	<2.0	<2.0	**13**	<2.0	<2.0	<2.0	<2.0	<2.0	**3.8**	--
	08/13/96	<2.0	<2.0	<2.0	**28**	<2.0	**3.4**	<2.0	<2.0	<2.0	**20**	--
	11/12/96	<2.0	<2.0	<2.0	**22**	<2.0	**3.7**	<2.0	<2.0	<2.0	**19**	--
	05/13/97	<2.0	<2.0	<2.0	**21**	<2.0	**17**	<2.0	<2.0	<2.0	**74**	--
	12/16/97	<2.0	<2.0	<2.0	**60**	<2.0	**9.8**	<2.0	<2.0	<2.0	**37**	--
	05/12/98	<5.0	<5.0	<5.0	**180**	<5.0	**9.9**	<5.0	<5.0	<5.0	**43**	--
	09/09/98	<2.0	<2.0	<2.0	**44**	<2.0	**9.9**	<2.0	<2.0	<2.0	**42**	--
	11/10/98	<2.0	<2.0	<2.0	**56**	<2.0	**12**	<2.0	<2.0	<2.0	**58**	--
	07/12/99	<5.0	<5.0	<5.0	**53**	<5.0	**9.7**	<5.0	<5.0	<5.0	**47**	--
	10/19/99	<5.0	<5.0	<5.0	**170**	<5.0	**6.3**	<5.0	<5.0	<5.0	**30**	--
	12/28/99	<5.0	<5.0	<5.0	**92**	<5.0	**18**	<5.0	<5.0	<5.0	**65**	--
	05/11/00	<0.5	**1.1**	<0.5	**130**	<0.5	**15**	<0.5	<0.5	<0.5	**48**	--

Table 4
Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
RW-16	12/05/00	<0.5	**1.1**	**0.89**	**140**	<0.5	**12**	<0.5	<0.5	<0.5	**52**	--
(cont'd)	06/12/01	<0.5	<0.5	<0.5	**100**	<0.5	**7.8**	<0.5	--	<0.5	**35**	--
	11/06/01	<0.5	**1.4**	**0.69**	**140**	**0.53**	**11**	<0.5	<0.5	<0.5	**45**	--
	05/22/02	<0.5	**0.91**	<0.5	**96**	**1.6**	**12**	<0.5	<0.5	<0.5	**52**	--
	11/13/02	<0.5	<0.5	<0.5	**130**	**1.4**	**6.1**	<0.5	<0.5	<0.5	**36**	--
	06/16/03	<0.5	<0.5	<0.5	**71**	<0.5	**15**	<0.5	<0.5	<0.5	**47**	--
	11/09/03	<0.5	<0.5	<0.5	**79**	**0.74**	**17**	<0.5	<0.5	<0.5	**56**	--
	06/12/04	<0.5	<0.5	<0.5	**55**	**0.75**	**11**	<0.5	<0.5	<0.5	**46**	--
	10/24/04	<0.5	<0.5	<0.5	**36**	**0.89**	**11**	<0.5	<0.5	<0.5	**29**	--
	11/14/05	<0.5	**0.8**	<0.5	**63**	**2.0**	**15**	<0.5	<0.5	<0.5	**60**	--
	11/05/06	<0.5	<1.0	<0.5	**65**	**4.4**	<1.0	<1.0	<1.0	<1.0	**58**	<0.5
	05/12/07	<0.5	<1.0	<0.5	**23**	**27**	**8.0**	<1.0	<1.0	<1.0	**41**	<0.5
	11/03/07	<0.5	<1.0	<0.5	**31**	**38**	**8.3**	<1.0	<1.0	<1.0	**45**	<0.5
	06/29/08	<0.5	<1.0	<0.5	**47**	**5.6**	**15**	<1.0	<1.0	<1.0	**85**	**1.3**
	11/16/08	<0.5	<1.0	<0.5	**15**	**6.7**	**6.5**	<1.0	<1.0	<1.0	**23**	**2.5**
	05/28/09	<0.5	**1.4**	<0.5	**110**	**6.6**	**17**	<1.0	<1.0	<1.0	**82**	**1.9**
	12/09/09	<0.5	<1.0	<0.5	**33**	**2.2**	**23**	<1.0	<1.0	<1.0	**76**	<0.5
	06/11/10	<0.5	<1.0	<0.5	**45**	**4.6**	**26**	<1.0	<1.0	<1.0	**89**	**1.2**
	12/22/10	<0.5	<1.0	<0.5	**21**	**6.6**	**17**	<1.0	<1.0	<1.0	**58**	**1.4**
	06/17/11	<5.0	<10	<5.0	**29**	**41**	**10**	<10	<10	<10	**30**	<5.0
	12/28/11	<1.0	<2.0	<1.0	**2.6**	**18**	<2.0	<2.0	<2.0	<2.0	<2.0	**32**
	06/07/12	<0.5	<1.0	<0.5	<1.0	**1.9**	<1.0	**3.7**	<1.0	<1.0	<1.0	**4.5**
	12/06/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.4**
RW-17	03/17/95	<2.0	<2.0	<2.0	**27**	<2.0	**44**	<2.0	<2.0	<2.0	**160**	--
	06/13/95	<2.0	<2.0	<2.0	**84**	<2.0	**13**	<2.0	**12**	<2.0	**42**	--
	09/11/95	<2.0	<2.0	<2.0	<5.0	<2.0	**4.5**	<2.0	<2.0	<2.0	**14**	--
	11/17/95	<2.0	<2.0	<2.0	<5.0	<2.0	**2.0**	<2.0	<2.0	<2.0	**7.7**	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**3.6**	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	**3.3**	<2.0	<2.0	<2.0	**20**	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	**2.3**	<2.0	<2.0	<2.0	**9.7**	--
	11/12/96	<2.0	<2.0	<2.0	<5.0	**6.5**	**9.2**	<2.0	<2.0	<2.0	**42**	--
	05/13/97	<2.0	<2.0	<2.0	**7.6**	<2.0	**18**	<2.0	<2.0	<2.0	**63**	--
	12/16/97	<2.0	<2.0	<2.0	**14**	<2.0	**18**	<2.0	<2.0	<2.0	**49**	--
	05/12/98	<5.0	<5.0	<5.0	**14**	<5.0	**9.3**	<5.0	<5.0	<5.0	**25**	--
Well abandoned	09/09/98	<2.0	<2.0	<2.0	<5.0	<2.0	**2.4**	<2.0	<2.0	<2.0	**5.2**	--
in 1999	11/10/98	<2.0	<2.0	<2.0	**2.9**	<2.0	**3.8**	<2.0	<2.0	<2.0	**11**	--

Notes:

1) All concentrations in µg/L.

2) All analyses done by EPA Method 8260, 8260B or 8021B, except for TPHg by EPA Method 8015M.

3) '-- = not analyzed for this analyte.

4) Only wells with detectable concentrations of constituents of concern are shown.

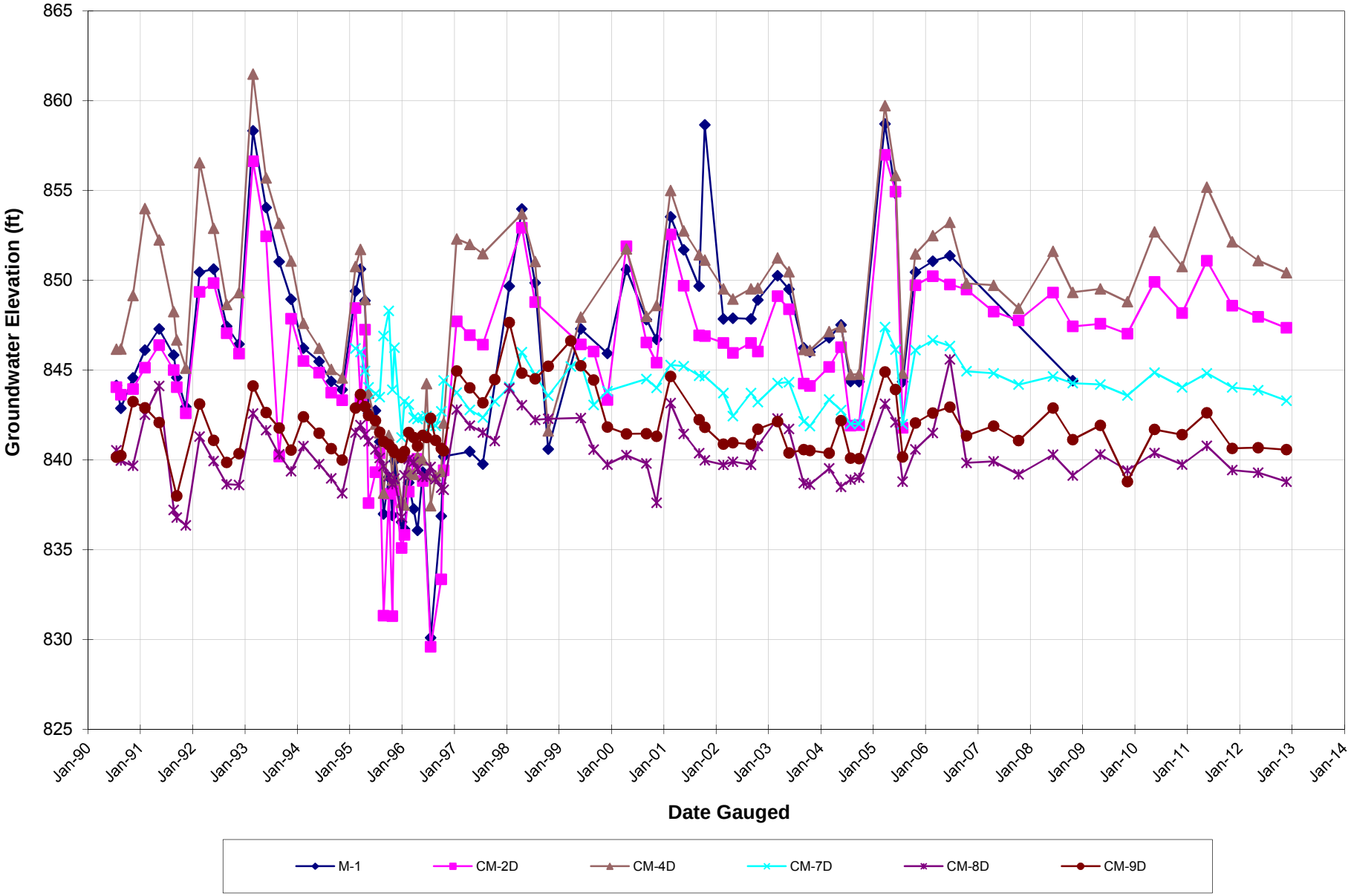
5) 1,1-DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; 1,1-DCE = 1,1-Dichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; PCE = Tetrachloroethene; 1,1,1-TCA = 1,1,1-Trichloroethane; 1,1,2-TCA = 1,1,2-Trichloroethane; TCE = Trichloroethene; VC = vinyl chloride

GRAPHS

Graph 1: Hydrograph - Monitoring Wells M-1 through CM-9D

Former Canoga Park Facility

8433 Fallbrook Ave., Canoga Park, California

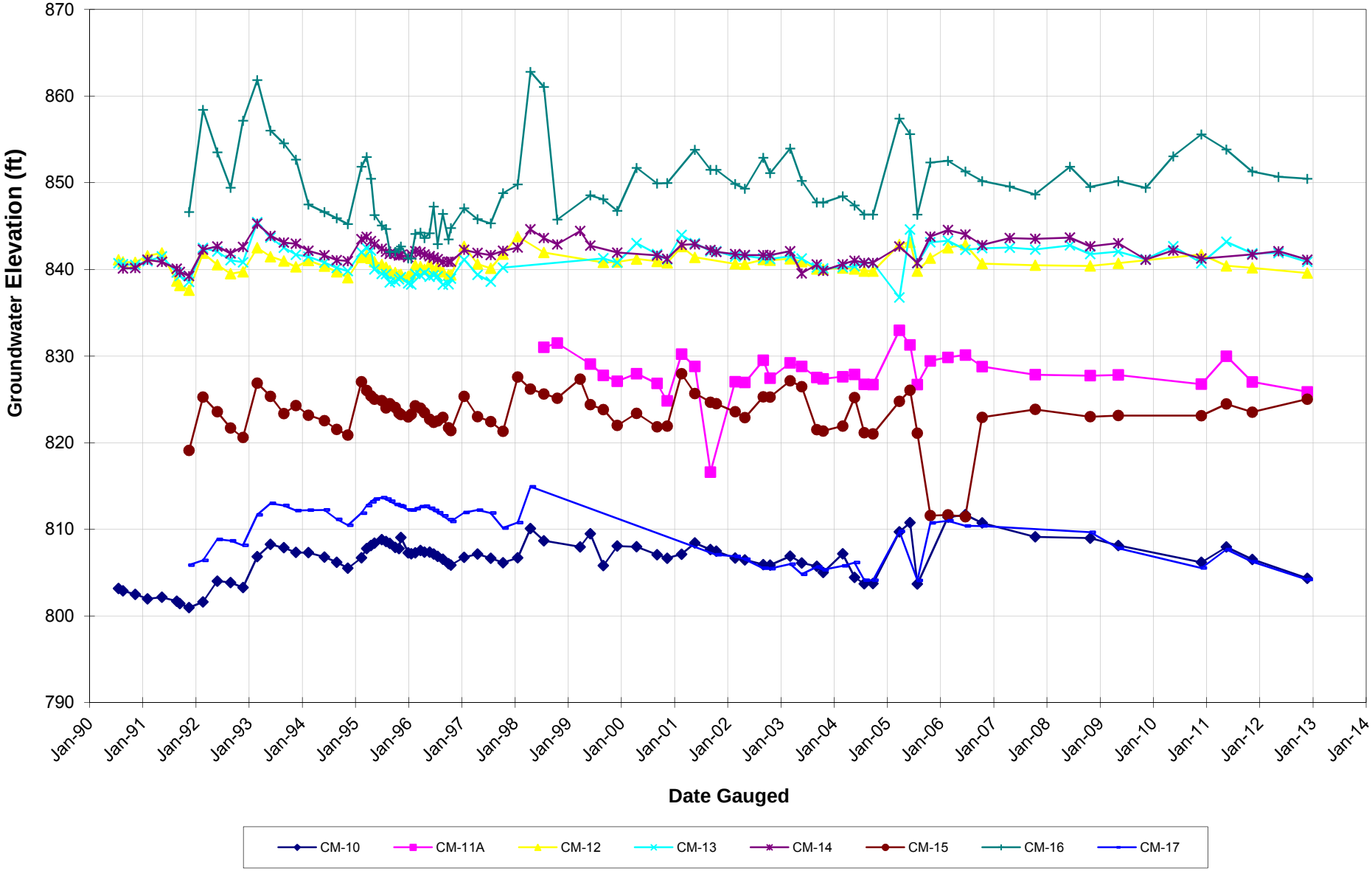


Data collected by GRC 1994-1995, by FDGTI 1996-1999 and by OTIE-TN&A 2000-present. Wells with missing data points were either dry or inaccessible at time of gauging.

Graph 2: Hydrograph - Monitoring Wells CM-10 through CM-17

Former Canoga Park Facility

8433 Fallbrook Ave., Canoga Park, California

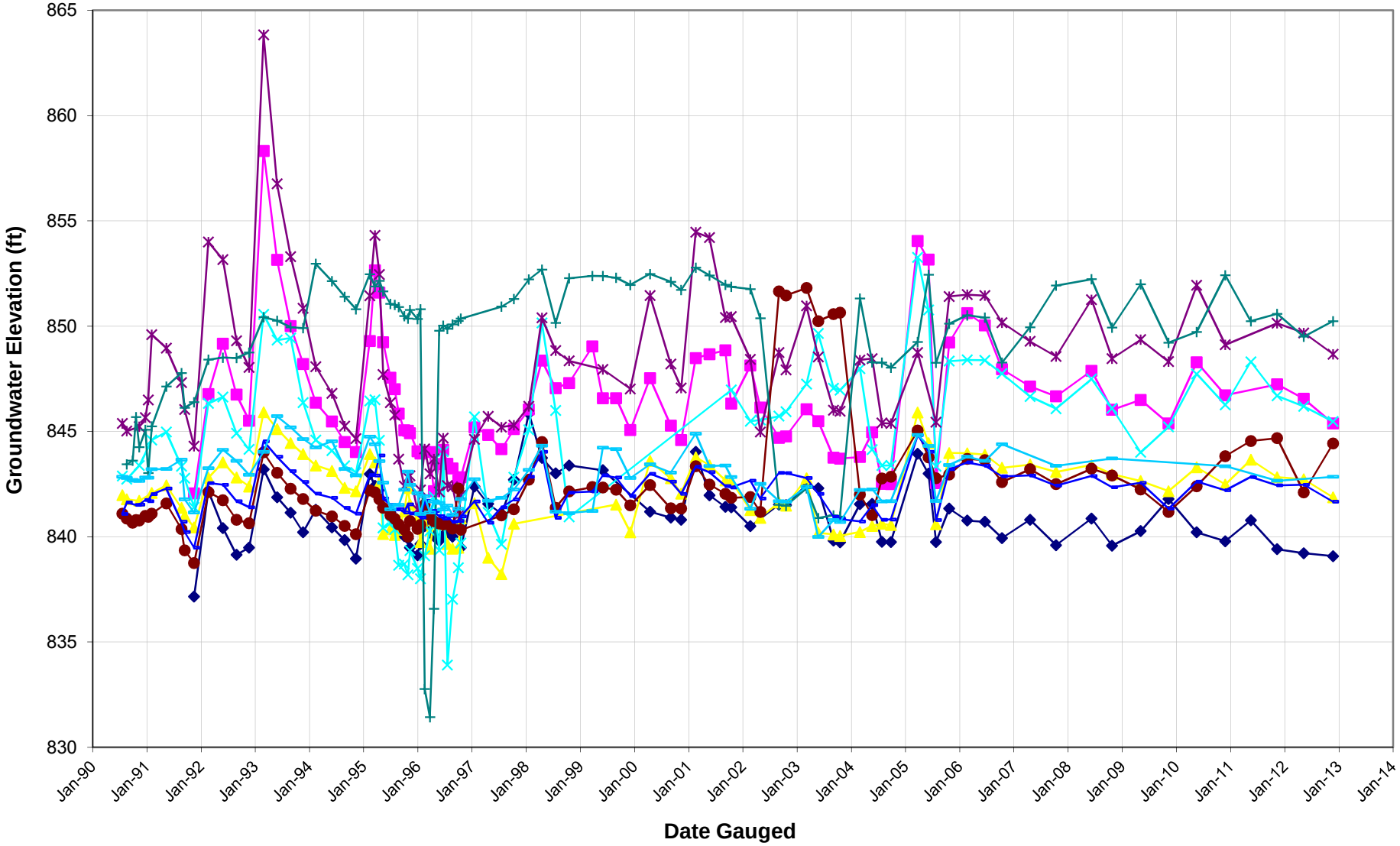


Data collected by GRC 1994-1995, by FDGTI 1996-1999 and by OTIE-TN&A 2000-present. Wells with missing data points were either dry or inaccessible at time of gauging.

Graph 3: Hydrograph - Monitoring Wells CM-18 through MW-20D

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA

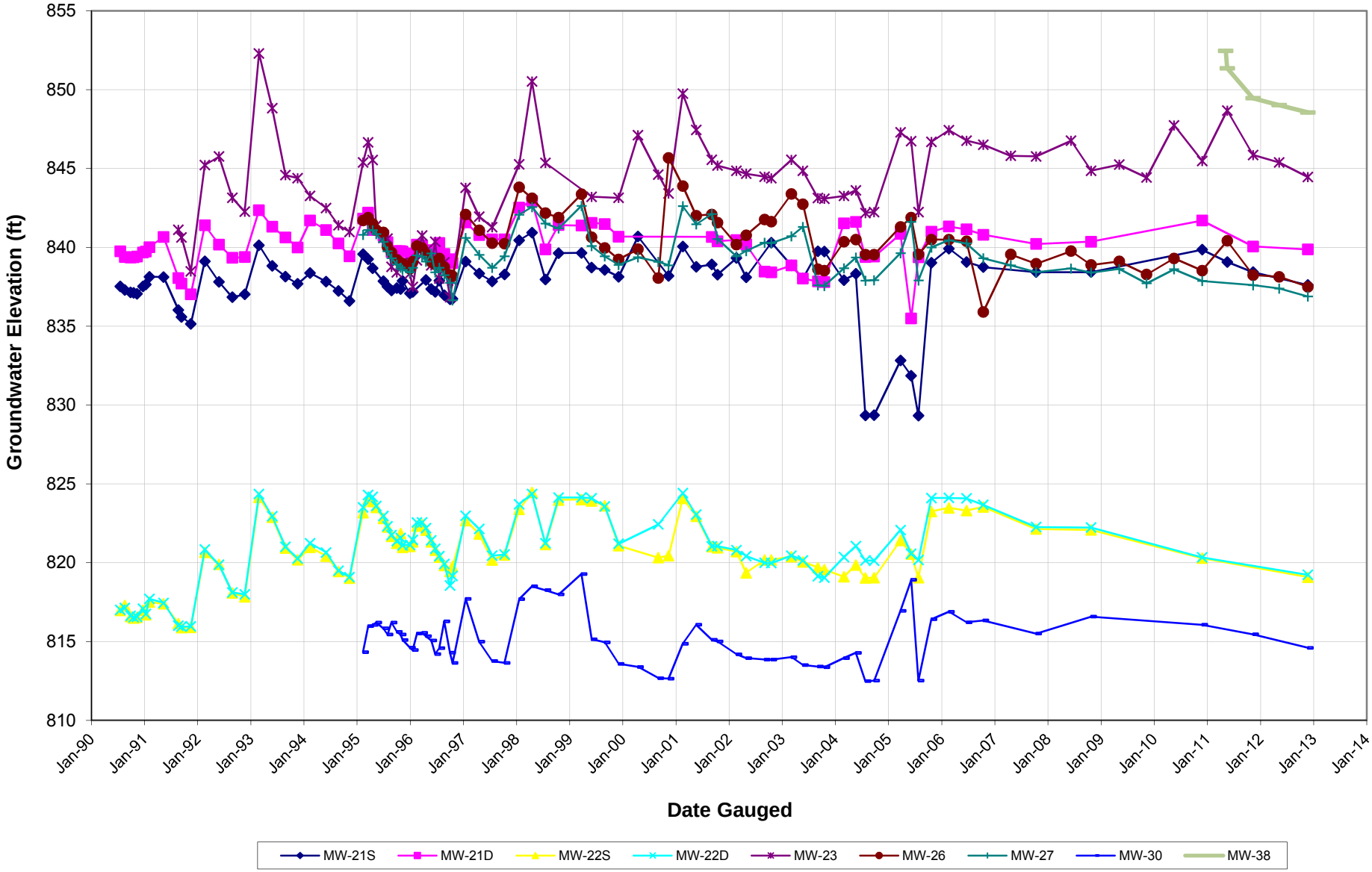


Data collected by GRC 1994-1995, by FDGTI 1996-1999 and by OTIE-TN&A 2000-present. Wells with missing data points were either dry or inaccessible at time of gauging.

Graph 4: Hydrograph - Monitoring Wells MW-21D through MW-30 and MW-38

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA

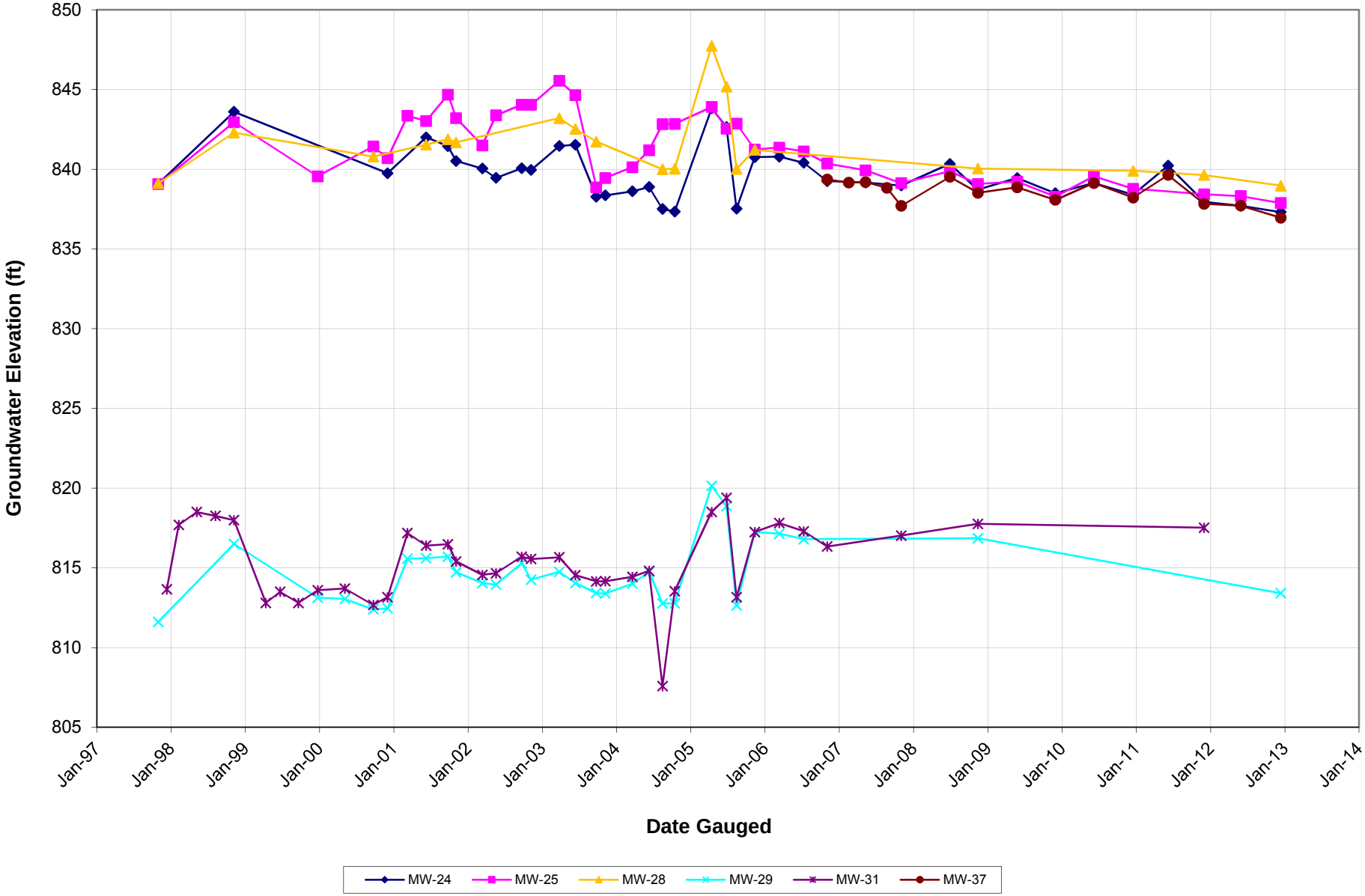


Data collected by GRC 1994-1995, by FDGTI 1996-1999 and by OTIE-TN&A 2000-present. Wells with missing data points were either dry or inaccessible at time of gauging.

Graph 5: Hydrograph - Monitoring Wells MW-24, MW-25, MW-28, MW-29, MW-31, and MW-37

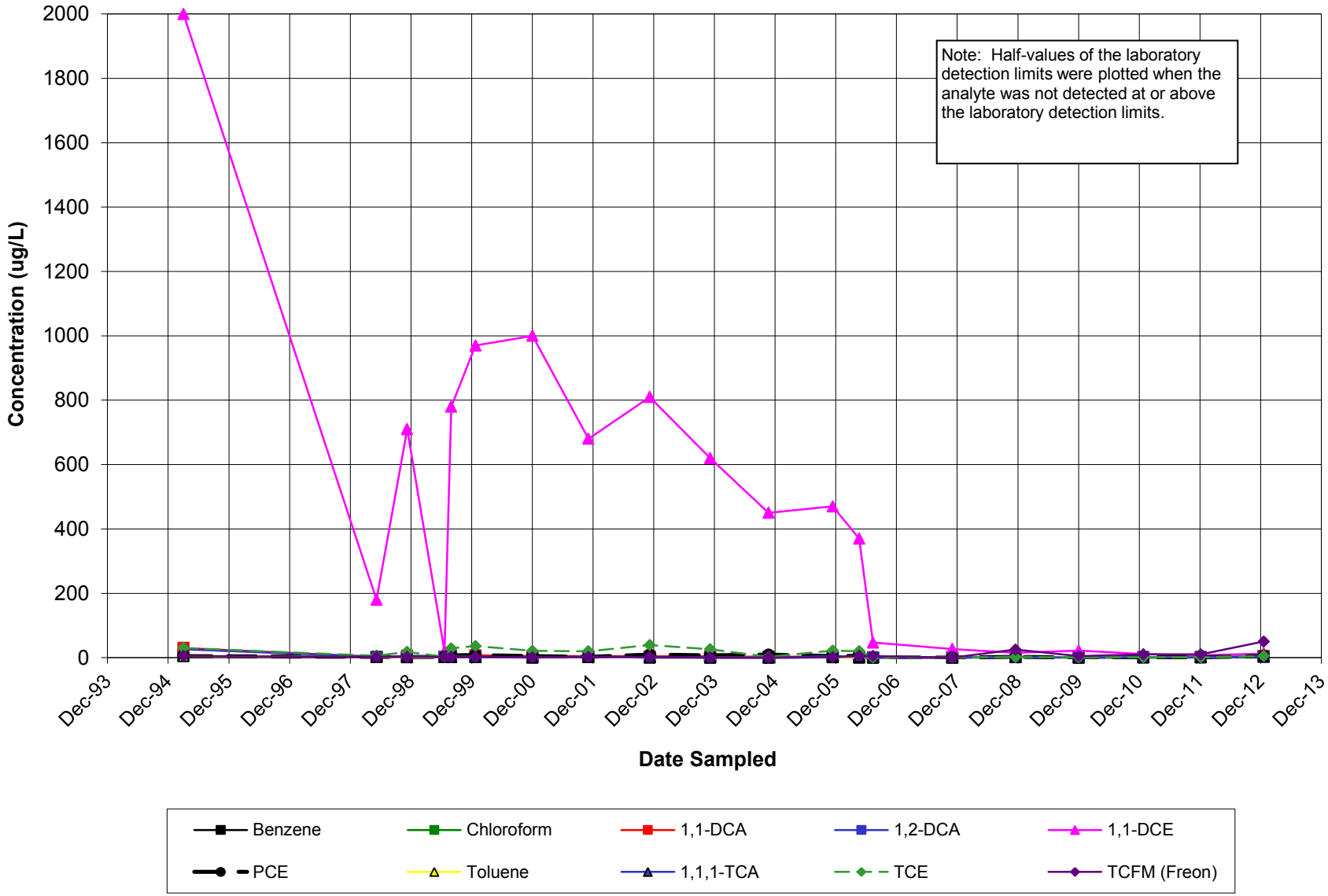
Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA



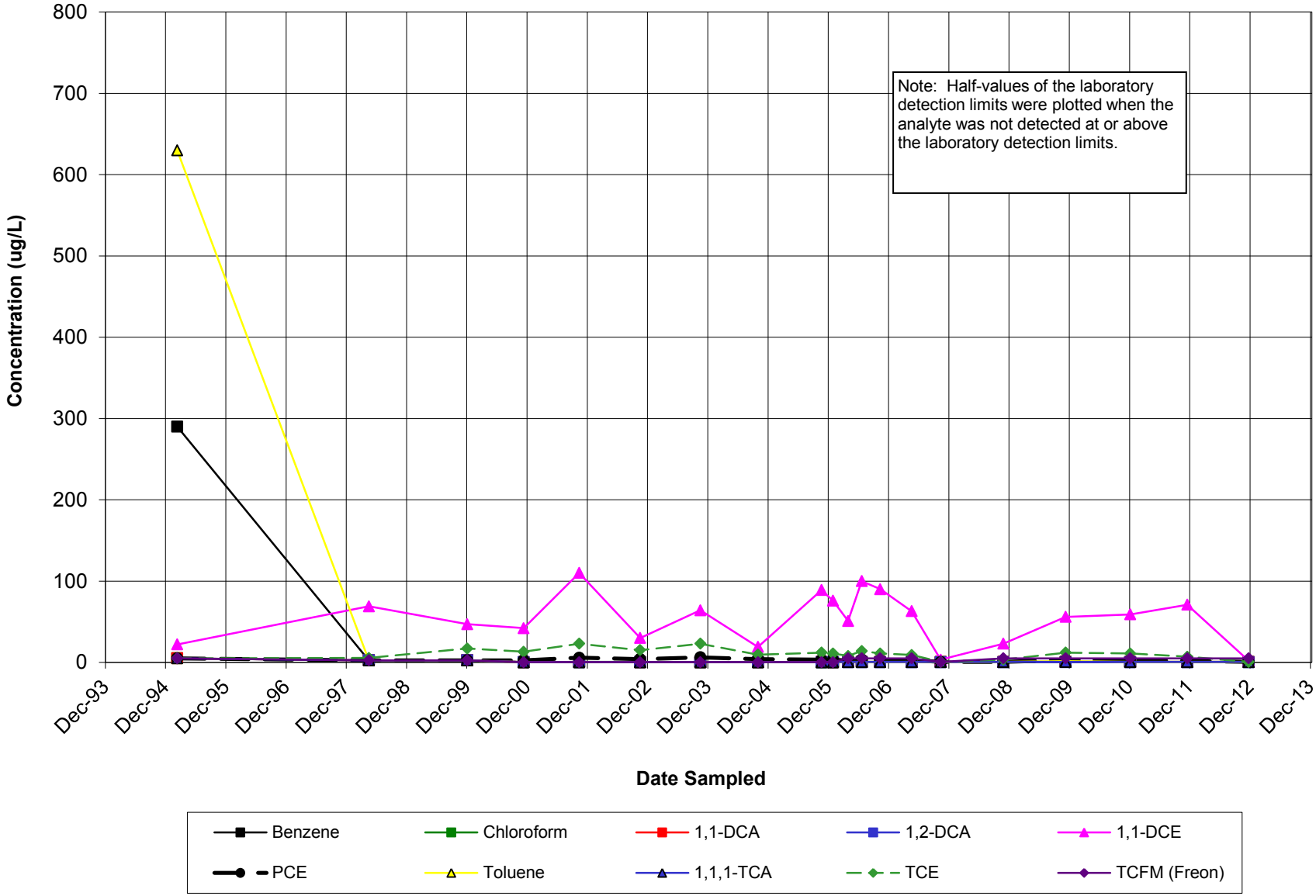
Data collected by GRC 1994-1995, by FDGTI 1996-1999 and by OTIE-TN&A 2000-present. Wells with missing data points were either dry or inaccessible at time of gauging.

Graph 7: Volatile Organic Compounds vs. Time
Monitoring Well M-1
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



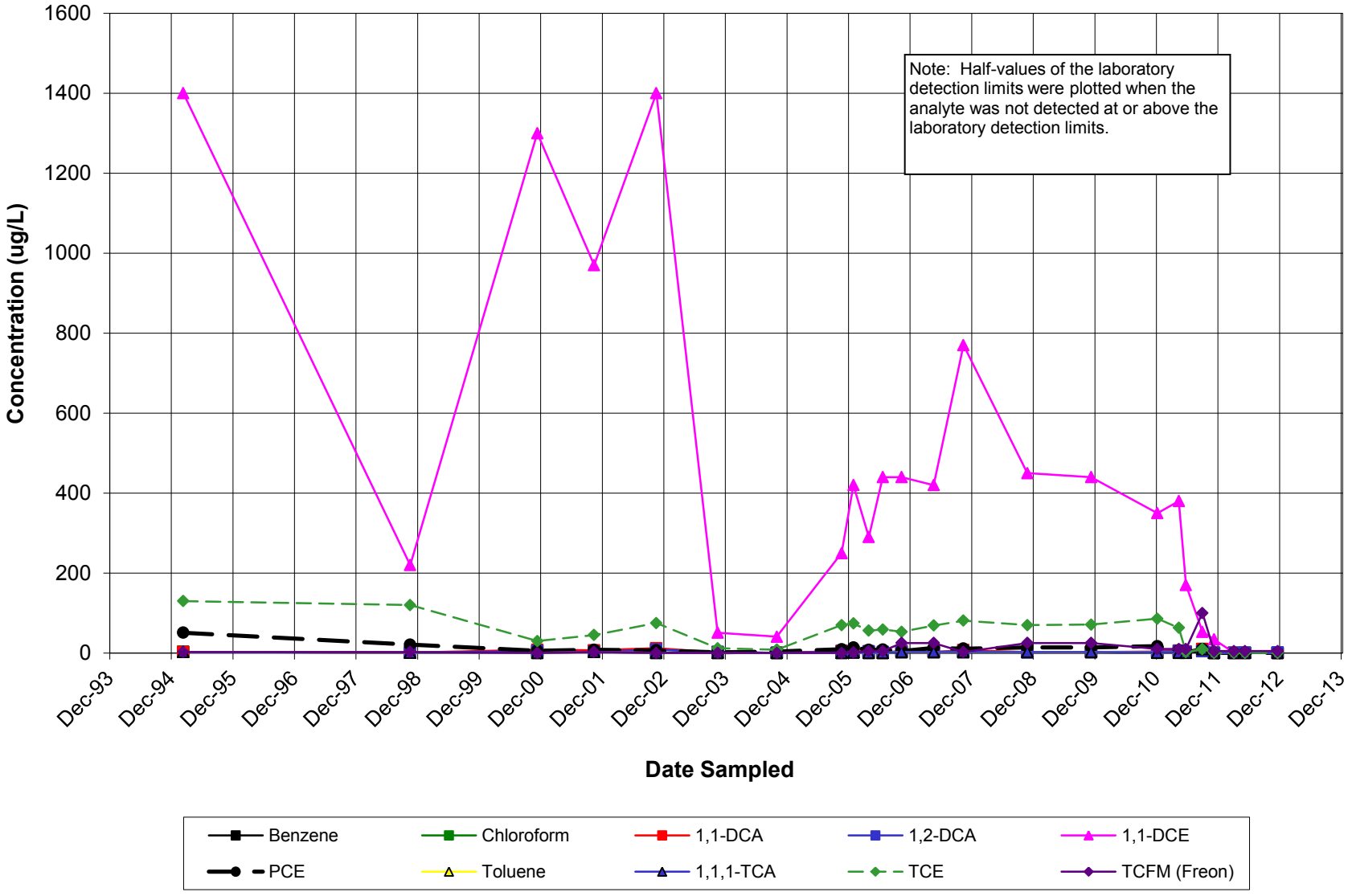
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 8: Volatile Organic Compounds vs. Time
Monitoring Well CM-2D
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



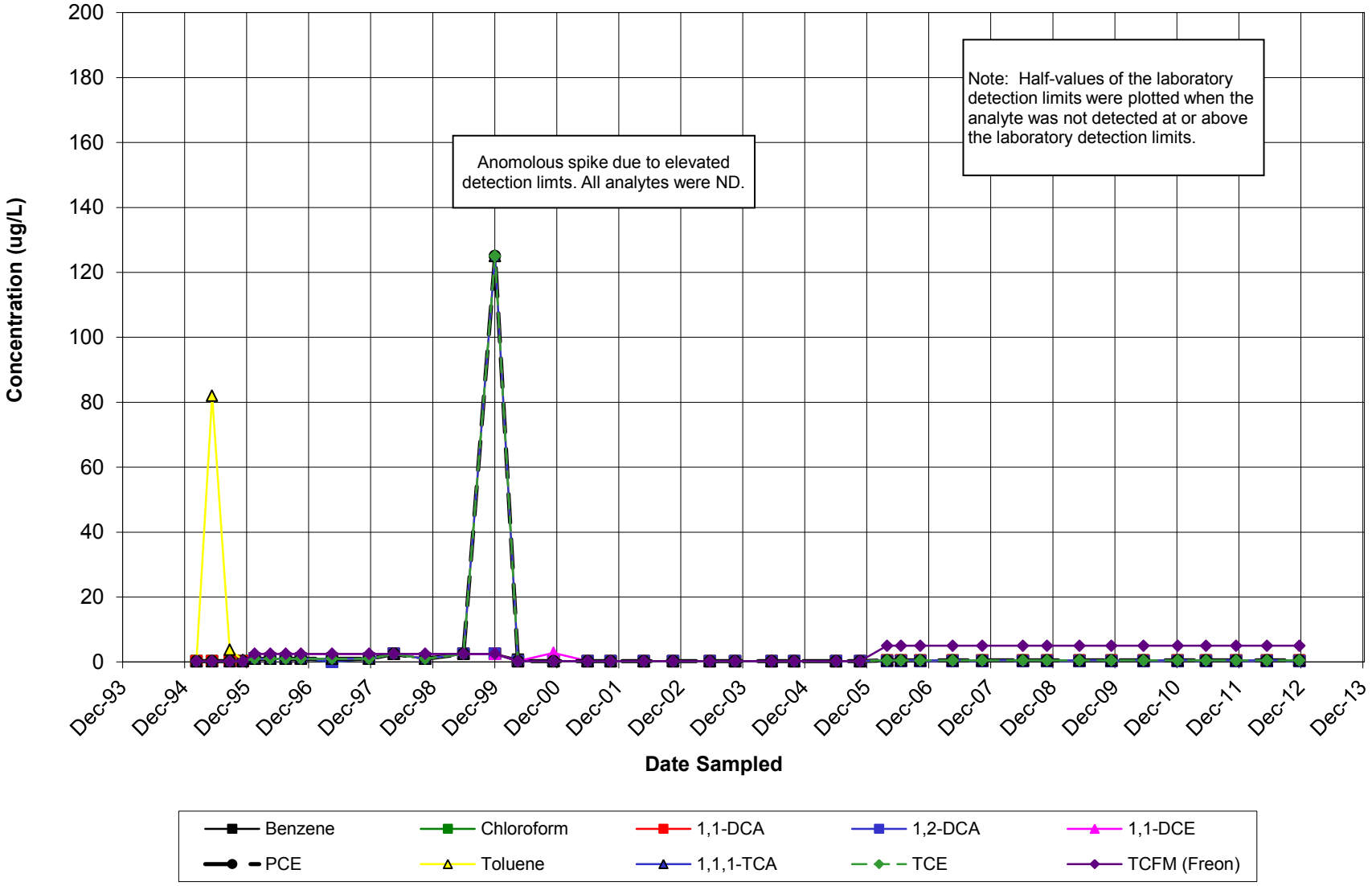
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 9: Volatile Organic Compounds vs. Time
Monitoring Well CM-4D
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



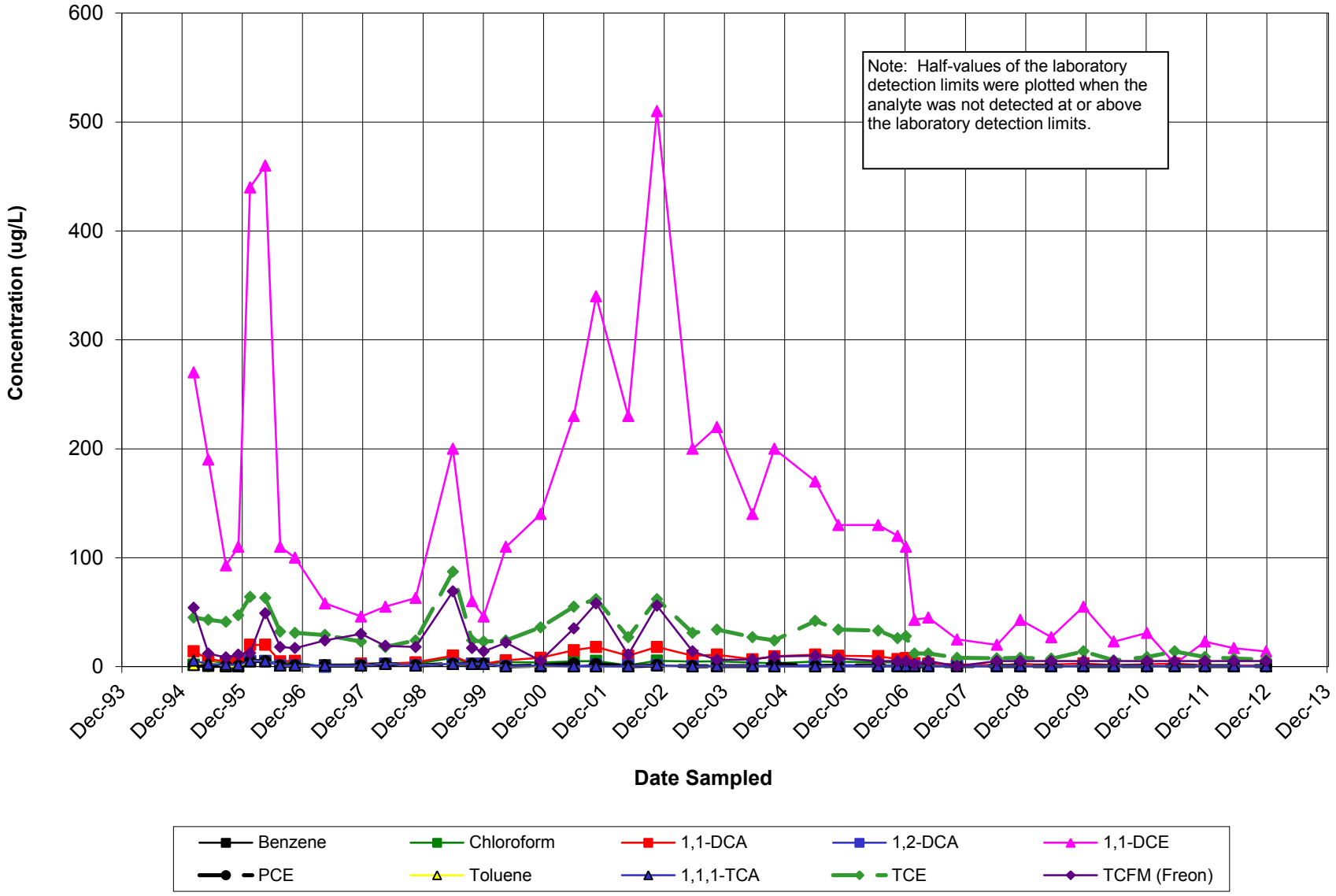
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 10: Volatile Organic Compounds vs. Time
Monitoring Well CM-7D
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



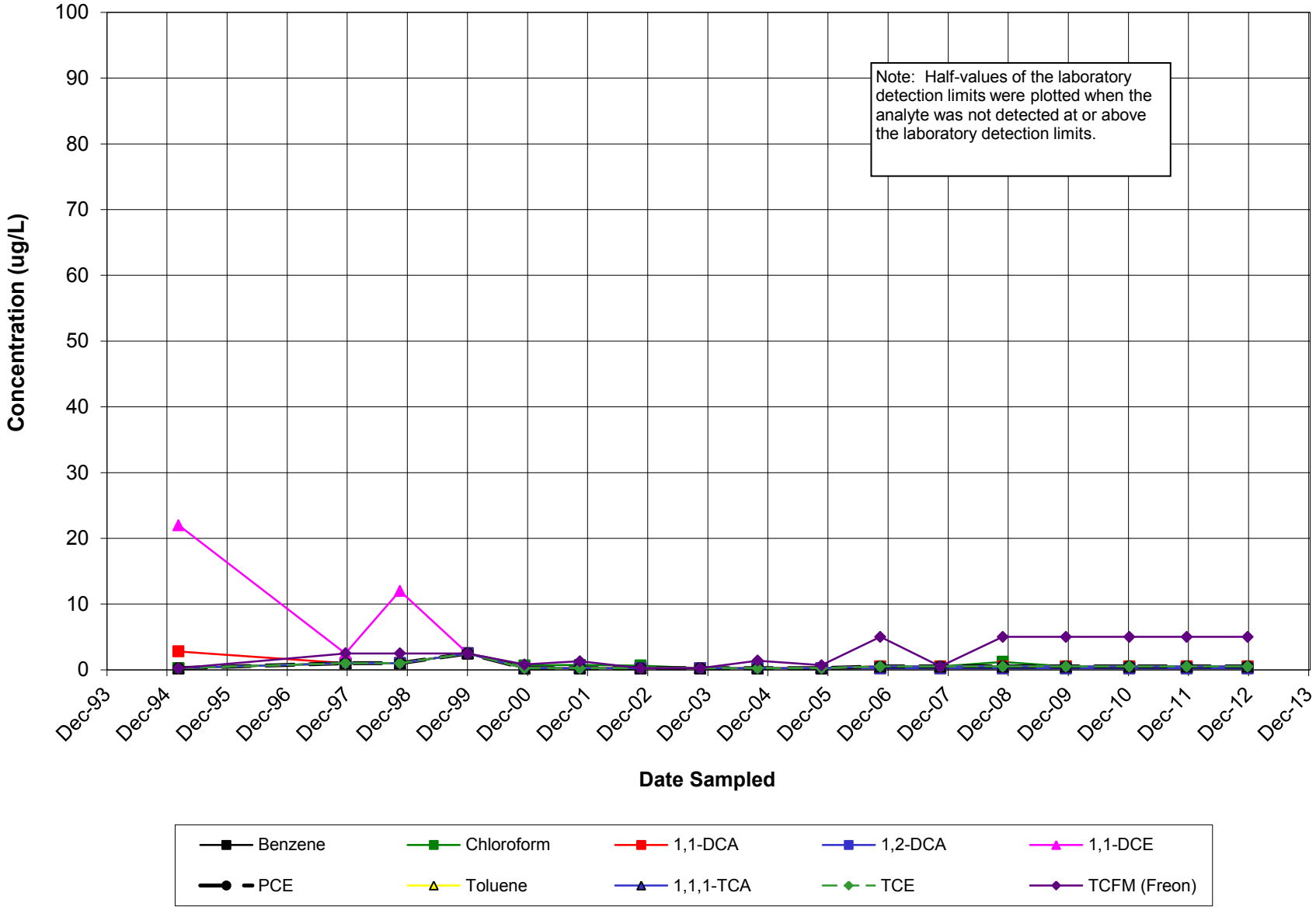
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 11: Volatile Organic Compounds vs. Time
Monitoring Well CM-8D
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



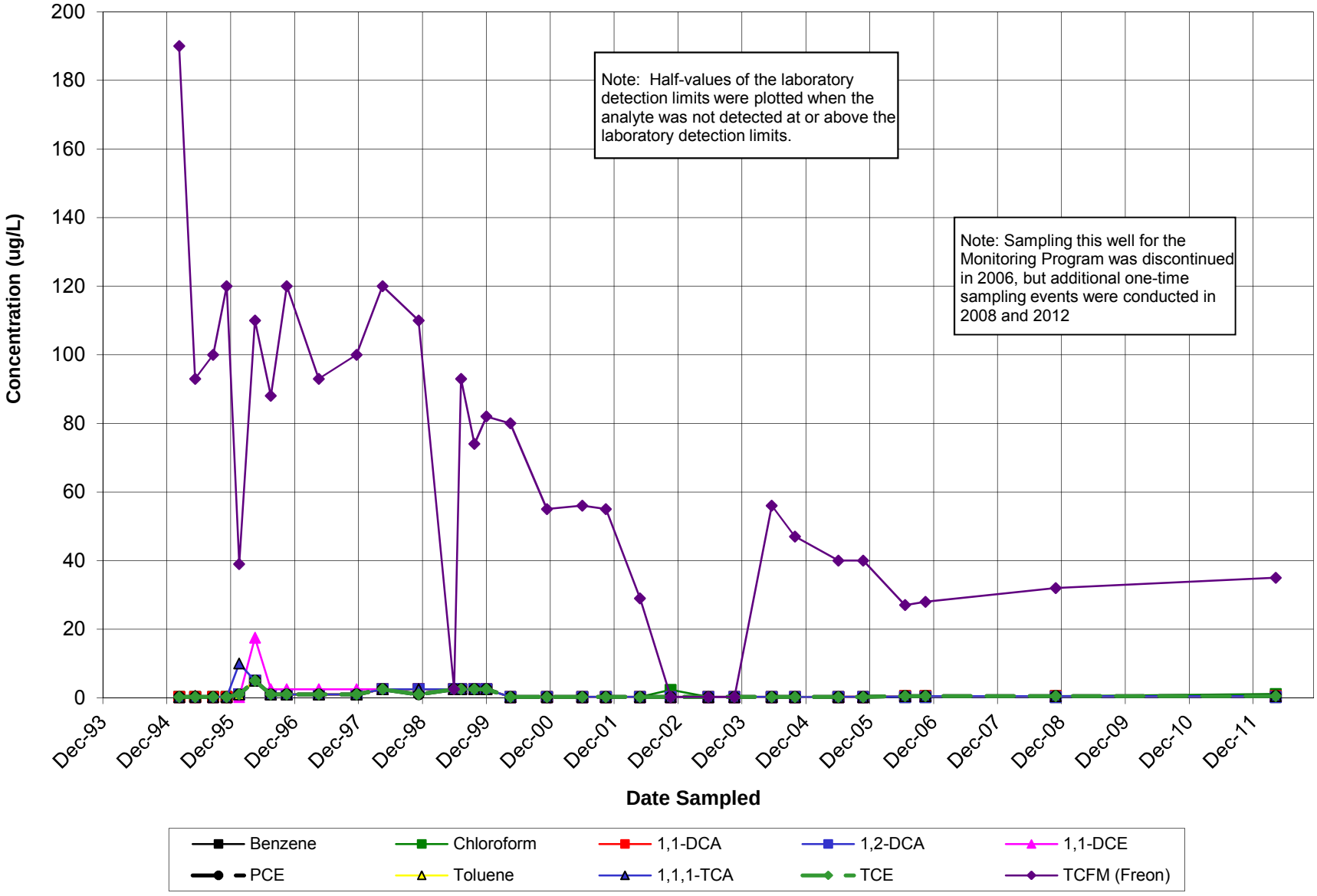
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 12: Volatile Organic Compounds vs. Time
Monitoring Well CM-9D
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



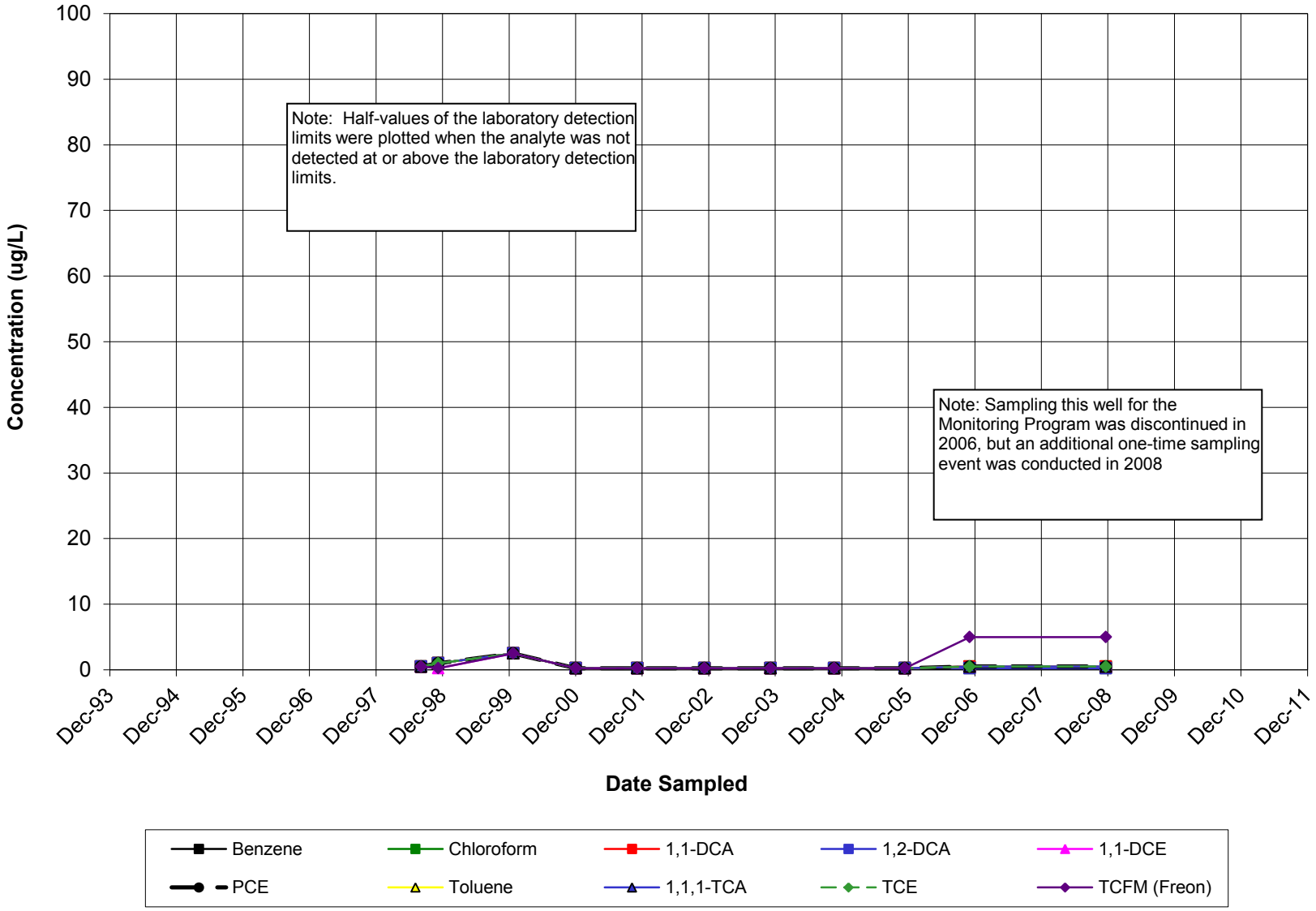
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 13: Volatile Organic Compounds vs. Time
Monitoring Well CM-10
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



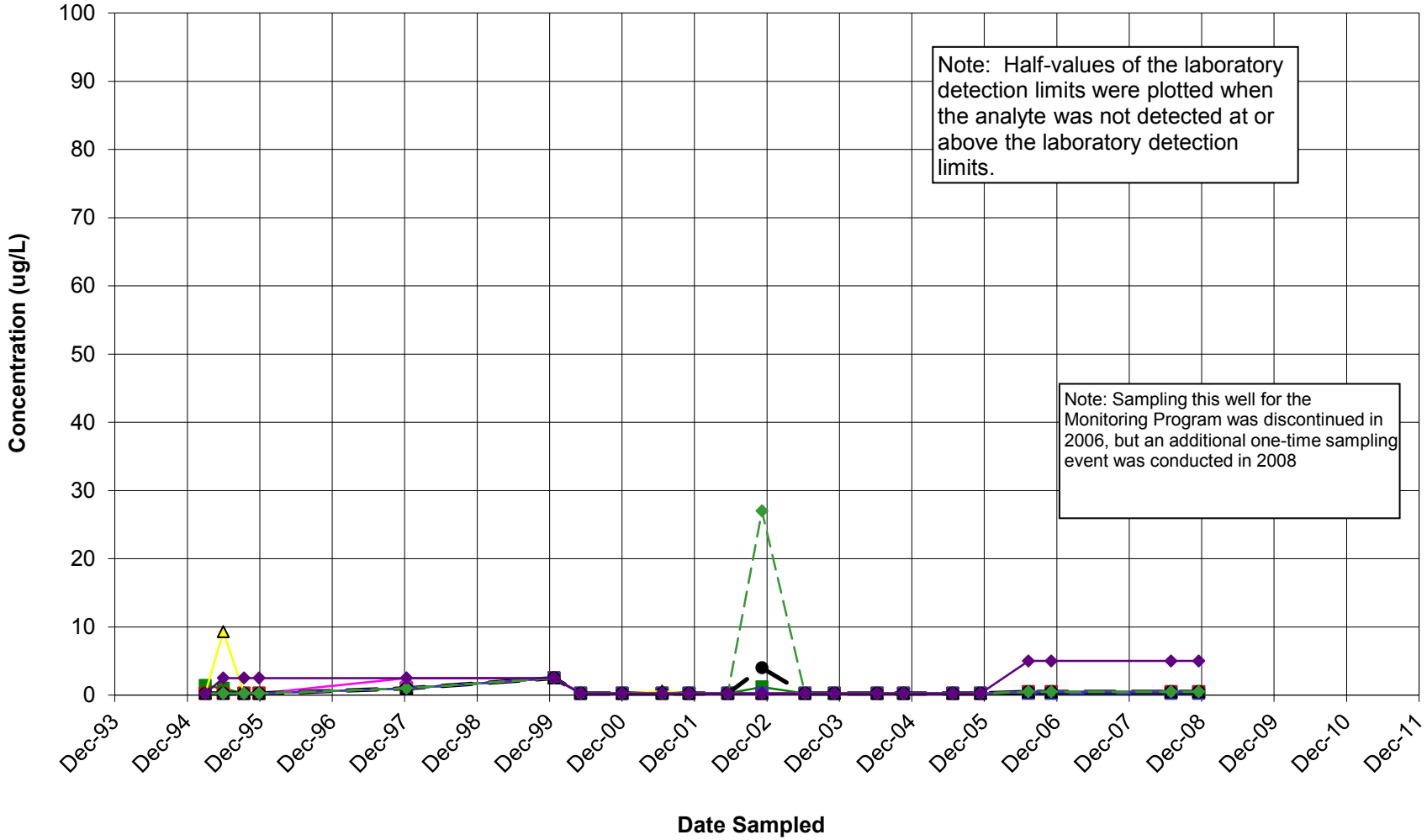
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 14: Volatile Organic Compounds vs. Time
Monitoring Well CM-11A
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



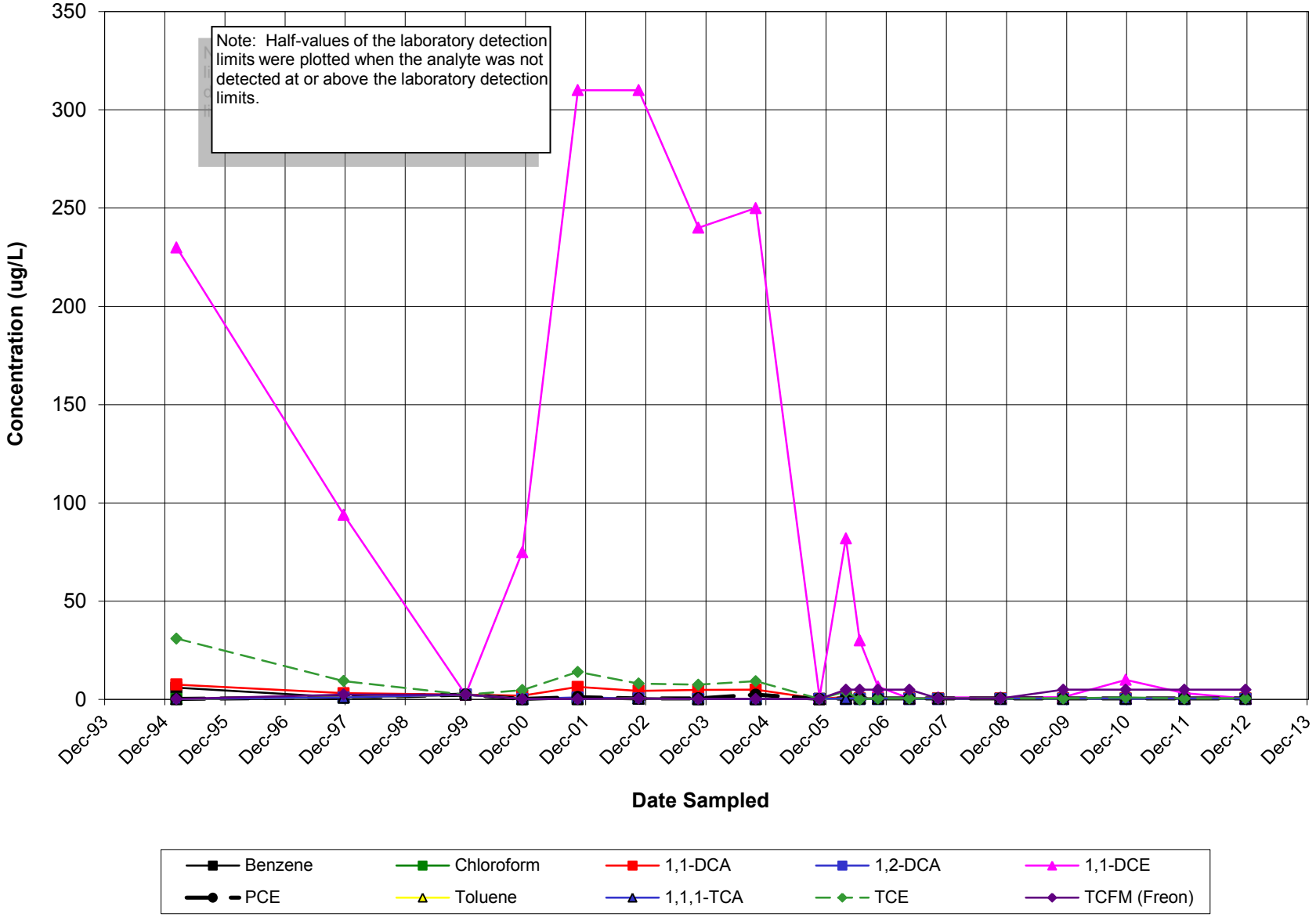
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 15: Volatile Organic Compounds vs. Time
Monitoring Well CM-12
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, Califorina



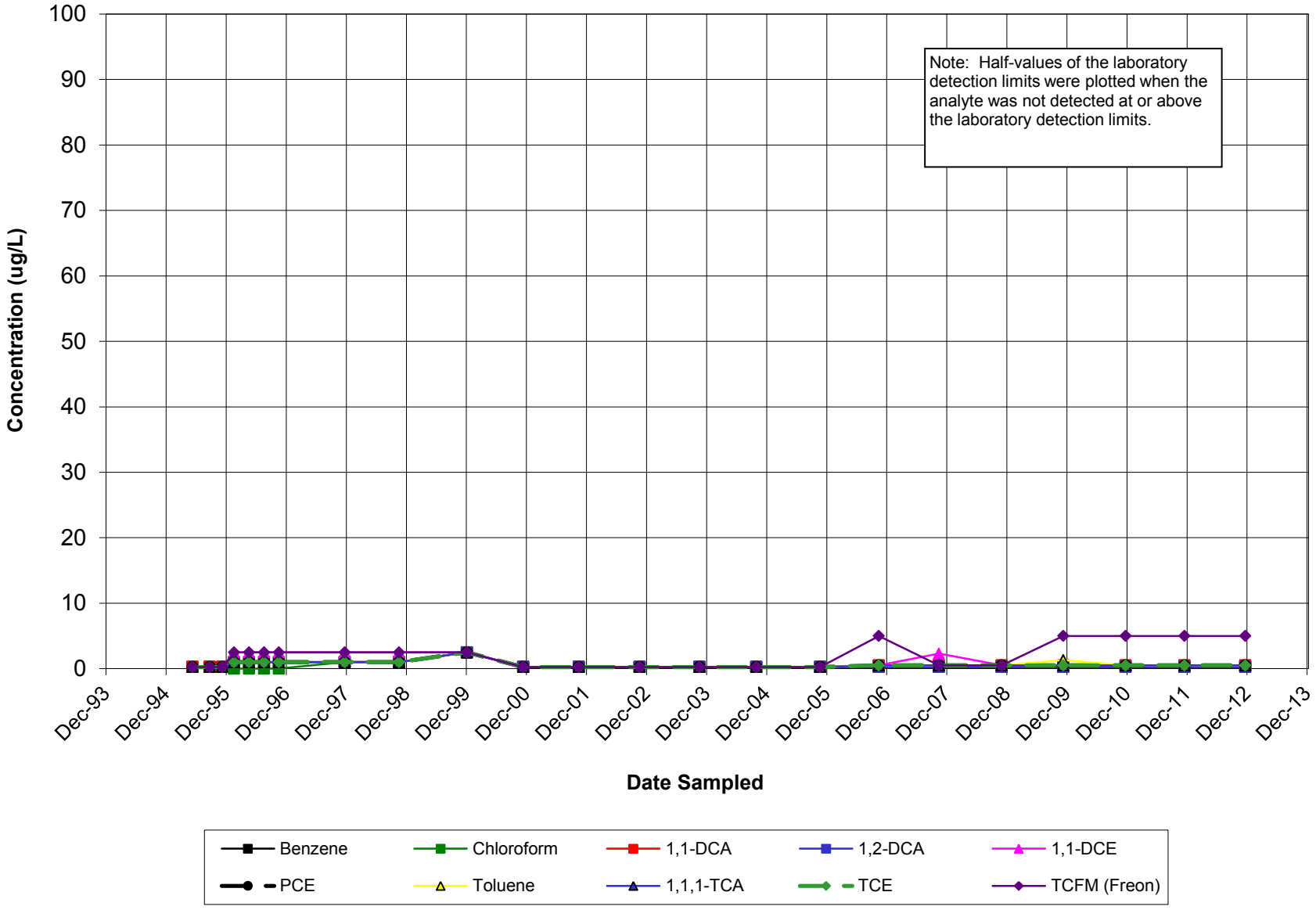
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 16: Volatile Organic Compounds vs. Time
Monitoring Well CM-13
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



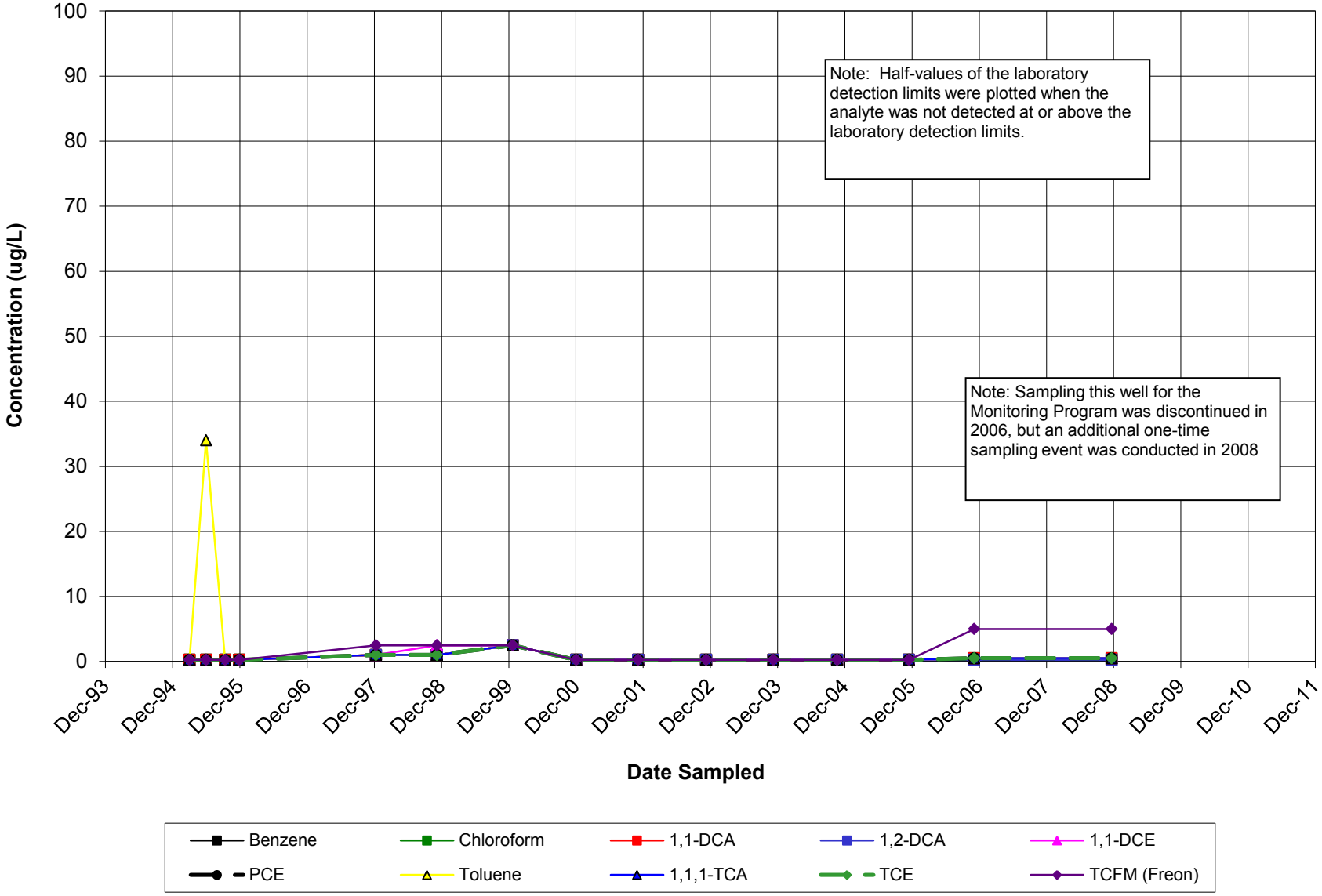
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 17: Volatile Organic Compounds vs. Time
Monitoring Well CM-14
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



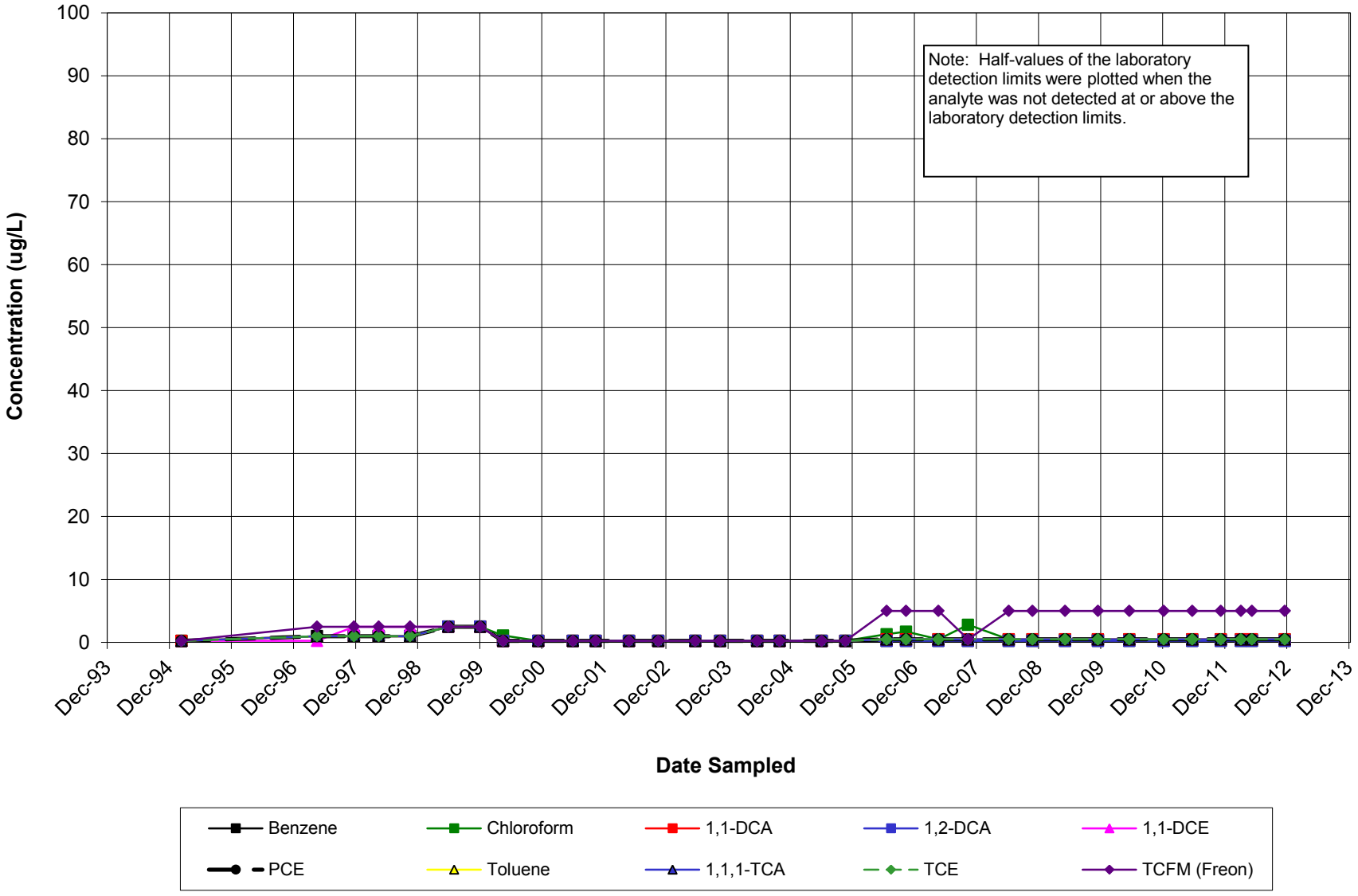
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 18: Volatile Organic Compounds vs. Time
Monitoring Well CM-15
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



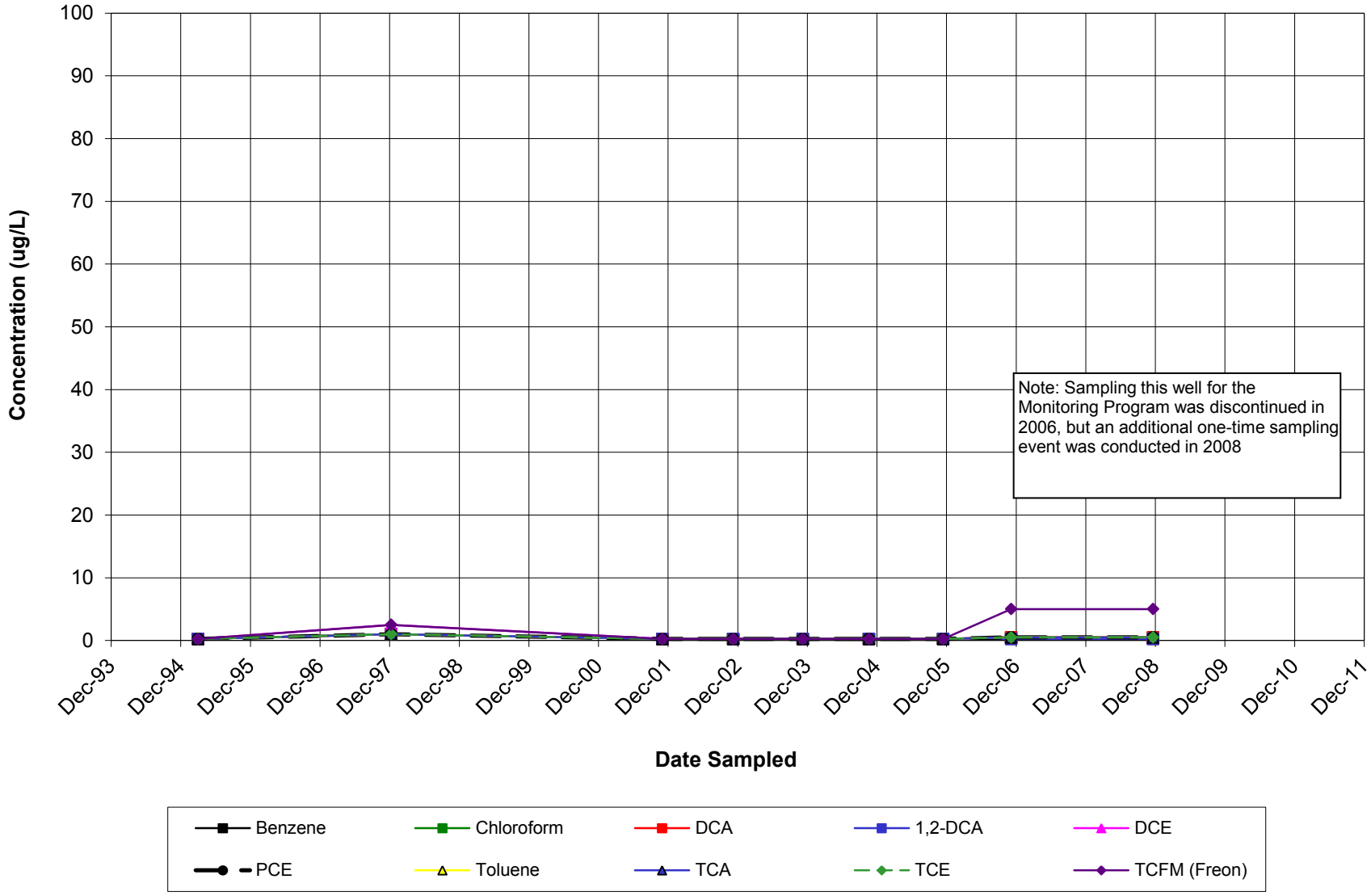
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 19: Volatile Organic Compounds vs. Time
Monitoring Well CM-16
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



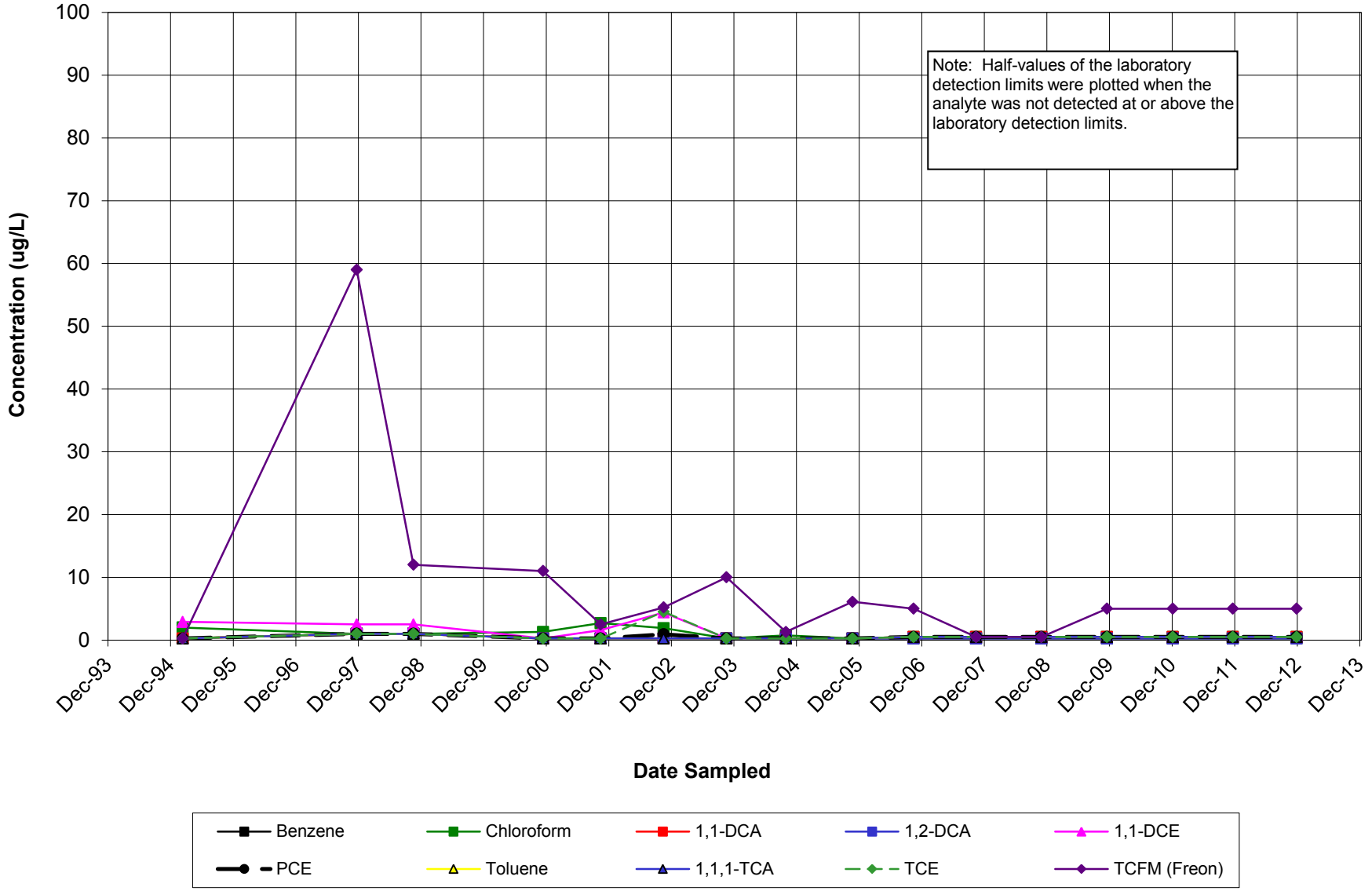
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 20: Volatile Organic Compounds vs. Time
Monitoring Well CM-17
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



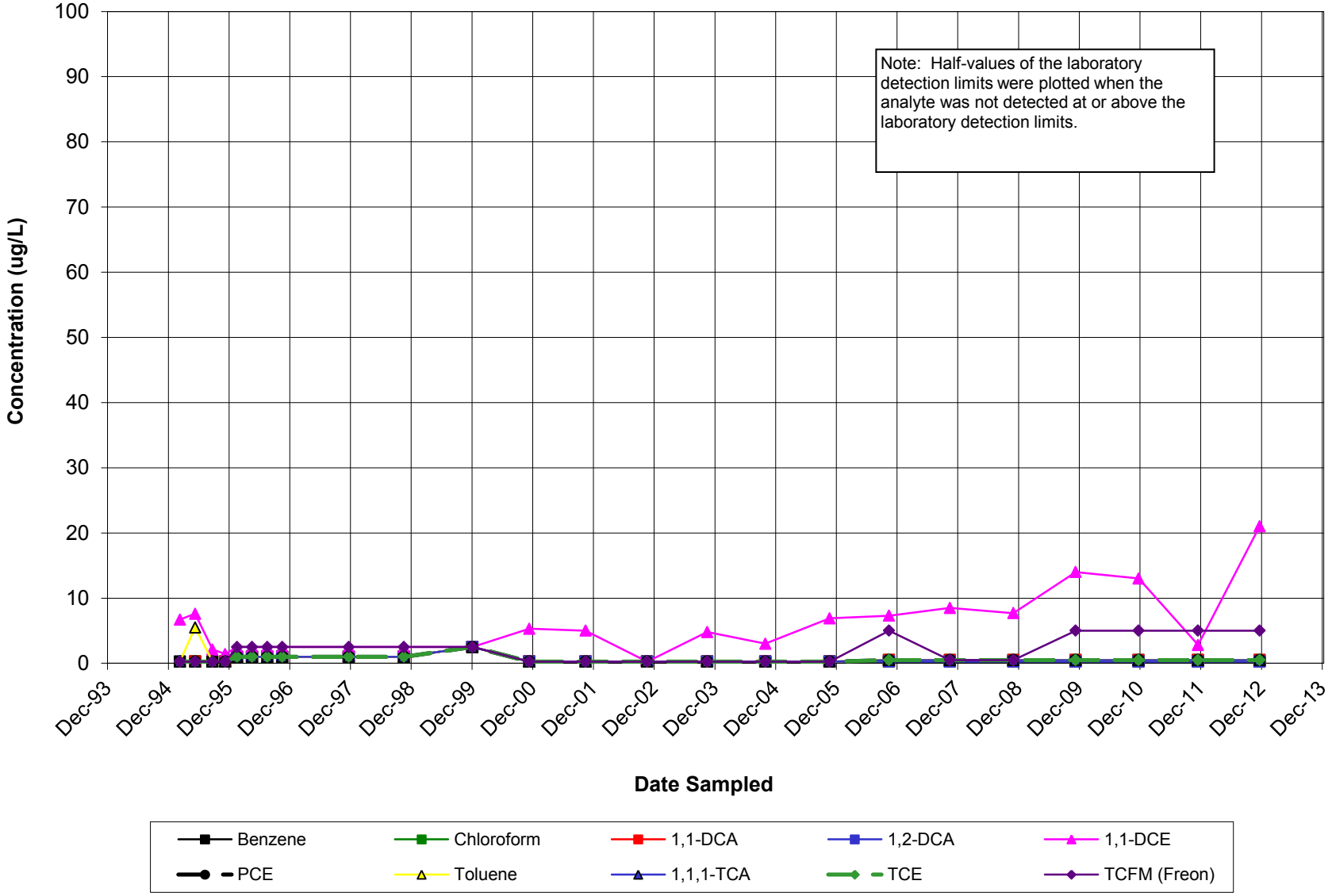
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 21: Volatile Organic Compounds vs. Time
Monitoring Well CM-18
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



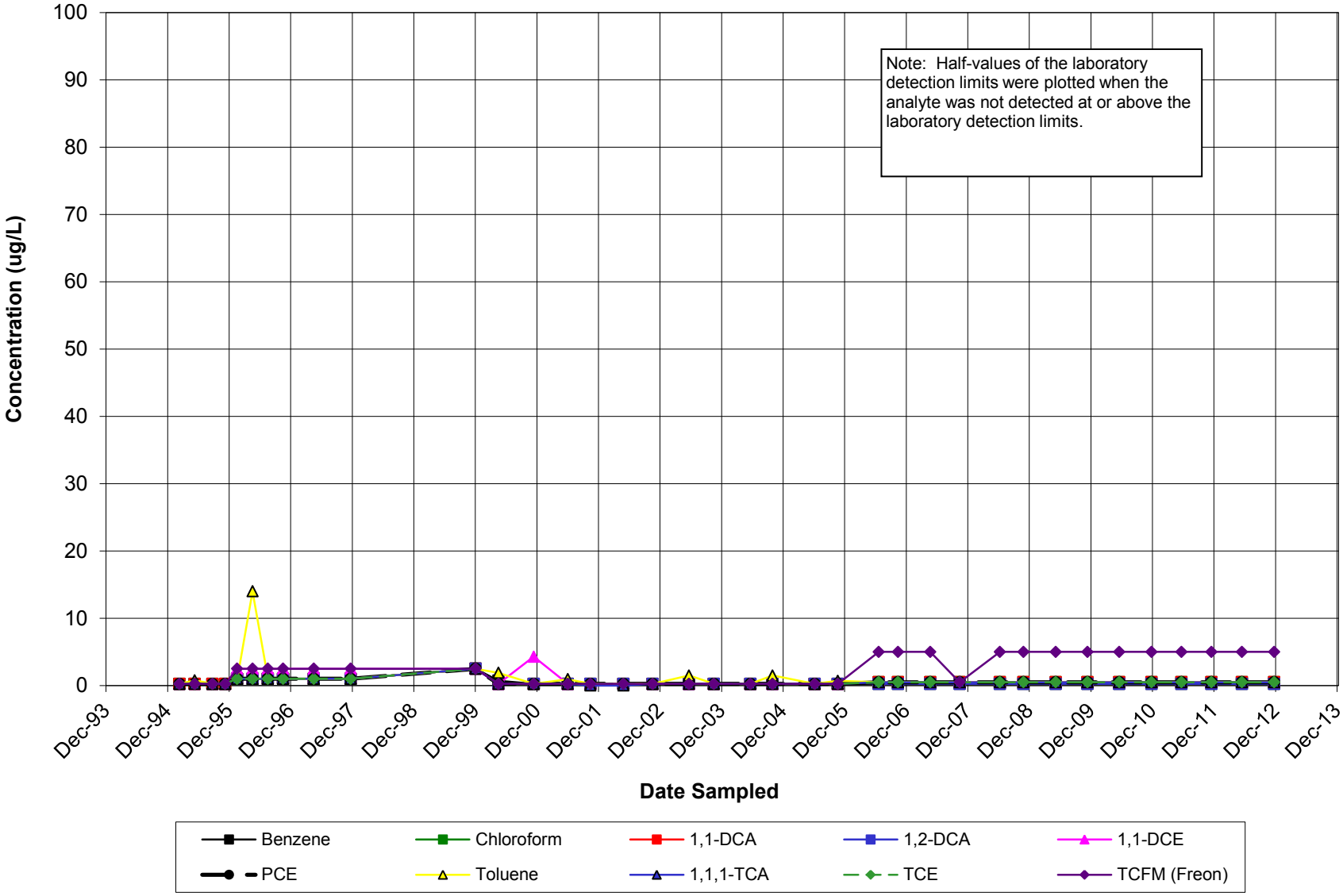
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 22: Volatile Organic Compounds vs. Time
Monitoring Well CM-19
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



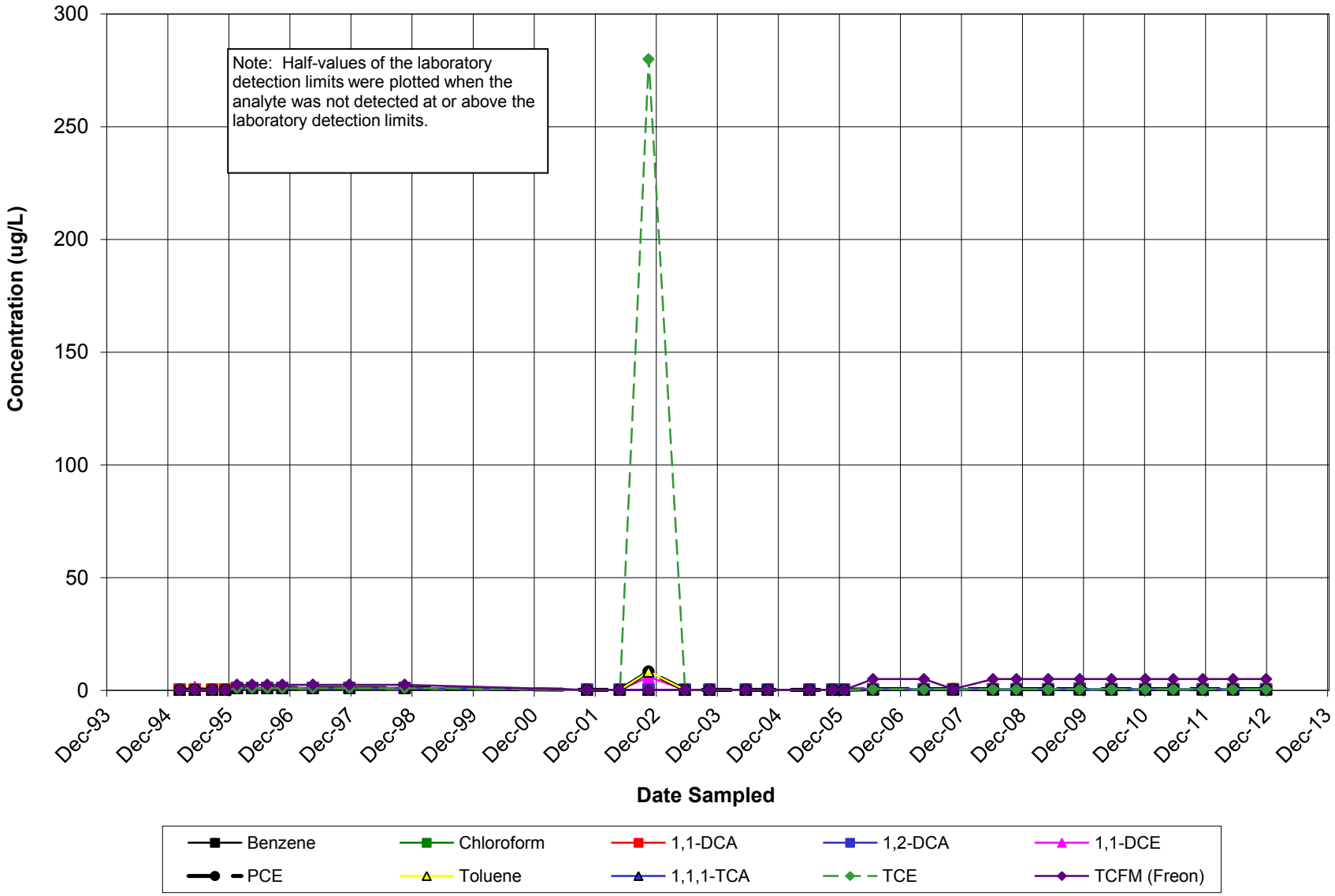
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 23: Volatile Organic Compounds vs. Time
Monitoring Well MW-15
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



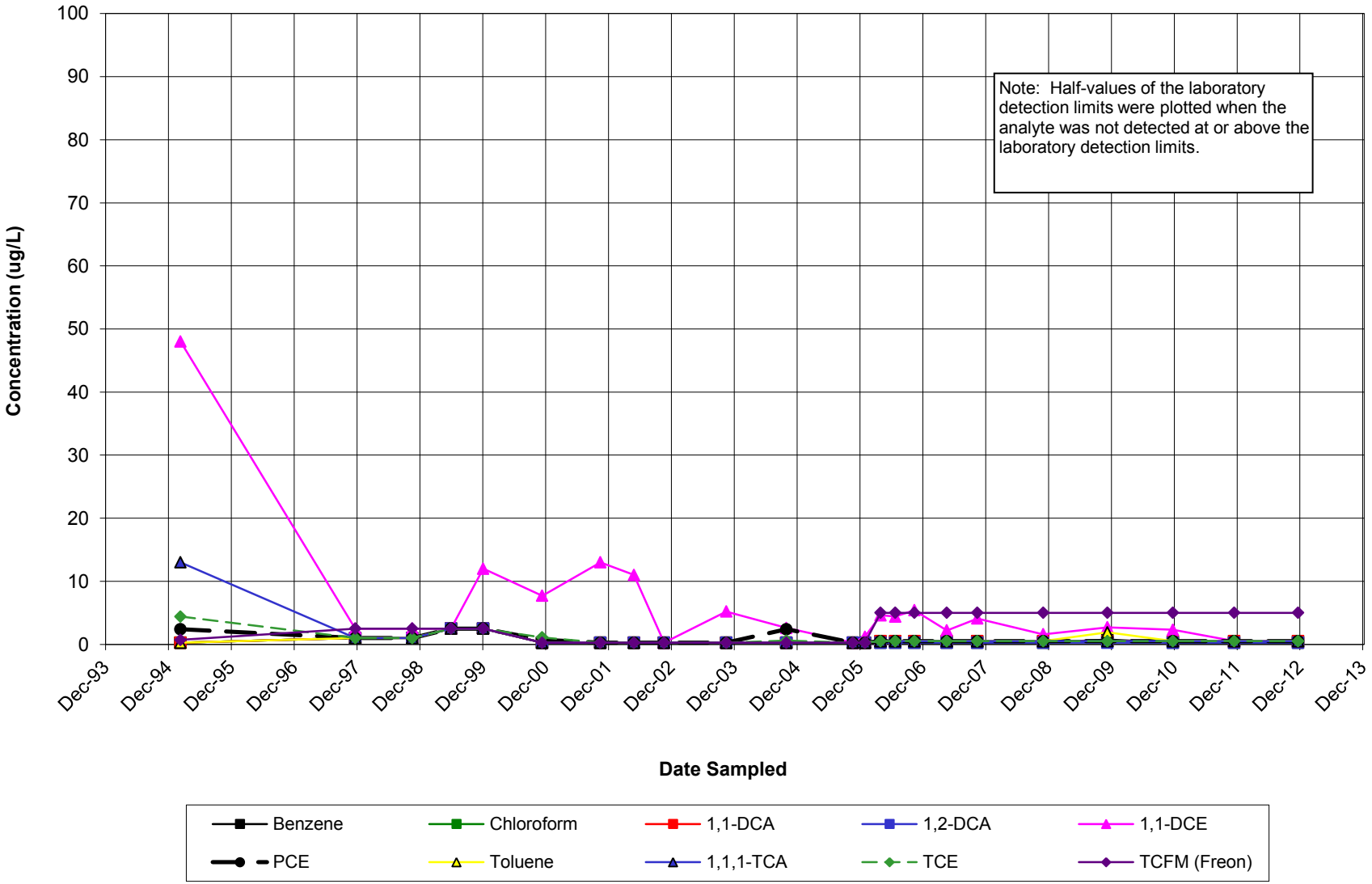
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 24: Volatile Organic Compounds vs. Time
Monitoring Well MW-16
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



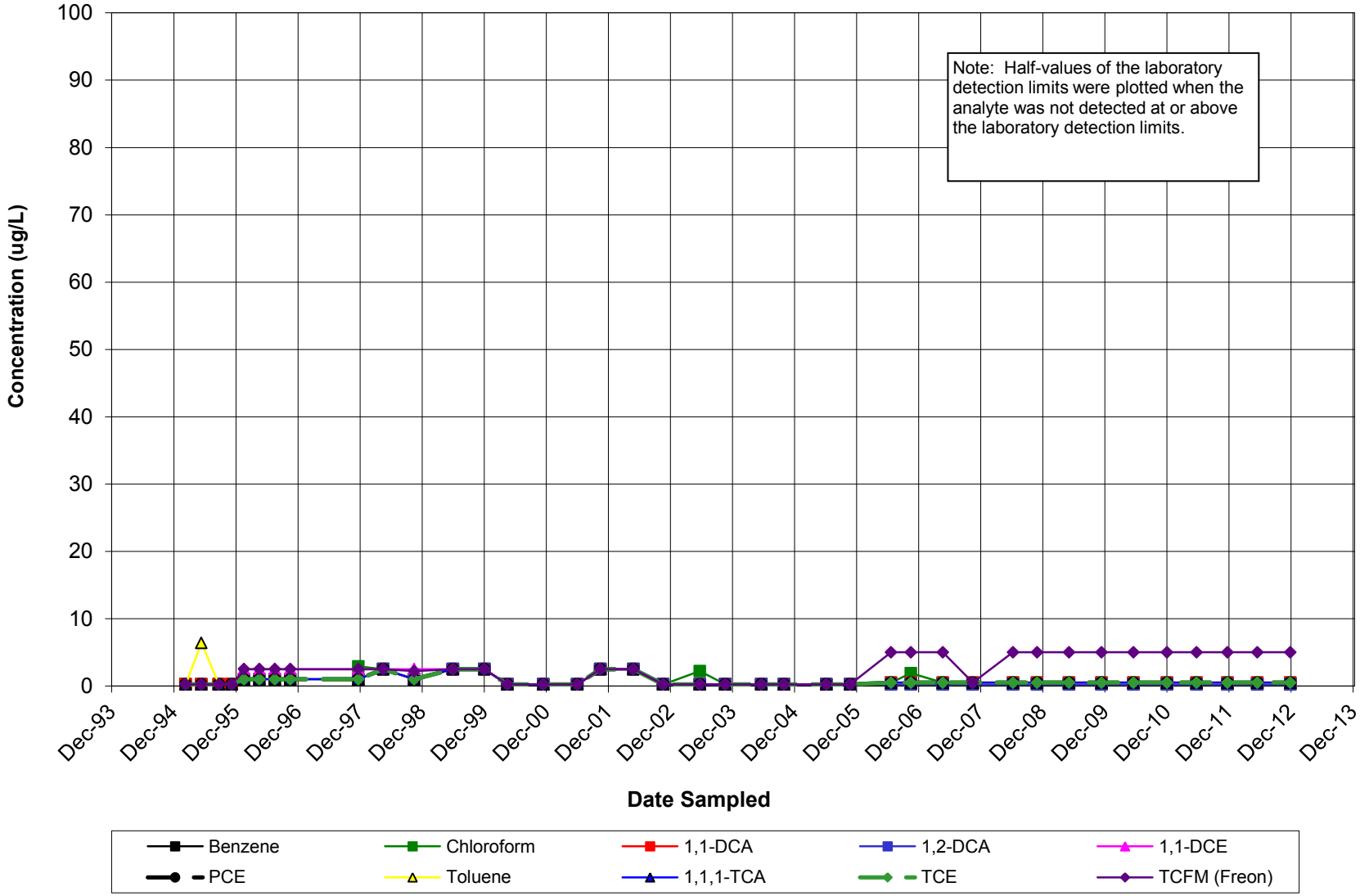
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 25: Volatile Organic Compounds vs. Time
Monitoring Well MW-17
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



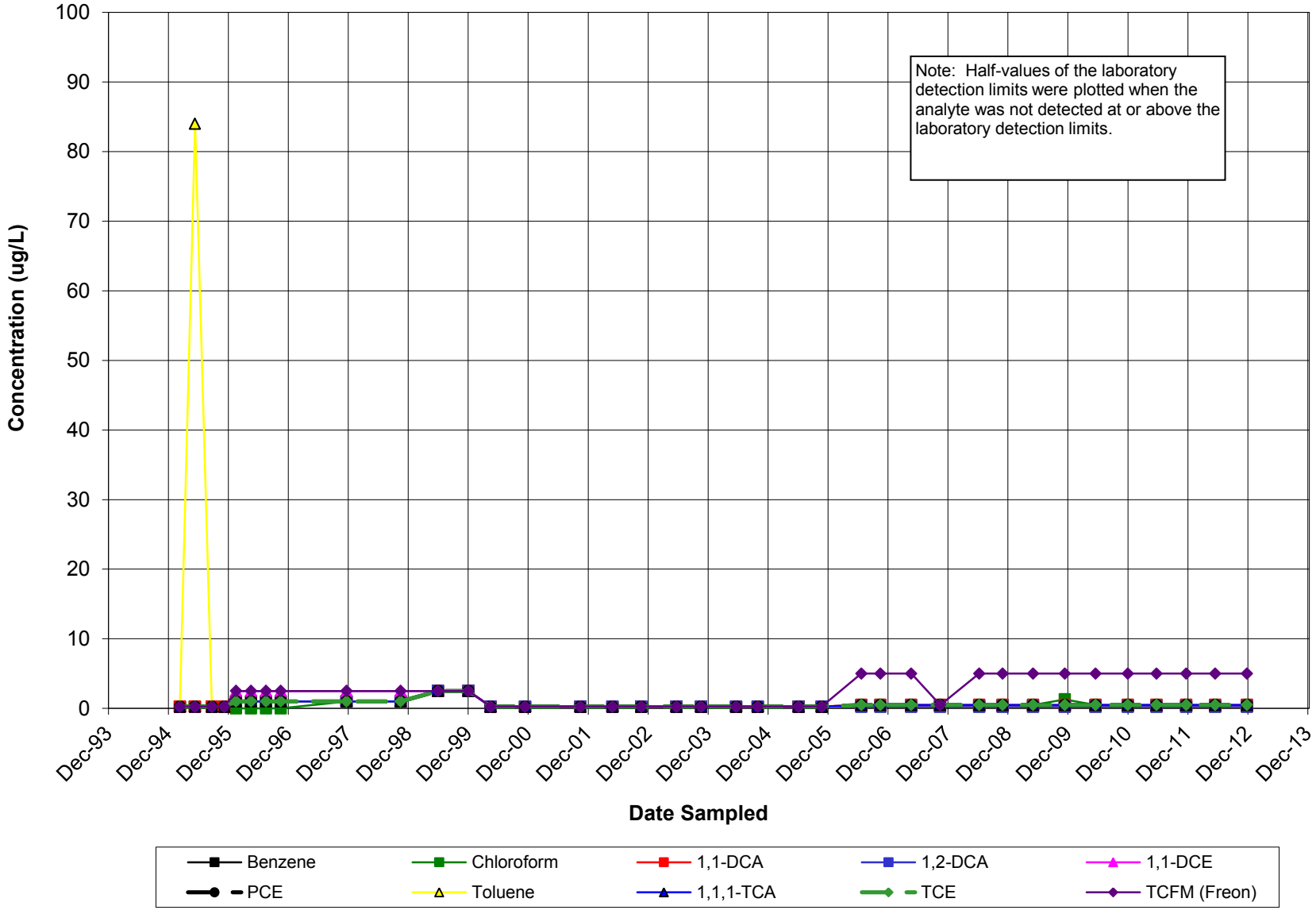
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 26: Volatile Organic Compounds vs. Time
Monitoring Well MW-19S
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



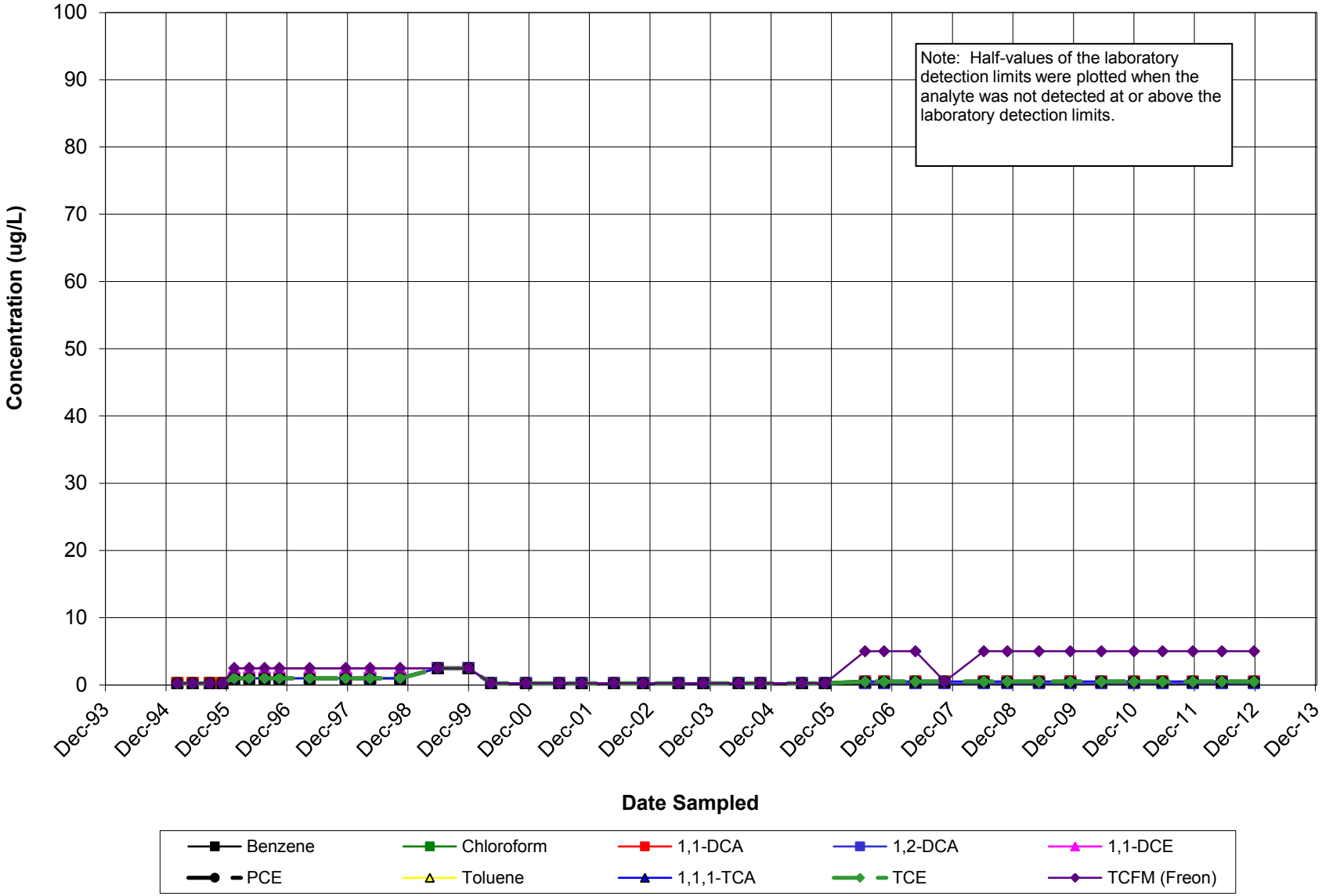
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 27: Volatile Organic Compounds vs. Time
Monitoring Well MW-19D
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



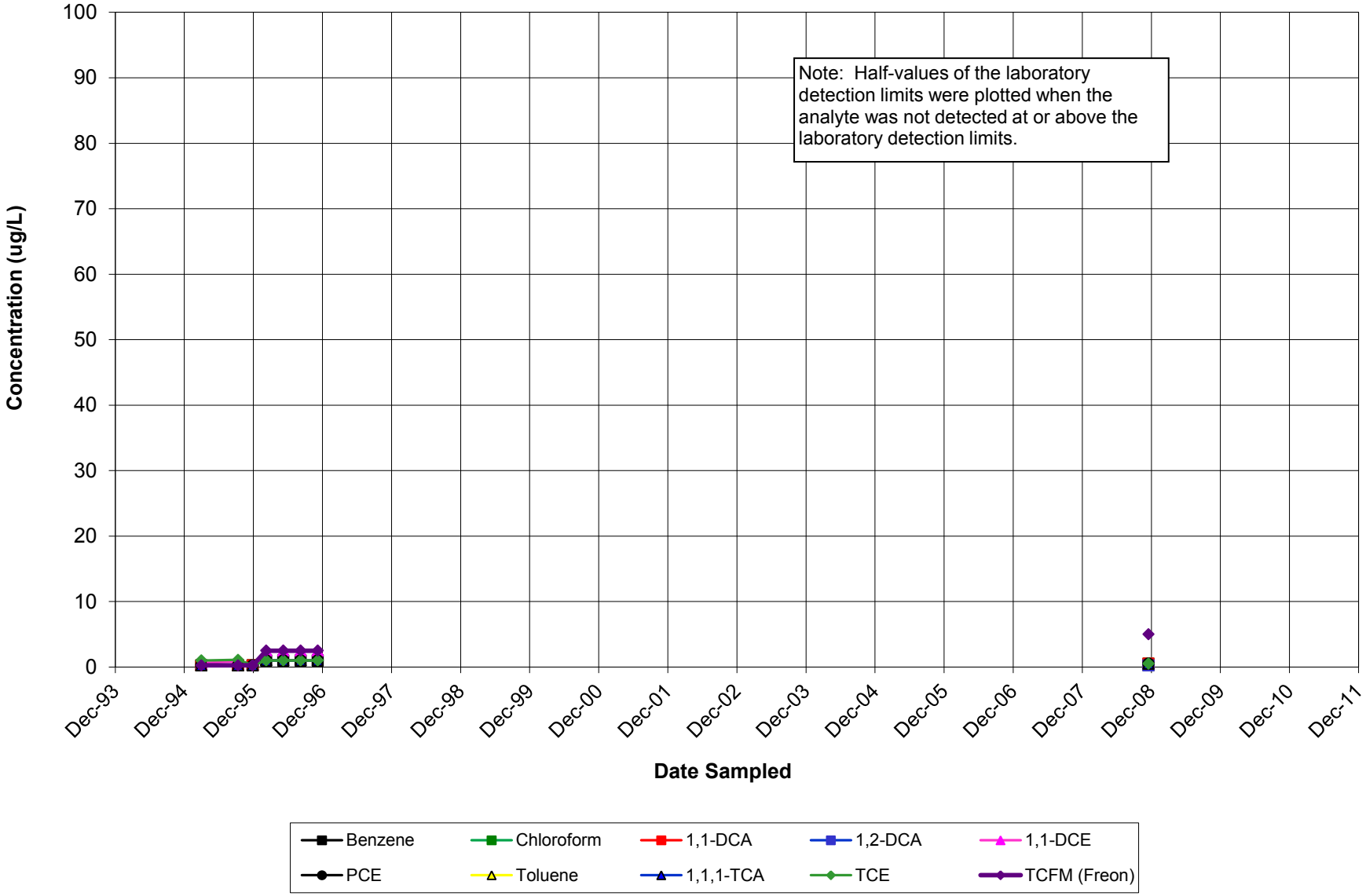
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 28: Volatile Organic Compounds vs. Time
Monitoring Well MW-20S
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



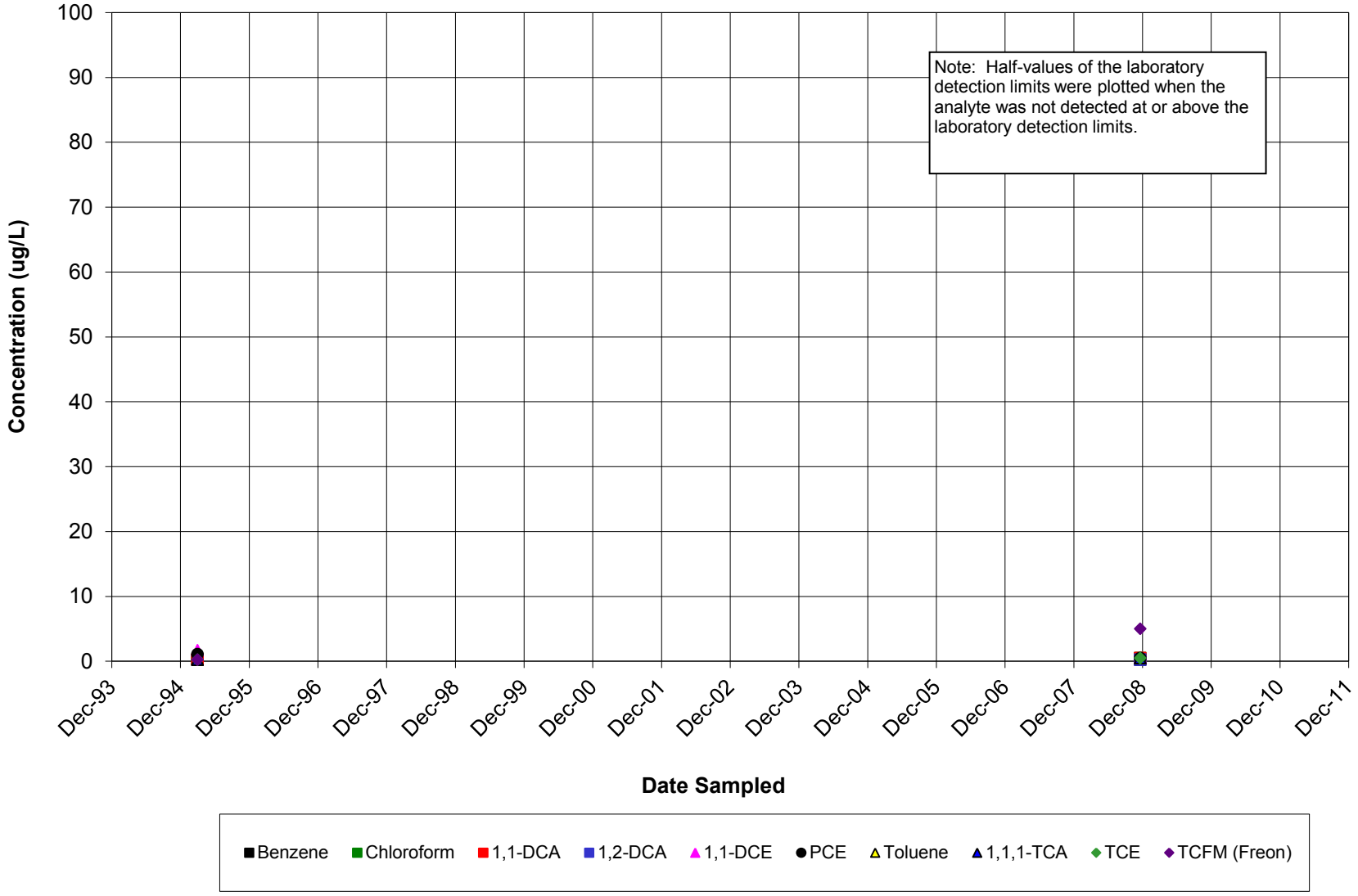
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 29: Volatile Organic Compounds vs. Time
Monitoring Well MW-21S
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



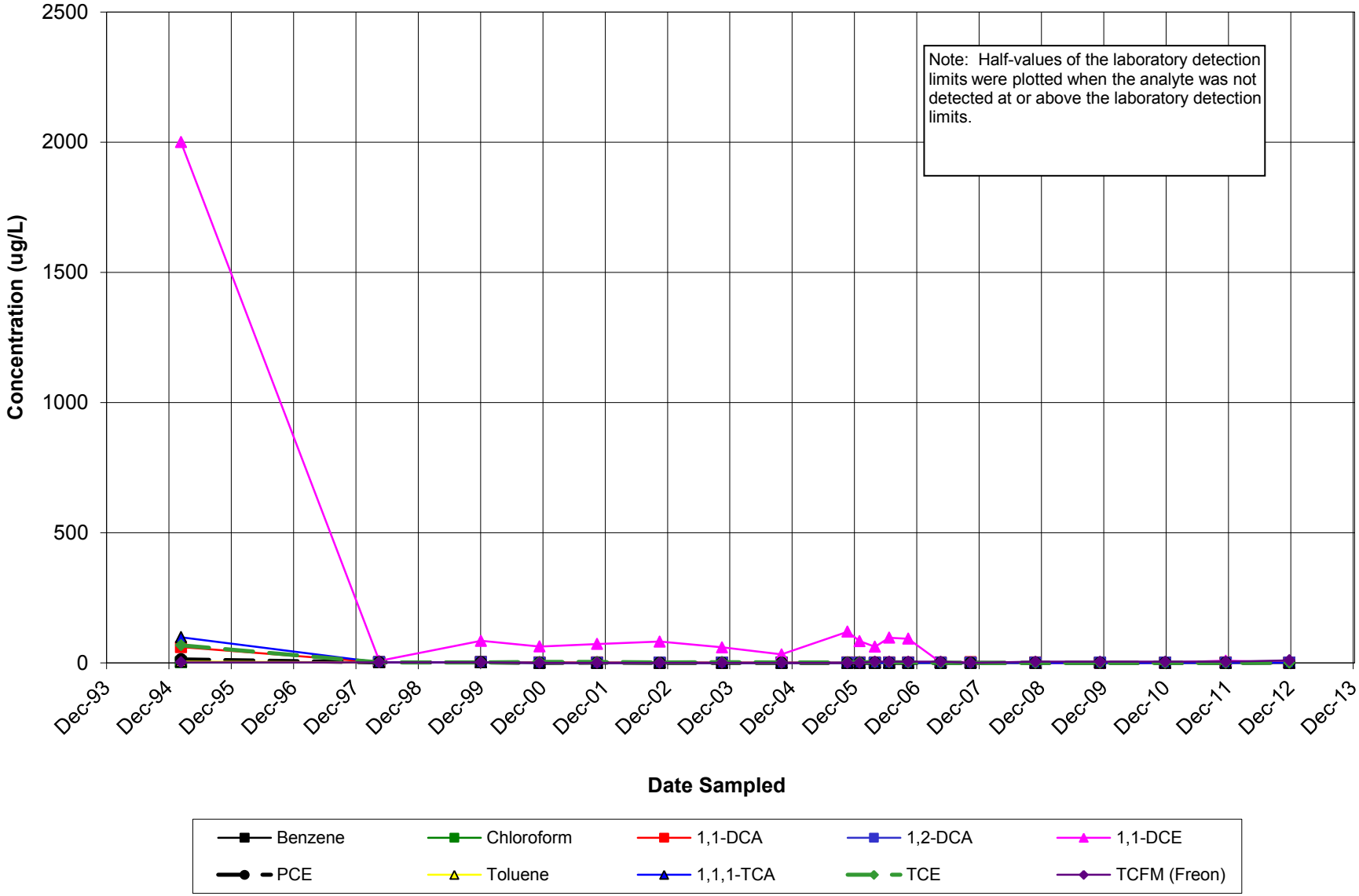
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 30: Volatile Organic Compounds vs. Time
Monitoring Well MW-22S
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



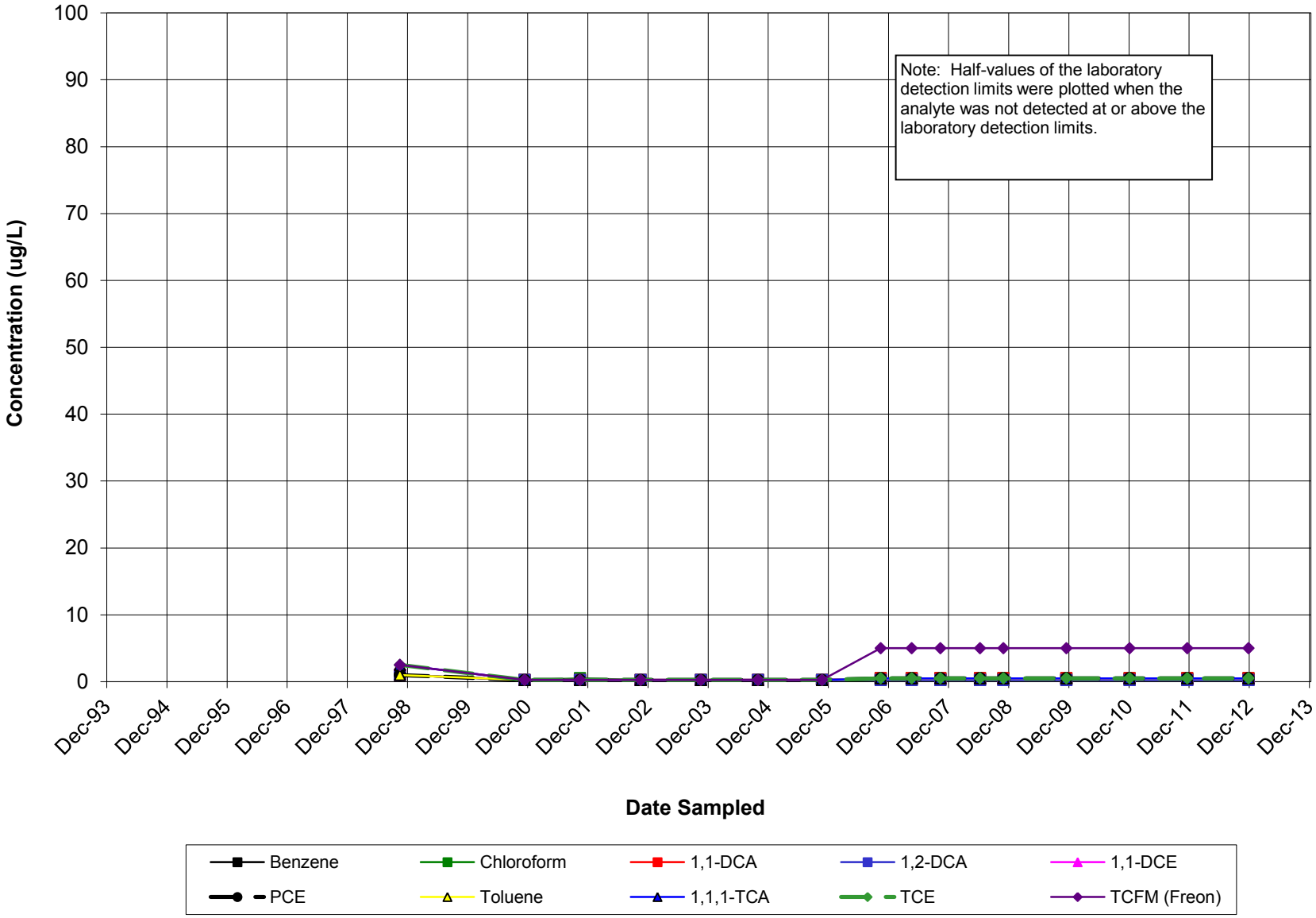
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 31: Volatile Organic Compounds vs. Time
Monitoring Well MW-23
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



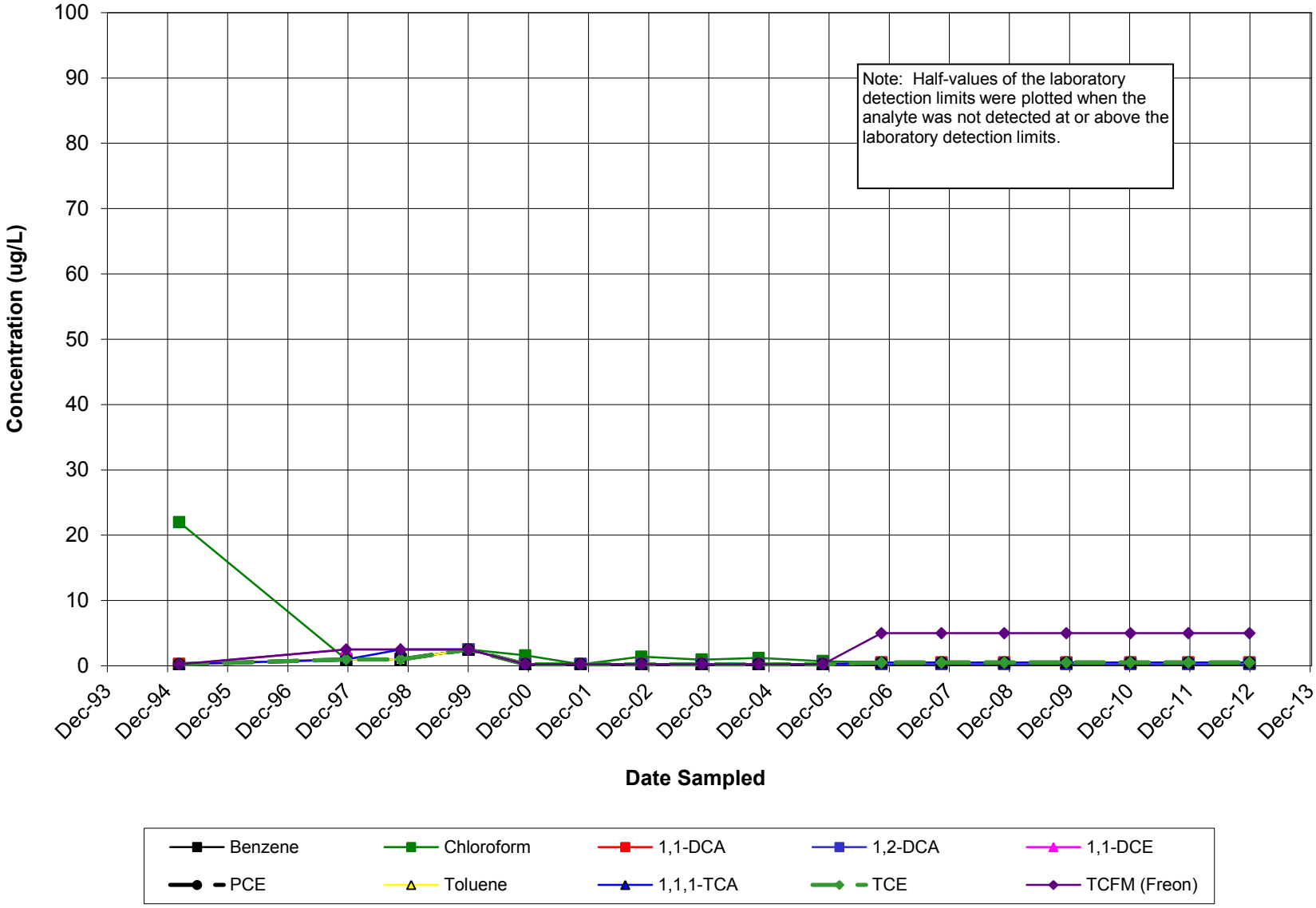
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 32: Volatile Organic Compounds vs. Time
Monitoring Well MW-24
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



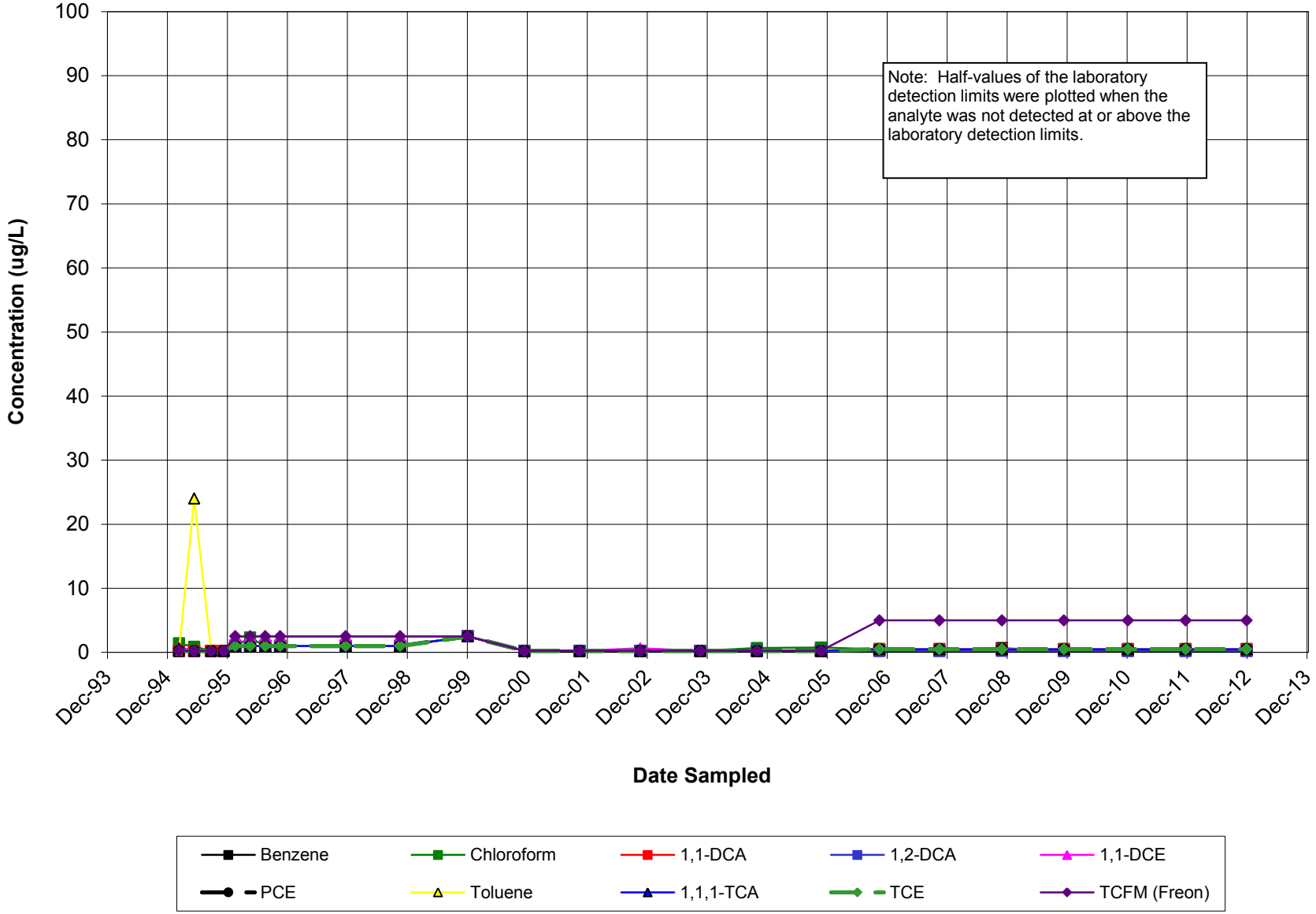
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 33: Volatile Organic Compounds vs. Time
Monitoring Well MW-25
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



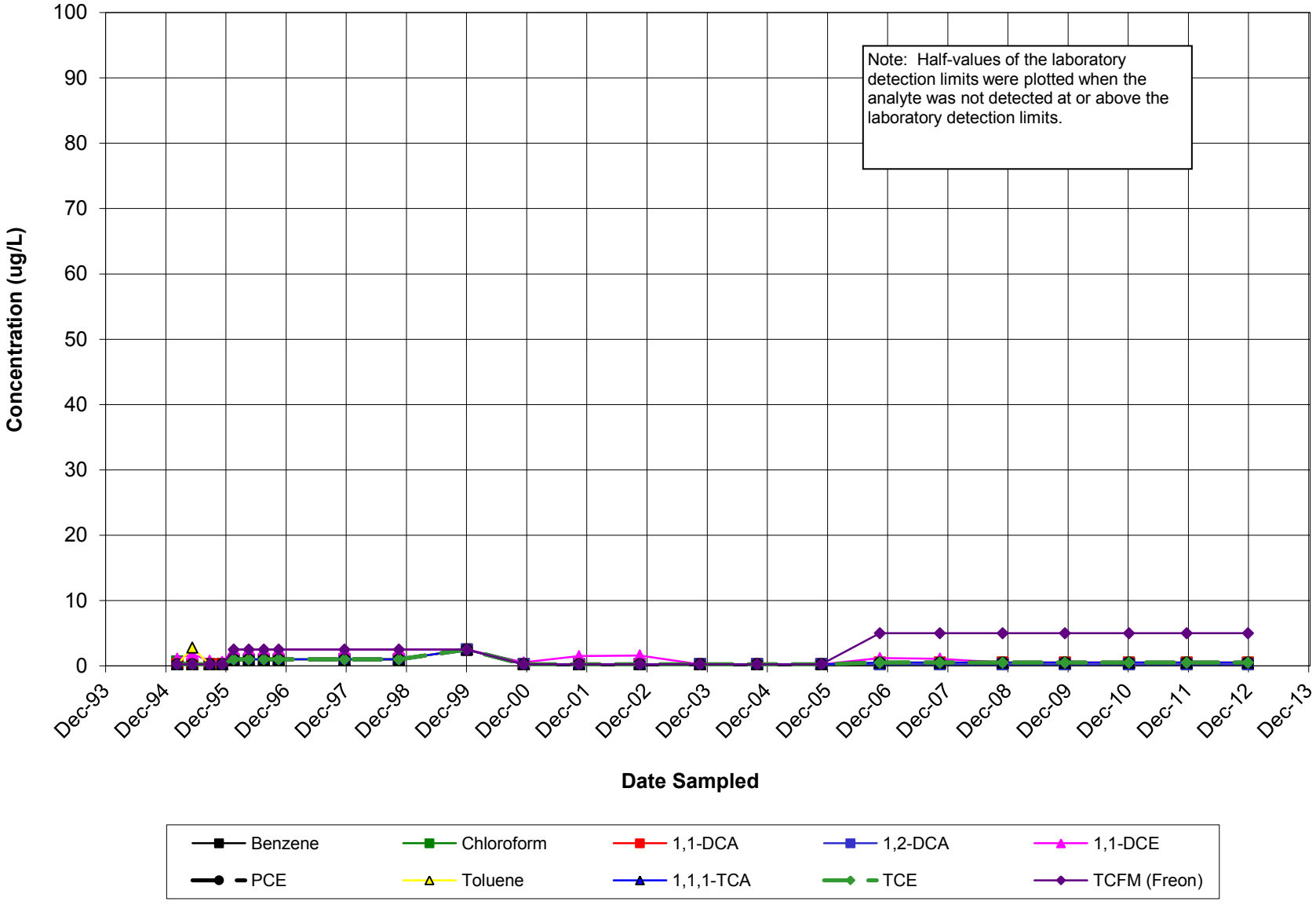
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 34: Volatile Organic Compounds vs. Time
Monitoring Well MW-26
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



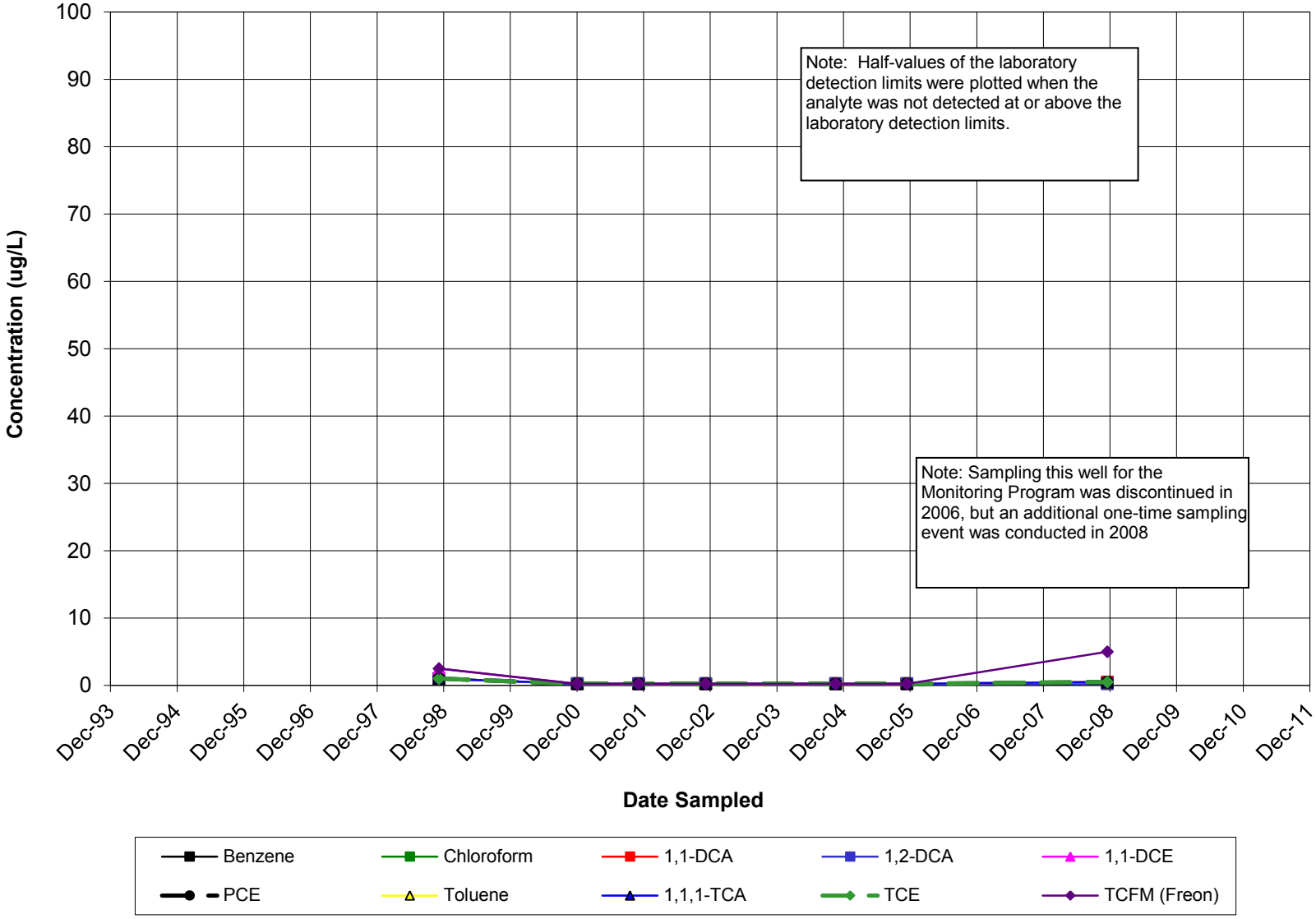
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 35: Volatile Organic Compounds vs. Time
Monitoring Well MW-27
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



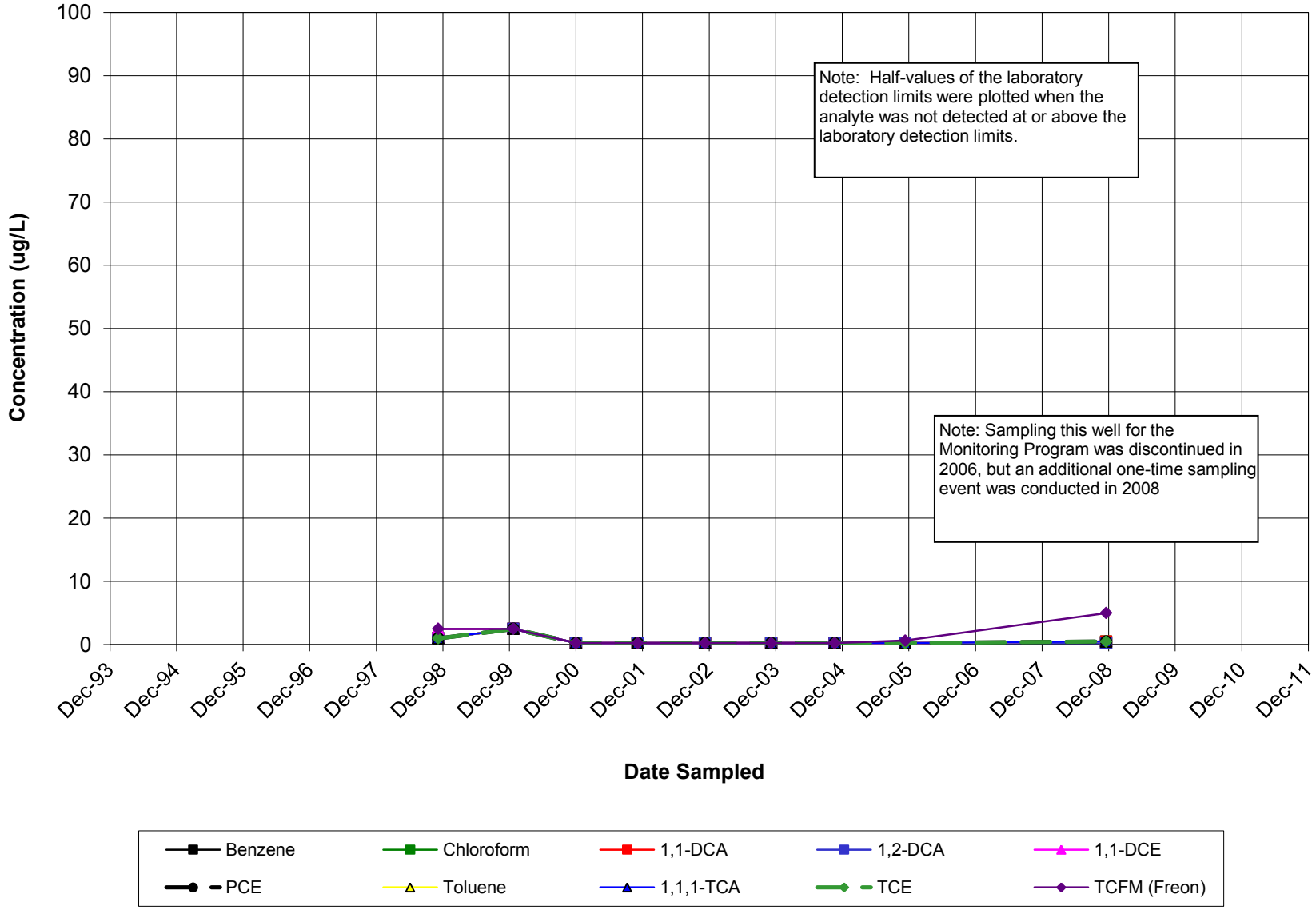
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 36: Volatile Organic Compounds vs. Time
Monitoring Well MW-28
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



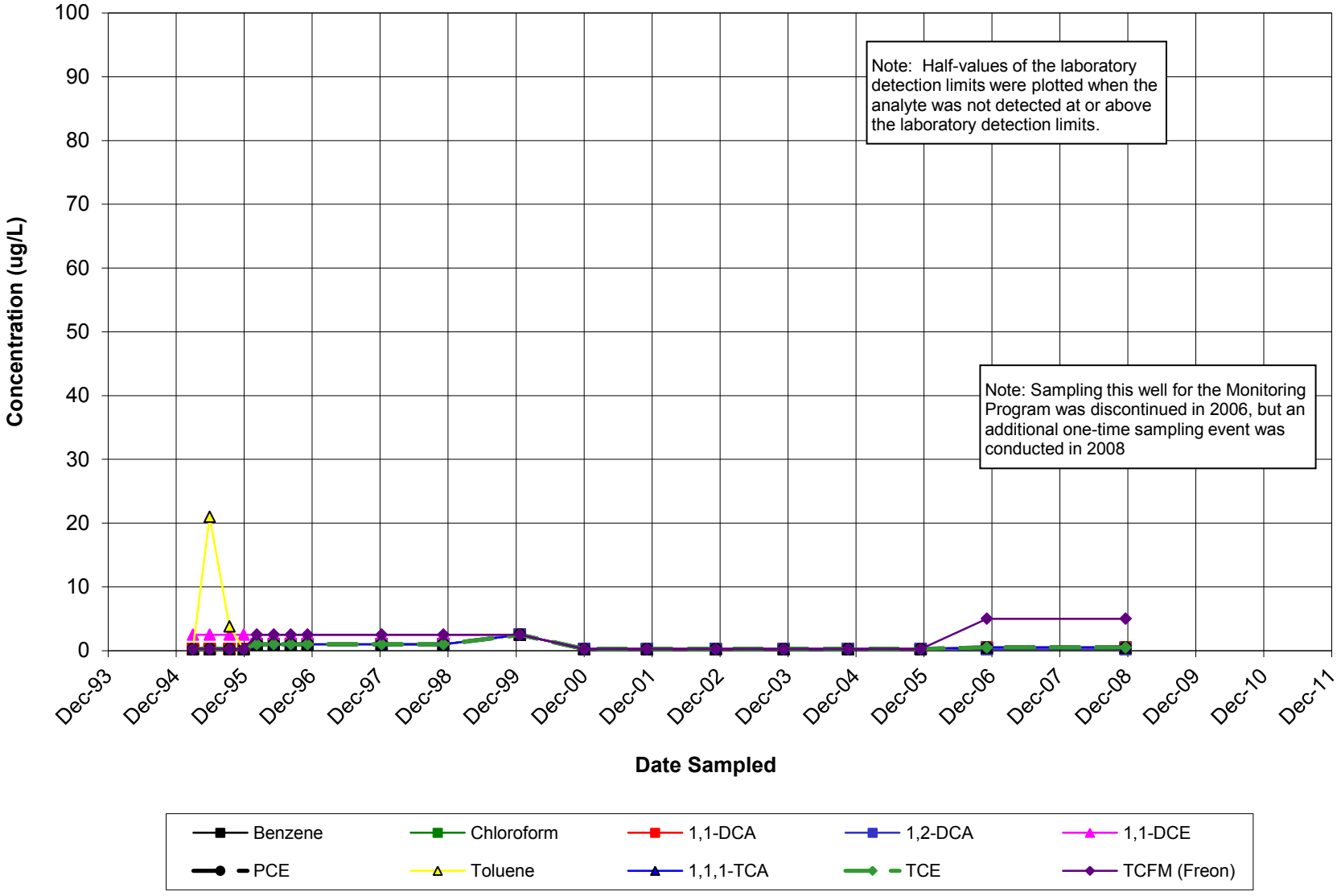
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 37: Volatile Organic Compounds vs. Time
Monitoring Well MW-29
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



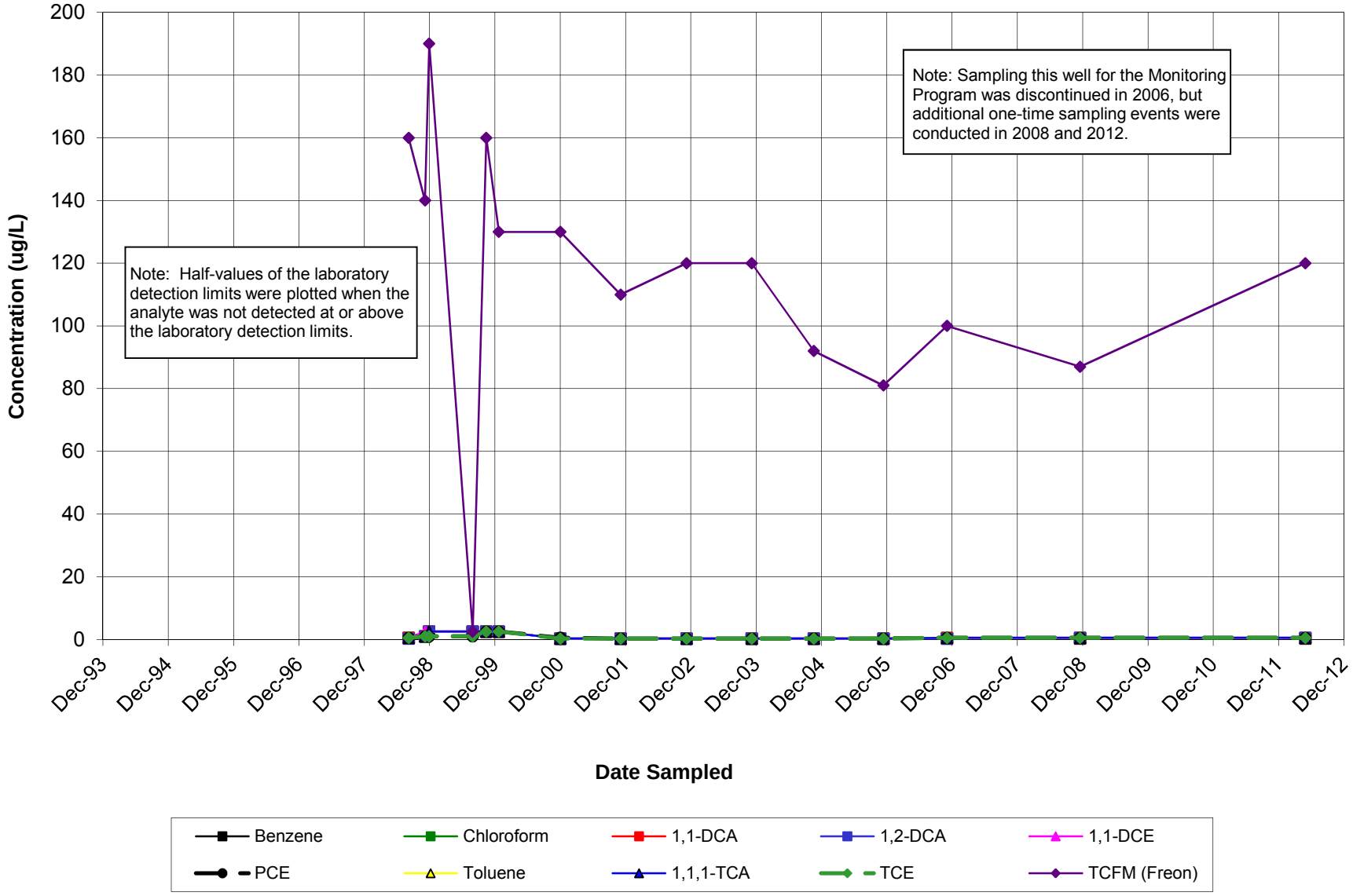
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 38: Volatile Organic Compounds vs. Time
Monitoring Well MW-30
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



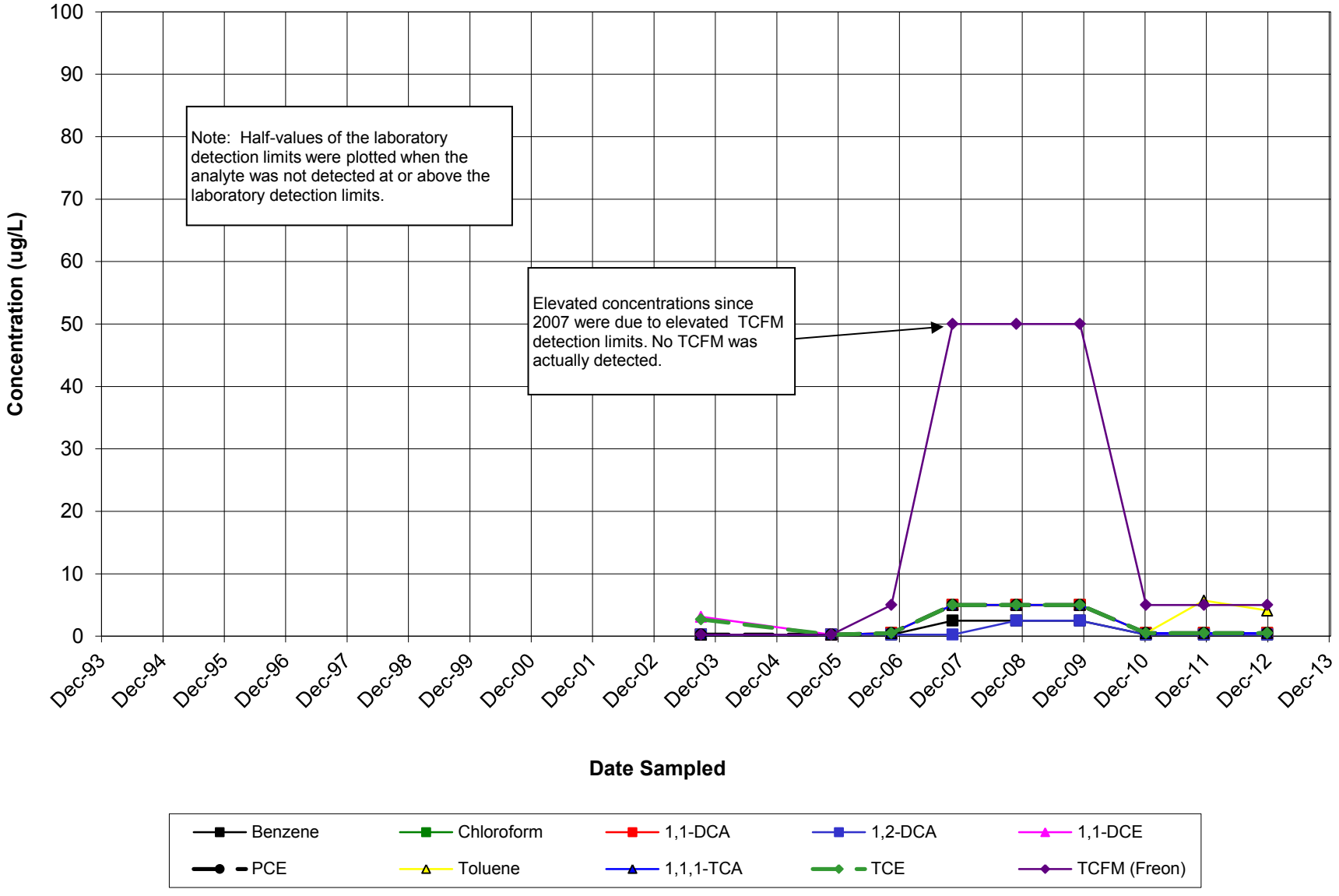
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 39: Volatile Organic Compounds vs. Time
Monitoring Well MW-31
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



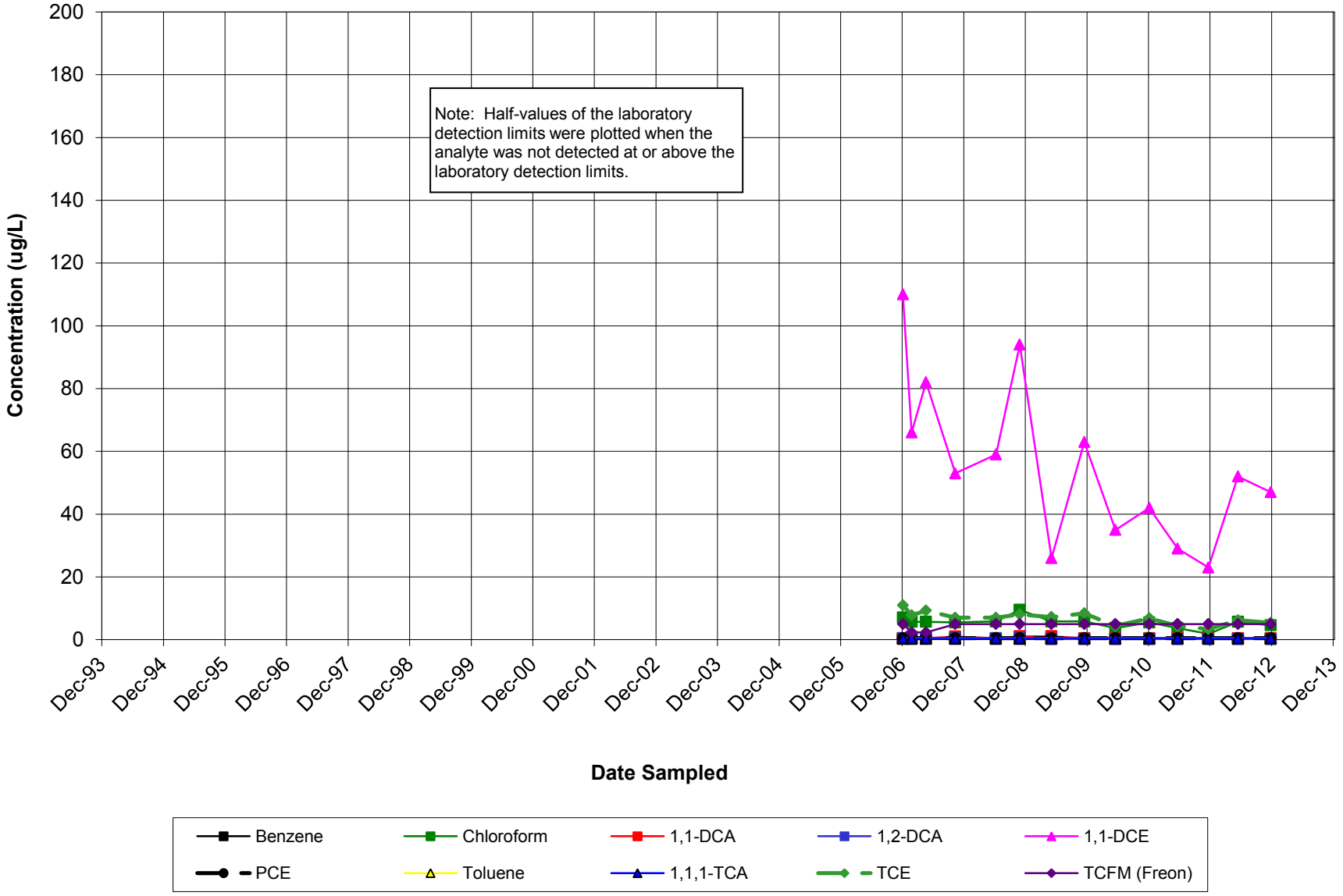
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 40: Volatile Organic Compounds vs. Time
Monitoring Well MW-36
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



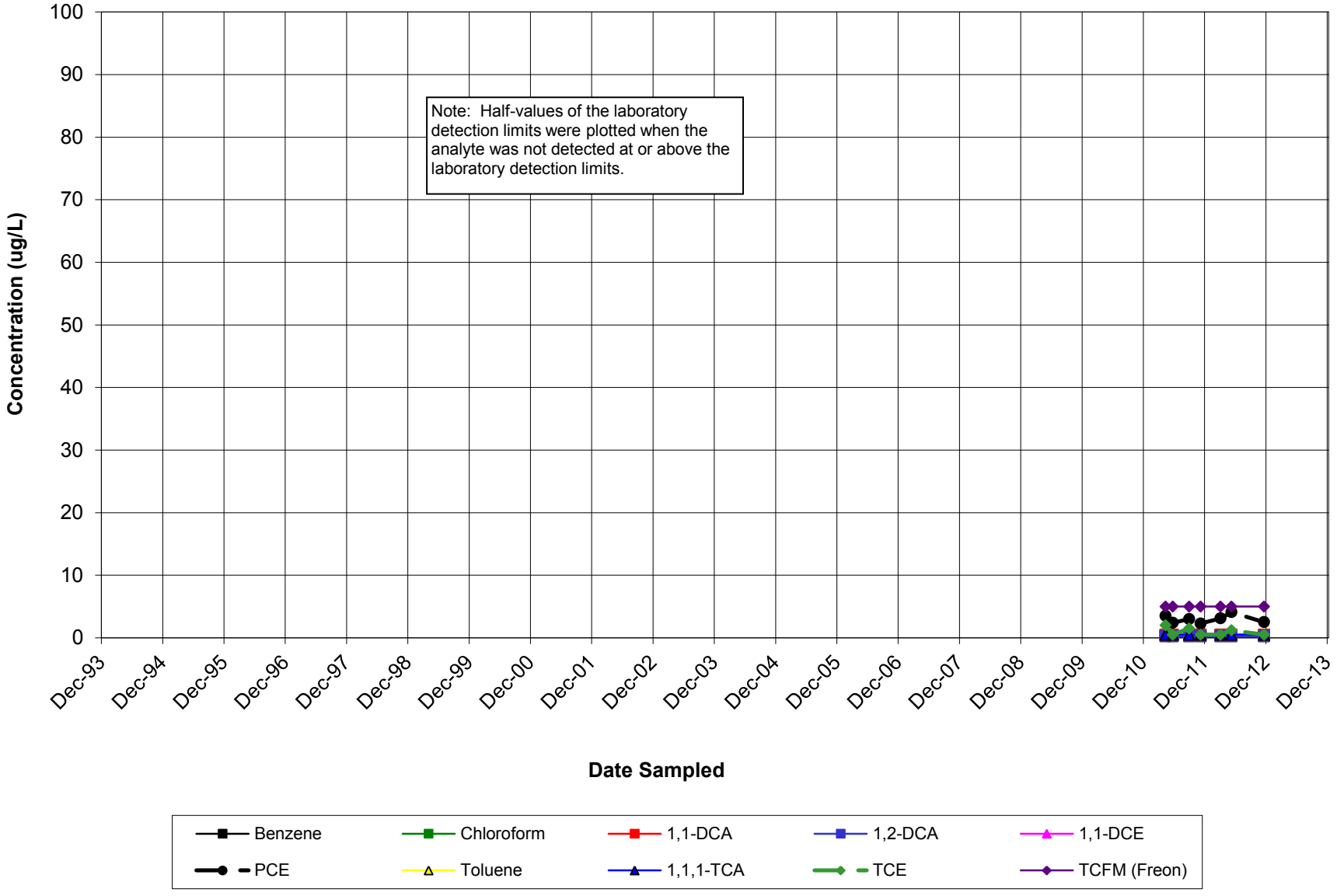
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 41: Volatile Organic Compounds vs. Time
Monitoring Well MW-37
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



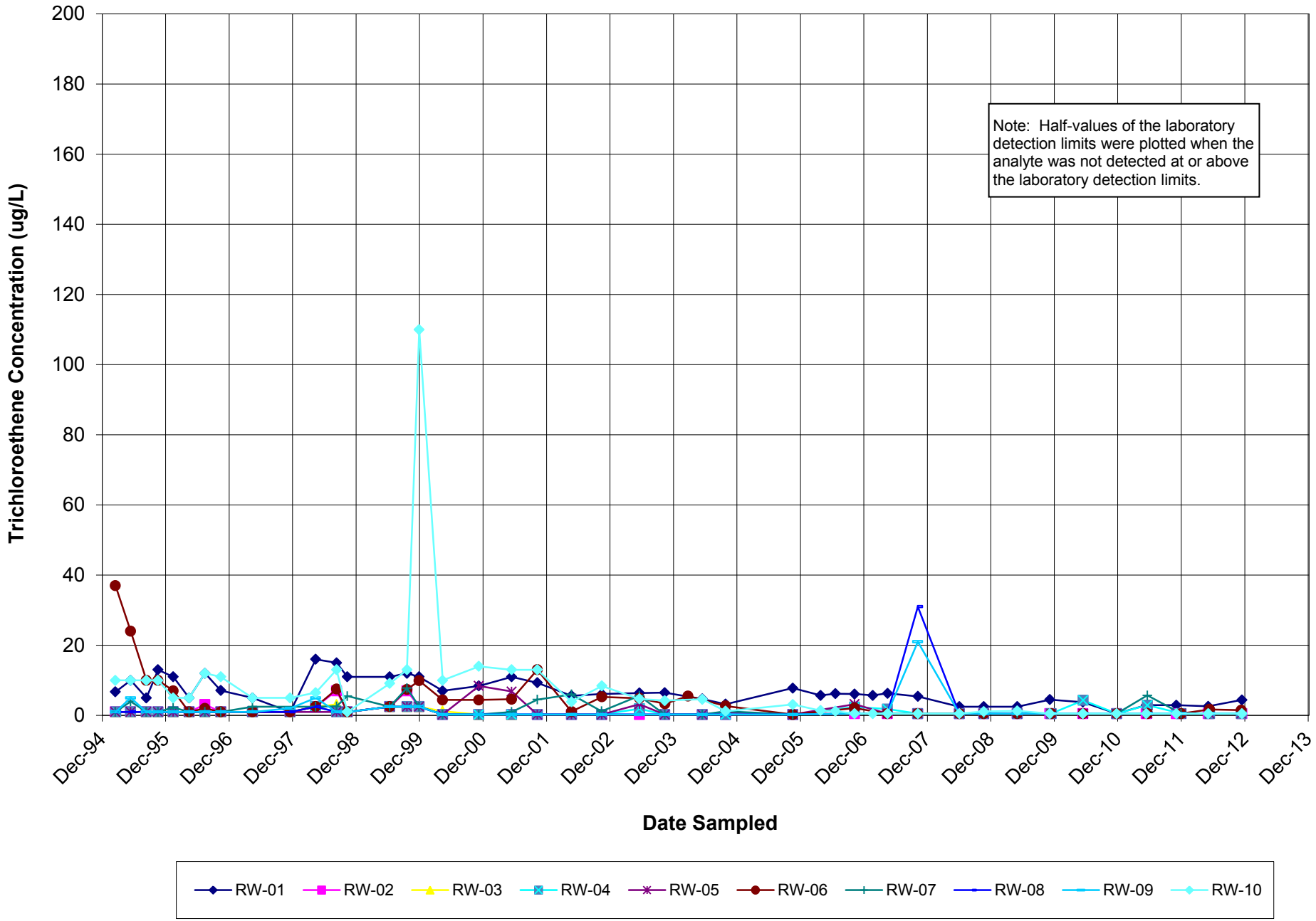
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 42: Volatile Organic Compounds vs. Time
Monitoring Well MW-38
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California

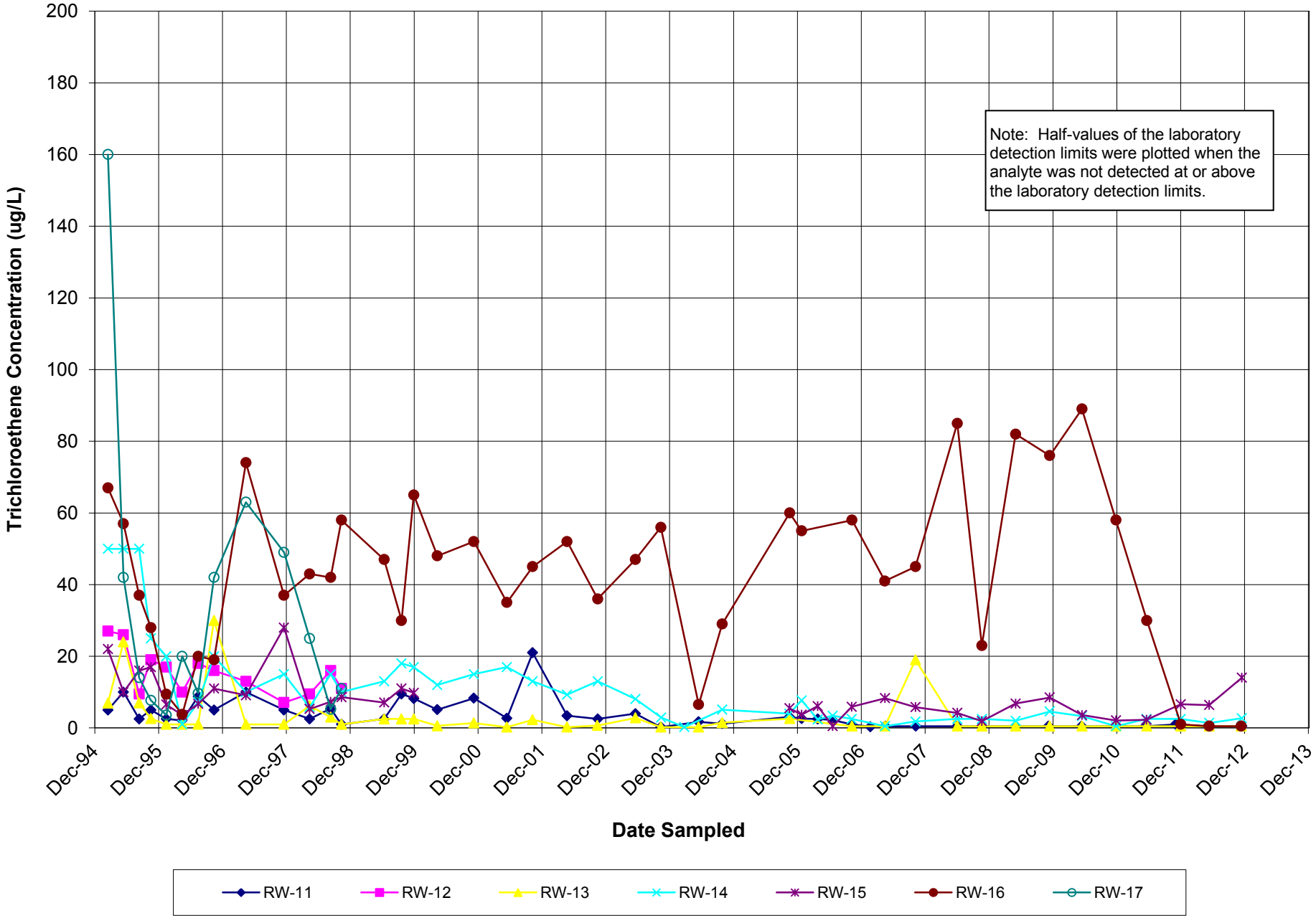


DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

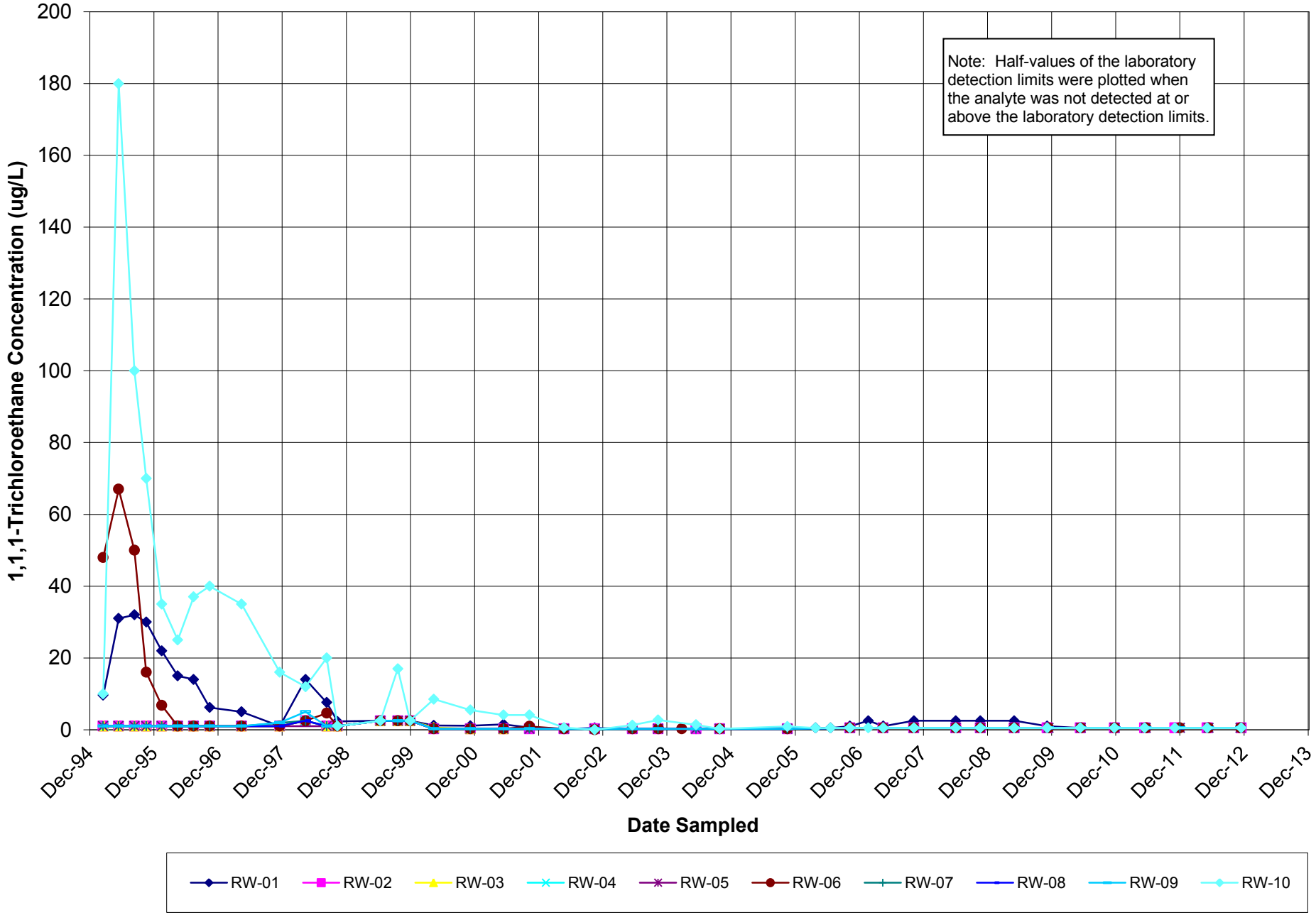
Graph 43A: Trichloroethene Concentration vs. Time
Groundwater Recovery Wells RW-01 through RW-10
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



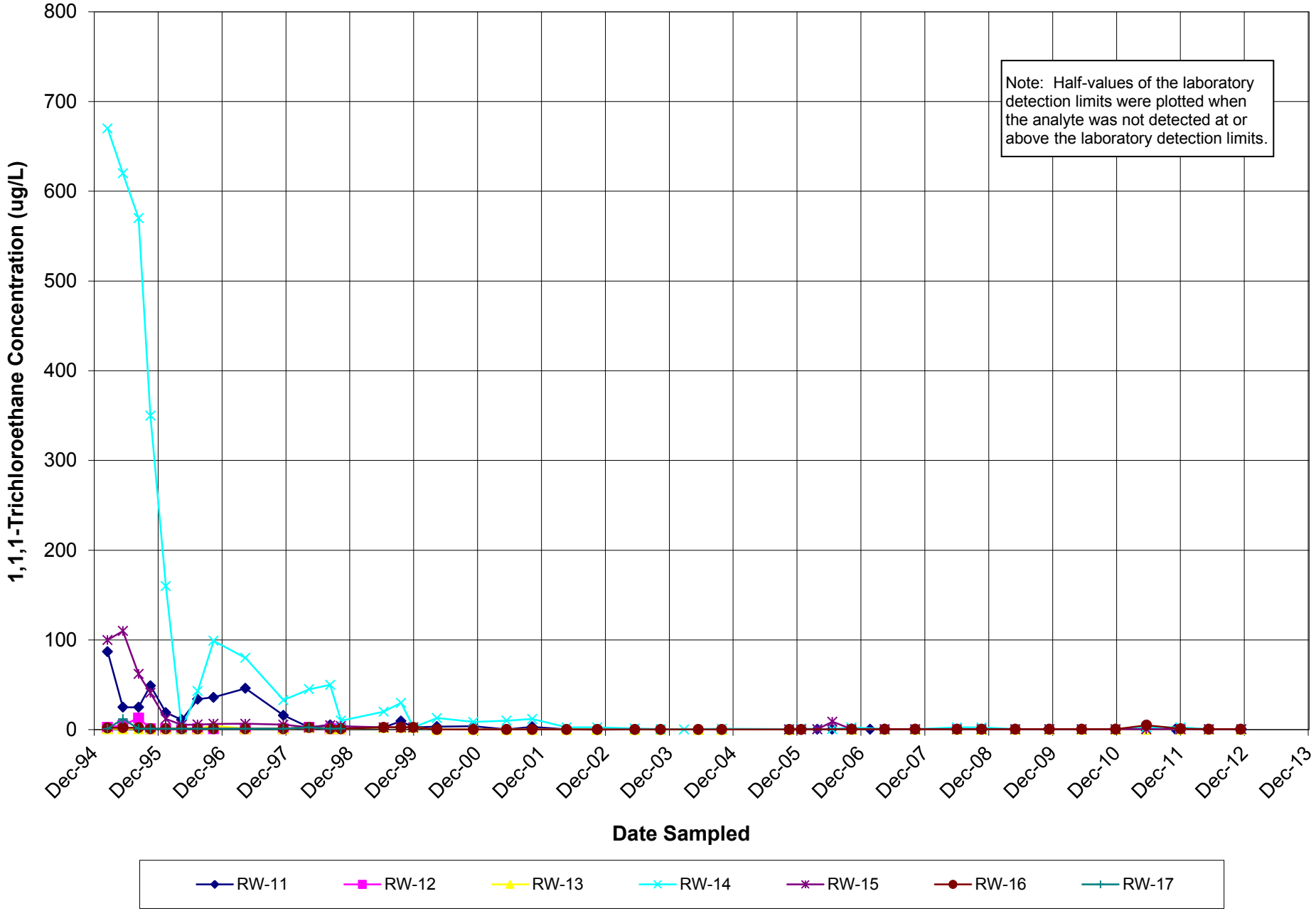
Graph 43B: Trichloroethene Concentration vs. Time
Groundwater Recovery Wells RW-11 through RW-17
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



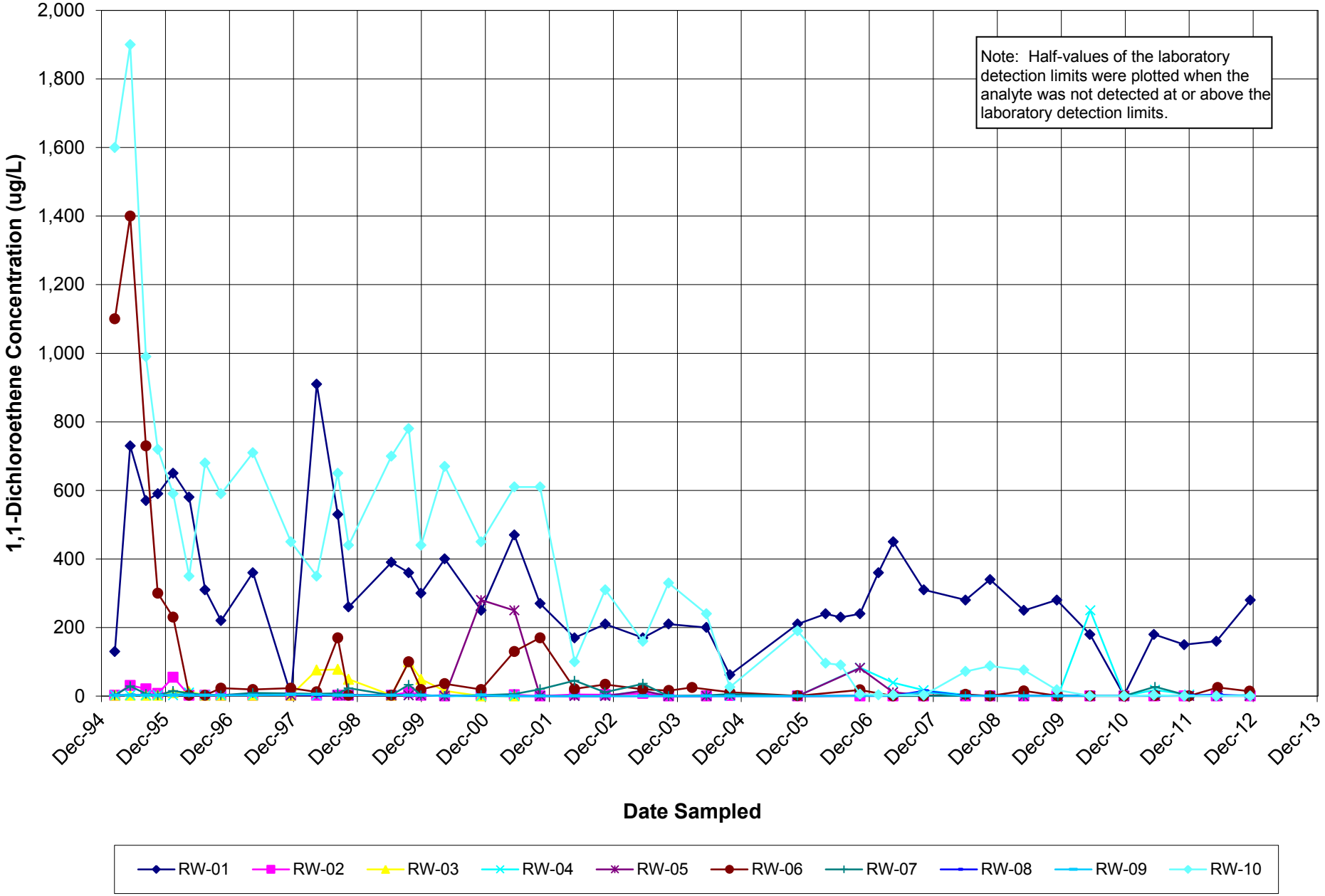
Graph 44A: 1,1,1-Trichloroethane Concentration vs. Time
Groundwater Recovery Wells RW-01 through RW-10
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



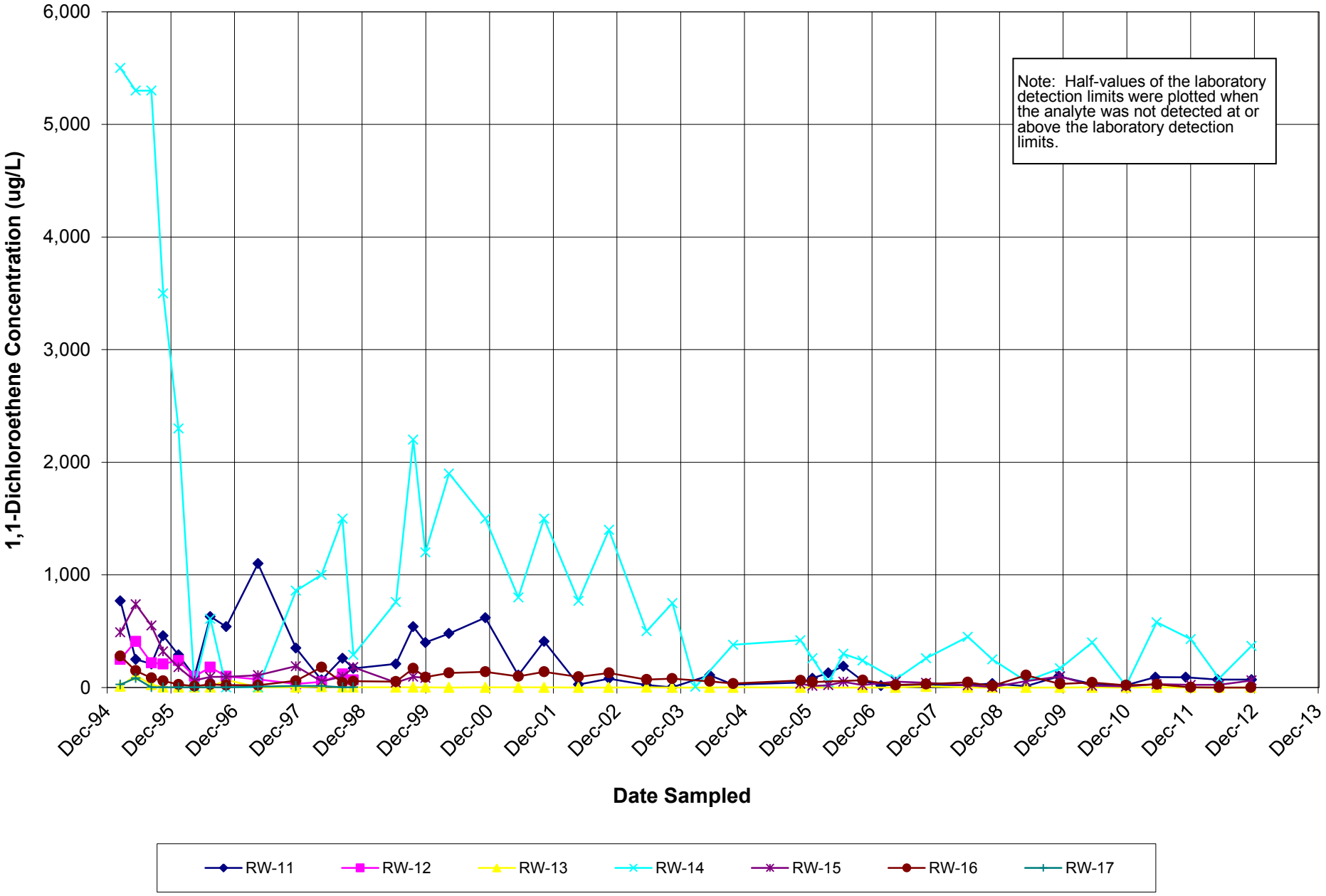
Graph 44B: 1,1,1-Trichloroethane Concentration vs. Time
Groundwater Recovery Wells RW-11 through RW-17
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



Graph 45A: 1,1-Dichloroethene Concentration vs. Time
Groundwater Recovery Wells RW-01 through RW-10
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



Graph 45B: 1,1-Dichloroethene Concentration vs. Time
Groundwater Recovery Wells RW-11 through RW-17
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



APPENDIX A

FIELD LOGBOOK DATA AND
GROUNDWATER WELL PURGE RECORDS

Daily Field Memorandum

Field Personnel: Bob Johnson
Date: 12-12-12
Project Name: Raytheon Canoga
Time Arrived Site:
Project/Phase/Task Number: 2009025
Time Left Site:
Project Manager:
Travel Time:

Regulator(s) on Site/Time: Ø

Client(s) on Site/Time: Ø

Tasks Completed/Equipment Used/Times: Annual Sample Monitor & Recovery wells.
12-6-12 - sample recovery wells,
Duplicate- dup RW12612 From RW-6,
RW-13 - no R.W. dedicated pump, use monsoon.
Purge water placed in drum.
12-12-12 - gauge site.
12-11-12 - gauge & sample DWP site.
12-14-12- start monitor well sample.
Duplicates- Dup A12a -121412 From CM-2D
Dup A12b- 121812 From MW-37
Trip Blanks - TB12612
TB 121112 (3 wells D.W.P.)
TB 122012
All purge water placed in drums,
AIS picks up 2 drums purge water on 12-20-12.
NO drums left on site.

Tasks Completed/Equipment Used/Times:

DEPTH TO WATER AND GROUNDWATER ELEVATION DATA

Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Date: 12-12-12

Time: _____ Technician: BJ

Well I.D.	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Screen Interval (ft, bgs)	Gauging Frequency	Sampling Frequency	Comments
M-1	Ø	882.42	50-70	SA	A	Soy oil (cottage cheese)
CM-2D	29.14	876.50	20-60	SA	A	
CM-4D	37.03	887.46	20-60	SA	EISB	
CM-7	19.38	859.88	19-39	EISB	NS	
CM-7D	16.48	859.79	70-75	SA	SA	
CM-8D	51.39	890.19	30-70	SA	SA	
CM-9D	32.71	873.29	20-60	SA	A	
CM-10	46.43	850.78	32-52	A	NS	
CM-11A	36.72	862.59	43-73	A	NS	
CM-12	36.22	875.80	46-66	A	NS	
CM-13	27.52	868.39	39-74	SA	A	
CM-14	17.52	858.65	18-33	SA	A	
CM-15	27.43	852.46	40-70	A	NS	
CM-16	41.94	892.41	40-70	SA	EISB	
CM-17	42.06	846.26	45-75	A	NS	
CM-18	48.81	887.89	41-72	SA	A	
CM-19	62.79	908.17	69-99	SA	A	
MW-15	26.36	868.23	92-101.5	SA	SA	
MW-16	36.72	882.19	100-120	SA	SA	
MW-17	34.85	883.52	37-47	SA	A	
MW-19S	16.23	860.66	20-30	SA	SA	
MW-19D	10.14	860.38	80-100	SA	SA	
MW-20S	16.37	858.03	30-40	SA	SA	
MW-20D	15.50	858.35	60-80	A	NS	
MW-21S	12.34	849.95	20-40	A	NS	
MW-21D	10.06	849.93	70-80	A	NS	
MW-22S	21.40	840.49	30-40	A	NS	
MW-22D	21.0	840.23	70-90	A	NS	
MW-23	29.20	873.66	25-55	SA	A	
MW-24	39.98	877.29	35-65	SA	A	
MW-25	52.40	890.28	40-70	SA	A	
MW-26	48.00	885.50	40-70	SA	A	
MW-27	40.63	877.51	35-65	SA	A	
MW-28	51.93	890.90	43-73	A	NS	
MW-29	53.95	867.36	35-65	A	NS	
MW-30	43.51	858.11	28-58	A	NS	
MW-31	car on well	864.70	--	A	NS	Not found/paved over
MW-32S	36.60	887.10	35-45	HWSA	HWSA	
MW-32D	36.15	887.05	50-55	HWSA	HWSA	
MW-33	35.98	885.40	49-59	HWSA	HWSA	

12-12-12

Well I.D.	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Screen Interval (ft, bgs)	Gauging Frequency	Sampling Frequency	Comments
MW-34S	Ø	888.85	35-45	HWSA	HWSA	water below pump
MW-34D	37.91	888.88	50-55	HWSA	HWSA	
MW-35S	Ø	887.35	35-45	HWSA	HWSA	water below pump
MW-35D	37.38	887.34	50-55	HWSA	HWSA	
MW-36	30.69	879.28	30-40	SA	A	
MW-37	52.38	889.34	50-60	SA	A	
MW-38	33.35	881.91	40.5-60.5	EISB	EISB	
MW-39	29.80		30-40			3/4" well
MW-40	15.69		26-41			3/4" well
MW-41	22.35		25-40			3/4" well
MW-42	21.22					3/4" well
MW-43	14.15					3/4" well
MW-44	15.14					3/4" well
VW-122	34.91	885.43	25-40	HWSA	HWSA	
RW-01	20.61	860.71	10-50	SA	EISB	
RW-02	Ø	Roots		SA	EISB	well obstruction
RW-10	22.82			SA	EISB	
RW-11	25.62			SA	EISB	
RW-14	27.22			SA	EISB	

Notes:

1) ft = feet; TOC = top of well casing; bgs = below ground surface
2) MSL = Mean Sea Level, National Geodetic Vertical Datum of 1929 (NGVD29)
3) A = annual; SA = semiannual
4) -- = data not available.

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad
Well Identification	☐	☐
Vault Cover	☐	☐
Vault Seal	☐	☐
Bolts	☐	☐
Vault Lock	☐	☐
Concrete Completion	☐	☐
Well Lock/Seal	☐	☐

Well Number: M-1 **Date:** 12-2012 **Project No:** 2009025.025/0650

A. Depth to water 0 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** 1SA12

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer_____sec **Discharge Timer**_____sec **Pressure:** _____psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
/										
/										
/		1130								
/										
/										
/				5 gals						
/										
/										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Monsoon ☐ Other:_____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Monsoon ☐ Other:_____ **Sample depth** _____ ft

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☐
U-10	☐
Other: _____	

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Additional Comments: Oil Thick cottage cheese in well. Add 45 gals H2O to well, 5 gals at a time. After every 5 gals H2O added, well was surged with plastic solid surge block. Cottage cheese is now a ~~soupy~~ soupy? liquid. Grab sample with set point bailer.

OTIE Oneida Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad
Well Identification	☐	☐
Vault Cover	☐	☐
Vault Seal	☐	☐
Bolts	☐	☐
Vault Lock	☐	☐
Concrete Completion	☐	☐
Well Lock/Seal	☐	☐

Well Number: CM-2D **Date:** 12-14-12 **Project No:** 2009025.025/0650

A. Depth to water 29.14 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** 1SA12 Dupe

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs 0950 hrs Dup-A12a-121412

Inlet Timer _____ sec **Discharge Timer** _____ sec **Pressure:** _____ psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			7.06	4.116	31.6	.14	21.6			-36
/			7.03	4.112	1	.12				-31
/			7.00	4.110		.10				-26
2 1/2 gals		0930	7.00	4.109	18.5	.10				-24
/										
/										
/										
/										
/										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Monsoon ☐ Other: _____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Monsoon ☐ Other: _____ **Sample depth** _____ ft

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☐
U-10	☐
Other: _____	

QA/QC Sample Collected Here? ☑ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: 12-14-12 0950 hrs **Sample ID:** Dup-A12a-121412

Additional Comments:

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: CM-4D **Date:** 12-11-12 **Project No:** 2009025.025/0610

A. Depth to water 37.03 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** EISB (Ph VI) M12

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer_____sec **Discharge Timer**_____sec **Pressure:** _____psi

0845

Dup

Dup-269

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			6.29	3.071	36.2	.06	22.70			-83
1			6.27	3.206		.03				-85
1			6.26	3.204		.01				-87
3 1gal		0820	6.26	3.200		.01				-89
1										
1										
1										
1										
1										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Sample depth** _____ ft

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☐
U-10	☐
Other: 0011	

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID:

Date/Time of QC Sample: 12-11-12 0845 **Sample ID:** Dup-269

Additional Comments: metals Field Filtered

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: CM-7D **Date:** 12-14-12 **Project No:** 2009025.025/0650

A. Depth to water 16.48 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** 1SA12

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer _____ sec **Discharge Timer** _____ sec **Pressure:** _____ psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			8.11	3.616	48.9	.49	23.0			-256
/			8.09	3.519	1	.46				-254
/			8.08	3.436		.44				-254
1.5 gals		1325	8.09	3.414	33.2	.43				-251
/							↓			
/										
/										
/										
/										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other: _____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other: _____ **Sample depth** _____ ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Additional Comments: _____

Water Meter Used:

U-22-TN-01	☐
U-22-TN-02	☐
U-10	☐
Other: Trolley	

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☐	☐
Vault Seal	☐	☐
Bolts	☐	☐
Vault Lock	☐	☐
Concrete Completion	☐	☐
Well Lock/Seal	☐	☐

Well Number: CM-8D **Date:** 12-18-12 **Project No:** 2009025.025/0650

A. Depth to water 51.39 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** 1SA12

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer_____sec **Discharge Timer**_____sec **Pressure:** _____psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			7.52	2.946	37.4	.06	21.0			-274
1			7.50	2.914		.03				-263
1			7.50	2.887		.02				-261
2 gals		1000	7.47	2.886	21.2	.02				-261
1										
1										
1										
1										
1										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Sample depth** _____ ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Water Meter Used:
U-22-TN-01 ☐
U-22-TN-02 ☐
U-10 ☐
Other: Troll

Additional Comments:

OTIE Oneida Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: CM-9D **Date:** 12-17-12 **Project No:** 2009025.025/0650

A. Depth to water 32.71 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** 1SA12

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer _____ sec **Discharge Timer** _____ sec **Pressure:** _____ psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct (~~mS/cm~~, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			7.81	2.444	81.2	.87	22.6			+41
/			7.81	2.431	/	.84	↓			+39
/			7.83	2.430	/	.84	↓			+37
1.5 gals		1340	7.81	2.430	34.1	.81	↓			+31
/										
/										
/										
/										
/										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other: _____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other: _____ **Sample depth** _____ ft

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☐
U-10	
Other: Trolli	

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Additional Comments: _____

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: CM-13 **Date:** 12-14-12 **Project No:** 2009025.025/0650

A. Depth to water 27.52 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** 1SA12

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer _____ sec **Discharge Timer** _____ sec **Pressure:** _____ psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			8.10	4.612	39.2	.21	22.4			-241
/			8.12	4.637	/	.20	↓			-246
/			8.12	4.649	/	.20				-248
2 gals		1235	8.13	4.656	14.6	.19				-252
/										
/										
/										
/										
/										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Monsoon ☐ Other: _____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Monsoon ☐ Other: _____ **Sample depth** _____ ft

Water Meter Used:
U-22-TN-01 ☐
U-22-TN-02 ☐
U-10 ☐
Other: _____

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Additional Comments: _____

OTIE
Oneida Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: CM-14 **Date:** 12-11-12 **Project No:** 2009025.025/0650

A. Depth to water 17.52 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** 1SA12

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer_____sec **Discharge Timer**_____sec **Pressure:** _____psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			7.63	3.612	71.6	.91	20.9			+67
/			7.61	3.604	1	.94				+63
/			7.61	3.603	1	.92				+62
2 gals		1230	7.61	3.605	42.3	.91				+59
/										
/										
/										
/										
/										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Monsoon ☐ Other:_____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Monsoon ☐ Other:_____ **Sample depth** _____ ft

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☐
U-10	☐
Other: Trolley	

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Additional Comments: _____

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: CM-16 **Date:** 12-11-12 **Project No:** 2009025.025/0610

A. Depth to water 41.94 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** EISB (Ph VI) M12

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer_____sec **Discharge Timer**_____sec **Pressure:** _____psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct ~~(mS/cm,~~ S/m or ~~µS/cm)~~	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			6.45	3.023	29.8	.15	22.17			-6
/			6.45	3.040	/	.04	/			-3
/			6.44	3.041	/	.03	/			-3
25 gals		1340	6.44	3.040	8.7	.03	/			-3
/										
/										
/										
/										
/										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Sample depth** _____ ft

Water Meter Used:
U-22-TN-01 ☐
U-22-TN-02 ☐
U-10 ☐
Other: Trolll

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Additional Comments: metals Field Filtered

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Oneida Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: CM-18 **Date:** 12-8-12 **Project No:** 2009025.025/0650

A. Depth to water 48.81 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** 1SA12

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer_____sec **Discharge Timer**_____sec **Pressure:** _____psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (~~mS/cm~~, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			8.01	2.461	56.2	1.07	21.1			+141
1			8.00	2.440	1	1.04				+144
1			7.97	2.338	1	1.03				+146
2 gals		1330	7.96	2.336	21.0	1.03				+148
1							↓			
1										
1										
1										
1										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Sample depth** _____ ft

Water Meter Used:
U-22-TN-01 ☐
U-22-TN-02 ☐
U-10 ☐
Other: Trol

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Additional Comments:

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: CM-19 **Date:** 12-11-12 **Project No:** 2009025.025/0650

A. Depth to water 62.79 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** 1SA12

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer_____sec **Discharge Timer**_____sec **Pressure:** _____psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			8.36	3.616	106.3	[illegible]	22.6			-76
/			8.31	3.610	/	.47	↓			-74
/			8.29	3.604	/	.41	↓			-72
2 / gals		1145	8.29	3.600	41.6	.37	↓			-72
/										
/										
/										
/										
/										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Sample depth** _____ ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Water Meter Used:
U-22-TN-01 ☐
U-22-TN-02 ☐
U-10 ☐
Other: Troll

Additional Comments:

OTIE Oneida Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: MW-15 **Date:** 12-14-12 **Project No:** 2009025.025/0650

A. Depth to water 26.36 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** 1SA12

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer _____ sec **Discharge Timer** _____ sec **Pressure:** _____ psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			7.10	3.661	46.1	.09	21.4			-286
1			7.09	3.691	↓	.06	↓			-291
1			7.08	3.697	↓	.06	↓			-292
1.5 gals		1120	7.07	3.697	29.2	.04	↓			-292
1										
1										
1										
1										
1										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Monsoon ☐ Other:_____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Monsoon ☐ Other:_____ **Sample depth** _____ ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Water Meter Used:
U-22-TN-01 ☐
U-22-TN-02 ☐
U-10 ☐
Other: Tool

Additional Comments:

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: MW-16 **Date:** 2-20-12 **Project No:** 2009025.025/0650

A. Depth to water 41.94 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** 1SA12

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer_____sec **Discharge Timer**_____sec **Pressure:** _____psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			7.63	2.011	36.8	.56	22.4			-367
/			7.61	2.013	/	.37	↓			-369
/			7.61	2.013	/	.33				-372
1.5 gals		1015	7.61	2.019	12.3	.29	↓			-373
/										
/										
/										
/										
/										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Sample depth** _____ ft

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☐
U-10	☐
Other: TMCI	

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Additional Comments: _____

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: MW-17 **Date:** 12-11-12 **Project No:** 2009025.025/0650

A. Depth to water 34.85 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** 1SA12

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer _____ sec **Discharge Timer** _____ sec **Pressure:** _____ psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			8.04	3.612	67.7	46.9	22.0			-46
/			8.06	3.594	/	44.3				-41
/			8.06	3.591		41.2				-41
2 gal		1040	8.06	3.588	41.2	40.6				-39
/										
/										
/										
/										
/										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other: _____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other: _____ **Sample depth** _____ ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Water Meter Used:

U-22-TN-01	☐
U-22-TN-02	☐
U-10	☐
Other: Tall	

Additional Comments: _____

OTIE
Oneida Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☐	☐

Well Number: MW-19S **Date:** 12-8-12 **Project No:** 2009025.025/0650

A. Depth to water 16.23 feet (7 **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** 1SA12

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer_____sec **Discharge Timer**_____sec **Pressure:** _____psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			8.06	2.661	67.1	.66	19.6			-110
/			8.04	2.443	1	.63	↓			-99
/			8.04	2.440		.62				-96
3 / gals		1045	8.04	2.441	23.6	.60				-94
/							↓			
/										
/										
/										
/										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Sample depth** _____ ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Water Meter Used:

U-22-TN-01	☐
U-22-TN-02	☐
U-10	☐
Other: Trolt	

Additional Comments: _____

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Oneida Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: MW-19D **Date:** 12-~~13~~12 **Project No:** 2009025.025/0650

A. Depth to water 10.14 feet 17 **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** 1SA12

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer _____ sec **Discharge Timer** _____ sec **Pressure:** _____ psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct (~~mS/cm,~~ S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			8.39	1.163	39.4	.36	20.9			-74
/			8.36	1.179	1	.34	↓			-72
/			8.36	1.179		.33				-73
2 gals		1130	8.33	1.186	12.8	.33				-73
/										
/										
/										
/										
/										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other: _____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other: _____ **Sample depth** _____ ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Water Meter Used:
U-22-TN-01 ☐
U-22-TN-02 ☐
U-10 ☐
Other: Trotl

Additional Comments:

OTIE Oneida Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: MW205 **Date:** 12-5-12 **Project No:** 2009025.025/0650

A. Depth to water 16.37 feet 17 **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** 1SA12

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer_____sec **Discharge Timer**_____sec **Pressure:** _____psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (~~mS/cm~~, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			7.51	2.261	49.4	.55	22.4			-67
/			7.49	2.274	1	.53				-64
/			7.49	2.276		.50				-64
2 gals		0930	7.46	2.279	36.2	.47				-61
/							↓			
/										
/										
/										
/										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Sample depth** _____ ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Water Meter Used:
U-22-TN-01 ☐
U-22-TN-02 ☐
U-10 ☐
Other: Trolley

Additional Comments:

OTIE Oneida Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☐	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: MW-23 **Date:** 12-14-12 **Project No:** 2009025.025/0650

A. Depth to water 29.20 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** 1SA12

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer_____sec **Discharge Timer**_____sec **Pressure:** _____psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			7.01	4.662	51.6	.26	21.9			-106
1			7.00	4.660	1	.25				-114
1			7.00	4.604	1	.21				-118
2 gals		1035	7.00	4.602	9.2	.16				-121
1										
1										
1										
1										
1										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Sample depth** _____ ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Water Meter Used:

U-22-TN-01	☐
U-22-TN-02	☐
U-10	☐
Other:	TNOU

Additional Comments:

OTIE Oneida Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: MW-24 **Date:** 12-18-12 **Project No:** 2009025.025/0650

A. Depth to water 39.98 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** 1SA12

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer_____sec **Discharge Timer**_____sec **Pressure:** _____psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			7.81	3.812	46.2	1.01	22.5			+86
1			7.84	3.764		.96				+83
1			7.83	3.759		.93				+79
2 1 gals		1500	7.83	3.704	18.6	.87				+74
1										
1										
1										
1										
1										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Sample depth** _____ ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Water Meter Used:

U-22-TN-01	☐
U-22-TN-02	☐
U-10	☐
Other: Troll	

Additional Comments:

OTIE
Oneida Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: MW-25 **Date:** 12-19-12 **Project No:** 2009025.025/0650

A. Depth to water 52.40 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** 1SA12

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer_____sec **Discharge Timer**_____sec **Pressure:** _____psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. ~~(mS/cm,~~ S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			8.00	2.016	21.6	.58	21.6			+96
1			7.97	2.014	1	.54	↓			+91
1			7.93	2.011	1	.54	↓			+87
2.5 gals		0900	7.93	2.003	12.4	.51	↓			+84
1							↓			
1										
1										
1										
1										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Sample depth** _____ ft

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☐
U-10	✓
Other:	1 of 1

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Additional Comments: _____

OTIE Oneida Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: MW-26 **Date:** 12-19-12 **Project No:** 2009025.025/0650

A. Depth to water 48.00 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** 1SA12

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer_____sec **Discharge Timer**_____sec **Pressure:** _____psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (~~mS/cm~~, S/m or ~~µS/cm~~)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			8.04	1.463	76.3	.46	21.4			-167
1			8.01	1.444	1	.40	1			-169
1			7.98	1.440	1	.37				-173
2.5 gals		1000	7.94	1.337	51.4	.33				-175
1										
1										
1										
1										
1										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Sample depth** _____ ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Water Meter Used:
U-22-TN-01 ☐
U-22-TN-02 ☐
U-10 ☐
Other: Trolley

Additional Comments:

OTIE
Oneida Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: MW-27 **Date:** 12-19-12 **Project No:** 2009025.025/0650

A. Depth to water 40.63 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** 1SA12

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer_____sec **Discharge Timer**_____sec **Pressure:** _____psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			8.11	2.116	56.9	.46	22.6			+17
1			8.12	2.104	1	.43	1			+14
1			8.16	2.101	1	.42	1			+14
1.5 gals		1115	8.13	2.103	41.3	.42	↓			+12
1										
1										
1										
1										
1										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Sample depth** _____ ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Water Meter Used:
U-22-TN-01 ☐
U-22-TN-02 ☐
U-10 ☐
Other: Tool

Additional Comments:

OTIE
Oneida Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: MW-36 **Date:** 12-19-12 **Project No:** 2009025.025/0650

A. Depth to water 30.69 **feet** **Location:** Raytheon Canoga

B. Total depth of well _____ **feet** **Event:** 1SA12

C. Standing water in casing _____ **feet** **Sampler:** Bob Johnson

D. PID _____ **ppm**

Screened Interval _____ **to** _____ **ft bgs**

Inlet Timer_____**sec** **Discharge Timer**_____**sec** **Pressure:** _____**psi**

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			7.63	3.876	46.3	.09	21.8			-76
1			7.60	3.810	1	.06	↓			-79
1			7.60	3.807	1	.04				-83
2.5 gals		1345	7.57	3.801	22.1	.02				-84
1										
1										
1										
1										
1										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Sample depth** _____ ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☐
U-10	☐
Other: Trol	

Additional Comments:

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: MW-37 **Date:** 12-18-12 **Project No:** 2009025.025/0650

A. Depth to water 52.38 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** 1SA12

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer _____ sec **Discharge Timer** _____ sec **Pressure:** _____ psi

1215 WS. Dupe Dup-A12b-121812

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (~~mS/cm~~, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			7.50	3.014	31.7	.41	22.6			-86
1			7.47	3.021	1	.40	1			-82
1			7.46	3.026	1	.36	1			-80
2.5 gals		1150	7.46	3.024	18.6	.31	↓			-76
1										
1										
1										
1										
1										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other: _____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other: _____ **Sample depth** _____ ft

Water Meter Used:
U-22-TN-01 ☐
U-22-TN-02 ☐
U-10 ☐
Other: Tball

QA/QC Sample Collected Here? ☒ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: 12-18-12 1215 **Sample ID:** Dup-A12b-121812

Additional Comments:

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: MW-38 **Date:** 12-11-12 **Project No:** 2009025.025/0610

A. Depth to water 33.35 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** EISB (Ph VI) M12

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer_____sec **Discharge Timer**_____sec **Pressure:** _____psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			6.68	2.825	37.9	.72	23.60			+21
1			6.74	2.830	1	.66				+17
1			6.73	2.822	1	.64				+17
3 1gal 1L		1435	6.73	2.819	16.0	.63				+18
1										
1										
1										
1										
1										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Sample depth** _____ ft

Water Meter Used:
U-22-TN-01 ☐
U-22-TN-02 ☐
U-10 ☐
Other: Tro II

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Additional Comments: _____

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: RW-1 **Date:** 12-10-12 **Project No:** 2009025.025/0610

A. Depth to water 20.61 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** EISB (Ph IV)

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm DUPRW 121012 0830

Screened Interval _____ to _____ ft bgs

Inlet Timer_____sec Discharge Timer_____sec Pressure: _____psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			5.90	3.060	61.7	.47	22.54			+170
1			5.88	3.077	1	.33	↓			+179
1			5.85	3.128	1	.31				+177
3.5 gals		0800	5.86	3.127	21.2	.25				+176
							↓			
1										
1										
1										
1										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Sample depth** _____ ft

Water Meter Used:
U-22-TN-01 ☐
U-22-TN-02 ☐
U-10 _____ ☐
Other: Roll

QA/QC Sample Collected Here? ☒ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID:

Date/Time of QC Sample: 12-10-12 0830 **Sample ID:** DUPRW 121012

Additional Comments: metals Field Filtered

OTIE Oneida Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: RW-2 **Date:** 12-10-12 **Project No:** 2009025.025/0610

A. Depth to water 9 feet **Location:** Raytheon Canoga

B. Total depth of well 9 feet **Event:** EISB (Ph IV)

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer _____ sec **Discharge Timer** _____ sec **Pressure:** _____ psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			7.69	2.691	114	.79	22.91			-114
1			7.73	2.893	1	.62	↓			-117
2 1/4 gals		0915	7.72	2.897	109	.61	↓			-118
1							↓			
1										
1										
1										
1										
1										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☑ Peristaltic ☐ Monsoon ☐ Other: _____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☑ Peristaltic ☐ Monsoon ☐ Other: _____ **Sample depth** _____ ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☐
U-10	☐
Other:	☑ Troll

Additional Comments: Metals Field Filtered

OTIE Oneida Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad
Well Identification	☐	☐
Vault Cover	☐	☐
Vault Seal	☐	☐
Bolts	☐	☐
Vault Lock	☐	☐
Concrete Completion	☐	☐
Well Lock/Seal	☐	☐

Well Number: RW-4 **Date:** 12-6-12 **Project No:** 2009025.025/0650

A. Depth to water Ø feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** 1SA12

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer_____sec **Discharge Timer**_____sec **Pressure:** _____psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			6.76	2.868	46.1	.94	20.98			-187
/			6.73	2.797	1	.46				-204
/			6.70	2.701		.39				-209
8 gals		0830	6.71	2.706	31.4	.37				-211
/							↓			
/										
/										
/										
/										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Monsoon ☒ Other: R.W. Pump **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Monsoon ☒ Other: R.W. Pump **Sample depth** _____ ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☐
U-10	☐
Other:	Toll

Additional Comments: dedicated recovery well pump used to purge & sample

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: RW-10 **Date:** 12-7-12 **Project No:** 2009025.025/0610

A. Depth to water 22.82 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** EISB (Ph IV)

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer _____ sec **Discharge Timer** _____ sec **Pressure:** _____ psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			6.72	2.493	61.2	.94	23.50			-114
1			6.73	2.572	1	.83				-120
1			6.73	2.615		.76				-121
1			6.73	2.743	14.6	.62	↓			-123
21 gals		1035								
1										
1										
1										
1										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Monsoon ☐ Other: _____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Monsoon ☐ Other: _____ **Sample depth** _____ ft

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☐
U-10	☐
Other:	TNO

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Additional Comments: metals Field Filtered

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: RW-11 **Date:** 12-10-12 **Project No:** 2009025.025/0610

A. Depth to water 25.62 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** EISB T3 (Ph VII) M03

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer ____ sec **Discharge Timer** ____ sec **Pressure:** _____ psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			6.95	4.993	41.4	.07	22.46			-84
1			6.96	4.959	1	.05				-77
1			6.96	4.961	1	.03				-74
3 1/4 gals		1150	6.98	4.967	13.9	.02	✓			-74
1										
1										
1										
1										
1										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other: _____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other: _____ **Sample depth** _____ ft

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☐
U-10	☐
Other: TRO11	

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Additional Comments: metals Field Filtered

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: RW-13 **Date:** 12-6-12 **Project No:** 2009025.025/0650

A. Depth to water 28.22 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** 1SA12

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer_____sec **Discharge Timer**_____sec **Pressure:** _____psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			6.77	.1545	106	1.32	22.99			-73
/			6.70	.1892	/	.88				-97
4 gals		1210	6.69	.1899	76.2	.84				-99
/										
/										
/										
/										
/										
/										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Sample depth** _____ ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Water Meter Used:
U-22-TN-01 ☐
U-22-TN-02 ☐
U-10 ☐
Other: _____

Additional Comments: No recovery pump in this well. Sample with monsoon.

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: RW-14 **Date:** 12-10-12 **Project No:** 2009025.025/0610

A. Depth to water 27.22 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** EISB T3 (Ph VII) M03

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm 1315hrs Dup

Screened Interval _____ to _____ ft bgs

Inlet Timer _____ sec **Discharge Timer** _____ sec **Pressure:** _____ psi Dup-T3-121012

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			6.72	4.625	106.9	.11	22.94			-94
1			6.71	4.711	1	.07				-96
1			6.71	4.714	1	.04				-96
3 1gals		1300	6.70	4.716	16.2	.02				-98
1							↓			
1										
1										
1										
1										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other: _____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other: _____ **Sample depth** _____ ft

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☐
U-10	☐
Other:	Trol

QA/QC Sample Collected Here? ☒ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: 12-10-12 1315hrs **Sample ID:** Dup-T3-121012

Additional Comments: metals Field Filtered.

No recovery pump in well. Sample with monsoon.

OTIE Oneida Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad
Well Identification	☐	☐
Vault Cover	☐	☐
Vault Seal	☐	☐
Bolts	☐	☐
Vault Lock	☐	☐
Concrete Completion	☐	☐
Well Lock/Seal	☐	☐

Well Number: RW-15 **Date:** 12-10-12 **Project No:** 2009025.025/0610

A. Depth to water Ø feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** EISB T3 (Ph VII) M03

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer _____ sec **Discharge Timer** _____ sec **Pressure:** _____ psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			7.36	2.443	79.8	.36	23.11			-101
/			7.35	2.039	/	.34				-114
/			7.31	2.036	/	.32				-115
5 / gals		1465	7.30	2.031	21.6	.31				-115
/										
/										
/										
/										
/										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Monsoon ☒ Other: R.W pump **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Monsoon ☒ Other: R.W. Pump **Sample depth** _____ ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☐
U-10	☐
Other:	Tool

Additional Comments: dedicated R.W. pump, metals field filtered.

OTIE Oneida Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad
Well Identification	☐	☐
Vault Cover	☐	☐
Vault Seal	☐	☐
Bolts	☐	☐
Vault Lock	☐	☐
Concrete Completion	☐	☐
Well Lock/Seal	☐	☐

Well Number: RW-16 **Date:** 12-6-12 **Project No:** 2009025.025/0650

A. Depth to water Ø feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** 1SA12

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer _____ sec **Discharge Timer** _____ sec **Pressure:** _____ psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			6.57	3.267	132	1.20	23.51			-78
/			6.41	3.116	/	.76				-112
10 gals			6.40	3.092	67.1	.51				-116
/										
/										
/										
/										
/										
/										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Monsoon ☒ Other: R.W pump **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Monsoon ☒ Other: R.W. pump **Sample depth** _____ ft

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☐
U-10	☐
Other: Tech	

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Additional Comments: sample thru dedicated recovery well pump

OTIE
Oneida Total Integrated Enterprises

APPENDIX B

SUMMARY OF WATER LEVEL DATA, JANUARY 1996-PRESENT

APPENDIX B
SUMMARY OF WATER LEVEL DATA AND WELL CONSTRUCTION INFORMATION
JANUARY 1996 - PRESENT
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D., Top of Casing (ft), Total Depth (ft)	Well Diameter (inches)	Screened Interval (feet below top of casing)	Sampling Frequency EPA 8260	Gauging Date	Depth to Water (ft, TOC)	Groundwater Elevation (ft, MSL)
M-1				01/23/96	41.78	836.55
TOC = 882.42				02/12/96	42.17	836.16
TD = 70	4	50-70	A	03/12/96	39.59	838.74
				04/16/96	41.05	837.28
				05/13/96	42.25	836.08
				06/18/96	39.00	839.33
				08/12/96	48.22	830.11
				10/25/96	41.45	836.88
				11/11/96	38.13	840.20
				05/13/97	37.86	840.47
				08/11/97	38.55	839.78
				02/12/98	28.65	849.68
				05/11/98	24.35	853.98
				08/11/98	28.46	849.87
				11/10/98	37.72	840.61
				06/25/99	35.12	847.30
				12/27/99	36.48	845.94
				05/08/00	31.81	850.61
				09/24/00	34.60	847.82
				12/04/00	35.70	846.72
				03/12/01	28.87	853.55
				06/12/01	30.72	851.70
				09/27/01	32.74	849.68
				03/15/02	34.56	847.86
				05/21/02	34.52	847.90
				09/24/02	34.13	848.29
				11/10/02	33.51	848.91
				03/28/03	32.16	850.26
				06/15/03	32.91	849.51
				09/26/03	36.18	846.24
				11/09/03	36.40	846.02
				03/22/04	35.61	846.81
				06/12/04	34.89	847.53
				08/17/04	38.04	844.38
				10/16/04	38.05	844.37
				04/15/05	23.70	858.72
				06/27/05	27.56	854.86
				08/16/05	38.06	844.36
				11/13/05	31.96	850.46
				03/14/06	31.35	851.07
				04/23/06	32.61	849.81
				07/12/06	31.04	851.38
Substrate in well				11/4/06 through 12/12/12		
CM-2D				01/23/96	40.45	835.11
TOC = 876.50				02/12/96	39.73	835.83
TD = 60	4	20-60	A	03/12/96	37.32	838.24
				04/16/96	35.60	839.96
				05/13/96	35.50	840.06
				06/18/96	36.73	838.83
				08/12/96	45.96	829.60
				10/25/96	42.20	833.36
				11/11/96	36.13	839.43
				02/10/97	27.83	847.73
				05/13/97	28.61	846.95
				08/11/97	29.13	846.43
				05/11/98	22.63	852.93
				08/11/98	26.77	848.79
				06/25/99	30.06	846.44
				12/27/99	33.15	843.35
				05/08/00	24.59	851.91
				09/24/00	29.96	846.54
				12/04/00	31.08	845.42
				03/12/01	23.94	852.56
				06/12/01	26.79	849.71

APPENDIX B
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JANUARY 1996 - PRESENT
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D., Top of Casing (ft), Total Depth (ft)	Well Diameter (inches)	Screened Interval (feet below top of casing)	Sampling Frequency EPA 8260	Gauging Date	Depth to Water (ft, TOC)	Groundwater Elevation (ft, MSL)
CM-2D (cont'd)				09/27/01	29.56	846.94
				11/06/01	29.60	846.90
				03/15/02	29.98	846.52
				05/21/02	30.53	845.97
				09/24/02	30.57	845.93
				11/10/02	30.45	846.05
				03/28/03	27.37	849.13
				06/15/03	28.10	848.40
				09/26/03	32.24	844.26
				11/09/03	32.38	844.12
				03/22/04	31.31	845.19
				06/12/04	30.22	846.28
				08/17/04	34.59	841.91
				10/16/04	34.56	841.94
				04/15/05	19.51	856.99
				06/27/05	21.56	854.94
				08/16/05	34.70	841.80
				10/02/05	26.31	850.19
				11/13/05	26.76	849.74
				03/14/06	26.26	850.24
				07/12/06	26.72	849.78
				11/04/06	27.00	849.50
				02/18/07	27.65	848.85
				05/12/07	28.24	848.26
				11/03/07	28.72	847.78
				06/29/08	27.17	849.33
				11/14/08	29.06	847.44
				05/26/09	28.91	847.59
				11/30/09	29.47	847.03
				06/07/10	26.58	849.92
				12/16/10	28.31	848.19
				06/07/11	25.40	851.10
				12/01/11	27.90	848.60
				05/29/12	28.52	847.98
				12/12/12	29.14	847.36
CM-4D				01/23/96	45.28	837.65
TOC = 887.46				02/12/96	45.43	837.50
TD = 60	4	20-60	A	03/12/96	43.53	839.40
				04/16/96	43.73	839.20
				05/13/96	42.74	840.19
				06/18/96	42.92	840.01
				07/15/96	38.67	844.26
				08/12/96	45.47	837.46
				09/16/96	43.80	839.13
				10/25/96	43.57	839.36
				11/11/96	40.87	842.06
				02/10/97	30.61	852.32
				05/13/97	30.92	852.01
				08/11/97	31.44	851.49
				05/11/98	29.21	853.72
				08/11/98	31.87	851.06
				11/10/98	41.31	841.62
				06/25/99	39.50	847.96
				05/08/00	35.70	851.76
				09/24/00	39.46	848.00
				12/04/00	38.85	848.61
				03/12/01	32.45	855.01
				06/12/01	34.69	852.77
				09/27/01	36.21	851.43
				11/06/01	36.32	851.14
				03/15/02	37.92	849.54
				05/21/02	38.49	848.97
				09/24/02	35.83	851.63
				11/10/02	37.88	849.58
				03/28/03	36.20	851.26

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JANUARY 1996 - PRESENT
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D., Top of Casing (ft), Total Depth (ft)	Well Diameter (inches)	Screened Interval (feet below top of casing)	Sampling Frequency EPA 8260	Gauging Date	Depth to Water (ft, TOC)	Groundwater Elevation (ft, MSL)
CM-4D (cont'd)				06/15/03	36.97	850.49
				09/26/03	41.30	846.16
				11/09/03	41.35	846.11
				03/22/04	40.31	847.15
				06/12/04	40.04	847.42
				08/17/04	42.70	844.76
				10/16/04	42.67	844.79
				04/15/05	27.72	859.74
				06/27/05	31.62	855.84
				08/16/05	42.62	844.84
				11/13/05	35.98	851.48
				03/14/06	34.96	852.50
				07/12/06	34.22	853.24
				11/04/06	37.62	849.84
				02/18/07	36.96	850.50
				05/12/07	37.72	849.74
				11/03/07	39.01	848.45
				06/29/08	35.84	851.62
				11/14/08	38.12	849.34
				05/26/09	37.93	849.53
				11/30/09	38.64	848.82
				06/07/10	34.75	852.71
				12/16/10	36.68	850.78
				06/07/11	32.26	855.20
				12/01/11	35.31	852.15
				05/29/12	36.35	851.11
				12/12/12	37.03	850.43
CM-5 TOC = 884.94 TD = 36.5 (Abandoned 7/99)	2	26.5-36.5	A	DRY Jan1996 - Aug1997		
				05/11/98	26.18	858.76
				08/11/98	32.90	852.04
				11/10/98	DRY	--
CM-6 TOC = 876.22 TD = 23	2	13-23	A	11/03/97	--	--
				11/10/98	DRY	--
				06/25/99	--	--
				12/27/99	--	--
CM-6D TOC = 876.55 TD = 70	4	30-70	A	01/23/96	42.72	834.83
				02/12/96	42.80	834.75
				03/12/96	39.88	837.67
				04/16/96	37.69	839.86
				05/13/96	37.33	840.22
				06/18/96	38.10	839.45
				07/15/96	37.24	840.31
				08/12/96	42.67	834.88
				09/16/96	40.72	836.83
				10/25/96	38.22	839.33
				11/11/96	38.27	839.28
				02/10/97	34.82	842.73
				05/13/97	37.83	839.72
CM-6D Lost/Destroyed in 1999				08/11/97	38.40	839.15
				12/15/97	36.86	840.69
				02/12/98	36.32	841.23
				05/11/98	34.05	843.50
				08/11/98	35.34	842.21
				11/10/98	37.91	839.64
CM-7 TOC = 859.88 TD = 39	2	19-39	A	01/23/96	20.53	839.35
				02/12/96	20.52	839.36
				03/12/96	19.88	840.00
				04/16/96	20.26	839.62
				05/13/96	20.39	839.49
				06/18/96	20.41	839.47
				07/15/96	20.43	839.45
				08/12/96	20.60	839.28
				09/16/96	20.90	838.98

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JANUARY 1996 - PRESENT
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D., Top of Casing (ft), Total Depth (ft)	Well Diameter (inches)	Screened Interval (feet below top of casing)	Sampling Frequency EPA 8260	Gauging Date	Depth to Water (ft, TOC)	Groundwater Elevation (ft, MSL)
CM-7 (cont'd)				10/25/96	20.87	839.01
				11/11/96	21.57	838.31
				02/10/97	19.50	840.38
				05/13/97	20.12	839.76
				08/11/97	20.61	839.27
				12/15/97	19.42	840.46
				02/12/98	Obstructed	--
				05/11/98	Obstructed	--
Obstructed at 18.40 by roots				OBSTRUCTED Aug1998 - Dec2000		
				03/12/01	17.15	842.73
				06/12/01	18.40	841.48
				09/27/01	Dry	--
				11/06/01	Dry	--
				09/24/02	Dry	--
				11/10/02	Dry	--
				03/28/03	18.10	841.78
				06/15/03	19.35	840.53
				09/26/03	Dry	--
				11/09/03	Dry	--
				06/12/04	16.04	843.84
				10/16/04	Roots	--
Obstruction cleared				06/27/05	12.02	847.86
				08/16/05	17.52	842.36
				11/13/05	17.55	842.33
				03/14/06	17.20	842.68
				07/12/06	17.80	842.08
				11/30/09	19.36	840.52
				12/16/10	18.83	841.05
				12/01/11	18.68	841.20
				05/29/12	18.51	841.37
				12/12/12	19.38	840.50
CM-7D				01/23/96	18.53	841.26
TOC = 859.79				02/12/96	16.52	843.27
TD = 75	3	70-75	SA	03/12/96	16.69	843.10
				04/16/96	17.43	842.36
				05/13/96	17.50	842.29
				06/18/96	17.44	842.35
				07/15/96	17.35	842.44
				08/12/96	17.90	841.89
				09/16/96	17.89	841.90
				10/25/96	17.08	842.71
				11/11/96	15.36	844.43
				02/10/97	16.03	843.76
				05/13/97	17.00	842.79
				08/11/97	17.42	842.37
				12/15/97	16.53	843.26
				02/12/98	15.72	844.07
				05/11/98	13.79	846.00
				08/11/98	15.04	844.75
				11/10/98	16.21	843.58
				04/16/99	14.58	845.21
				06/25/99	14.36	845.43
				12/27/99	15.95	843.84
				09/24/00	15.28	844.51
				12/04/00	15.77	844.02
				03/12/01	14.50	845.29
				06/12/01	14.56	845.23
				09/27/01	15.10	844.69
				11/06/01	15.12	844.67
				03/15/02	16.06	843.73
				05/21/02	17.34	842.45
				09/24/02	16.48	843.31
				11/10/02	16.57	843.22

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JANUARY 1996 - PRESENT
Former Raytheon Facility
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Well I.D., Top of Casing (ft), Total Depth (ft)	Well Diameter (inches)	Screened Interval (feet below top of casing)	Sampling Frequency EPA 8260	Gauging Date	Depth to Water (ft, TOC)	Groundwater Elevation (ft, MSL)
CM-7D (cont'd)				03/28/03	15.51	844.28
				06/15/03	15.45	844.34
				09/26/03	17.64	842.15
				11/09/03	17.90	841.89
				03/22/04	16.42	843.37
				06/12/04	17.01	842.78
				08/17/04	17.78	842.01
				10/16/04	17.78	842.01
				04/15/05	12.38	847.41
				06/27/05	13.64	846.15
				08/16/05	17.79	842.00
				11/13/05	13.67	846.12
				03/14/06	13.12	846.67
				07/12/06	13.44	846.35
				11/04/06	14.85	844.94
				05/12/07	14.96	844.83
				11/03/07	15.59	844.20
				06/29/08	15.13	844.66
				11/14/08	15.51	844.28
				05/26/09	15.58	844.21
				11/30/09	16.20	843.59
				06/07/10	14.92	844.87
				12/16/10	15.74	844.05
				06/07/11	14.96	844.83
				12/01/11	15.75	844.04
				05/29/12	15.90	843.89
				12/12/12	16.48	843.31
CM-8D				01/23/96	48.70	836.82
TOC = 885.52				02/12/96	46.37	839.15
TD = 70	4	30-70	SA	03/12/96	45.47	840.05
				04/16/96	45.63	839.89
				05/13/96	46.02	839.50
				06/18/96	46.45	839.07
				07/15/96	46.45	839.07
				08/12/96	45.90	839.62
				09/16/96	46.58	838.94
				10/25/96	47.05	838.47
				11/11/96	47.17	838.35
				02/10/97	42.70	842.82
				05/13/97	43.60	841.92
				08/11/97	43.99	841.53
				12/15/97	44.46	841.06
				02/12/98	41.53	843.99
				05/11/98	42.46	843.06
				08/11/98	43.28	842.24
				11/10/98	43.22	842.30
				06/25/99	43.18	842.34
				12/27/99	45.77	839.75
				05/08/00	45.25	840.27
				09/24/00	45.71	839.81
				12/04/00	47.90	837.62
				03/12/01	42.35	843.17
				06/12/01	44.06	841.46
				09/27/01	45.14	840.38
				11/06/01	45.54	839.98
				03/12/02	45.78	839.74
				05/21/02	45.61	839.91
				09/24/02	44.56	840.96
				11/10/02	44.74	840.78
				03/28/03	43.21	842.31
				06/15/03	43.79	841.73
				09/26/03	46.81	838.71
				11/09/03	46.88	838.64
				03/22/04	45.99	839.53
				06/12/04	47.01	838.51

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Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D., Top of Casing (ft), Total Depth (ft)	Well Diameter (inches)	Screened Interval (feet below top of casing)	Sampling Frequency EPA 8260	Gauging Date	Depth to Water (ft, TOC)	Groundwater Elevation (ft, MSL)
CM-8D (cont'd)				08/17/04	46.61	838.91
				10/16/04	46.50	839.02
				04/15/05	42.39	843.13
				06/27/05	43.42	842.10
				08/16/05	46.72	838.80
				11/13/05	44.93	840.59
				03/14/06	44.01	841.51
				07/12/06	39.91	845.61
				11/04/06	45.86	839.66
				12/28/06	45.82	839.70
				02/18/07	45.80	839.72
				05/12/07	45.59	839.93
				11/03/07	46.32	839.20
				06/29/08	45.22	840.30
				11/14/08	46.38	839.14
				05/26/09	49.88	840.31
				11/30/09	50.77	839.42
				06/07/10	49.80	840.39
				12/16/10	50.44	839.75
				06/07/11	49.40	840.79
				12/01/11	50.75	839.44
				05/29/12	50.89	839.30
				12/12/12	51.39	838.80
CM-9D				01/23/96	33.14	840.15
TOC = 873.29				02/12/96	32.82	840.47
TD = 60	4	20-60	A	03/12/96	31.76	841.53
				04/16/96	32.04	841.25
				05/13/96	32.51	840.78
				06/18/96	31.92	841.37
				07/15/96	32.03	841.26
				08/12/96	30.97	842.32
				09/16/96	32.20	841.09
				10/25/96	32.65	840.64
				11/11/96	32.78	840.51
				02/10/97	28.33	844.96
				05/13/97	29.27	844.02
				08/11/97	30.11	843.18
				12/15/97	28.81	844.48
				02/12/98	25.63	847.66
				05/11/98	28.45	844.84
				08/11/98	28.77	844.52
				11/10/98	28.06	845.23
				04/16/99	26.65	846.64
				06/25/99	28.04	845.25
				12/27/99	31.45	841.84
				05/08/00	31.83	841.46
				09/24/00	31.82	841.47
				12/04/00	31.97	841.32
				03/12/01	28.63	844.66
				09/27/01	31.04	842.25
				11/06/01	31.46	841.83
				03/15/02	32.41	840.88
				05/21/02	32.32	840.97
				09/24/02	31.48	841.81
				11/10/02	31.57	841.72
				03/28/03	31.15	842.14
				06/15/03	32.90	840.39
				09/26/03	32.71	840.58
				11/09/03	32.76	840.53
				03/22/04	32.91	840.38
				06/12/04	31.09	842.20
				08/17/04	33.18	840.11
				10/16/04	33.21	840.08
				04/15/05	28.38	844.91
				06/27/05	29.36	843.93

APPENDIX B
SUMMARY OF WATER LEVEL DATA AND WELL CONSTRUCTION INFORMATION
JANUARY 1996 - PRESENT
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D., Top of Casing (ft), Total Depth (ft)	Well Diameter (inches)	Screened Interval (feet below top of casing)	Sampling Frequency EPA 8260	Gauging Date	Depth to Water (ft, TOC)	Groundwater Elevation (ft, MSL)
CM-9D (cont'd)				08/16/05	33.12	840.17
				11/13/05	31.23	842.06
				03/14/06	30.67	842.62
				07/12/06	30.34	842.95
				11/04/06	31.94	841.35
				05/12/07	31.40	841.89
				11/03/07	32.21	841.08
				06/29/08	30.40	842.89
				11/14/08	32.15	841.14
				05/26/09	31.36	841.93
				11/30/09	34.50	838.79
				06/07/10	31.59	841.70
				12/16/10	31.88	841.41
				06/07/11	30.66	842.63
				12/01/11	32.64	840.65
				05/29/12	32.60	840.69
				12/12/12	32.71	840.58
CM-10				01/23/96	41.51	807.29
TOC = 850.78				02/12/96	41.62	807.18
TD = 52	2	32-52	A	03/12/96	41.52	807.28
				04/16/96	41.25	807.55
				05/13/96	41.44	807.36
				06/18/96	41.43	807.37
				07/15/96	41.65	807.15
				08/12/96	41.92	806.88
				09/16/96	42.26	806.54
				10/25/96	42.78	806.02
				11/11/96	42.93	805.87
				02/10/97	42.03	806.77
				05/13/97	41.66	807.14
				08/11/97	42.14	806.66
				12/15/97	42.65	806.15
				02/12/98	42.10	806.70
				05/11/98	38.70	810.10
				08/11/98	40.12	808.68
				04/16/99	40.83	807.97
				06/25/99	41.28	809.50
				12/27/99	42.71	808.07
				05/08/00	42.80	807.98
				09/24/00	43.71	80.07
				12/04/00	44.12	806.66
				03/12/01	43.66	807.12
				06/12/01	42.36	808.42
				09/27/01	43.12	807.66
				11/06/01	43.32	807.46
				03/15/02	44.10	806.68
				05/21/02	44.31	806.47
				09/24/02	44.86	805.92
				11/10/02	44.91	805.87
				03/28/03	43.89	806.89
				06/15/03	44.66	806.12
				09/26/03	45.06	805.72
				11/09/03	45.77	805.01
				03/22/04	43.62	807.16
				06/12/04	46.32	804.46
				08/17/04	47.07	803.71
				10/16/04	47.03	803.75
				04/15/05	41.06	809.72
				06/27/05	40.02	810.76
				08/16/05	47.10	803.68
				03/14/06	39.39	811.39
				07/12/06	39.09	811.69
				11/04/06	40.04	810.74
				11/03/07	41.65	809.13
				06/29/08	40.36	810.42

APPENDIX B
SUMMARY OF WATER LEVEL DATA AND WELL CONSTRUCTION INFORMATION
JANUARY 1996 - PRESENT
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D., Top of Casing (ft), Total Depth (ft)	Well Diameter (inches)	Screened Interval (feet below top of casing)	Sampling Frequency EPA 8260	Gauging Date	Depth to Water (ft, TOC)	Groundwater Elevation (ft, MSL)
CM-10 (cont'd)				11/14/08	41.80	808.98
				05/26/09	42.65	808.13
				12/16/10	44.59	806.19
				06/07/11	42.83	807.95
				12/01/11	44.26	806.52
				12/12/12	46.43	804.35
CM-11				01/23/96	24.83	828.23
TOC = 853.06				02/12/96	24.60	828.46
TD = 73	4	43-73	NS	03/12/96	23.25	829.81
(abandoned 7/17/98)				04/16/96	23.53	829.53
				05/13/96	24.03	829.03
				06/18/96	24.90	828.16
				07/15/96	25.37	827.69
				08/12/96	25.70	827.36
				09/16/96	26.10	826.96
				10/25/96	26.47	826.59
				11/11/96	26.42	826.64
				02/10/97	25.15	827.91
				05/13/97	24.20	828.86
				08/11/97	24.51	828.55
				12/15/97	24.51	828.55
				02/12/98	24.33	828.73
				05/11/98	18.35	834.71
CM-11A				08/11/98	32.01	831.01
TOC = 862.59				11/10/98	31.53	831.49
TD = 54.5	4	30-65	A	06/25/99	33.94	829.08
(replaces CM-11)				12/27/99	35.93	827.09
				05/08/00	35.06	827.96
				09/24/00	36.19	826.83
				12/04/00	38.20	824.82
				03/12/01	32.81	830.21
				06/12/01	34.21	828.81
				03/15/02	35.98	827.04
				05/21/02	36.08	826.94
				09/24/02	33.51	829.51
				11/10/02	35.59	827.43
				03/28/03	33.81	829.21
				06/15/03	34.22	828.80
				09/26/03	35.51	827.51
				11/09/03	35.66	827.36
				03/22/04	35.41	827.61
				06/12/04	35.13	827.89
				08/17/04	36.29	826.73
				10/16/04	36.31	826.71
				04/15/05	30.04	832.98
				06/27/05	31.73	831.29
				08/16/05	36.31	826.71
				11/13/05	33.58	829.44
				03/14/06	32.74	829.85
				07/12/06	32.47	830.12
				11/04/06	33.81	828.78
				11/03/07	34.74	827.85
				06/29/08	33.32	829.27
				11/14/08	34.86	827.73
				05/26/09	34.77	827.82
				12/16/10	35.84	826.75
				06/07/11	32.61	829.98
				12/01/11	35.58	827.01
				12/12/12	36.72	825.87
CM-12				01/23/96	36.86	839.20
TOC = 875.80				02/12/96	36.57	839.49
TD = 65.5	4	46-65.5	A	03/12/96	35.56	840.50
				04/16/96	35.73	840.33
				05/13/96	36.05	840.01
				06/18/96	35.41	840.65

APPENDIX B
SUMMARY OF WATER LEVEL DATA AND WELL CONSTRUCTION INFORMATION
JANUARY 1996 - PRESENT
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D., Top of Casing (ft), Total Depth (ft)	Well Diameter (inches)	Screened Interval (feet below top of casing)	Sampling Frequency EPA 8260	Gauging Date	Depth to Water (ft, TOC)	Groundwater Elevation (ft, MSL)
CM-12 (cont'd)				07/15/96	36.24	839.82
				08/12/96	35.70	840.36
				09/16/96	36.33	839.73
				10/25/96	36.68	839.38
				11/11/96	36.69	839.37
				02/10/97	33.39	842.67
				05/13/97	35.44	840.62
				08/11/97	35.93	840.13
				12/15/97	34.29	841.77
				02/12/98	32.27	843.79
				08/11/98	34.11	841.95
				12/27/99	35.19	838.67
				05/08/00	34.86	839.00
				09/24/00	35.13	838.73
				12/04/00	35.31	838.55
				03/12/01	33.42	840.44
				06/12/01	34.67	839.19
				03/15/02	35.41	840.65
				05/21/02	35.45	840.61
				09/24/02	34.92	841.14
				11/10/02	35.00	841.06
				03/28/03	34.83	841.23
				06/15/03	35.15	840.91
				09/26/03	36.01	840.05
				11/09/03	36.02	840.04
				03/22/04	35.89	840.17
				06/12/04	36.00	840.06
				08/17/04	36.24	839.82
				10/16/04	36.26	839.80
				04/15/05	33.18	842.88
				06/27/05	32.94	843.12
				08/16/05	36.26	839.80
				11/13/05	34.75	841.31
				03/14/06	33.29	842.51
				07/12/06	32.94	842.86
				11/04/06	35.12	840.68
				11/03/07	35.32	840.48
				06/29/08	34.59	841.21
				11/14/08	35.40	840.40
				05/26/09	35.09	840.71
				12/16/10	34.07	841.73
				06/07/11	35.39	840.41
				12/01/11	35.62	840.18
				12/12/12	36.22	839.58
CM-13				01/23/96	30.01	838.38
TOC = 868.39				02/12/96	30.12	838.27
TD = 74	4	39-74	A	03/12/96	28.92	839.47
				04/16/96	29.08	839.31
				05/13/96	28.81	839.58
				06/18/96	29.23	839.16
				07/15/96	29.08	839.31
				08/12/96	29.17	839.22
				09/16/96	30.15	838.24
				10/25/96	30.10	838.29
				11/11/96	29.44	838.95
				02/10/97	27.26	841.13
				05/13/97	29.02	839.37
				08/11/97	29.80	838.59
				12/15/97	28.19	840.20
				12/27/99	27.60	840.79
				05/08/00	25.37	843.02
				09/24/00	26.63	841.76
				12/04/00	27.25	841.14
				03/12/01	24.42	843.97
				06/12/01	25.36	843.03

APPENDIX B
SUMMARY OF WATER LEVEL DATA AND WELL CONSTRUCTION INFORMATION
JANUARY 1996 - PRESENT
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D., Top of Casing (ft), Total Depth (ft)	Well Diameter (inches)	Screened Interval (feet below top of casing)	Sampling Frequency EPA 8260	Gauging Date	Depth to Water (ft, TOC)	Groundwater Elevation (ft, MSL)
CM-13 (cont'd)				09/27/01	26.28	842.11
				11/06/01	26.29	842.10
				03/15/02	26.93	841.46
				05/21/02	26.81	841.58
				09/24/02	27.11	841.28
				11/10/02	27.18	841.21
				03/28/03	26.88	841.51
				06/15/03	27.14	841.25
				09/26/03	28.16	840.23
				11/09/03	28.27	840.12
				03/22/04	28.14	840.25
				06/12/04	28.04	840.35
				08/17/04	27.66	840.73
				10/16/04	27.65	840.74
				06/27/05	23.79	844.60
				08/16/05	27.69	840.70
				11/13/05	25.26	843.13
				03/14/06	25.07	843.32
				07/12/06	26.12	842.27
				11/04/06	25.95	842.44
				02/18/07	26.03	842.36
				05/12/07	25.88	842.51
				11/03/07	26.09	842.30
				06/29/08	25.62	842.77
				11/14/08	26.62	841.77
				05/26/09	26.34	842.05
				11/30/09	27.23	841.16
				06/07/10	25.71	842.68
				12/16/10	27.68	840.71
				06/07/11	25.21	843.18
				12/01/11	26.53	841.86
				05/29/12	26.50	841.89
				12/12/12	27.52	840.87
CM-14				01/23/96	17.23	841.42
TOC = 858.65				02/12/96	16.92	841.73
TD = 33	4	18-33	A	03/12/96	16.54	842.11
				04/16/96	16.67	841.98
				05/13/96	16.92	841.73
				06/18/96	17.12	841.53
				07/15/96	17.29	841.36
				08/12/96	17.48	841.17
				09/16/96	17.77	840.88
				10/25/96	17.77	840.88
				11/11/96	17.76	840.89
				02/10/97	16.39	842.26
				05/13/97	16.75	841.90
				08/11/97	16.99	841.66
				12/15/97	16.50	842.15
				02/12/98	16.12	842.53
				05/11/98	14.02	844.63
				08/11/98	15.03	843.62
				11/10/98	15.75	842.90
				04/16/99	14.22	844.43
				06/25/99	15.91	842.74
				12/27/99	16.71	841.94
				09/24/00	17.03	841.62
				12/04/00	17.41	841.24
				03/12/01	15.81	842.84
				06/12/01	15.76	842.89
				09/27/01	16.41	842.24
				11/06/01	16.63	842.02
				03/15/02	16.89	841.76
				05/21/02	16.99	841.66
				09/24/02	17.00	841.65
				11/10/02	17.01	841.64

APPENDIX B
SUMMARY OF WATER LEVEL DATA AND WELL CONSTRUCTION INFORMATION
JANUARY 1996 - PRESENT
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D., Top of Casing (ft), Total Depth (ft)	Well Diameter (inches)	Screened Interval (feet below top of casing)	Sampling Frequency EPA 8260	Gauging Date	Depth to Water (ft, TOC)	Groundwater Elevation (ft, MSL)
CM-14 (cont'd)				03/28/03	16.54	842.11
				06/15/03	19.11	839.54
				09/26/03	18.08	840.57
				11/09/03	18.81	839.84
				03/22/04	18.04	840.61
				06/12/04	17.64	841.01
				08/17/04	17.89	840.76
				10/16/04	17.88	840.77
				04/15/05	16.01	842.64
				08/16/05	17.91	840.74
				11/13/05	14.86	843.79
				03/14/06	14.11	844.54
				07/12/06	14.61	844.04
				11/04/06	15.83	842.82
				05/12/07	15.03	843.62
				11/03/07	15.11	843.54
				06/29/08	14.98	843.67
				11/14/08	15.98	842.67
				05/26/09	15.62	843.03
				11/30/09	17.53	841.12
				06/07/10	16.47	842.18
				12/16/10	17.40	841.25
				12/01/11	16.93	841.72
				05/29/12	16.54	842.11
				12/12/12	17.52	841.13
CM-15				01/23/96	29.83	815.31
TOC = 852.46				02/12/96	29.53	815.61
TD = 70	4	40-70	A	03/12/96	28.55	816.59
				04/16/96	28.83	816.31
				05/13/96	29.33	815.81
				06/18/96	30.09	815.05
				07/15/96	30.46	814.68
				08/12/96	30.28	814.86
				09/16/96	29.87	815.27
				10/25/96	31.08	814.06
				11/11/96	31.40	813.74
				02/10/97	27.45	817.69
				05/13/97	29.81	815.33
				08/11/97	30.36	814.78
				12/15/97	31.50	813.64
				02/12/98	25.23	819.91
				05/11/98	26.61	818.53
				08/11/98	27.18	817.96
				11/10/98	27.67	817.47
				04/16/99	25.46	819.68
				06/25/99	28.42	816.72
				12/27/99	30.81	814.33
				05/08/00	29.41	815.73
				09/24/00	30.96	814.18
				12/04/00	90.90	814.24
				03/12/01	24.85	820.29
				06/12/01	27.12	818.02
				09/27/01	28.13	817.01
				11/06/01	28.31	816.83
				03/15/02	29.24	823.56
				05/21/02	29.91	822.89
				09/24/02	27.51	825.29
				11/10/02	27.53	825.27
				03/28/03	25.66	827.14
				06/15/03	26.35	826.45
				09/26/03	31.29	821.51
				11/09/03	31.45	821.35
				03/22/04	30.88	821.92
				06/12/04	27.58	825.22
				08/17/04	31.66	821.14

APPENDIX B
SUMMARY OF WATER LEVEL DATA AND WELL CONSTRUCTION INFORMATION
JANUARY 1996 - PRESENT
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D., Top of Casing (ft), Total Depth (ft)	Well Diameter (inches)	Screened Interval (feet below top of casing)	Sampling Frequency EPA 8260	Gauging Date	Depth to Water (ft, TOC)	Groundwater Elevation (ft, MSL)
CM-15 (cont'd)				10/16/04	31.78	821.02
				04/15/05	28.03	824.77
				06/27/05	26.74	826.06
				08/16/05	31.71	820.75
				11/13/05	40.88	811.58 *
				03/14/06	40.88	811.58 *
				07/12/06	41.01	811.45 *
				11/04/06	29.54	822.92
				11/03/07	28.62	823.84
				06/29/08	27.80	824.66
				11/14/08	29.47	822.99
				05/26/09	29.33	823.13
				12/16/10	29.34	823.12
				06/07/11	28.00	824.46
				12/01/11	28.93	823.53
				12/12/12	27.43	825.03
CM-16				01/23/96	44.62	841.29
TOC = 892.41				02/12/96	44.65	841.26
TD = 70	4	40-70	SA	03/12/96	41.82	844.09
				04/16/96	41.66	844.25
				05/13/96	42.28	843.63
				06/18/96	41.75	844.16
				07/15/96	38.67	847.24
				08/12/96	43.00	842.91
				09/16/96	39.52	846.39
				10/25/96	42.46	843.45
				11/11/96	41.15	844.76
				02/10/97	38.86	847.05
				05/13/97	40.12	845.79
				08/11/97	40.61	845.30
				12/15/97	37.12	848.79
				02/12/98	36.10	849.81
				05/11/98	23.10	862.81
				08/11/98	24.86	861.05
				11/10/98	40.17	845.74
				06/25/99	44.06	848.55
				12/27/99	45.85	846.76
				05/08/00	40.89	851.72
				09/24/00	42.69	849.92
				12/04/00	42.65	849.96
				06/12/01	38.79	853.82
				09/27/01	41.11	851.50
				11/06/01	41.12	851.49
				03/15/02	42.76	849.85
				05/21/02	43.30	849.31
				09/24/02	39.73	852.88
				11/10/02	41.50	851.11
				03/28/03	38.66	853.95
				06/15/03	42.40	850.21
				09/26/03	44.88	847.73
				11/09/03	44.91	847.70
				03/22/04	44.16	848.45
				06/12/04	45.22	847.39
				08/17/04	46.28	846.33
				10/16/04	46.28	846.33
				04/15/05	35.21	857.40
				06/27/05	37.01	855.60
				08/16/05	46.29	846.32
				11/13/05	40.28	852.33
				03/14/06	39.87	852.54
				07/12/06	41.11	851.30
				11/04/06	42.21	850.20
				05/12/07	42.85	849.56
				11/03/07	43.77	848.64
				06/29/08	40.56	851.85

APPENDIX B
SUMMARY OF WATER LEVEL DATA AND WELL CONSTRUCTION INFORMATION
JANUARY 1996 - PRESENT
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D., Top of Casing (ft), Total Depth (ft)	Well Diameter (inches)	Screened Interval (feet below top of casing)	Sampling Frequency EPA 8260	Gauging Date	Depth to Water (ft, TOC)	Groundwater Elevation (ft, MSL)
CM-16 (cont'd)				11/14/08	42.90	849.51
				05/26/09	42.21	850.20
				11/30/09	42.99	849.42
				06/07/10	39.35	853.06
				12/16/10	36.82	855.59
				06/07/11	38.58	853.83
				12/01/11	41.11	851.30
				05/29/12	41.73	850.68
				12/12/12	41.94	850.47
CM-17				01/23/96	38.95	812.25
TOC = 846.26				02/12/96	39.00	812.20
TD = 70	4	40-70	A	03/12/96	38.83	812.37
				04/16/96	38.58	812.62
				05/13/96	38.52	812.68
				06/18/96	38.78	812.42
				07/15/96	39.01	812.19
				08/12/96	39.28	811.92
				09/16/96	39.65	811.55
				10/25/96	40.09	811.11
				11/11/96	40.29	810.91
				02/10/97	39.27	811.93
				05/13/97	38.98	812.22
				08/11/97	39.32	811.88
				12/15/97	41.05	810.15
				02/12/98	40.43	810.77
				05/11/98	36.28	814.92
Obstructed at 32.8' 1998				OBSTRUCTED Aug1998 - Dec2000		
Obstruction cleared 10/23/01				11/06/01	39.73	807.06
				03/15/02	39.91	806.88
				05/21/02	40.25	806.54
				09/24/02	41.29	805.50
				11/10/02	41.33	805.46
				03/28/03	40.81	805.98
				06/15/03	41.98	804.81
				09/26/03	41.13	805.66
				11/09/03	41.46	805.33
				03/22/04	41.02	805.77
				06/12/04	40.63	806.16
				08/17/04	42.66	804.13
				10/16/04	42.68	804.11
				04/15/05	37.03	809.76
				08/16/05	42.69	804.10
				11/13/05	36.06	810.73
				03/14/06	35.28	810.98
				07/12/06	35.86	810.40
				11/04/06	35.88	810.38
				11/14/08	36.60	809.66
				05/26/09	38.45	807.81
				12/16/10	40.73	805.53
				06/07/11	38.59	807.67
				12/01/11	40.01	806.25
				12/12/12	42.06	804.20
CM-18				01/23/96	49.54	843.17
TOC = 887.89				02/12/96	49.00	843.71
TD = 70	4	40-70	A	03/12/96	48.15	844.56
				04/16/96	48.09	844.62
				05/13/96	48.63	844.08
				06/18/96	48.85	843.86
				07/15/96	48.60	844.11
				08/12/96	48.42	844.29
				09/16/96	48.66	844.05
				10/25/96	48.11	844.60
				11/11/96	49.18	843.53

APPENDIX B
SUMMARY OF WATER LEVEL DATA AND WELL CONSTRUCTION INFORMATION
JANUARY 1996 - PRESENT
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D., Top of Casing (ft), Total Depth (ft)	Well Diameter (inches)	Screened Interval (feet below top of casing)	Sampling Frequency EPA 8260	Gauging Date	Depth to Water (ft, TOC)	Groundwater Elevation (ft, MSL)
CM-18 (cont'd)				02/10/97	46.27	846.44
				05/13/97	47.10	845.61
				08/11/97	47.56	845.15
				12/15/97	45.95	846.76
				02/12/98	42.80	849.91
				05/11/98	44.92	847.79
				08/11/98	45.65	847.06
				11/10/98	45.27	847.44
				06/25/99	45.50	847.21
				05/08/00	47.47	845.24
				09/24/00	47.75	844.96
				12/04/00	47.85	844.86
				03/12/01	44.62	848.09
				06/12/01	46.69	846.02
				09/27/01	47.24	845.47
				11/06/01	47.26	845.45
				03/15/02	48.16	840.50
				09/24/02	47.13	841.53
				11/10/02	47.16	841.50
				03/28/03	46.20	842.46
				06/15/03	46.35	842.31
				09/26/03	48.84	839.82
				11/09/03	48.92	839.74
				03/22/04	47.11	841.55
				06/12/04	47.10	841.56
				08/17/04	48.90	839.76
				10/16/04	48.91	839.75
				04/15/05	44.72	843.94
				06/27/05	45.66	843.00
				08/16/05	48.91	839.75
				11/13/05	47.32	841.34
				03/14/06	47.12	840.77
				07/12/06	47.18	840.71
				11/04/06	47.95	839.94
				05/12/07	47.08	840.81
				11/03/07	48.29	839.60
				06/29/08	47.02	840.87
				11/14/08	48.31	839.58
				05/26/09	47.62	840.27
				11/30/09	46.10	841.79
				06/07/10	47.68	840.21
				12/16/10	48.10	839.79
				06/07/11	47.11	840.78
				12/01/11	48.48	839.41
				05/29/12	48.67	839.22
				12/12/12	48.81	839.08
CM-19				01/23/96	64.11	844.06
TOC = 908.17				02/12/96	64.22	843.95
TD = 99	4	69-99	A	03/12/96	64.12	844.05
				04/16/96	64.15	844.02
				05/13/96	66.00	842.17
				06/18/96	64.72	843.45
				07/15/96	64.04	844.13
				08/12/96	64.70	843.47
				09/16/96	64.93	843.24
				10/25/96	65.48	842.69
				11/11/96	65.34	842.83
				02/10/97	62.97	845.20
				05/13/97	63.33	844.84
				08/11/97	64.01	844.16
				12/15/97	63.06	845.11
				02/12/98	62.13	846.04
				05/11/98	59.80	848.37
				08/11/98	61.12	847.05
				11/10/98	60.87	847.30

APPENDIX B
SUMMARY OF WATER LEVEL DATA AND WELL CONSTRUCTION INFORMATION
JANUARY 1996 - PRESENT
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D., Top of Casing (ft), Total Depth (ft)	Well Diameter (inches)	Screened Interval (feet below top of casing)	Sampling Frequency EPA 8260	Gauging Date	Depth to Water (ft, TOC)	Groundwater Elevation (ft, MSL)
CM-19 (cont'd)				04/16/99	59.13	849.04
				06/25/99	61.59	846.58
				12/27/99	63.10	845.07
				05/08/00	60.64	847.53
				09/24/00	62.89	845.28
				12/04/00	63.58	844.59
				03/12/01	59.69	848.48
				06/12/01	59.90	848.27
				09/27/01	59.32	848.85
				11/06/01	61.85	846.32
				03/15/02	60.04	848.13
				05/21/02	62.03	846.14
				09/24/02	63.47	844.70
				11/10/02	63.40	844.77
				03/28/03	62.11	846.06
				06/15/03	62.68	845.49
				09/26/03	64.41	843.76
				11/09/03	64.46	843.71
				03/22/04	64.38	843.79
				06/12/04	63.21	844.96
				08/17/04	65.66	842.51
				10/16/04	65.67	842.50
				04/15/05	54.12	854.05
				06/27/05	55.01	853.16
				08/16/05	65.62	842.55
				11/13/05	58.94	849.23
				03/14/06	57.55	850.62
				07/12/06	58.13	850.04
				11/04/06	60.21	847.96
				05/12/07	61.03	847.14
				11/03/07	61.50	846.67
				06/29/08	60.29	847.88
				11/14/08	62.14	846.03
				05/26/09	61.67	846.50
				11/30/09	62.79	845.38
				06/07/10	59.88	848.29
				12/16/10	61.45	846.72
				12/01/11	60.93	847.24
				05/29/12	61.62	846.55
				12/12/12	62.79	845.38
MW-15				01/23/96	27.40	840.83
TOC = 868.23				02/12/96	28.48	839.75
TD = 101.5	4	92-101.5	SA	03/12/96	27.06	841.17
				04/16/96	28.79	839.44
				05/13/96	27.46	840.77
				06/18/96	27.65	840.58
				07/15/96	27.62	840.61
				08/12/96	28.57	839.66
				09/16/96	28.79	839.44
				10/25/96	28.75	839.48
				11/11/96	27.35	840.88
				02/10/97	26.63	841.60
				05/13/97	29.22	839.01
				08/11/97	30.00	838.23
				12/15/97	27.61	840.62
				12/27/99	28.02	840.21
				05/08/00	24.63	843.60
				09/24/00	25.45	842.78
				12/04/00	26.18	842.05
				03/12/01	24.45	843.78
				06/12/01	24.83	843.40
				09/27/01	25.55	842.68
				11/06/01	25.58	842.65
				03/15/02	26.96	841.27
				05/21/02	27.33	840.90

APPENDIX B
SUMMARY OF WATER LEVEL DATA AND WELL CONSTRUCTION INFORMATION
JANUARY 1996 - PRESENT
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D., Top of Casing (ft), Total Depth (ft)	Well Diameter (inches)	Screened Interval (feet below top of casing)	Sampling Frequency EPA 8260	Gauging Date	Depth to Water (ft, TOC)	Groundwater Elevation (ft, MSL)
MW-15 (cont'd)				09/24/02	26.60	841.63
				11/10/02	26.75	841.48
				03/28/03	25.45	842.78
				06/15/03	28.04	840.19
				09/26/03	28.12	840.11
				11/09/03	28.19	840.04
				03/22/04	28.00	840.23
				06/12/04	27.71	840.52
				08/17/04	27.61	840.62
				10/16/04	27.67	840.56
				04/15/05	22.32	845.91
				06/27/05	23.78	844.45
				08/16/05	27.63	840.60
				11/13/05	24.25	843.98
				03/14/06	24.26	843.97
				07/12/06	24.33	843.90
				11/04/06	24.95	843.28
				05/12/07	24.80	843.43
				11/03/07	25.15	843.08
				06/29/08	24.82	843.41
				11/14/08	25.26	842.97
				05/26/09	25.58	842.65
				11/30/09	26.06	842.17
				06/07/10	24.93	843.30
				12/16/10	25.75	842.48
				06/07/11	24.57	843.66
				12/01/11	25.40	842.83
				05/29/12	25.50	842.73
				12/12/12	26.36	841.87
MW-16				01/23/96	40.00	838.50
TOC = 882.19				02/12/96	40.49	838.01
TD = 120	4	100-120	SA	03/12/96	39.40	839.10
				04/16/96	38.22	840.28
				05/13/96	36.59	841.91
				06/18/96	39.15	839.35
				07/15/96	34.45	844.05
				08/12/96	44.59	833.91
				09/16/96	41.47	837.03
				10/25/96	39.97	838.53
				11/11/96	38.80	839.70
				02/10/97	32.80	845.70
				05/13/97	37.35	841.15
				08/11/97	38.86	839.64
				12/15/97	35.67	842.83
				02/12/98	33.42	845.08
				05/11/98	28.34	850.16
				08/11/98	32.50	846.00
Obstructed at 26'				11/10/98	37.56	840.94
1998				OBSTRUCTED		
Obstruction cleared				Jun1999 - Dec2000		
10/23/2001				11/06/01	35.22	846.97
				03/15/02	36.70	845.49
				05/21/02	36.65	845.54
				09/24/02	36.46	845.73
				11/10/02	36.25	845.94
				03/28/03	34.94	847.25
				06/15/03	32.54	849.65
				09/26/03	35.13	847.06
				11/09/03	35.23	846.96
				03/22/04	34.21	847.98
				06/12/04	38.05	844.14
				08/17/04	38.81	843.38
				10/16/04	38.80	843.39
				04/15/05	28.92	853.27

APPENDIX B
SUMMARY OF WATER LEVEL DATA AND WELL CONSTRUCTION INFORMATION
JANUARY 1996 - PRESENT
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D., Top of Casing (ft), Total Depth (ft)	Well Diameter (inches)	Screened Interval (feet below top of casing)	Sampling Frequency EPA 8260	Gauging Date	Depth to Water (ft, TOC)	Groundwater Elevation (ft, MSL)
MW-16 (cont'd)				06/27/05	31.42	850.77
				08/16/05	38.84	843.35
				11/13/05	33.85	848.34
				03/14/06	33.79	848.40
				07/12/06	33.81	848.38
				11/04/06	34.44	847.75
				05/12/07	35.53	846.66
				11/03/07	36.11	846.08
				06/29/08	34.70	847.49
				11/14/08	36.09	846.10
				05/26/09	38.18	844.01
				11/30/09	36.97	845.22
				06/07/10	34.46	847.73
				12/16/10	35.93	846.26
				06/07/11	33.88	848.31
				12/01/11	35.50	846.69
				05/29/12	36.00	846.19
				12/12/12	36.72	845.47
MW-17				01/23/96	42.23	841.29
TOC = 883.52				02/12/96	41.30	842.22
TD = 47	2	37-47	A	03/12/96	39.35	844.17
				04/16/96	40.53	842.99
				05/13/96	39.82	843.70
				06/18/96	41.39	842.13
				07/15/96	38.83	844.69
				08/12/96	41.09	842.43
				09/16/96	41.15	842.37
				10/25/96	42.52	841.00
				11/11/96	41.55	841.97
				02/10/97	38.89	844.63
				05/13/97	37.80	845.72
				08/11/97	38.31	845.21
				12/15/97	38.22	845.30
				02/12/98	37.33	846.19
				05/11/98	33.12	850.40
				08/11/98	34.68	848.84
				11/10/98	35.17	848.35
				04/16/99	33.35	850.17
				06/25/99	35.57	847.95
				12/27/99	36.50	847.02
				05/08/00	32.06	851.46
				09/24/00	35.32	848.20
				12/04/00	36.45	847.07
				03/12/01	29.06	854.46
				06/12/01	29.31	854.21
				09/27/01	33.11	850.41
				11/06/01	33.06	850.46
				03/15/02	35.10	848.42
				05/21/02	38.54	844.98
				09/24/02	34.77	848.75
				11/10/02	35.60	847.92
				03/28/03	32.55	850.97
				06/15/03	34.98	848.54
				09/26/03	37.51	846.01
				11/09/03	37.56	845.96
				03/22/04	35.13	848.39
				06/12/04	35.06	848.46
				08/17/04	38.12	845.40
				10/16/04	38.14	845.38
				04/15/05	34.77	848.75
				08/16/05	38.08	845.44
				11/13/05	32.11	851.41
				03/14/06	32.02	851.50
				07/12/06	32.07	851.45
				11/04/06	33.35	850.17

APPENDIX B
SUMMARY OF WATER LEVEL DATA AND WELL CONSTRUCTION INFORMATION
JANUARY 1996 - PRESENT
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D., Top of Casing (ft), Total Depth (ft)	Well Diameter (inches)	Screened Interval (feet below top of casing)	Sampling Frequency EPA 8260	Gauging Date	Depth to Water (ft, TOC)	Groundwater Elevation (ft, MSL)
MW-17 (cont'd)				05/12/07	34.24	849.28
				11/03/07	34.96	848.56
				06/29/08	32.26	851.26
				11/14/08	35.06	848.46
				05/26/09	34.16	849.36
				11/30/09	35.20	848.32
				06/07/10	31.58	851.94
				12/16/10	34.40	849.12
				12/01/11	33.38	850.14
				05/29/12	33.84	849.68
				12/12/12	34.85	848.67
MW-19S				01/23/96	20.28	840.38
TOC = 860.66				02/12/96	20.10	840.56
TD = 30	2	20-30	SA	03/12/96	19.15	841.51
				04/16/96	19.65	841.01
				05/13/96	19.92	840.74
				06/18/96	20.03	840.63
				07/15/96	20.07	840.59
				08/12/96	20.06	840.60
				09/16/96	20.27	840.39
				10/25/96	18.37	842.29
				11/11/96	20.33	840.33
				08/11/97	19.65	841.01
				12/15/97	19.36	841.30
				02/12/98	17.95	842.71
				05/11/98	16.16	844.50
				08/11/98	19.28	841.38
				11/10/98	18.51	842.15
				04/16/99	18.30	842.36
				06/25/99	18.32	842.34
				12/27/99	19.17	841.49
				05/08/00	18.21	842.45
				09/24/00	19.03	841.63
				12/04/00	19.32	841.34
				03/12/01	17.31	843.35
				06/12/01	18.18	842.48
				09/27/01	18.62	842.04
				11/06/01	18.81	841.85
				03/15/02	18.77	841.89
				05/21/02	19.48	841.18
				09/24/02	19.15	841.51
				11/10/02	19.19	841.47
				03/28/03	18.36	842.30
				06/15/03	19.77	840.89
				09/26/03	19.64	841.02
				11/09/03	19.70	840.96
				03/22/04	18.66	842.00
				06/12/04	19.63	841.03
				08/17/04	17.89	842.77
				10/16/04	17.81	842.85
				04/15/05	15.62	845.04
				06/27/05	16.89	843.77
				08/16/05	17.88	842.78
				11/13/05	17.70	842.96
				03/14/06	16.96	843.70
				07/12/06	17.02	843.64
				11/04/06	18.06	842.60
				05/12/07	17.45	843.21
				11/03/07	18.16	842.50
				06/29/08	17.43	843.23
				11/14/08	17.75	842.91
				05/26/09	18.41	842.25
				11/30/09	19.48	841.18
				06/07/10	18.26	842.40
				12/16/10	16.83	843.83

APPENDIX B
SUMMARY OF WATER LEVEL DATA AND WELL CONSTRUCTION INFORMATION
JANUARY 1996 - PRESENT
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D., Top of Casing (ft), Total Depth (ft)	Well Diameter (inches)	Screened Interval (feet below top of casing)	Sampling Frequency EPA 8260	Gauging Date	Depth to Water (ft, TOC)	Groundwater Elevation (ft, MSL)
MW-19S (cont'd)				06/07/11	16.11	844.55
				12/01/11	15.98	844.68
				05/29/12	18.55	842.11
				12/12/12	16.23	844.43
MW-19D				01/23/96	10.04	850.34
TOC = 860.38				02/12/96	9.57	850.81
TD = 100	2	80-100	SA	03/12/96	27.61	832.77
				04/16/96	28.94	831.44
				05/13/96	23.80	836.58
				06/18/96	10.60	849.78
				07/15/96	10.35	850.03
				08/12/96	10.50	849.88
				09/16/96	10.29	850.09
				10/25/96	10.13	850.25
				11/11/96	10.02	850.36
				08/11/97	9.45	850.93
				12/15/97	9.09	851.29
				02/12/98	8.16	852.22
				05/11/98	7.69	852.69
				08/11/98	10.23	850.15
				11/10/98	8.10	852.39
				04/16/99	7.99	852.39
				06/25/99	8.00	852.38
				12/27/99	8.42	851.96
				05/08/00	7.90	852.48
				09/24/00	8.55	851.83
				12/04/00	8.66	851.72
				03/12/01	7.60	852.78
				06/12/01	7.97	852.41
				09/27/01	8.41	851.97
				11/06/01	8.51	851.87
				03/15/02	8.62	851.76
				05/21/02	10.01	850.37
				09/24/02	8.73	851.65
				11/10/02	8.92	851.46
				03/28/03	8.57	851.81
				06/15/03	10.14	850.24
				09/26/03	9.81	850.57
				11/09/03	9.74	850.64
				03/22/04	9.06	851.32
				06/12/04	12.10	848.28
				08/17/04	12.11	848.27
				10/16/04	12.35	848.03
				04/15/05	11.13	849.25
				06/27/05	7.94	852.44
				08/16/05	12.12	848.26
				11/13/05	10.26	850.12
				03/14/06	9.86	850.52
				07/12/06	9.97	850.41
				11/04/06	12.11	848.27
				05/12/07	10.43	849.95
				11/03/07	8.45	851.93
				06/29/08	8.15	852.23
				11/14/08	10.44	849.94
				05/26/09	8.39	851.99
				11/30/09	11.16	849.22
				06/07/10	10.65	849.73
				12/16/10	7.96	852.42
				06/07/11	10.14	850.24
				12/01/11	9.79	850.59
				05/29/12	10.88	849.50
				12/12/12	10.14	850.24

APPENDIX B
SUMMARY OF WATER LEVEL DATA AND WELL CONSTRUCTION INFORMATION
JANUARY 1996 - PRESENT
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D., Top of Casing (ft), Total Depth (ft)	Well Diameter (inches)	Screened Interval (feet below top of casing)	Sampling Frequency EPA 8260	Gauging Date	Depth to Water (ft, TOC)	Groundwater Elevation (ft, MSL)
MW-20S				01/23/96	16.98	841.05
TOC = 858.03				02/12/96	17.12	840.91
TD = 40	2	30-40	SA	03/12/96	16.32	841.71
				04/16/96	16.80	841.23
				05/13/96	16.81	841.22
				06/18/96	17.05	840.98
				07/15/96	17.16	840.87
				08/12/96	17.05	840.98
				09/16/96	17.32	840.71
				10/25/96	17.28	840.75
				11/11/96	17.06	840.97
				02/10/97	16.35	841.68
				05/13/97	17.36	840.67
				08/11/97	16.63	841.40
				12/15/97	16.26	841.77
				02/12/98	15.18	842.85
				05/11/98	14.00	844.03
				08/11/98	17.13	840.90
				11/10/98	15.93	842.10
				04/16/99	15.88	842.15
				06/25/99	15.11	842.92
				12/27/99	16.10	841.93
				05/08/00	15.04	842.99
				09/24/00	15.73	842.30
				12/04/00	15.99	842.04
				03/12/01	14.70	843.33
				06/12/01	14.96	843.07
				09/27/01	15.62	842.41
				11/06/01	15.69	842.34
				03/15/02	15.36	842.67
				05/21/02	16.21	841.82
				09/24/02	16.34	841.69
				11/10/02	16.36	841.67
				03/28/03	15.66	842.37
				06/15/03	18.04	839.99
				09/26/03	17.23	840.80
				11/09/03	17.33	840.70
				03/22/04	17.30	840.73
				06/12/04	16.53	841.50
				08/17/04	17.22	840.81
				10/16/04	17.21	840.82
				04/15/05	13.20	844.83
				06/27/05	13.99	844.04
				08/16/05	17.24	840.79
				11/13/05	14.82	843.21
				03/14/06	14.50	843.53
				07/12/06	14.66	843.37
				11/04/06	15.16	842.87
				05/12/07	15.12	842.91
				11/03/07	15.60	842.43
				06/29/08	15.14	842.89
				11/14/08	15.68	842.35
				05/26/09	15.47	842.56
				11/30/09	16.69	841.34
				06/07/10	15.41	842.62
				12/16/10	15.82	842.21
				06/07/11	15.19	842.84
				12/01/11	15.59	842.44
				05/29/12	15.56	842.47
				12/12/12	16.37	841.66
MW-20D				01/23/96	16.28	842.07
TOC = 858.35				02/12/96	17.26	841.09
TD = 80	2	60-80	NS	03/12/96	16.42	841.93
				04/16/96	17.20	841.15
				05/13/96	16.67	841.68

APPENDIX B
SUMMARY OF WATER LEVEL DATA AND WELL CONSTRUCTION INFORMATION
JANUARY 1996 - PRESENT
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D., Top of Casing (ft), Total Depth (ft)	Well Diameter (inches)	Screened Interval (feet below top of casing)	Sampling Frequency EPA 8260	Gauging Date	Depth to Water (ft, TOC)	Groundwater Elevation (ft, MSL)
MW-20D (cont'd)				06/18/96	16.74	841.61
				07/15/96	17.06	841.29
				08/12/96	16.87	841.48
				09/16/96	17.31	841.04
				10/25/96	17.02	841.33
				11/11/96	16.56	841.79
				02/10/97	15.62	842.73
				05/13/97	16.64	841.71
				08/11/97	16.50	841.85
				12/15/97	16.10	842.25
				02/12/98	15.18	843.17
				05/11/98	14.03	844.32
				08/11/98	17.16	841.19
				11/10/98	17.23	841.12
				04/16/99	17.12	841.23
				06/25/99	14.12	844.23
				12/27/99	15.56	842.79
				05/08/00	14.91	843.44
				09/24/00	14.98	843.37
				03/12/01	13.45	844.90
				06/12/01	14.99	843.36
				09/27/01	14.96	843.39
				11/06/01	15.51	842.84
				03/15/02	17.02	841.33
				05/21/02	15.84	842.51
				09/24/02	15.31	843.04
				11/10/02	15.32	843.03
				03/28/03	15.56	842.79
				06/15/03	16.31	842.04
				09/26/03	17.41	840.94
				11/09/03	17.51	840.84
				03/22/04	16.13	842.22
				06/12/04	16.10	842.25
				08/17/04	16.67	841.68
				10/16/04	16.66	841.69
				04/15/05	13.51	844.84
				06/27/05	14.04	844.31
				08/16/05	16.65	841.70
				11/13/05	14.94	843.41
				03/14/06	14.55	843.80
				07/12/06	14.75	843.60
				11/04/06	13.95	844.40
				11/03/07	14.98	843.37
				11/14/08	14.63	843.72
				12/16/10	15.00	843.35
				12/01/11	15.69	842.66
				12/12/12	15.50	842.85
MW-21S				01/23/96	12.87	837.08
TOC = 849.95				02/12/96	12.78	837.17
TD = 40	2	20-40	NS	05/13/96	12.01	837.94
				06/18/96	12.59	837.36
				07/15/96	12.77	837.18
				08/12/96	12.07	837.88
				09/16/96	12.99	836.96
				10/25/96	13.24	836.71
				11/11/96	13.22	836.73
				02/10/97	10.85	839.10
				05/13/97	11.61	838.34
				08/11/97	12.11	837.84
				12/15/97	11.67	838.28
				02/12/98	9.50	840.45
				05/11/98	9.01	840.94
				08/11/98	11.98	837.97
				11/10/98	10.32	839.63
				04/16/99	10.30	839.65

APPENDIX B
SUMMARY OF WATER LEVEL DATA AND WELL CONSTRUCTION INFORMATION
JANUARY 1996 - PRESENT
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D., Top of Casing (ft), Total Depth (ft)	Well Diameter (inches)	Screened Interval (feet below top of casing)	Sampling Frequency EPA 8260	Gauging Date	Depth to Water (ft, TOC)	Groundwater Elevation (ft, MSL)
MW-21S (cont'd)				06/25/99	11.23	838.72
				12/27/99	11.82	838.13
				05/08/00	9.26	840.69
				09/24/00	11.85	838.10
				12/04/00	11.76	838.19
				03/12/01	9.89	840.06
				06/12/01	11.19	838.76
				09/27/01	11.04	838.91
				11/06/01	11.68	838.27
				03/15/02	10.63	839.32
				05/21/02	11.85	838.10
				09/24/02	11.48	838.47
				11/10/02	11.53	838.42
				03/28/03	11.10	838.85
				06/15/03	11.93	838.02
				09/26/03	12.11	837.84
				11/09/03	12.15	837.80
				03/22/04	12.03	837.92
				06/12/04	11.63	838.32
				08/17/04	20.61	829.34
				10/16/04	20.59	829.36
				04/15/05	17.13	832.82
				06/27/05	18.09	831.86
				08/16/05	20.63	829.32
				11/13/05	10.93	839.02
				03/14/06	10.03	839.92
				07/12/06	10.88	839.07
				11/04/06	11.20	838.75
				11/03/07	11.52	838.43
				11/14/08	11.52	838.43
				12/16/10	10.10	839.85
				06/07/11	10.88	839.07
				12/01/11	11.52	838.43
				12/12/12	12.34	837.61
MW-21D				01/23/96	10.94	838.99
TOC = 849.93				02/12/96	10.32	839.61
TD = 80	2	70-80	NS	03/12/96	9.75	840.18
				04/16/96	9.82	840.11
				05/13/96	10.23	839.70
				06/18/96	10.10	839.83
				07/15/96	10.14	839.79
				08/12/96	9.65	840.28
				09/16/96	10.34	839.59
				10/25/96	10.68	839.25
				11/11/96	10.92	839.01
				02/10/97	8.35	841.58
				05/13/97	9.15	840.78
				08/11/97	9.42	840.51
				12/15/97	9.42	840.51
				02/12/98	7.40	842.53
				05/11/98	7.00	842.93
				08/11/98	10.06	839.87
				11/10/98	8.52	841.41
				04/16/99	8.55	841.38
				06/25/99	8.37	841.56
				12/27/99	9.25	840.68
				09/27/01	9.27	840.66
				11/06/01	9.54	840.39
				03/15/02	9.46	840.47
				05/21/02	9.74	840.19
				11/10/02	9.63	840.30
				03/28/03	19.98	829.95 *
				06/15/03	20.67	829.26 *
				09/26/03	10.18	839.75
				11/09/03	10.19	839.74

APPENDIX B
SUMMARY OF WATER LEVEL DATA AND WELL CONSTRUCTION INFORMATION
JANUARY 1996 - PRESENT
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D., Top of Casing (ft), Total Depth (ft)	Well Diameter (inches)	Screened Interval (feet below top of casing)	Sampling Frequency EPA 8260	Gauging Date	Depth to Water (ft, TOC)	Groundwater Elevation (ft, MSL)
MW-21D (cont'd)				03/22/04	8.41	841.52
				06/12/04	8.32	841.61
				08/17/04	10.54	839.39
				10/16/04	10.52	839.41
				04/15/05	9.08	840.85
				06/27/05	14.44	835.49 *
				08/16/05	10.56	839.37
				11/13/05	8.94	840.99
				03/14/06	8.61	841.32
				07/12/06	8.79	841.14
				11/04/06	9.13	840.80
				11/03/07	9.71	840.22
				11/14/08	9.57	840.36
				12/16/10	8.23	841.70
				12/01/11	9.87	840.06
				12/12/12	10.06	839.87
MW-22S				01/23/96	19.46	821.03
TOC = 840.49				02/12/96	19.16	821.33
TD = 40	2	30-40	NS	03/12/96	18.16	822.33
				04/16/96	18.06	822.43
				05/13/96	18.42	822.07
				06/18/96	19.16	821.33
				07/15/96	19.70	820.79
				08/12/96	20.13	820.36
				09/16/96	20.67	819.82
				10/25/96	21.05	819.44
				11/11/96	20.72	819.77
				02/10/97	17.81	822.68
				05/13/97	18.66	821.83
				08/11/97	20.32	820.17
				12/15/97	20.00	820.49
				02/12/98	17.11	823.38
				05/11/98	16.03	824.46
				08/11/98	19.33	821.16
				11/10/98	16.51	823.98
				04/16/99	16.48	824.01
				06/25/99	16.57	823.92
				12/27/99	19.41	821.08
				09/24/00	19.91	820.58
				12/04/00	20.05	820.44
				03/12/01	40.41	800.08 *
				06/12/01	17.54	822.95
				09/27/01	19.47	821.02
				11/06/01	19.55	820.94
				03/15/02	19.78	820.71
				05/21/02	21.13	819.36
				09/24/02	20.50	819.99
				11/10/02	20.52	819.97
				03/28/03	20.04	820.45
				06/15/03	20.34	820.15
				09/26/03	21.34	819.15
				11/09/03	21.44	819.05
				03/22/04	21.38	819.11
				06/12/04	20.63	819.86
				08/17/04	21.46	819.03
				10/16/04	21.44	819.05
				04/15/05	19.08	821.41
				06/27/05	19.94	820.55
				08/16/05	21.44	819.05
				11/13/05	17.24	823.25
				03/14/06	17.01	823.48
				07/12/06	17.18	823.31
				11/04/06	16.95	823.54
				11/03/07	18.35	822.14

APPENDIX B
SUMMARY OF WATER LEVEL DATA AND WELL CONSTRUCTION INFORMATION
JANUARY 1996 - PRESENT
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D., Top of Casing (ft), Total Depth (ft)	Well Diameter (inches)	Screened Interval (feet below top of casing)	Sampling Frequency EPA 8260	Gauging Date	Depth to Water (ft, TOC)	Groundwater Elevation (ft, MSL)
MW-22S (cont'd)				11/14/08	18.41	822.08
				12/16/10	20.20	820.29
				12/12/12	21.40	819.09
MW-22D				01/23/96	19.10	821.13
TOC = 840.23				02/12/96	18.78	821.45
TD = 90	2	70-90	NS	03/12/96	17.68	822.55
				04/16/96	17.67	822.56
				05/13/96	18.04	822.19
				06/18/96	18.81	821.42
				07/15/96	19.35	820.88
				08/12/96	19.82	820.41
				09/16/96	20.32	819.91
				10/25/96	21.68	818.55
				11/11/96	21.07	819.16
				02/10/97	17.25	822.98
				05/13/97	18.09	822.14
				08/11/97	19.79	820.44
				12/15/97	19.71	820.52
				02/12/98	16.52	823.71
				05/11/98	15.87	824.36
				08/11/98	19.00	821.23
				11/10/98	16.10	824.13
				04/16/99	16.09	824.14
				06/25/99	16.14	824.09
				12/27/99	19.03	821.20
				09/24/00	18.06	822.17
				03/12/01	15.82	824.41
				06/12/01	17.18	823.05
				09/27/01	19.19	821.04
				11/06/01	19.18	821.05
				03/15/02	19.43	820.80
				05/21/02	19.81	820.42
				09/24/02	20.06	820.17
				11/10/02	20.05	820.18
				03/28/03	19.84	820.39
				06/15/03	20.17	820.06
				09/26/03	20.54	819.69
				11/09/03	20.66	819.57
				03/22/04	19.88	820.35
				06/12/04	19.17	821.06
				08/17/04	20.09	820.14
				10/16/04	20.10	820.13
				04/15/05	18.16	822.07
				06/27/05	19.66	820.57
				08/16/05	20.06	820.17
				11/13/05	16.13	824.10
				03/14/06	16.12	824.11
				07/12/06	16.15	824.08
				11/04/06	16.56	823.67
				11/03/07	17.97	822.26
				11/14/08	18.00	822.23
				12/16/10	19.89	820.34
				12/12/12	21.00	819.23
MW-23				01/23/96	34.74	838.34
TOC = 873.66				02/12/96	35.58	837.50
TD = 55	4	25-55	A	03/12/96	33.90	839.18
				04/16/96	32.33	840.75
				05/13/96	33.31	839.77
				06/18/96	34.23	838.85
				07/15/96	32.72	840.36
				08/12/96	35.05	838.03
				09/16/96	34.03	839.05
				10/25/96	36.24	836.84
				11/11/96	35.21	837.87
				02/10/97	29.30	843.78

APPENDIX B
SUMMARY OF WATER LEVEL DATA AND WELL CONSTRUCTION INFORMATION
JANUARY 1996 - PRESENT
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D., Top of Casing (ft), Total Depth (ft)	Well Diameter (inches)	Screened Interval (feet below top of casing)	Sampling Frequency EPA 8260	Gauging Date	Depth to Water (ft, TOC)	Groundwater Elevation (ft, MSL)
MW-23 (cont'd)				05/13/97	31.13	841.95
				08/11/97	31.80	841.28
				02/12/98	27.81	845.27
				05/11/98	22.55	850.53
				08/11/98	27.72	845.36
				06/25/99	30.96	843.21
				12/27/99	31.03	843.14
				05/08/00	27.05	846.03
				09/24/00	29.55	843.53
				12/04/00	30.75	842.33
				03/12/01	24.42	848.66
				06/12/01	26.72	846.36
				09/27/01	28.62	844.46
				11/06/01	28.98	844.10
				03/15/02	29.31	844.86
				05/21/02	29.50	844.67
				09/24/02	29.69	844.48
				11/10/02	29.78	844.39
				03/28/03	28.61	845.56
				06/15/03	29.32	844.85
				09/26/03	31.04	843.13
				11/09/03	31.08	843.09
				03/22/04	30.91	843.26
				06/12/04	30.55	843.62
				08/17/04	31.99	842.18
				10/16/04	31.93	842.24
				04/15/05	26.88	847.29
				06/27/05	27.43	846.74
				08/16/05	31.94	842.23
				11/13/05	27.48	846.69
				03/14/06	26.22	847.44
				07/12/06	26.89	846.77
				11/04/06	27.15	846.51
				05/12/07	27.85	845.81
				11/03/07	27.89	845.77
				06/29/08	26.90	846.76
				11/14/08	28.80	844.86
				05/26/09	28.41	845.25
				11/30/09	29.23	844.43
				06/07/10	25.92	847.74
				12/16/10	28.18	845.48
				06/07/11	24.98	848.68
				12/01/11	27.80	845.86
				05/29/12	28.28	845.38
				12/12/12	29.20	844.46
MW-24				11/03/97	38.57	839.09
TOC = 877.29	4	35-65	A	11/10/98	34.05	843.61
TD = 65				12/04/00	37.91	839.75
				06/12/01	35.65	842.01
				09/27/01	36.21	841.45
				11/06/01	37.14	840.52
				03/15/02	37.61	840.05
				05/21/02	38.20	839.46
				09/24/02	37.60	840.06
				11/10/02	37.70	839.96
				03/28/03	36.20	841.46
				06/15/03	36.12	841.54
				09/26/03	39.39	838.27
				11/09/03	39.30	838.36
				03/22/04	39.04	838.62
				06/12/04	38.77	838.89
				08/17/04	40.15	837.51
				10/16/04	40.31	837.35
				04/15/05	33.84	843.82
				06/27/05	35.01	842.65

APPENDIX B
SUMMARY OF WATER LEVEL DATA AND WELL CONSTRUCTION INFORMATION
JANUARY 1996 - PRESENT
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D., Top of Casing (ft), Total Depth (ft)	Well Diameter (inches)	Screened Interval (feet below top of casing)	Sampling Frequency EPA 8260	Gauging Date	Depth to Water (ft, TOC)	Groundwater Elevation (ft, MSL)
MW-24 (cont'd)				08/16/05	40.14	837.52
				11/13/05	36.90	840.76
				03/14/06	36.50	840.79
				07/12/06	36.88	840.41
				11/04/06	38.03	839.26
				05/12/07	38.12	839.17
				11/03/07	38.31	838.98
				06/29/08	36.95	840.34
				11/14/08	38.57	838.72
				05/26/09	37.84	839.45
				11/30/09	39.41	837.88
				06/07/10	38.15	839.14
				12/16/10	38.88	838.41
				06/07/11	37.06	840.23
				12/01/11	39.33	837.96
				05/29/12	39.58	837.71
				12/12/12	39.98	837.31
MW-25				11/03/97	51.68	839.07
TOC = 890.28	4	40-70	A	11/10/98	47.80	842.95
TD = 70				12/27/99	51.19	839.56
				09/24/00	49.32	841.43
				12/04/00	50.05	840.70
				03/12/01	47.40	843.35
				06/12/01	47.72	843.03
				09/27/01	46.07	844.68
				11/06/01	47.54	843.21
				03/15/02	49.25	841.50
				05/21/02	47.37	843.38
				09/24/02	46.70	844.05
				11/10/02	46.71	844.04
				03/28/03	45.20	845.55
				06/15/03	46.10	844.65
				09/26/03	51.88	838.87
				11/09/03	51.30	839.45
				03/22/04	50.62	840.13
				06/12/04	49.56	841.19
				08/17/04	47.92	842.83
				10/16/04	47.90	842.85
				04/15/05	46.84	843.91
				06/27/05	48.20	842.55
				08/16/05	47.89	842.86
				11/13/05	49.51	841.24
				03/14/06	48.92	841.36
				07/12/06	49.16	841.12
				11/04/06	49.92	840.36
				05/12/07	50.35	839.93
				11/03/07	51.15	839.13
				06/29/08	50.40	839.88
				11/14/08	51.20	839.08
				05/26/09	51.05	839.23
				11/30/09	51.78	838.50
				06/07/10	50.72	839.56
				12/16/10	51.50	838.78
				12/01/11	51.85	838.43
				05/29/12	51.96	838.32
				12/12/12	52.40	837.88
MW-26				01/23/96	46.85	838.65
TOC = 885.50				02/12/96	46.40	839.10
TD = 70	4	40-70	A	03/12/96	45.42	840.08
				04/16/96	45.54	839.96
				05/13/96	45.93	839.57
				06/18/96	46.42	839.08
				07/15/96	46.59	838.91
				08/12/96	46.20	839.30
				09/16/96	46.75	838.75

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JANUARY 1996 - PRESENT
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D., Top of Casing (ft), Total Depth (ft)	Well Diameter (inches)	Screened Interval (feet below top of casing)	Sampling Frequency EPA 8260	Gauging Date	Depth to Water (ft, TOC)	Groundwater Elevation (ft, MSL)
MW-26 (cont'd)				10/25/96	47.25	838.25
				11/11/96	47.33	838.17
				02/10/97	43.41	842.09
				05/13/97	44.41	841.09
				08/11/97	45.23	840.27
				12/15/97	45.27	840.23
				02/12/98	41.69	843.81
				05/11/98	42.38	843.12
				08/11/98	43.33	842.17
				11/10/98	43.61	841.89
				04/16/99	42.13	843.37
				06/25/99	44.85	840.65
				12/27/99	46.26	839.24
				05/08/00	45.62	839.88
				09/24/00	47.45	838.05
				12/04/00	39.83	845.67
				03/12/01	41.61	843.89
				06/12/01	43.49	842.01
				09/27/01	43.41	842.09
				11/06/01	43.93	841.57
				03/15/02	45.32	840.18
				05/21/02	44.73	840.77
				09/24/02	43.74	841.76
				11/10/02	43.87	841.63
				03/28/03	42.12	843.38
				06/15/03	42.76	842.74
				09/26/03	46.89	838.61
				11/09/03	46.98	838.52
				03/22/04	45.15	840.35
				06/12/04	45.01	840.49
				08/17/04	45.96	839.54
				10/16/04	45.96	839.54
				04/15/05	44.20	841.30
				06/27/05	43.62	841.88
				08/16/05	45.95	839.55
				11/13/05	45.00	840.50
				03/14/06	45.01	840.49
				07/12/06	45.11	840.39
				11/04/06	49.60	835.90
				05/12/07	45.95	839.55
				11/03/07	46.54	838.96
				06/29/08	45.74	839.76
				11/14/08	46.62	838.88
				05/26/09	46.39	839.11
				11/30/09	47.22	838.28
				06/07/10	46.20	839.30
				12/16/10	46.97	838.53
				06/07/11	45.09	840.41
				12/01/11	47.26	838.24
				05/29/12	47.37	838.13
				12/12/12	48.00	837.50
MW-27				01/23/96	39.10	838.41
TOC = 877.51				02/12/96	38.80	838.71
TD = 65	4	35-65	A	03/12/96	38.02	839.49
				04/16/96	38.09	839.42
				05/13/96	38.41	839.10
				06/18/96	37.90	839.61
				07/15/96	39.10	838.41
				08/12/96	38.80	838.71
				09/16/96	39.27	838.24
				10/25/96	39.76	837.75
				11/11/96	40.86	836.65
				02/10/97	36.91	840.60
				05/13/97	37.98	839.53
				08/11/97	38.81	838.70

APPENDIX B
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JANUARY 1996 - PRESENT
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D., Top of Casing (ft), Total Depth (ft)	Well Diameter (inches)	Screened Interval (feet below top of casing)	Sampling Frequency EPA 8260	Gauging Date	Depth to Water (ft, TOC)	Groundwater Elevation (ft, MSL)
MW-27 (cont'd)				12/15/97	38.07	839.44
				02/12/98	35.44	842.07
				05/11/98	34.95	842.56
				08/11/98	36.00	841.51
				11/10/98	36.31	841.20
				04/16/99	34.88	842.63
				06/25/99	37.42	840.09
				12/27/99	38.62	838.89
				05/08/00	38.14	839.37
				09/24/00	38.42	839.09
				12/04/00	38.65	838.86
				03/12/01	34.90	842.61
				06/12/01	36.05	841.46
				09/27/01	35.39	842.12
				11/06/01	36.98	840.53
				03/15/02	38.08	839.43
				05/21/02	37.74	839.77
				09/24/02	37.21	840.30
				11/10/02	37.24	840.27
				03/28/03	36.80	840.71
				06/15/03	36.21	841.30
				09/26/03	39.91	837.60
				11/09/03	39.95	837.56
				03/22/04	38.84	838.67
				06/12/04	38.16	839.35
				08/17/04	39.62	837.89
				10/16/04	39.59	837.92
				04/15/05	37.88	839.63
				06/27/05	35.90	841.61
				08/16/05	39.61	837.90
				11/13/05	37.51	840.00
				03/14/06	37.06	840.45
				07/12/06	37.26	840.25
				11/04/06	38.20	839.31
				05/12/07	38.65	838.86
				11/03/07	39.08	838.43
				06/29/08	38.85	838.66
				11/14/08	39.11	838.40
				05/26/09	38.88	838.63
				11/30/09	39.79	837.72
				06/07/10	38.90	838.61
				12/16/10	39.64	837.87
				12/01/11	39.91	837.60
				05/29/12	40.12	837.39
				12/12/12	40.63	836.88
MW-28				11/03/97	51.77	839.13
TOC = 890.90	4	43-73	A	11/10/98	48.60	842.30
TD = 73				12/27/99	--	--
				09/24/00	50.10	Not re-surveyed
				12/04/00	NG	--
				06/12/01	49.35	--
				09/27/01	49.01	--
				11/06/01	49.21	--
				09/24/02	48.73	--
				11/10/02	48.75	--
				03/28/03	47.69	843.21
				06/15/03	48.37	842.53
				09/26/03	49.16	841.74
				08/17/04	50.90	840.00
				10/16/04	50.86	840.04
				04/15/05	43.16	847.74
				06/27/05	45.71	845.19
				08/16/05	50.88	840.02
				11/13/05	49.68	841.22
				11/14/08	50.85	840.05

APPENDIX B
SUMMARY OF WATER LEVEL DATA AND WELL CONSTRUCTION INFORMATION
JANUARY 1996 - PRESENT
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D., Top of Casing (ft), Total Depth (ft)	Well Diameter (inches)	Screened Interval (feet below top of casing)	Sampling Frequency EPA 8260	Gauging Date	Depth to Water (ft, TOC)	Groundwater Elevation (ft, MSL)
MW-28 (cont'd)				12/16/10	51.00	839.90
				12/01/11	51.26	839.64
				12/12/12	51.93	838.97
MW-29				11/03/97	55.75	811.61
TOC = 867.36	4	35-65	A	11/10/98	50.86	816.50
TD = 65				12/27/99	54.23	813.13
				05/08/00	54.31	813.05
				09/24/00	54.96	812.40
				12/04/00	54.90	812.46
				03/12/01	51.79	815.57
				06/12/01	51.75	815.61
				09/27/01	51.66	815.70
				11/06/01	52.64	814.72
				03/15/02	53.31	814.05
				05/21/02	53.41	813.95
				09/24/02	52.07	815.29
				11/10/02	53.10	814.26
				03/28/03	52.61	814.75
				06/15/03	53.31	814.05
				09/26/03	53.94	813.42
				11/09/03	53.97	813.39
				03/22/04	53.35	814.01
				06/12/04	52.61	814.75
				08/17/04	54.60	812.76
				10/16/04	54.58	812.78
				04/15/05	47.21	820.15
				06/27/05	48.50	818.86
				08/16/05	54.71	812.65
				11/13/05	50.74	816.62
				03/14/06	50.22	817.14
				07/12/06	50.56	816.80
				11/14/08	50.50	816.86
				12/12/12	53.95	813.41
MW-30				01/23/96	43.49	814.62
TOC = 858.11				02/12/96	43.65	814.46
TD = 58	4	28-58	A	03/12/96	42.60	815.51
				04/16/96	42.56	815.55
				05/13/96	42.77	815.34
				06/18/96	43.05	815.06
				07/15/96	43.90	814.21
				08/12/96	43.53	814.58
				09/16/96	41.83	816.28
				10/25/96	43.82	814.29
				11/11/96	44.47	813.64
				02/10/97	40.41	817.70
				05/13/97	43.12	814.99
				08/11/97	44.35	813.76
				12/15/97	44.46	813.65
				02/12/98	40.42	817.69
				05/11/98	39.61	818.50
				08/11/98	39.85	818.26
				11/10/98	40.12	817.99
				04/16/99	38.83	819.28
				06/25/99	42.96	815.15
				12/27/99	44.52	813.59
				05/08/00	44.72	813.39
				09/24/00	45.43	812.68
				12/04/00	45.46	812.65
				03/12/01	43.25	814.86
				06/12/01	42.05	816.06
				09/27/01	43.00	815.11
				11/06/01	43.11	815.00
				03/15/02	43.92	814.19
				05/21/02	44.16	813.95
				09/24/02	44.25	813.86

APPENDIX B
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JANUARY 1996 - PRESENT
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Well I.D., Top of Casing (ft), Total Depth (ft)	Well Diameter (inches)	Screened Interval (feet below top of casing)	Sampling Frequency EPA 8260	Gauging Date	Depth to Water (ft, TOC)	Groundwater Elevation (ft, MSL)
MW-30 (cont'd)				11/10/02	44.26	813.85
				03/28/03	44.10	814.01
				06/15/03	44.60	813.51
				09/26/03	44.70	813.41
				11/09/03	44.74	813.37
				03/22/04	44.16	813.95
				06/12/04	43.83	814.28
				08/17/04	45.62	812.49
				10/16/04	45.59	812.52
				04/15/05	41.16	816.95
				06/27/05	39.20	818.91
				08/16/05	45.59	812.52
				11/13/05	41.70	816.41
				03/14/06	41.22	816.89
				07/12/06	41.89	816.22
				11/04/06	41.77	816.34
				11/03/07	42.61	815.50
				11/14/08	41.53	816.58
				12/16/10	42.05	816.06
				12/01/11	42.65	815.46
				12/12/12	43.51	814.60
MW-31				08/11/98	46.00	818.70
TOC = 864.70				11/10/98	47.97	816.73
TD = 70	4	45-70	A	04/16/99	46.68	818.02
				06/25/99	49.05	815.65
				12/27/99	51.10	813.60
				05/08/00	51.00	813.70
				09/24/00	52.03	812.67
				12/04/00	51.54	813.16
				03/12/01	47.52	817.18
				06/12/01	48.30	816.40
				09/27/01	48.22	816.48
				11/06/01	49.30	815.40
				03/15/02	50.14	814.56
				05/21/02	50.04	814.66
				09/24/02	49.00	815.70
				11/10/02	49.14	815.56
				03/28/03	49.04	815.66
				06/15/03	50.16	814.54
				09/26/03	50.55	814.15
				11/09/03	50.54	814.16
				03/22/04	50.26	814.44
				06/12/04	49.89	814.81
				08/17/04	51.12	813.58
				10/16/04	51.16	813.54
				04/15/05	46.19	818.51
				06/27/05	45.31	819.39
				08/16/05	51.55	813.15
				11/13/05	47.45	817.25
				03/14/06	46.89	817.81
				07/12/06	47.41	817.29
				11/04/06	46.65	818.05
				11/03/07	47.68	817.02
				11/14/08	46.94	817.76
				12/01/11	47.18	817.52
MW-36				11/03/07	31.01	848.27
TOC = 879.28	4	30-40	A	06/29/08	29.46	849.82
TD = 40				11/14/08	31.41	847.87
				05/26/09	31.03	848.25
				11/30/09	31.94	847.34
				06/07/10	28.80	850.48
				12/16/10	29.40	849.88
				06/07/11	27.48	851.80

APPENDIX B
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JANUARY 1996 - PRESENT
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D., Top of Casing (ft), Total Depth (ft)	Well Diameter (inches)	Screened Interval (feet below top of casing)	Sampling Frequency EPA 8260	Gauging Date	Depth to Water (ft, TOC)	Groundwater Elevation (ft, MSL)
MW-36 (cont'd)				12/01/11	30.09	849.19
				05/29/12	36.00	843.28
				12/12/12	30.69	848.59
MW-37				12/28/06	49.98	839.36
TOC = 889.34	4	50-60	A	02/18/07	50.18	839.16
TD = 60				05/12/07	50.14	839.20
				08/24/07	50.50	838.84
				11/03/07	51.64	837.70
				06/29/08	49.82	839.52
				11/14/08	50.82	838.52
				05/26/09	50.47	838.87
				11/30/09	51.26	838.08
				06/07/10	50.20	839.14
				12/16/10	51.12	838.22
				06/07/11	49.70	839.64
				12/01/11	51.51	837.83
				05/29/12	51.62	837.72
				12/12/12	52.38	836.96
MW-38				05/05/11	29.45	852.46
TOC = 881.91	4	40.5-60.5	A	06/07/11	30.55	851.36
TD = 60.5				09/22/11	31.82	850.09
				12/01/11	32.45	849.46
				05/29/12	32.89	849.02
				12/12/12	33.35	848.56

Notes:

1) ft = feet
2) TOC = top of well casing
3) MSL = Mean Sea Level, National Geodetic Vertical Datum of 1929 (NGVD29)
4) -- = data not available.
5) TD = total depth
6) TOC = Top of casing
7) NG = not gauged

APPENDIX C

LABORATORY REPORTS AND CHAINS-OF-CUSTODY

Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-12-0402

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: OTIE

Client Project Name: Raytheon Canoga Park A12 RW

Attention: Kim Sawyer
317 East Main Street
Ventura, CA 93001-2624

Approved for release on 12/13/2012 by:
Virendra Patel
Project Manager

ResultLink

Email your PM

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Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: Raytheon Canoga Park A12 RW
Work Order Number: 12-12-0402

1 Detections Summary 3

2 Client Sample Data 4
2.1 EPA 8260B Volatile Organics (Aqueous) 4

3 Quality Control Sample Data 16
3.1 MS/MSD and/or Duplicate 16
3.2 LCS/LCSD 18

4 Glossary of Terms and Qualifiers 20

5 Chain of Custody/Sample Receipt Form 21

Calscience Environmental Laboratories, Inc.

Client:	OTIE	Work Order:	12-12-0402
	317 East Main Street	Project name:	Raytheon Canoga Park A12 RW
	Ventura, CA 93001-2624	Received:	12/06/12 19:40
Attn:	Kim Sawyer		

DETECTIONS SUMMARY

Client Sample ID Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
RW-04 (12-12-0402-1)						
1,1-Dichloroethene	**3.2**		1.0	ug/L	EPA 8260B	EPA 5030C
Vinyl Chloride	**34**		0.50	ug/L	EPA 8260B	EPA 5030C
RW-06 (12-12-0402-3)						
1,1-Dichloroethene	**14**		1.0	ug/L	EPA 8260B	EPA 5030C
c-1,2-Dichloroethene	**2.0**		1.0	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	**1.5**		1.0	ug/L	EPA 8260B	EPA 5030C
Vinyl Chloride	**2.2**		0.50	ug/L	EPA 8260B	EPA 5030C
RW-16 (12-12-0402-8)						
Vinyl Chloride	**1.4**		0.50	ug/L	EPA 8260B	EPA 5030C
DUP RW 12612 (12-12-0402-9)						
1,1-Dichloroethene	**12**		1.0	ug/L	EPA 8260B	EPA 5030C
c-1,2-Dichloroethene	**1.8**		1.0	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	**1.5**		1.0	ug/L	EPA 8260B	EPA 5030C
Vinyl Chloride	**1.7**		0.50	ug/L	EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

Return to Contents

*MDL is shown.

Calscience Environmental Laboratories, Inc.

Analytical Report

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OTIE		Date Received:	12/06/12
317 East Main Street		Work Order No:	12-12-0402
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L

Project: Raytheon Canoga Park A12 RW

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-04	**12-12-0402-1-A**	**12/06/12 08:30**	**Aqueous**	**GC/MS Z**	**12/07/12**	**12/07/12 19:48**	**121207L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	3.2	1.0	1		Vinyl Chloride	34	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	111	80-126	
1,2-Dichloroethane-d4	107	80-134		Toluene-d8	102	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

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Analytical Report

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/06/12
Work Order No: 12-12-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park A12 RW

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-05	**12-12-0402-2-A**	**12/06/12 09:05**	**Aqueous**	**GC/MS Z**	**12/07/12**	**12/07/12 20:15**	**121207L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	97	80-120			Dibromofluoromethane	112	80-126		
1,2-Dichloroethane-d4	107	80-134			Toluene-d8	101	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	12/06/12
317 East Main Street		Work Order No:	12-12-0402
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L

Project: Raytheon Canoga Park A12 RW

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-06	**12-12-0402-3-A**	**12/06/12 11:10**	**Aqueous**	**GC/MS Z**	**12/07/12**	**12/07/12 20:42**	**121207L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	1.5	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	14	1.0	1		Vinyl Chloride	2.2	0.50	1	
c-1,2-Dichloroethene	2.0	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	107	80-126	
1,2-Dichloroethane-d4	104	80-134		Toluene-d8	102	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

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OTIE		Date Received:	12/06/12
317 East Main Street		Work Order No:	12-12-0402
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L

Project: Raytheon Canoga Park A12 RW

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-07	**12-12-0402-4-A**	**12/06/12 09:20**	**Aqueous**	**GC/MS Z**	**12/07/12**	**12/07/12 21:10**	**121207L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	96	80-120			Dibromofluoromethane	110	80-126		
1,2-Dichloroethane-d4	104	80-134			Toluene-d8	101	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

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OTIE		Date Received:	12/06/12
317 East Main Street		Work Order No:	12-12-0402
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L

Project: Raytheon Canoga Park A12 RW

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-08	**12-12-0402-5-A**	**12/06/12 10:00**	**Aqueous**	**GC/MS Z**	**12/07/12**	**12/07/12 21:38**	**121207L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	97	80-120			Dibromofluoromethane	112	80-126		
1,2-Dichloroethane-d4	106	80-134			Toluene-d8	101	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	12/06/12
317 East Main Street		Work Order No:	12-12-0402
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L

Project: Raytheon Canoga Park A12 RW

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-09	**12-12-0402-6-B**	**12/06/12 10:35**	**Aqueous**	**GC/MS Z**	**12/10/12**	**12/10/12 15:09**	**121210L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	96	80-120			Dibromofluoromethane	101	80-126		
1,2-Dichloroethane-d4	99	80-134			Toluene-d8	100	80-120		

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/06/12
Work Order No: 12-12-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park A12 RW

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-13	**12-12-0402-7-B**	**12/06/12 12:10**	**Aqueous**	**GC/MS Z**	**12/10/12**	**12/10/12 17:23**	**121210L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	96	80-120			Dibromofluoromethane	101	80-126		
1,2-Dichloroethane-d4	98	80-134			Toluene-d8	100	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/06/12
Work Order No: 12-12-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park A12 RW

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-16	**12-12-0402-8-B**	**12/06/12 13:30**	**Aqueous**	**GC/MS Z**	**12/10/12**	**12/10/12 18:17**	**121210L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	1.4	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	96	80-120			Dibromofluoromethane	103	80-126		
1,2-Dichloroethane-d4	103	80-134			Toluene-d8	101	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/06/12
Work Order No: 12-12-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park A12 RW

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DUP RW 12612	**12-12-0402-9-B**	**12/06/12 11:20**	**Aqueous**	**GC/MS Z**	**12/10/12**	**12/10/12 18:44**	**121210L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	1.5	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	12	1.0	1		Vinyl Chloride	1.7	0.50	1	
c-1,2-Dichloroethene	1.8	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	80-120		Dibromofluoromethane	105	80-126	
1,2-Dichloroethane-d4	102	80-134		Toluene-d8	102	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/06/12
Work Order No: 12-12-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park A12 RW

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Trip Blank 12612	**12-12-0402-10-B**	**12/06/12 14:00**	**Aqueous**	**GC/MS Z**	**12/10/12**	**12/10/12 14:42**	**121210L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	98	80-120			Dibromofluoromethane	104	80-126		
1,2-Dichloroethane-d4	101	80-134			Toluene-d8	99	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/06/12
Work Order No: 12-12-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park A12 RW

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-9,571**	**N/A**	**Aqueous**	**GC/MS Z**	**12/07/12**	**12/07/12 13:51**	**121207L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	103	80-126	
1,2-Dichloroethane-d4	103	80-134		Toluene-d8	102	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/06/12
Work Order No: 12-12-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park A12 RW

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-9,600**	**N/A**	**Aqueous**	**GC/MS Z**	**12/10/12**	**12/10/12 14:15**	**121210L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	97	80-120			Dibromofluoromethane	103	80-126		
1,2-Dichloroethane-d4	102	80-134			Toluene-d8	100	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/06/12
Work Order No: 12-12-0402
Preparation: EPA 5030C
Method: EPA 8260B

Project Raytheon Canoga Park A12 RW

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-12-0377-2	**Aqueous**	**GC/MS Z**	**12/07/12**	**12/07/12**	**121207S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	53.43	107	51.66	103	78-120	3	0-20	
Carbon Tetrachloride	ND	50.00	53.58	107	51.56	103	67-139	4	0-20	
Chlorobenzene	ND	50.00	54.59	109	53.19	106	80-120	3	0-20	
1,2-Dibromoethane	ND	50.00	57.30	115	52.86	106	80-123	8	0-20	
1,2-Dichlorobenzene	ND	50.00	55.44	111	55.72	111	76-120	1	0-20	
1,2-Dichloroethane	ND	50.00	53.59	107	51.72	103	76-130	4	0-20	
1,1-Dichloroethene	5.301	50.00	47.18	84	46.02	81	70-130	2	0-27	
Ethylbenzene	ND	50.00	55.11	110	53.63	107	73-127	3	0-20	
Toluene	ND	50.00	55.57	111	55.37	111	72-126	0	0-20	
Trichloroethene	64.18	50.00	114.0	100	111.1	94	74-122	3	0-20	
Vinyl Chloride	ND	50.00	45.52	91	44.65	89	65-131	2	0-24	
p/m-Xylene	ND	100.0	106.1	106	102.6	103	70-130	3	0-30	
o-Xylene	ND	50.00	54.26	109	53.28	107	70-130	2	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	47.77	96	45.25	90	69-123	5	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/06/12
Work Order No: 12-12-0402
Preparation: EPA 5030C
Method: EPA 8260B

Project Raytheon Canoga Park A12 RW

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
RW-09	**Aqueous**	**GC/MS Z**	**12/10/12**	**12/10/12**	**121210S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	48.63	97	49.74	99	78-120	2	0-20	
Carbon Tetrachloride	ND	50.00	50.17	100	52.35	105	67-139	4	0-20	
Chlorobenzene	ND	50.00	49.24	98	50.62	101	80-120	3	0-20	
1,2-Dibromoethane	ND	50.00	51.03	102	51.51	103	80-123	1	0-20	
1,2-Dichlorobenzene	ND	50.00	50.89	102	51.51	103	76-120	1	0-20	
1,2-Dichloroethane	ND	50.00	48.31	97	48.85	98	76-130	1	0-20	
1,1-Dichloroethene	ND	50.00	38.15	76	41.44	83	70-130	8	0-27	
Ethylbenzene	ND	50.00	50.17	100	52.28	105	73-127	4	0-20	
Toluene	ND	50.00	49.96	100	51.66	103	72-126	3	0-20	
Trichloroethene	ND	50.00	50.78	102	51.88	104	74-122	2	0-20	
Vinyl Chloride	ND	50.00	40.35	81	44.47	89	65-131	10	0-24	
p/m-Xylene	ND	100.0	96.14	96	99.20	99	70-130	3	0-30	
o-Xylene	ND	50.00	49.17	98	50.56	101	70-130	3	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	40.80	82	43.57	87	69-123	7	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-12-0402
Preparation: EPA 5030C
Method: EPA 8260B

Project: Raytheon Canoga Park A12 RW

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-9,571	**Aqueous**	**GC/MS Z**	**12/07/12**	**12/07/12**	**121207L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	53.75	108	50.90	102	80-120	73-127	5	0-20	
Carbon Tetrachloride	50.00	56.34	113	51.69	103	66-138	54-150	9	0-20	
Chlorobenzene	50.00	54.86	110	51.73	103	80-120	73-127	6	0-20	
1,2-Dibromoethane	50.00	54.15	108	52.75	106	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	50.00	56.37	113	53.95	108	80-120	73-127	4	0-20	
1,2-Dichloroethane	50.00	51.71	103	52.11	104	80-129	72-137	1	0-20	
1,1-Dichloroethene	50.00	44.98	90	44.65	89	71-131	61-141	1	0-20	
Ethylbenzene	50.00	56.30	113	52.07	104	80-123	73-130	8	0-20	
Toluene	50.00	56.42	113	53.48	107	79-121	72-128	5	0-20	
Trichloroethene	50.00	55.38	111	52.45	105	80-120	73-127	5	0-20	
Vinyl Chloride	50.00	48.14	96	47.71	95	70-136	59-147	1	0-20	
p/m-Xylene	100.0	108.1	108	100.9	101	75-125	67-133	7	0-25	
o-Xylene	50.00	54.80	110	52.06	104	75-125	67-133	5	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	44.01	88	49.44	99	72-126	63-135	12	0-22	

Total number of LCS compounds : 14
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-12-0402
Preparation: EPA 5030C
Method: EPA 8260B

Project: Raytheon Canoga Park A12 RW

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-9,600	**Aqueous**	**GC/MS Z**	**12/10/12**	**12/10/12**	**121210L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	52.20	104	50.25	100	80-120	73-127	4	0-20	
Carbon Tetrachloride	50.00	56.76	114	53.14	106	66-138	54-150	7	0-20	
Chlorobenzene	50.00	51.81	104	51.08	102	80-120	73-127	1	0-20	
1,2-Dibromoethane	50.00	50.80	102	51.74	103	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	50.00	52.00	104	52.10	104	80-120	73-127	0	0-20	
1,2-Dichloroethane	50.00	49.91	100	48.84	98	80-129	72-137	2	0-20	
1,1-Dichloroethene	50.00	44.17	88	40.19	80	71-131	61-141	9	0-20	
Ethylbenzene	50.00	53.35	107	52.40	105	80-123	73-130	2	0-20	
Toluene	50.00	53.91	108	52.15	104	79-121	72-128	3	0-20	
Trichloroethene	50.00	55.19	110	52.81	106	80-120	73-127	4	0-20	
Vinyl Chloride	50.00	47.82	96	44.37	89	70-136	59-147	7	0-20	
p/m-Xylene	100.0	101.7	102	100.3	100	75-125	67-133	1	0-25	
o-Xylene	50.00	51.96	104	50.58	101	75-125	67-133	3	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	43.67	87	42.05	84	72-126	63-135	4	0-22	

Total number of LCS compounds : 14
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 12-12-0402

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
MPN - Most Probable Number

Return to Contents

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: 12-6-12

PAGE: 1 OF 1

LABORATORY CLIENT: OTIE

ADDRESS: 317 E. Main Street, Ventura CA 93001

TEL: 805.585.2110 | FAX: 805.585.2111 | E-MAIL: ksawyer@otie.com

CLIENT PROJECT NAME / NUMBER: Raytheon CANOGA PARK A12 RW

P.O. NO.: 2009.025/0510

PROJECT CONTACT: Kim Sawyer

LAB USE ONLY: 12-12-0402

SAMPLER(S): (SIGNATURE) Bob

COELT LOG CODE: T N A V

COOLER RECEIPT Temp = _____ °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ☐ 5 DAYS ☒ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

☐ RWQCB REPORTING ☒ COELT EDF ☒ SL2043T1572

SPECIAL INSTRUCTIONS

** PEMACO EDD/COELT EDF **

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	EPA 8260B - VOCs	CONTAINER TYPE
1	RW-04	RW-04	12-6-12	0830	GW	3	X	
2	RW-05	RW-05		0905	GW	3	X	
3	RW-06	RW-06		1110	GW	3	X	
4	RW-07	RW-07		0920	GW	3	X	
5	RW-08	RW-08		1000	GW	3	X	
6	RW-09	RW-09		1035	GW	3	X	
7	RW-13	RW-13		1210	GW	3	X	
8	RW-16	RW-16		1330	GW	3	X	
9	DUP RW 12612	DUP		1120	GW	3	X	
10	Trip Blank 2612	QCTB		1400	GW	2	X	

		Date:	Time:
Relinquished by: (Signature) Bob	Received by: (Signature) Barnyle COELT	12/6/12	1700
Relinquished by: (Signature)	Received by: (Signature)	12/6/12	19:40
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

11/14/2012

Return to Contents

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-12-0402

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: OTIE

DATE: 12/6/12

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.4 °C - 0.3 °C (CF) = 2.1 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter **Initial:** _____

CUSTODY SEALS INTACT:

☐ Cooler	☐_____	☐ No (Not Intact)	☑ Not Present	☐ N/A	**Initial:** _____
☐ Sample	☐_____	☐ No (Not Intact)	☐ Not Present		**Initial:** AT

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☑	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:** 121113A **Labeled/Checked by:** AT

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** _____

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** _____

Return to Contents

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-12-0402

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

Comments:

- ☐ **Sample(s) NOT RECEIVED but listed on COC**
- ☐ **Sample(s) received but NOT LISTED on COC**
- ☐ **Holding time expired** – list sample ID(s) and test
- ☐ **Insufficient quantities for analysis** – list test
- ☐ **Improper container(s) used** – list test
- ☐ **Improper preservative used** – list test
- ☐ **No preservative noted on COC or label** – list test & notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☐ **Sample label(s) do not match COC** – Note in comments
  - ☐ **Sample ID**
  - ☐ **Date and/or Time Collected**
  - ☐ **Project Information**
  - ☐ **# of Container(s)**
  - ☐ **Analysis**
- ☐ **Sample container(s) compromised** – Note in comments
  - ☐ **Water present in sample container**
  - ☐ **Broken**
- ☐ **Sample container(s) not labeled**
- ☐ **Air sample container(s) compromised** – Note in comments
  - ☐ **Flat**
  - ☐ **Very low in volume**
  - ☐ **Leaking (Not transferred - duplicate bag submitted)**
  - ☐ **Leaking (transferred into Calscience Tedlar® Bag*)**
  - ☐ **Leaking (transferred into Client's Tedlar® Bag*)**
- ☐ **Other:** _____

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis
2	C	3							

Comments: _____

*Transferred at Client's request.

Initial / Date: NC 12/06/12

Return to Contents

Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-12-0605

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: OTIE

Client Project Name: Raytheon Canoga Park EISB (Ph IV) M36

Attention: Kim Sawyer
317 East Main Street
Ventura, CA 93001-2624

Approved for release on 12/26/2012 by:
Virendra Patel
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: Raytheon Canoga Park EISB (Ph IV) M36
Work Order Number: 12-12-0605

1 Detections Summary 3

2 Client Sample Data 5
2.1 RSK-175M Carbon Dioxide (Aqueous) 5
2.2 RSK-175M Dissolved Gases (Aqueous) 6
2.3 HPLC/UV Organic Acids (Aqueous) 7
2.4 EPA 8260B Volatile Organics (Aqueous) 8
2.5 EPA 200.8 ICP/MS Metals (Aqueous) 15
2.6 Combined Inorganic Tests 16

3 Quality Control Sample Data 18
3.1 MS/MSD and/or Duplicate 18
3.2 LCS/LCSD 28

4 Glossary of Terms and Qualifiers 41

5 Chain of Custody/Sample Receipt Form 42

Calscience Environmental Laboratories, Inc.

Client:	OTIE	Work Order:	12-12-0605
	317 East Main Street	Project name:	Raytheon Canoga Park EISB (Ph IV) M36
	Ventura, CA 93001-2624	Received:	12/10/12 18:00
Attn:	Kim Sawyer		

DETECTIONS SUMMARY

Client Sample ID Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
RW-01 (12-12-0605-1)						
Carbon Dioxide	**39800**		17.0	ug/L	RSK-175M	N/A
Methane	**2.44**		1.00	ug/L	RSK-175M	N/A
Chromium	**0.00702**		0.00100	mg/L	EPA 200.8	Filtered
Calcium	**132**		0.100	mg/L	EPA 200.8	Filtered
Boron	**0.255**		0.0500	mg/L	EPA 200.8	Filtered
Chloride	**280**		5.0	mg/L	EPA 300.0	N/A
Nitrate (as N)	**14**		0.50	mg/L	EPA 300.0	N/A
Sulfate	**220**		5.0	mg/L	EPA 300.0	N/A
Carbon, Total Organic	**28**		2.5	mg/L	SM 5310 D	N/A
Solids, Total Dissolved	**1140**		10.0	mg/L	SM 2540 C	N/A
1,1-Dichloroethane	**2.3**		1.0	ug/L	EPA 8260B	EPA 5030C
1,2-Dichloroethane	**0.64**		0.50	ug/L	EPA 8260B	EPA 5030C
1,1-Dichloroethene	**280**		5.0	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	**3.8**		1.0	ug/L	EPA 8260B	EPA 5030C
Vinyl Chloride	**0.72**		0.50	ug/L	EPA 8260B	EPA 5030C
RW-02 (12-12-0605-2)						
Carbon Dioxide	**58100**		17.0	ug/L	RSK-175M	N/A
Ethane	**3.18**		1.00	ug/L	RSK-175M	N/A
Methane	**3270**		20.0	ug/L	RSK-175M	N/A
Chromium	**0.00283**		0.00100	mg/L	EPA 200.8	Filtered
Calcium	**82.3**		0.100	mg/L	EPA 200.8	Filtered
Iron	**0.819**		0.0500	mg/L	EPA 200.8	Filtered
Boron	**5.10**		0.0500	mg/L	EPA 200.8	Filtered
Chloride	**760**		10	mg/L	EPA 300.0	N/A
Sulfate	**1.1**		1.0	mg/L	EPA 300.0	N/A
Iron (II)	**0.273**		0.100	mg/L	SM 3500-FeB	N/A
Carbon, Total Organic	**23**		2.5	mg/L	SM 5310 D	N/A
Solids, Total Dissolved	**1500**		10.0	mg/L	SM 2540 C	N/A

Return to Contents

*MDL is shown.

Calscience Environmental Laboratories, Inc.

Client:	OTIE	Work Order:	12-12-0605
	317 East Main Street	Project name:	Raytheon Canoga Park EISB (Ph IV) M36
	Ventura, CA 93001-2624	Received:	12/10/12 18:00
Attn:	Kim Sawyer		

DETECTIONS SUMMARY

Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
RW-10 (12-12-0605-3)						
Carbon Dioxide	**137000**		68.0	ug/L	RSK-175M	N/A
Methane	**1700**		8.00	ug/L	RSK-175M	N/A
Chromium	**0.00106**		0.00100	mg/L	EPA 200.8	Filtered
Calcium	**135**		0.100	mg/L	EPA 200.8	Filtered
Iron	**0.295**		0.0500	mg/L	EPA 200.8	Filtered
Boron	**0.413**		0.0500	mg/L	EPA 200.8	Filtered
Chloride	**290**		5.0	mg/L	EPA 300.0	N/A
Sulfate	**21**		1.0	mg/L	EPA 300.0	N/A
Iron (II)	**0.282**		0.100	mg/L	SM 3500-FeB	N/A
Carbon, Total Organic	**66**		2.5	mg/L	SM 5310 D	N/A
Solids, Total Dissolved	**1150**		10.0	mg/L	SM 2540 C	N/A
Vinyl Chloride	**63**		0.50	ug/L	EPA 8260B	EPA 5030C
DUP-NW121012 (12-12-0605-4)						
1,1-Dichloroethane	**2.4**		1.0	ug/L	EPA 8260B	EPA 5030C
1,2-Dichloroethane	**0.88**		0.50	ug/L	EPA 8260B	EPA 5030C
1,1-Dichloroethene	**270**		5.0	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	**4.4**		1.0	ug/L	EPA 8260B	EPA 5030C
Vinyl Chloride	**1.2**		0.50	ug/L	EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

*MDL is shown.

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0605
Preparation: N/A
Method: RSK-175M

Project: Raytheon Canoga Park EISB (Ph IV) M36

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-01	**12-12-0605-1-H**	**12/10/12 08:00**	**Aqueous**	**GC 14**	**N/A**	**12/12/12 12:21**	**121211L01**

Parameter	Result	RL	DF	Qual	Units
Carbon Dioxide	39800	17.0	10		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-02	**12-12-0605-2-H**	**12/10/12 09:15**	**Aqueous**	**GC 14**	**N/A**	**12/12/12 12:41**	**121211L01**

Parameter	Result	RL	DF	Qual	Units
Carbon Dioxide	58100	17.0	10		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-10	**12-12-0605-3-H**	**12/10/12 10:35**	**Aqueous**	**GC 14**	**N/A**	**12/12/12 15:38**	**121211L01**

Parameter	Result	RL	DF	Qual	Units
Carbon Dioxide	137000	68.0	40		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-659-469**	**N/A**	**Aqueous**	**GC 14**	**N/A**	**12/11/12 18:22**	**121211L01**

Parameter	Result	RL	DF	Qual	Units
Carbon Dioxide	ND	1.70	1		ug/L

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	12/10/12
317 East Main Street		Work Order No:	12-12-0605
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	RSK-175M
		Units:	ug/L

Project: Raytheon Canoga Park EISB (Ph IV) M36 —

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-01	**12-12-0605-1-D**	**12/10/12 08:00**	**Aqueous**	**GC 61**	**N/A**	**12/11/12 12:01**	**121211L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	2.44	1.00	1	
Ethylene	ND	1.00	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-02	**12-12-0605-2-D**	**12/10/12 09:15**	**Aqueous**	**GC 61**	**N/A**	**12/11/12 12:30**	**121211L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	3.18	1.00	1		Methane	3270	20.0	20	
Ethylene	ND	1.00	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-10	**12-12-0605-3-D**	**12/10/12 10:35**	**Aqueous**	**GC 61**	**N/A**	**12/11/12 12:58**	**121211L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	1700	8.00	8	
Ethylene	ND	1.00	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-661-688**	**N/A**	**Aqueous**	**GC 61**	**N/A**	**12/11/12 11:30**	**121211L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	ND	1.00	1	
Ethylene	ND	1.00	1						

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0605
Preparation: N/A
Method: HPLC/UV
Units: mg/L

Project: Raytheon Canoga Park EISB (Ph IV) M36

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-01	**12-12-0605-1-G**	**12/10/12 08:00**	**Aqueous**	**HPLC 6**	**N/A**	**12/13/12 00:41**	**121212L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	4.0	1		Propionic Acid	ND	4.0	1	
Butyric Acid	ND	4.0	1		Pyruvic Acid	ND	0.50	1	
Lactic Acid	ND	4.0	1						

Surrogates:	REC (%)	Control Limits	Qual
Dibromopropionic Acid	95	80-120	

RW-02	**12-12-0605-2-G**	**12/10/12 09:15**	**Aqueous**	**HPLC 6**	**N/A**	**12/13/12 01:04**	**121212L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	4.0	1		Propionic Acid	ND	4.0	1	
Butyric Acid	ND	4.0	1		Pyruvic Acid	ND	0.50	1	
Lactic Acid	ND	4.0	1						

Surrogates:	REC (%)	Control Limits	Qual
Dibromopropionic Acid	91	80-120	

RW-10	**12-12-0605-3-G**	**12/10/12 10:35**	**Aqueous**	**HPLC 6**	**N/A**	**12/13/12 01:27**	**121212L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	4.0	1		Propionic Acid	ND	4.0	1	
Butyric Acid	ND	4.0	1		Pyruvic Acid	ND	0.50	1	
Lactic Acid	ND	4.0	1						

Surrogates:	REC (%)	Control Limits	Qual
Dibromopropionic Acid	91	80-120	

Method Blank	**099-12-016-356**	**N/A**	**Aqueous**	**HPLC 6**	**N/A**	**12/12/12 16:59**	**121212L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	4.0	1		Propionic Acid	ND	4.0	1	
Butyric Acid	ND	4.0	1		Pyruvic Acid	ND	0.50	1	
Lactic Acid	ND	4.0	1						

Surrogates:	REC (%)	Control Limits	Qual
Dibromopropionic Acid	100	80-120	

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0605
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park EISB (Ph IV) M36

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-01	**12-12-0605-1-A**	**12/10/12 08:00**	**Aqueous**	**GC/MS JJ**	**12/12/12**	**12/12/12 18:17**	**121212L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	3.8	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	2.3	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	0.64	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	280	5.0	5		Vinyl Chloride	0.72	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	91	80-120			Dibromofluoromethane	97	80-126		
1,2-Dichloroethane-d4	98	80-134			Toluene-d8	94	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0605
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park EISB (Ph IV) M36

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-02	**12-12-0605-2-A**	**12/10/12 09:15**	**Aqueous**	**GC/MS JJ**	**12/12/12**	**12/12/12 18:47**	**121212L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	92	80-120			Dibromofluoromethane	99	80-126		
1,2-Dichloroethane-d4	103	80-134			Toluene-d8	97	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0605
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park EISB (Ph IV) M36

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-10	**12-12-0605-3-B**	**12/10/12 10:35**	**Aqueous**	**GC/MS Z**	**12/13/12**	**12/13/12 17:19**	**121213L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	63	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	98	80-120		Dibromofluoromethane	97	80-126	
1,2-Dichloroethane-d4	97	80-134		Toluene-d8	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0605
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park EISB (Ph IV) M36

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DUP-NW121012	**12-12-0605-4-A**	**12/10/12 08:30**	**Aqueous**	**GC/MS JJ**	**12/12/12**	**12/12/12 19:47**	**121212L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	4.4	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	2.4	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	0.88	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	270	5.0	5		Vinyl Chloride	1.2	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	92	80-120			Dibromofluoromethane	99	80-126		
1,2-Dichloroethane-d4	107	80-134			Toluene-d8	96	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0605
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park EISB (Ph IV) M36

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FB3121012	**12-12-0605-5-A**	**12/10/12 13:00**	**Aqueous**	**GC/MS JJ**	**12/12/12**	**12/12/12 20:18**	**121212L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	92	80-120			Dibromofluoromethane	100	80-126		
1,2-Dichloroethane-d4	108	80-134			Toluene-d8	96	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0605
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park EISB (Ph IV) M36

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-9,620**	**N/A**	**Aqueous**	**GC/MS JJ**	**12/12/12**	**12/12/12 12:17**	**121212L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	92	80-120		Dibromofluoromethane	106	80-126	
1,2-Dichloroethane-d4	109	80-134		Toluene-d8	97	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0605
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park EISB (Ph IV) M36

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-9,635**	**N/A**	**Aqueous**	**GC/MS Z**	**12/13/12**	**12/13/12 12:19**	**121213L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	96	80-120			Dibromofluoromethane	106	80-126		
1,2-Dichloroethane-d4	106	80-134			Toluene-d8	101	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0605
Preparation: Filtered
Method: EPA 200.8
Units: mg/L

Project: Raytheon Canoga Park EISB (Ph IV) M36

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-01	**12-12-0605-1-K**	**12/10/12 08:00**	**Aqueous**	**ICP/MS 04**	**12/11/12**	**12/11/12 17:01**	**121211L02A**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Chromium	0.00702	0.00100	1		Iron	ND	0.0500	1	
Calcium	132	0.100	1		Boron	0.255	0.0500	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-02	**12-12-0605-2-K**	**12/10/12 09:15**	**Aqueous**	**ICP/MS 04**	**12/11/12**	**12/11/12 17:05**	**121211L02A**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Chromium	0.00283	0.00100	1		Iron	0.819	0.0500	1	
Calcium	82.3	0.100	1		Boron	5.10	0.0500	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-10	**12-12-0605-3-K**	**12/10/12 10:35**	**Aqueous**	**ICP/MS 04**	**12/11/12**	**12/11/12 17:09**	**121211L02A**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Chromium	0.00106	0.00100	1		Iron	0.295	0.0500	1	
Calcium	135	0.100	1		Boron	0.413	0.0500	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-008-2,087**	**N/A**	**Aqueous**	**ICP/MS 04**	**12/11/12**	**12/11/12 15:53**	**121211L02A**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Chromium	ND	0.00100	1		Iron	ND	0.0500	1	
Calcium	ND	0.100	1		Boron	ND	0.0500	1	

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0605

Project: Raytheon Canoga Park EISB (Ph IV) M36

Client Sample Number	Lab Sample Number	Date Collected	Matrix
RW-01	**12-12-0605-1**	**12/10/12**	**Aqueous**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	280	5.0	5		mg/L	N/A	12/12/12	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Nitrate (as N)	14	0.50	5		mg/L	N/A	12/12/12	EPA 300.0
Sulfate	220	5.0	5		mg/L	N/A	12/12/12	EPA 300.0
Chromium, Hexavalent	ND	1.0	1		ug/L	N/A	12/10/12	EPA 7199
Solids, Total Dissolved	1140	10.0	1		mg/L	12/11/12	12/11/12	SM 2540 C
Iron (II)	ND	0.100	1		mg/L	12/10/12	12/10/12	SM 3500-FeB
Carbon, Total Organic	28	2.5	5		mg/L	12/11/12	12/11/12	SM 5310 D

RW-02	**12-12-0605-2**	**12/10/12**	**Aqueous**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	760	10	10		mg/L	N/A	12/13/12	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Sulfate	1.1	1.0	1		mg/L	N/A	12/11/12	EPA 300.0
Chromium, Hexavalent	ND	1.0	1		ug/L	N/A	12/10/12	EPA 7199
Solids, Total Dissolved	1500	10.0	1		mg/L	12/11/12	12/11/12	SM 2540 C
Iron (II)	0.273	0.100	1		mg/L	12/10/12	12/10/12	SM 3500-FeB
Carbon, Total Organic	23	2.5	5		mg/L	12/11/12	12/11/12	SM 5310 D

RW-10	**12-12-0605-3**	**12/10/12**	**Aqueous**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	290	5.0	5		mg/L	N/A	12/13/12	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Sulfate	21	1.0	1		mg/L	N/A	12/11/12	EPA 300.0
Chromium, Hexavalent	ND	1.0	1		ug/L	N/A	12/10/12	EPA 7199
Solids, Total Dissolved	1150	10.0	1		mg/L	12/11/12	12/11/12	SM 2540 C
Iron (II)	0.282	0.100	1		mg/L	12/10/12	12/10/12	SM 3500-FeB
Carbon, Total Organic	66	2.5	5		mg/L	12/11/12	12/11/12	SM 5310 D

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0605

Project: Raytheon Canoga Park EISB (Ph IV) M36

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Method Blank		**N/A**	**Aqueous**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	ND	1.0	1		mg/L	N/A	12/11/12	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Sulfate	ND	1.0	1		mg/L	N/A	12/11/12	EPA 300.0
Chloride	ND	1.0	1		mg/L	N/A	12/11/12	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Sulfate	ND	1.0	1		mg/L	N/A	12/11/12	EPA 300.0
Chloride	ND	1.0	1		mg/L	N/A	12/13/12	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	12/13/12	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	12/13/12	EPA 300.0
Sulfate	ND	1.0	1		mg/L	N/A	12/13/12	EPA 300.0
Chromium, Hexavalent	ND	1.0	1		ug/L	N/A	12/10/12	EPA 7199
Solids, Total Dissolved	ND	1.0	1		mg/L	12/11/12	12/11/12	SM 2540 C
Iron (II)	ND	0.100	1		mg/L	12/10/12	12/10/12	SM 3500-FeB
Carbon, Total Organic	ND	0.50	1		mg/L	12/11/12	12/11/12	SM 5310 D

Return to Contents

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Quality Control - Spike/Spike Duplicate

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0605
Preparation: Filtered
Method: EPA 200.8

Project Raytheon Canoga Park EISB (Ph IV) M36

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-12-0492-1	**Aqueous**	**ICP/MS 04**	**12/11/12**	**12/11/12**	**121211S02**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	ND	0.1000	0.1010	101	0.09882	99	80-120	2	0-20	
Barium	0.2023	0.1000	0.2992	97	0.3065	104	80-120	2	0-10	
Cadmium	ND	0.1000	0.09666	97	0.09848	98	80-120	2	0-20	
Chromium	0.007239	0.1000	0.1043	97	0.1040	97	80-120	0	0-20	
Copper	ND	0.1000	0.1043	104	0.1022	102	80-120	2	0-20	
Lead	ND	0.1000	0.1017	102	0.1018	102	80-120	0	0-20	
Selenium	ND	0.1000	0.09329	93	0.09338	93	80-120	0	0-20	
Zinc	0.006836	0.1000	0.1157	109	0.1142	107	80-120	1	0-20	
Calcium	94.20	5.000	95.42	4X	95.36	4X	80-120	4X	0-20	Q
Iron	ND	0.1000	0.1173	117	0.1098	110	80-120	7	0-20	
Magnesium	21.63	5.000	21.80	4X	22.16	4X	80-120	4X	0-20	Q
Manganese	ND	0.1000	0.09538	95	0.09405	94	80-120	1	0-20	
Potassium	3.888	1.000	4.812	92	4.813	92	80-120	0	0-20	
Sodium	30.50	1.000	31.75	4X	31.70	4X	80-120	4X	0-20	Q
Boron	0.2334	0.1000	0.3280	95	0.3401	107	80-120	4	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

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Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0605
Preparation: N/A
Method: EPA 7199

Project Raytheon Canoga Park EISB (Ph IV) M36

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-12-0606-1	**Aqueous**	**IC 14**	**N/A**	**12/10/12**	**121210S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	2.7	50	53	102	53	101	70-130	0	0-25	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

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Date Received: 12/10/12
Work Order No: 12-12-0605
Preparation: N/A
Method: EPA 300.0

Project Raytheon Canoga Park EISB (Ph IV) M36

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-12-0592-1	**Aqueous**	**IC 7**	**N/A**	**12/11/12**	**121211S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chloride	31	5000	5300	105	5300	105	80-120	0	0-20	
Nitrite (as N)	ND	250	270	109	270	109	80-120	1	0-20	
Bromide	0.36	500	520	105	520	104	80-120	1	0-20	
Nitrate (as N)	3.2	500	520	102	520	103	80-120	1	0-20	
o-Phosphate (as P)	0.14	250	260	103	230	92	80-120	11	0-20	
Sulfate	85	5000	5200	103	5400	106	80-120	2	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

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317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0605
Preparation: N/A
Method: EPA 300.0

Project Raytheon Canoga Park EISB (Ph IV) M36

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-12-0681-1	**Aqueous**	**IC 7**	**N/A**	**12/12/12**	**121211S02**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chloride	39	5000	5300	106	5400	107	80-120	1	0-20	
Nitrate (as N)	18	500	520	100	530	103	80-120	2	0-20	
Sulfate	71	5000	5300	105	5400	106	80-120	1	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

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Quality Control - Spike/Spike Duplicate

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0605
Preparation: N/A
Method: EPA 300.0

Project Raytheon Canoga Park EISB (Ph IV) M36

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-12-0779-1	**Aqueous**	**IC 7**	**N/A**	**12/13/12**	**121213S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chloride	14	5000	5200	103	5100	103	80-120	0	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0605
Preparation: N/A
Method: SM 3500-FeB

Project Raytheon Canoga Park EISB (Ph IV) M36

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-12-0606-3	**Aqueous**	**UV 2**	**12/10/12**	**12/10/12**	**C1210FES1**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Iron (II)	ND	1.00	0.980	98	0.960	96	70-130	2	0-25	

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RPD - Relative Percent Difference , CL - Control Limit

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Quality Control - Spike/Spike Duplicate

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0605
Preparation: N/A
Method: SM 5310 D

Project Raytheon Canoga Park EISB (Ph IV) M36

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-12-0606-2	**Aqueous**	**TOC 6**	**12/11/12**	**12/11/12**	**C1211TOCS1**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	40	25	70	117	68	109	28-148	3	0-23	

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RPD - Relative Percent Difference , CL - Control Limit

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Quality Control - Spike/Spike Duplicate

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0605
Preparation: N/A
Method: HPLC/UV

Project Raytheon Canoga Park EISB (Ph IV) M36

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-12-0464-1	**Aqueous**	**HPLC 6**	**N/A**	**12/12/12**	**121212S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	ND	20.00	15.68	78	16.08	80	70-130	3	0-30	
Butyric Acid	ND	20.00	20.13	101	20.05	100	70-130	0	0-30	
Lactic Acid	ND	20.00	15.86	79	16.05	80	70-130	1	0-30	
Propionic Acid	ND	20.00	18.83	94	18.63	93	70-130	1	0-30	
Pyruvic Acid	ND	2.000	2.020	101	2.000	100	70-130	1	0-30	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0605
Preparation: EPA 5030C
Method: EPA 8260B

Project Raytheon Canoga Park EISB (Ph IV) M36

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-12-0583-10	**Aqueous**	**GC/MS JJ**	**12/12/12**	**12/12/12**	**121212S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	47.11	94	49.97	100	78-120	6	0-20	
Carbon Tetrachloride	ND	50.00	46.92	94	50.01	100	67-139	6	0-20	
Chlorobenzene	ND	50.00	48.80	98	48.41	97	80-120	1	0-20	
1,2-Dibromoethane	ND	50.00	51.20	102	51.45	103	80-123	0	0-20	
1,2-Dichlorobenzene	ND	50.00	49.42	99	51.56	103	76-120	4	0-20	
1,2-Dichloroethane	ND	50.00	47.61	95	49.32	99	76-130	4	0-20	
1,1-Dichloroethene	ND	50.00	38.42	77	40.66	81	70-130	6	0-27	
Ethylbenzene	ND	50.00	52.02	104	51.37	103	73-127	1	0-20	
Toluene	ND	50.00	48.60	97	50.40	101	72-126	4	0-20	
Trichloroethene	ND	50.00	47.31	95	48.67	97	74-122	3	0-20	
Vinyl Chloride	ND	50.00	44.57	89	50.12	100	65-131	12	0-24	
p/m-Xylene	ND	100.0	106.4	106	105.3	105	70-130	1	0-30	
o-Xylene	ND	50.00	54.42	109	54.24	108	70-130	0	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	42.53	85	46.17	92	69-123	8	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0605
Preparation: EPA 5030C
Method: EPA 8260B

Project Raytheon Canoga Park EISB (Ph IV) M36

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-12-0590-5	**Aqueous**	**GC/MS Z**	**12/13/12**	**12/13/12**	**121213S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	50.37	101	49.11	98	78-120	3	0-20	
Carbon Tetrachloride	ND	50.00	52.59	105	51.64	103	67-139	2	0-20	
Chlorobenzene	ND	50.00	49.31	99	48.35	97	80-120	2	0-20	
1,2-Dibromoethane	ND	50.00	51.02	102	51.10	102	80-123	0	0-20	
1,2-Dichlorobenzene	ND	50.00	50.25	100	51.21	102	76-120	2	0-20	
1,2-Dichloroethane	ND	50.00	49.42	99	48.80	98	76-130	1	0-20	
1,1-Dichloroethene	ND	50.00	41.56	83	39.92	80	70-130	4	0-27	
Ethylbenzene	ND	50.00	50.72	101	49.32	99	73-127	3	0-20	
Toluene	ND	50.00	51.47	103	50.50	101	72-126	2	0-20	
Trichloroethene	ND	50.00	51.16	102	50.88	102	74-122	1	0-20	
Vinyl Chloride	ND	50.00	47.37	95	44.84	90	65-131	5	0-24	
p/m-Xylene	ND	100.0	97.01	97	94.28	94	70-130	3	0-30	
o-Xylene	ND	50.00	50.05	100	48.96	98	70-130	2	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	42.12	84	42.05	84	69-123	0	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-12-0605
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	RSK-175M

Project: Raytheon Canoga Park EISB (Ph IV) M36

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-659-469	**Aqueous**	**GC 14**	**N/A**	**12/11/12**	**121211L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Carbon Dioxide	102.0	92.69	91	92.78	91	80-120	0	0-20	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-12-0605
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	RSK-175M

Project: Raytheon Canoga Park EISB (Ph IV) M36

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-661-688	**Aqueous**	**GC 61**	**N/A**	**12/11/12**	**121211L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Ethane	99.60	96.38	97	96.10	96	80-120	0	0-20	
Ethylene	103.0	109.9	107	109.5	106	80-120	0	0-20	
Methane	98.50	97.80	99	97.20	99	80-120	1	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-12-0605
Preparation: Filtered
Method: EPA 200.8

Project: Raytheon Canoga Park EISB (Ph IV) M36

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-008-2,087	**Aqueous**	**ICP/MS 04**	**12/11/12**	**12/11/12**	**121211L02A**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Arsenic	0.1000	0.1008	101	0.1014	101	80-120	73-127	1	0-20	
Barium	0.1000	0.1011	101	0.1050	105	80-120	73-127	4	0-20	
Cadmium	0.1000	0.1023	102	0.1029	103	80-120	73-127	1	0-20	
Chromium	0.1000	0.09917	99	0.09914	99	80-120	73-127	0	0-20	
Copper	0.1000	0.1070	107	0.1063	106	80-120	73-127	1	0-20	
Lead	0.1000	0.09896	99	0.09895	99	80-120	73-127	0	0-20	
Selenium	0.1000	0.1020	102	0.1048	105	80-120	73-127	3	0-20	
Zinc	0.1000	0.1020	102	0.1018	102	80-120	73-127	0	0-20	
Calcium	5.000	4.909	98	4.902	98	80-120	73-127	0	0-20	
Iron	0.1000	0.1026	103	0.09747	97	80-120	73-127	5	0-20	
Magnesium	5.000	4.959	99	4.857	97	80-120	73-127	2	0-20	
Manganese	0.1000	0.09515	95	0.09446	94	80-120	73-127	1	0-20	
Potassium	1.000	0.9693	97	0.9765	98	80-120	73-127	1	0-20	
Sodium	1.000	1.010	101	1.012	101	80-120	73-127	0	0-20	
Boron	0.1000	0.1053	105	0.1022	102	80-120	73-127	3	0-20	

Total number of LCS compounds : 15
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-12-0605
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	EPA 7199

Project: Raytheon Canoga Park EISB (Ph IV) M36

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-123-3,245	**Aqueous**	**IC 14**	**N/A**	**12/10/12**	**121210L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	50	51	102	51	102	80-120	0	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-12-0605
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	EPA 300.0

Project: Raytheon Canoga Park EISB (Ph IV) M36

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-906-3,240	**Aqueous**	**IC 7**	**N/A**	**12/11/12**	**121211L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chloride	50	53	107	53	107	90-110	0	0-15	
Nitrite (as N)	2.5	2.6	104	2.5	102	90-110	2	0-15	
Bromide	5.0	5.2	105	5.3	105	90-110	1	0-15	
Nitrate (as N)	5.0	5.4	108	5.4	108	90-110	1	0-15	
o-Phosphate (as P)	2.5	2.6	104	2.5	100	90-110	4	0-15	
Sulfate	50	52	104	53	106	90-110	2	0-15	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-12-0605
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	EPA 300.0

Project: Raytheon Canoga Park EISB (Ph IV) M36

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-906-3,242	**Aqueous**	**IC 7**	**N/A**	**12/11/12**	**121211L02**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chloride	50	53	106	52	105	90-110	1	0-15	
Nitrite (as N)	2.5	2.5	102	2.5	101	90-110	1	0-15	
Bromide	5.0	5.3	106	5.2	104	90-110	2	0-15	
Nitrate (as N)	5.0	5.4	107	5.3	106	90-110	1	0-15	
o-Phosphate (as P)	2.5	2.5	99	2.7	109	90-110	9	0-15	
Sulfate	50	52	104	51	102	90-110	1	0-15	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-12-0605
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	EPA 300.0

Project: Raytheon Canoga Park EISB (Ph IV) M36

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-906-3,244	**Aqueous**	**IC 7**	**N/A**	**12/13/12**	**121213L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chloride	50	50	100	50	101	90-110	0	0-15	
Nitrite (as N)	2.5	2.6	105	2.6	104	90-110	0	0-15	
Bromide	5.0	5.0	101	5.0	101	90-110	0	0-15	
Nitrate (as N)	5.0	4.9	99	4.9	99	90-110	0	0-15	
o-Phosphate (as P)	2.5	2.4	96	2.4	96	90-110	1	0-15	
Sulfate	50	49	98	49	98	90-110	0	0-15	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-12-0605
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	SM 3500-FeB

Project: Raytheon Canoga Park EISB (Ph IV) M36

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-111-4,497	**Aqueous**	**UV 2**	**12/10/12**	**12/10/12**	**C1210FEL1**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Iron (II)	1.00	0.940	94	0.950	95	80-120	1	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE	Date Received:	N/A
317 East Main Street	Work Order No:	12-12-0605
Ventura, CA 93001-2624	Preparation:	N/A
	Method:	SM 5310 D

Project: Raytheon Canoga Park EISB (Ph IV) M36

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-097-4,775	**Aqueous**	**TOC 6**	**12/11/12**	**12/11/12**	**C1211TOCL1**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	5.0	5.0	99	5.0	101	77-125	1	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-12-0605
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	SM 2540 C

Project: Raytheon Canoga Park EISB (Ph IV) M36

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-180-3,487	**Aqueous**	**N/A**	**12/11/12**	**12/11/12**	**C1211TDSL1**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	100	95	95	90	90	80-120	5	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-12-0605
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	HPLC/UV

Project: Raytheon Canoga Park EISB (Ph IV) M36

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-016-356	**Aqueous**	**HPLC 6**	**N/A**	**12/12/12**	**121212L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	20.00	18.78	94	18.80	94	80-120	0	0-20	
Butyric Acid	20.00	19.52	98	19.65	98	80-120	1	0-20	
Lactic Acid	20.00	18.34	92	18.59	93	80-120	1	0-20	
Propionic Acid	20.00	18.61	93	19.03	95	80-120	2	0-20	
Pyruvic Acid	2.000	1.830	92	1.800	90	80-120	2	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-12-0605
Preparation: EPA 5030C
Method: EPA 8260B

Project: Raytheon Canoga Park EISB (Ph IV) M36

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-9,620	**Aqueous**	**GC/MS JJ**	**12/12/12**	**12/12/12**	**121212L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	52.60	105	48.48	97	80-120	73-127	8	0-20	
Carbon Tetrachloride	50.00	51.69	103	46.68	93	66-138	54-150	10	0-20	
Chlorobenzene	50.00	52.62	105	48.09	96	80-120	73-127	9	0-20	
1,2-Dibromoethane	50.00	56.53	113	51.50	103	80-120	73-127	9	0-20	
1,2-Dichlorobenzene	50.00	55.03	110	50.06	100	80-120	73-127	9	0-20	
1,2-Dichloroethane	50.00	52.73	105	47.93	96	80-129	72-137	10	0-20	
1,1-Dichloroethene	50.00	42.68	85	39.43	79	71-131	61-141	8	0-20	
Ethylbenzene	50.00	55.98	112	50.70	101	80-123	73-130	10	0-20	
Toluene	50.00	54.51	109	49.36	99	79-121	72-128	10	0-20	
Trichloroethene	50.00	52.26	105	47.59	95	80-120	73-127	9	0-20	
Vinyl Chloride	50.00	52.22	104	48.81	98	70-136	59-147	7	0-20	
p/m-Xylene	100.0	115.2	115	104.8	105	75-125	67-133	10	0-25	
o-Xylene	50.00	60.27	121	53.31	107	75-125	67-133	12	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	47.69	95	44.49	89	72-126	63-135	7	0-22	

Total number of LCS compounds : 14
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-12-0605
Preparation: EPA 5030C
Method: EPA 8260B

Project: Raytheon Canoga Park EISB (Ph IV) M36

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-9,635	**Aqueous**	**GC/MS Z**	**12/13/12**	**12/13/12**	**121213L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	50.85	102	49.97	100	80-120	73-127	2	0-20	
Carbon Tetrachloride	50.00	52.53	105	51.98	104	66-138	54-150	1	0-20	
Chlorobenzene	50.00	50.43	101	49.64	99	80-120	73-127	2	0-20	
1,2-Dibromoethane	50.00	51.53	103	52.19	104	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	50.00	51.90	104	51.25	103	80-120	73-127	1	0-20	
1,2-Dichloroethane	50.00	50.34	101	50.42	101	80-129	72-137	0	0-20	
1,1-Dichloroethene	50.00	42.98	86	41.94	84	71-131	61-141	2	0-20	
Ethylbenzene	50.00	51.42	103	50.42	101	80-123	73-130	2	0-20	
Toluene	50.00	51.89	104	51.48	103	79-121	72-128	1	0-20	
Trichloroethene	50.00	52.12	104	51.67	103	80-120	73-127	1	0-20	
Vinyl Chloride	50.00	50.30	101	47.50	95	70-136	59-147	6	0-20	
p/m-Xylene	100.0	99.89	100	96.89	97	75-125	67-133	3	0-25	
o-Xylene	50.00	51.00	102	49.89	100	75-125	67-133	2	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	44.32	89	45.03	90	72-126	63-135	2	0-22	

Total number of LCS compounds : 14
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 12-12-0605

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
MPN - Most Probable Number

Return to Contents

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE:

PAGE: 1 OF 1

LABORATORY CLIENT: OTIE

ADDRESS: 317 E. Main Street, Ventura CA 93001

TEL: 805.585.2110 | FAX: 805.585.2111 | E-MAIL: ksawyer@otie.com

CLIENT PROJECT NAME / NUMBER: Raytheon CANOGA PARK EISB (Ph IV) M36

P.O. NO.: 2009.025/0610

PROJECT CONTACT: Kim Sawyer

LAB USE ONLY: 12-12-0605

SAMPLER(S): (SIGNATURE)

COELT LOG CODE: T N A V

COOLER RECEIPT Temp = °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ☐ 5 DAYS ☒ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING ☒ COELT EDF ☒ WDR 100000974

SPECIAL INSTRUCTIONS

Field Filtered for 200.8 (distilled water)
** OTIE SPECFIC EDDs **
TB broke Field blanks enclosed

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	EPA 8260B - VOCs	HPLC/UV - VFAs (Organic Acids)	RSK-175M - Methane,Ethane,Ethene	RSK-175M - Carbon Dioxide	EPA 300.0 - Cl, NO2,NO3,SO4	SM 3500-FeB - Ferrous Iron	SM2540C - TDS	SM5310C - TOC	EPA 7199 - Hexavalent Chromium	EPA 200.8 - B,Ca,Cr,Fe			CONTAINER TYPE
1	RW-01	RW-01	12/10/12	0800	GW	14	X	X	X	X	X	X	X	X	X	X			
2	RW-02	RW-02		0915	GW	14	X	X	X	X	X	X	X	X	X	X			
3	RW-10	RW-10		1035	GW	14	X	X	X	X	X	X	X	X	X	X			
4	DUP-NW12102	DUP		0830	GW	3	X												
	~~TB3~~	~~QCTB~~			~~GW~~	~~2~~	~~X~~												
5	FB3 12102	QCFB		1300	TB	2	X												

Relinquished by: (Signature)	Received by: (Signature) CEL	Date: 12/10/12	Time: 1800
Relinquished by: (Signature)	Received by: (Signature) CEL	Date: 12/10/12	Time: 1800
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

11/15/2012

Return to Contents

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-12-0605

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: OTie DATE: 12/10/12

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.7 °C - 0.3 °C (CF) = 2.4 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter **Initial:** _____

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** _____

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** MS

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☑ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☐	☑	☐
Sample container label(s) consistent with COC	☑	☑	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☑VOA ☑VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☑250AGB ☐250CGB ☑250CGB**s** ☑1PB ☐1PB**na** ☑500PB

☐250PB ☑250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** MS/MS

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** _____

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** _____

Return to Contents

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-12-0605

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

Comments:

- ☐ **Sample(s) NOT RECEIVED but listed on COC**
- ☐ **Sample(s) received but NOT LISTED on COC**
- ☐ **Holding time expired** – list sample ID(s) and test
- ☐ **Insufficient quantities for analysis** – list test
- ☐ **Improper container(s) used** – list test
- ☐ **Improper preservative used** – list test
- ☐ **No preservative noted on COC or label** – list test & notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☐ **Sample label(s) do not match COC** – Note in comments
  - ☐ **Sample ID**
  - ☐ **Date and/or Time Collected**
  - ☐ **Project Information**
  - ☐ **# of Container(s)**
  - ☐ **Analysis**
- ☐ **Sample container(s) compromised** – Note in comments
  - ☐ **Water present in sample container**
  - ☐ **Broken**
- ☑ **Sample container(s) not labeled** — (-2) 1 x 250 Clear glass bottle w/ H_2SO_4 not labeled.
- ☐ **Air sample container(s) compromised** – Note in comments
  - ☐ **Flat**
  - ☐ **Very low in volume**
  - ☐ **Leaking (Not transferred - duplicate bag submitted)**
  - ☐ **Leaking (transferred into Calscience Tedlar® Bag*)**
  - ☐ **Leaking (transferred into Client's Tedlar® Bag*)**
- ☐ **Other:** _____

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis

Comments: _____

*Transferred at Client's request.

Initial / Date: TN 12/10/12

Return to Contents

Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-12-0606

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: OTIE

Client Project Name: Raytheon Canoga EISB T3 Area-M03

Attention: Kim Sawyer
317 East Main Street
Ventura, CA 93001-2624

Approved for release on 12/26/2012 by:
Virendra Patel
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: Raytheon Canoga EISB T3 Area-M03
Work Order Number: 12-12-0606

1 Detections Summary 3

2 Client Sample Data 6
2.1 RSK-175M Carbon Dioxide (Aqueous) 6
2.2 RSK-175M Dissolved Gases (Aqueous) 7
2.3 HPLC/UV Organic Acids (Aqueous) 8
2.4 EPA 8260B Volatile Organics (Aqueous) 9
2.5 EPA 200.8 ICP/MS Metals / EPA 245.1 Mercury (Aqueous) 16
2.6 Combined Inorganic Tests 18

3 Quality Control Sample Data 20
3.1 MS/MSD and/or Duplicate 20
3.2 LCS/LCSD 31

4 Glossary of Terms and Qualifiers 45

5 Chain of Custody/Sample Receipt Form 46

Calscience Environmental Laboratories, Inc.

Client:	OTIE	Work Order:	12-12-0606
	317 East Main Street	Project name:	Raytheon Canoga EISB T3 Area-M03
	Ventura, CA 93001-2624	Received:	12/10/12 18:00
Attn:	Kim Sawyer		

DETECTIONS SUMMARY

Client Sample ID Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
RW-15 (12-12-0606-1)						
Carbon Dioxide	**37700**		17.0	ug/L	RSK-175M	N/A
Methane	**40.8**		1.00	ug/L	RSK-175M	N/A
Arsenic	**0.0275**		0.00100	mg/L	EPA 200.8	Filtered
Barium	**0.0833**		0.00100	mg/L	EPA 200.8	Filtered
Chromium	**0.00738**		0.00100	mg/L	EPA 200.8	Filtered
Copper	**0.00274**		0.00100	mg/L	EPA 200.8	Filtered
Selenium	**0.00994**		0.00100	mg/L	EPA 200.8	Filtered
Zinc	**0.0298**		0.00500	mg/L	EPA 200.8	Filtered
Calcium	**156**		0.100	mg/L	EPA 200.8	Filtered
Magnesium	**84.8**		0.100	mg/L	EPA 200.8	Filtered
Manganese	**0.629**		0.00100	mg/L	EPA 200.8	Filtered
Potassium	**1.99**		0.0500	mg/L	EPA 200.8	Filtered
Sodium	**70.6**		0.100	mg/L	EPA 200.8	Filtered
Boron	**0.339**		0.0500	mg/L	EPA 200.8	Filtered
Chloride	**180**		5.0	mg/L	EPA 300.0	N/A
Bromide	**0.66**		0.10	mg/L	EPA 300.0	N/A
Nitrate (as N)	**0.35**		0.10	mg/L	EPA 300.0	N/A
o-Phosphate (as P)	**0.18**		0.10	mg/L	EPA 300.0	N/A
Sulfate	**390**		5.0	mg/L	EPA 300.0	N/A
Chromium, Hexavalent	**2.7**		1.0	ug/L	EPA 7199	N/A
Carbon, Total Organic	**38**		2.5	mg/L	SM 5310 D	N/A
Solids, Total Dissolved	**1170**		10.0	mg/L	SM 2540 C	N/A
Pyruvic Acid	**1.1**		0.50	mg/L	HPLC/UV	N/A
1,1-Dichloroethene	**63**		1.0	ug/L	EPA 8260B	EPA 5030C
Tetrachloroethene	**3.7**		1.0	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	**14**		1.0	ug/L	EPA 8260B	EPA 5030C
Vinyl Chloride	**0.54**		0.50	ug/L	EPA 8260B	EPA 5030C

Return to Contents

*MDL is shown.

Calscience Environmental Laboratories, Inc.

Client:	OTIE	Work Order:	12-12-0606
	317 East Main Street	Project name:	Raytheon Canoga EISB T3 Area-M03
	Ventura, CA 93001-2624	Received:	12/10/12 18:00
Attn:	Kim Sawyer		

DETECTIONS SUMMARY

Client Sample ID Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
RW-14 (12-12-0606-2)						
Carbon Dioxide	**86200**		17.0	ug/L	RSK-175M	N/A
Methane	**758**		2.00	ug/L	RSK-175M	N/A
Arsenic	**0.0326**		0.00100	mg/L	EPA 200.8	Filtered
Barium	**0.103**		0.00100	mg/L	EPA 200.8	Filtered
Copper	**0.00155**		0.00100	mg/L	EPA 200.8	Filtered
Zinc	**0.0168**		0.00500	mg/L	EPA 200.8	Filtered
Calcium	**249**		0.100	mg/L	EPA 200.8	Filtered
Iron	**2.05**		0.0500	mg/L	EPA 200.8	Filtered
Magnesium	**91.9**		0.100	mg/L	EPA 200.8	Filtered
Manganese	**0.778**		0.00100	mg/L	EPA 200.8	Filtered
Potassium	**1.76**		0.0500	mg/L	EPA 200.8	Filtered
Sodium	**104**		0.100	mg/L	EPA 200.8	Filtered
Boron	**0.329**		0.0500	mg/L	EPA 200.8	Filtered
Chloride	**550**		10	mg/L	EPA 300.0	N/A
Bromide	**1.7**		0.10	mg/L	EPA 300.0	N/A
Sulfate	**160**		10	mg/L	EPA 300.0	N/A
Iron (II)	**2.20**		0.100	mg/L	SM 3500-FeB	N/A
Carbon, Total Organic	**40**		2.5	mg/L	SM 5310 D	N/A
Solids, Total Dissolved	**1760**		10.0	mg/L	SM 2540 C	N/A
1,1-Dichloroethane	**3.8**		1.0	ug/L	EPA 8260B	EPA 5030C
1,2-Dichloroethane	**2.5**		0.50	ug/L	EPA 8260B	EPA 5030C
1,1-Dichloroethene	**360**		5.0	ug/L	EPA 8260B	EPA 5030C
c-1,2-Dichloroethene	**2.8**		1.0	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	**2.7**		1.0	ug/L	EPA 8260B	EPA 5030C
Vinyl Chloride	**78**		0.50	ug/L	EPA 8260B	EPA 5030C

Return to Contents

*MDL is shown.

Calscience Environmental Laboratories, Inc.

Client:	OTIE	Work Order:	12-12-0606
	317 East Main Street	Project name:	Raytheon Canoga EISB T3 Area-M03
	Ventura, CA 93001-2624	Received:	12/10/12 18:00
Attn:	Kim Sawyer		

DETECTIONS SUMMARY

Client Sample ID Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
RW-11 (12-12-0606-3)						
Carbon Dioxide	**34200**		17.0	ug/L	RSK-175M	N/A
Methane	**19.4**		1.00	ug/L	RSK-175M	N/A
Arsenic	**0.0164**		0.00100	mg/L	EPA 200.8	Filtered
Barium	**0.110**		0.00100	mg/L	EPA 200.8	Filtered
Copper	**0.00596**		0.00100	mg/L	EPA 200.8	Filtered
Selenium	**0.00168**		0.00100	mg/L	EPA 200.8	Filtered
Zinc	**0.0255**		0.00500	mg/L	EPA 200.8	Filtered
Calcium	**240**		0.100	mg/L	EPA 200.8	Filtered
Magnesium	**161**		0.100	mg/L	EPA 200.8	Filtered
Manganese	**0.487**		0.00100	mg/L	EPA 200.8	Filtered
Potassium	**2.64**		0.0500	mg/L	EPA 200.8	Filtered
Sodium	**195**		0.100	mg/L	EPA 200.8	Filtered
Boron	**1.04**		0.0500	mg/L	EPA 200.8	Filtered
Chloride	**440**		20	mg/L	EPA 300.0	N/A
Bromide	**1.2**		0.10	mg/L	EPA 300.0	N/A
Nitrate (as N)	**79**		2.0	mg/L	EPA 300.0	N/A
Sulfate	**560**		20	mg/L	EPA 300.0	N/A
Carbon, Total Organic	**29**		2.5	mg/L	SM 5310 D	N/A
Solids, Total Dissolved	**2480**		10.0	mg/L	SM 2540 C	N/A
1,1-Dichloroethene	**70**		1.0	ug/L	EPA 8260B	EPA 5030C
DUP-T3-121012 (12-12-0606-4)						
1,1-Dichloroethane	**3.7**		1.0	ug/L	EPA 8260B	EPA 5030C
1,2-Dichloroethane	**2.6**		0.50	ug/L	EPA 8260B	EPA 5030C
1,1-Dichloroethene	**370**		5.0	ug/L	EPA 8260B	EPA 5030C
c-1,2-Dichloroethene	**2.8**		1.0	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	**2.5**		1.0	ug/L	EPA 8260B	EPA 5030C
Vinyl Chloride	**78**		0.50	ug/L	EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

*MDL is shown.

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

OTIE		Date Received:	12/10/12
317 East Main Street		Work Order No:	12-12-0606
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	RSK-175M

Project: Raytheon Canoga EISB T3 Area-M03 Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-15	**12-12-0606-1-G**	**12/10/12 14:15**	**Aqueous**	**GC 14**	**N/A**	**12/12/12 14:03**	**121211L01**

Parameter	Result	RL	DF	Qual	Units
Carbon Dioxide	37700	17.0	10		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-14	**12-12-0606-2-G**	**12/10/12 13:00**	**Aqueous**	**GC 14**	**N/A**	**12/12/12 14:25**	**121211L01**

Parameter	Result	RL	DF	Qual	Units
Carbon Dioxide	86200	17.0	10		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-11	**12-12-0606-3-G**	**12/10/12 11:50**	**Aqueous**	**GC 14**	**N/A**	**12/12/12 14:44**	**121211L01**

Parameter	Result	RL	DF	Qual	Units
Carbon Dioxide	34200	17.0	10		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-659-469**	**N/A**	**Aqueous**	**GC 14**	**N/A**	**12/11/12 18:22**	**121211L01**

Parameter	Result	RL	DF	Qual	Units
Carbon Dioxide	ND	1.70	1		ug/L

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0606
Preparation: N/A
Method: RSK-175M
Units: ug/L

Project: Raytheon Canoga EISB T3 Area-M03

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-15	**12-12-0606-1-D**	**12/10/12 14:15**	**Aqueous**	**GC 61**	**N/A**	**12/11/12 13:41**	**121211L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	40.8	1.00	1	
Ethylene	ND	1.00	1						

RW-14	**12-12-0606-2-D**	**12/10/12 13:00**	**Aqueous**	**GC 61**	**N/A**	**12/11/12 16:12**	**121211L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	758	2.00	2	
Ethylene	ND	1.00	1						

RW-11	**12-12-0606-3-D**	**12/10/12 11:50**	**Aqueous**	**GC 61**	**N/A**	**12/11/12 17:25**	**121211L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	19.4	1.00	1	
Ethylene	ND	1.00	1						

Method Blank	**099-12-661-688**	**N/A**	**Aqueous**	**GC 61**	**N/A**	**12/11/12 11:30**	**121211L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	ND	1.00	1	
Ethylene	ND	1.00	1						

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0606
Preparation: N/A
Method: HPLC/UV
Units: mg/L

Project: Raytheon Canoga EISB T3 Area-M03

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-15	**12-12-0606-1-H**	**12/10/12 14:15**	**Aqueous**	**HPLC 6**	**N/A**	**12/13/12 01:50**	**121212L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	4.0	1		Propionic Acid	ND	4.0	1	
Butyric Acid	ND	4.0	1		Pyruvic Acid	1.1	0.50	1	
Lactic Acid	ND	4.0	1						

Surrogates:	REC (%)	Control Limits	Qual
Dibromopropionic Acid	90	80-120	

RW-14	**12-12-0606-2-H**	**12/10/12 13:00**	**Aqueous**	**HPLC 6**	**N/A**	**12/13/12 02:13**	**121212L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	4.0	1		Propionic Acid	ND	4.0	1	
Butyric Acid	ND	4.0	1		Pyruvic Acid	ND	0.50	1	
Lactic Acid	ND	4.0	1						

Surrogates:	REC (%)	Control Limits	Qual
Dibromopropionic Acid	97	80-120	

RW-11	**12-12-0606-3-H**	**12/10/12 11:50**	**Aqueous**	**HPLC 6**	**N/A**	**12/13/12 02:36**	**121212L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	4.0	1		Propionic Acid	ND	4.0	1	
Butyric Acid	ND	4.0	1		Pyruvic Acid	ND	0.50	1	
Lactic Acid	ND	4.0	1						

Surrogates:	REC (%)	Control Limits	Qual
Dibromopropionic Acid	85	80-120	

Method Blank	**099-12-016-356**	**N/A**	**Aqueous**	**HPLC 6**	**N/A**	**12/12/12 16:59**	**121212L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	4.0	1		Propionic Acid	ND	4.0	1	
Butyric Acid	ND	4.0	1		Pyruvic Acid	ND	0.50	1	
Lactic Acid	ND	4.0	1						

Surrogates:	REC (%)	Control Limits	Qual
Dibromopropionic Acid	100	80-120	

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	12/10/12
317 East Main Street		Work Order No:	12-12-0606
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L

Project: Raytheon Canoga EISB T3 Area-M03

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-15	**12-12-0606-1-A**	**12/10/12 14:15**	**Aqueous**	**GC/MS Z**	**12/11/12**	**12/11/12 18:35**	**121211L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	3.7	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	14	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	63	1.0	1		Vinyl Chloride	0.54	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	101	80-126	
1,2-Dichloroethane-d4	108	80-134		Toluene-d8	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0606
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga EISB T3 Area-M03

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-14	**12-12-0606-2-A**	**12/10/12 13:00**	**Aqueous**	**GC/MS Z**	**12/11/12**	**12/11/12 19:04**	**121211L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	2.7	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	3.8	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	2.5	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	360	5.0	5		Vinyl Chloride	78	0.50	1	
c-1,2-Dichloroethene	2.8	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	104	80-126	
1,2-Dichloroethane-d4	105	80-134		Toluene-d8	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0606
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga EISB T3 Area-M03

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-11	**12-12-0606-3-A**	**12/10/12 11:50**	**Aqueous**	**GC/MS Z**	**12/11/12**	**12/11/12 19:32**	**121211L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	70	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	98	80-120			Dibromofluoromethane	106	80-126		
1,2-Dichloroethane-d4	108	80-134			Toluene-d8	101	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0606
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga EISB T3 Area-M03

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DUP-T3-121012	**12-12-0606-4-A**	**12/10/12 13:15**	**Aqueous**	**GC/MS Z**	**12/11/12**	**12/11/12 19:59**	**121211L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	2.5	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	3.7	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	2.6	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	370	5.0	5		Vinyl Chloride	78	0.50	1	
c-1,2-Dichloroethene	2.8	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	97	80-120			Dibromofluoromethane	104	80-126		
1,2-Dichloroethane-d4	107	80-134			Toluene-d8	102	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0606
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga EISB T3 Area-M03

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB3-121012	**12-12-0606-5-A**	**12/10/12 14:45**	**Aqueous**	**GC/MS Z**	**12/11/12**	**12/11/12 20:26**	**121211L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	97	80-120			Dibromofluoromethane	107	80-126		
1,2-Dichloroethane-d4	108	80-134			Toluene-d8	102	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0606
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga EISB T3 Area-M03

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-9,615**	**N/A**	**Aqueous**	**GC/MS Z**	**12/11/12**	**12/11/12 11:48**	**121211L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	97	80-120			Dibromofluoromethane	101	80-126		
1,2-Dichloroethane-d4	105	80-134			Toluene-d8	101	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	12/10/12
317 East Main Street		Work Order No:	12-12-0606
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L

Project: Raytheon Canoga EISB T3 Area-M03

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-9,624**	**N/A**	**Aqueous**	**GC/MS Z**	**12/12/12**	**12/12/12 13:05**	**121212L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	98	80-120		Dibromofluoromethane	105	80-126	
1,2-Dichloroethane-d4	108	80-134		Toluene-d8	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0606
Preparation: Filtered / EPA 245.1 Filt.
Method: EPA 200.8 / EPA 245.1
Units: mg/L

Project: Raytheon Canoga EISB T3 Area-M03

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-15	**12-12-0606-1-K**	**12/10/12 14:15**	**Aqueous**	**ICP/MS 04**	**12/11/12**	**12/11/12 17:13**	**121211L02A**

Comment(s): -Mercury analysis was performed on 12/13/12 12:23 with batch 121212L03F.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	0.0275	0.00100	1		Calcium	156	0.100	1	
Barium	0.0833	0.00100	1		Iron	ND	0.0500	1	
Cadmium	ND	0.00100	1		Magnesium	84.8	0.100	1	
Chromium	0.00738	0.00100	1		Manganese	0.629	0.00100	1	
Copper	0.00274	0.00100	1		Potassium	1.99	0.0500	1	
Lead	ND	0.00100	1		Sodium	70.6	0.100	1	
Selenium	0.00994	0.00100	1		Boron	0.339	0.0500	1	
Zinc	0.0298	0.00500	1		Mercury	ND	0.000200	1	

RW-14	**12-12-0606-2-K**	**12/10/12 13:00**	**Aqueous**	**ICP/MS 04**	**12/11/12**	**12/11/12 17:28**	**121211L02A**

Comment(s): -Mercury analysis was performed on 12/13/12 12:25 with batch 121212L03F.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	0.0326	0.00100	1		Calcium	249	0.100	1	
Barium	0.103	0.00100	1		Iron	2.05	0.0500	1	
Cadmium	ND	0.00100	1		Magnesium	91.9	0.100	1	
Chromium	ND	0.00100	1		Manganese	0.778	0.00100	1	
Copper	0.00155	0.00100	1		Potassium	1.76	0.0500	1	
Lead	ND	0.00100	1		Sodium	104	0.100	1	
Selenium	ND	0.00100	1		Boron	0.329	0.0500	1	
Zinc	0.0168	0.00500	1		Mercury	ND	0.000200	1	

RW-11	**12-12-0606-3-K**	**12/10/12 11:50**	**Aqueous**	**ICP/MS 04**	**12/11/12**	**12/11/12 17:32**	**121211L02A**

Comment(s): -Mercury analysis was performed on 12/13/12 12:27 with batch 121212L03F.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	0.0164	0.00100	1		Calcium	240	0.100	1	
Barium	0.110	0.00100	1		Iron	ND	0.0500	1	
Cadmium	ND	0.00100	1		Magnesium	161	0.100	1	
Chromium	ND	0.00100	1		Manganese	0.487	0.00100	1	
Copper	0.00596	0.00100	1		Potassium	2.64	0.0500	1	
Lead	ND	0.00100	1		Sodium	195	0.100	1	
Selenium	0.00168	0.00100	1		Boron	1.04	0.0500	1	
Zinc	0.0255	0.00500	1		Mercury	ND	0.000200	1	

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0606
Preparation: Filtered / EPA 245.1 Filt.
Method: EPA 200.8 / EPA 245.1
Units: mg/L

Project: Raytheon Canoga EISB T3 Area-M03

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-008-2,087**	**N/A**	**Aqueous**	**ICP/MS 04**	**12/11/12**	**12/11/12 15:53**	**121211L02A**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	ND	0.00100	1		Calcium	ND	0.100	1	
Barium	ND	0.00100	1		Iron	ND	0.0500	1	
Cadmium	ND	0.00100	1		Magnesium	ND	0.100	1	
Chromium	ND	0.00100	1		Manganese	ND	0.00100	1	
Copper	ND	0.00100	1		Potassium	ND	0.0500	1	
Lead	ND	0.00100	1		Sodium	ND	0.100	1	
Selenium	ND	0.00100	1		Boron	ND	0.0500	1	
Zinc	ND	0.00500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-04-008-6,310**	**N/A**	**Aqueous**	**Mercury**	**12/12/12**	**12/12/12 17:22**	**121212L03F**

Comment(s): -Preparation/analysis for Mercury was performed by EPA 245.1.

Parameter	Result	RL	DF	Qual
Mercury	ND	0.000200	1	

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Analytical Report

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0606

Project: Raytheon Canoga EISB T3 Area-M03

Client Sample Number	Lab Sample Number	Date Collected	Matrix
RW-15	**12-12-0606-1**	**12/10/12**	**Aqueous**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	180	5.0	5		mg/L	N/A	12/13/12	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Bromide	0.66	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Nitrate (as N)	0.35	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
o-Phosphate (as P)	0.18	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Sulfate	390	5.0	5		mg/L	N/A	12/13/12	EPA 300.0
Chromium, Hexavalent	2.7	1.0	1		ug/L	N/A	12/10/12	EPA 7199
Solids, Total Dissolved	1170	10.0	1		mg/L	12/13/12	12/13/12	SM 2540 C
Iron (II)	ND	0.100	1		mg/L	12/10/12	12/10/12	SM 3500-FeB
Carbon, Total Organic	38	2.5	5		mg/L	12/11/12	12/11/12	SM 5310 D

RW-14	**12-12-0606-2**	**12/10/12**	**Aqueous**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	550	10	10		mg/L	N/A	12/13/12	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Bromide	1.7	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
o-Phosphate (as P)	ND	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Sulfate	160	10	10		mg/L	N/A	12/13/12	EPA 300.0
Chromium, Hexavalent	ND	1.0	1		ug/L	N/A	12/10/12	EPA 7199
Solids, Total Dissolved	1760	10.0	1		mg/L	12/13/12	12/13/12	SM 2540 C
Iron (II)	2.20	0.100	1		mg/L	12/10/12	12/10/12	SM 3500-FeB
Carbon, Total Organic	40	2.5	5		mg/L	12/11/12	12/11/12	SM 5310 D

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0606

Project: Raytheon Canoga EISB T3 Area-M03

Client Sample Number	Lab Sample Number	Date Collected	Matrix
RW-11	**12-12-0606-3**	**12/10/12**	**Aqueous**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	440	20	20		mg/L	N/A	12/12/12	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Bromide	1.2	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Nitrate (as N)	79	2.0	20		mg/L	N/A	12/12/12	EPA 300.0
o-Phosphate (as P)	ND	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Sulfate	560	20	20		mg/L	N/A	12/12/12	EPA 300.0
Chromium, Hexavalent	ND	1.0	1		ug/L	N/A	12/10/12	EPA 7199
Solids, Total Dissolved	2480	10.0	1		mg/L	12/13/12	12/13/12	SM 2540 C
Iron (II)	ND	0.100	1		mg/L	12/10/12	12/10/12	SM 3500-FeB
Carbon, Total Organic	29	2.5	5		mg/L	12/11/12	12/11/12	SM 5310 D

Method Blank					**N/A**	**Aqueous**		
Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	ND	1.0	1		mg/L	N/A	12/11/12	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Bromide	ND	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
o-Phosphate (as P)	ND	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Sulfate	ND	1.0	1		mg/L	N/A	12/11/12	EPA 300.0
Chloride	ND	1.0	1		mg/L	N/A	12/12/12	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	12/12/12	EPA 300.0
Bromide	ND	0.10	1		mg/L	N/A	12/12/12	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	12/12/12	EPA 300.0
o-Phosphate (as P)	ND	0.10	1		mg/L	N/A	12/12/12	EPA 300.0
Sulfate	ND	1.0	1		mg/L	N/A	12/12/12	EPA 300.0
Chloride	ND	1.0	1		mg/L	N/A	12/11/12	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Bromide	ND	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
o-Phosphate (as P)	ND	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Sulfate	ND	1.0	1		mg/L	N/A	12/11/12	EPA 300.0
Chromium, Hexavalent	ND	1.0	1		ug/L	N/A	12/10/12	EPA 7199
Solids, Total Dissolved	ND	1.0	1		mg/L	12/13/12	12/13/12	SM 2540 C
Iron (II)	ND	0.100	1		mg/L	12/10/12	12/10/12	SM 3500-FeB
Carbon, Total Organic	ND	0.50	1		mg/L	12/11/12	12/11/12	SM 5310 D

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0606
Preparation: Filtered
Method: EPA 200.8

Project Raytheon Canoga EISB T3 Area-M03

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-12-0492-1	**Aqueous**	**ICP/MS 04**	**12/11/12**	**12/11/12**	**121211S02**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	ND	0.1000	0.1010	101	0.09882	99	80-120	2	0-20	
Barium	0.2023	0.1000	0.2992	97	0.3065	104	80-120	2	0-10	
Cadmium	ND	0.1000	0.09666	97	0.09848	98	80-120	2	0-20	
Chromium	0.007239	0.1000	0.1043	97	0.1040	97	80-120	0	0-20	
Copper	ND	0.1000	0.1043	104	0.1022	102	80-120	2	0-20	
Lead	ND	0.1000	0.1017	102	0.1018	102	80-120	0	0-20	
Selenium	ND	0.1000	0.09329	93	0.09338	93	80-120	0	0-20	
Zinc	0.006836	0.1000	0.1157	109	0.1142	107	80-120	1	0-20	
Calcium	94.20	5.000	95.42	4X	95.36	4X	80-120	4X	0-20	Q
Iron	ND	0.1000	0.1173	117	0.1098	110	80-120	7	0-20	
Magnesium	21.63	5.000	21.80	4X	22.16	4X	80-120	4X	0-20	Q
Manganese	ND	0.1000	0.09538	95	0.09405	94	80-120	1	0-20	
Potassium	3.888	1.000	4.812	92	4.813	92	80-120	0	0-20	
Sodium	30.50	1.000	31.75	4X	31.70	4X	80-120	4X	0-20	Q
Boron	0.2334	0.1000	0.3280	95	0.3401	107	80-120	4	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0606
Preparation: N/A
Method: EPA 7199

Project Raytheon Canoga EISB T3 Area-M03

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
RW-15	**Aqueous**	**IC 14**	**N/A**	**12/10/12**	**121210S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	2.7	50	53	102	53	101	70-130	0	0-25	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

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Quality Control - Spike/Spike Duplicate

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0606
Preparation: N/A
Method: EPA 300.0

Project Raytheon Canoga EISB T3 Area-M03

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-12-0592-1	**Aqueous**	**IC 7**	**N/A**	**12/11/12**	**121211S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chloride	31	5000	5300	105	5300	105	80-120	0	0-20	
Nitrite (as N)	ND	250	270	109	270	109	80-120	1	0-20	
Bromide	0.36	500	520	105	520	104	80-120	1	0-20	
Nitrate (as N)	3.2	500	520	102	520	103	80-120	1	0-20	
o-Phosphate (as P)	0.14	250	260	103	230	92	80-120	11	0-20	
Sulfate	85	5000	5200	103	5400	106	80-120	2	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0606
Preparation: N/A
Method: EPA 300.0

Project Raytheon Canoga EISB T3 Area-M03

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-12-0681-1	**Aqueous**	**IC 7**	**N/A**	**12/12/12**	**121211S02**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chloride	39	5000	5300	106	5400	107	80-120	1	0-20	
Nitrate (as N)	18	500	520	100	530	103	80-120	2	0-20	
Sulfate	71	5000	5300	105	5400	106	80-120	1	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0606
Preparation: N/A
Method: EPA 300.0

Project Raytheon Canoga EISB T3 Area-M03

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-12-0704-3	**Aqueous**	**IC 7**	**N/A**	**12/13/12**	**121212S02**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chloride	420	5000	5600	104	5600	104	80-120	0	0-20	
Sulfate	480	5000	5500	101	5500	100	80-120	0	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0606
Preparation: N/A
Method: SM 3500-FeB

Project Raytheon Canoga EISB T3 Area-M03

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
RW-11	**Aqueous**	**UV 2**	**12/10/12**	**12/10/12**	**C1210FES1**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Iron (II)	ND	1.00	0.980	98	0.960	96	70-130	2	0-25	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0606
Preparation: N/A
Method: SM 5310 D

Project Raytheon Canoga EISB T3 Area-M03

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
RW-14	**Aqueous**	**TOC 6**	**12/11/12**	**12/11/12**	**C1211TOCS1**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	40	25	70	117	68	109	28-148	3	0-23	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0606
Preparation: EPA 245.1 Filt.
Method: EPA 245.1

Project Raytheon Canoga EISB T3 Area-M03

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-12-0685-1	**Aqueous**	**Mercury**	**12/12/12**	**12/12/12**	**121212S03**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.01000	0.007922	79	0.007736	77	57-141	2	0-10	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0606
Preparation: N/A
Method: HPLC/UV

Project Raytheon Canoga EISB T3 Area-M03

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-12-0464-1	**Aqueous**	**HPLC 6**	**N/A**	**12/12/12**	**121212S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	ND	20.00	15.68	78	16.08	80	70-130	3	0-30	
Butyric Acid	ND	20.00	20.13	101	20.05	100	70-130	0	0-30	
Lactic Acid	ND	20.00	15.86	79	16.05	80	70-130	1	0-30	
Propionic Acid	ND	20.00	18.83	94	18.63	93	70-130	1	0-30	
Pyruvic Acid	ND	2.000	2.020	101	2.000	100	70-130	1	0-30	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0606
Preparation: EPA 5030C
Method: EPA 8260B

Project Raytheon Canoga EISB T3 Area-M03

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-12-0535-1	**Aqueous**	**GC/MS Z**	**12/11/12**	**12/11/12**	**121211S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	53.30	107	53.71	107	78-120	1	0-20	
Carbon Tetrachloride	ND	50.00	57.33	115	57.46	115	67-139	0	0-20	
Chlorobenzene	ND	50.00	52.23	104	53.60	107	80-120	3	0-20	
1,2-Dibromoethane	ND	50.00	52.79	106	54.81	110	80-123	4	0-20	
1,2-Dichlorobenzene	ND	50.00	52.86	106	54.54	109	76-120	3	0-20	
1,2-Dichloroethane	ND	50.00	52.43	105	53.23	106	76-130	2	0-20	
1,1-Dichloroethene	ND	50.00	46.71	93	49.21	98	70-130	5	0-27	
Ethylbenzene	ND	50.00	55.12	110	55.91	112	73-127	1	0-20	
Toluene	ND	50.00	55.78	112	56.77	114	72-126	2	0-20	
Trichloroethene	ND	50.00	55.50	111	56.08	112	74-122	1	0-20	
Vinyl Chloride	ND	50.00	54.74	109	58.23	116	65-131	6	0-24	
p/m-Xylene	1.964	100.0	107.1	105	109.2	107	70-130	2	0-30	
o-Xylene	1.184	50.00	54.21	106	55.70	109	70-130	3	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	44.88	90	46.98	94	69-123	5	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/10/12
Work Order No: 12-12-0606
Preparation: EPA 5030C
Method: EPA 8260B

Project Raytheon Canoga EISB T3 Area-M03

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-12-0590-1	**Aqueous**	**GC/MS Z**	**12/12/12**	**12/12/12**	**121212S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	53.65	107	51.48	103	78-120	4	0-20	
Carbon Tetrachloride	ND	50.00	56.58	113	53.40	107	67-139	6	0-20	
Chlorobenzene	ND	50.00	52.43	105	50.82	102	80-120	3	0-20	
1,2-Dibromoethane	ND	50.00	53.82	108	52.70	105	80-123	2	0-20	
1,2-Dichlorobenzene	ND	50.00	51.82	104	52.38	105	76-120	1	0-20	
1,2-Dichloroethane	ND	50.00	53.27	107	52.13	104	76-130	2	0-20	
1,1-Dichloroethene	ND	50.00	45.69	91	45.20	90	70-130	1	0-27	
Ethylbenzene	ND	50.00	54.18	108	51.98	104	73-127	4	0-20	
Toluene	ND	50.00	55.08	110	52.71	105	72-126	4	0-20	
Trichloroethene	ND	50.00	55.08	110	52.49	105	74-122	5	0-20	
Vinyl Chloride	ND	50.00	52.37	105	52.45	105	65-131	0	0-24	
p/m-Xylene	ND	100.0	104.5	105	99.32	99	70-130	5	0-30	
o-Xylene	ND	50.00	53.65	107	51.70	103	70-130	4	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	46.43	93	49.28	99	69-123	6	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-12-0606
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	RSK-175M

Project: Raytheon Canoga EISB T3 Area-M03

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-659-469	**Aqueous**	**GC 14**	**N/A**	**12/11/12**	**121211L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Carbon Dioxide	102.0	92.69	91	92.78	91	80-120	0	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-12-0606
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	RSK-175M

Project: Raytheon Canoga EISB T3 Area-M03

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-661-688	**Aqueous**	**GC 61**	**N/A**	**12/11/12**	**121211L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Ethane	99.60	96.38	97	96.10	96	80-120	0	0-20	
Ethylene	103.0	109.9	107	109.5	106	80-120	0	0-20	
Methane	98.50	97.80	99	97.20	99	80-120	1	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-12-0606
Preparation: Filtered
Method: EPA 200.8

Project: Raytheon Canoga EISB T3 Area-M03

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-008-2,087	**Aqueous**	**ICP/MS 04**	**12/11/12**	**12/11/12**	**121211L02A**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Arsenic	0.1000	0.1008	101	0.1014	101	80-120	73-127	1	0-20	
Barium	0.1000	0.1011	101	0.1050	105	80-120	73-127	4	0-20	
Cadmium	0.1000	0.1023	102	0.1029	103	80-120	73-127	1	0-20	
Chromium	0.1000	0.09917	99	0.09914	99	80-120	73-127	0	0-20	
Copper	0.1000	0.1070	107	0.1063	106	80-120	73-127	1	0-20	
Lead	0.1000	0.09896	99	0.09895	99	80-120	73-127	0	0-20	
Selenium	0.1000	0.1020	102	0.1048	105	80-120	73-127	3	0-20	
Zinc	0.1000	0.1020	102	0.1018	102	80-120	73-127	0	0-20	
Calcium	5.000	4.909	98	4.902	98	80-120	73-127	0	0-20	
Iron	0.1000	0.1026	103	0.09747	97	80-120	73-127	5	0-20	
Magnesium	5.000	4.959	99	4.857	97	80-120	73-127	2	0-20	
Manganese	0.1000	0.09515	95	0.09446	94	80-120	73-127	1	0-20	
Potassium	1.000	0.9693	97	0.9765	98	80-120	73-127	1	0-20	
Sodium	1.000	1.010	101	1.012	101	80-120	73-127	0	0-20	
Boron	0.1000	0.1053	105	0.1022	102	80-120	73-127	3	0-20	

Total number of LCS compounds : 15
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-12-0606
Preparation: N/A
Method: EPA 7199

Project: Raytheon Canoga EISB T3 Area-M03

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-123-3,245	**Aqueous**	**IC 14**	**N/A**	**12/10/12**	**121210L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	50	51	102	51	102	80-120	0	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-12-0606
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	EPA 300.0

Project: Raytheon Canoga EISB T3 Area-M03

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-906-3,240	**Aqueous**	**IC 7**	**N/A**	**12/11/12**	**121211L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chloride	50	53	107	53	107	90-110	0	0-15	
Nitrite (as N)	2.5	2.6	104	2.5	102	90-110	2	0-15	
Bromide	5.0	5.2	105	5.3	105	90-110	1	0-15	
Nitrate (as N)	5.0	5.4	108	5.4	108	90-110	1	0-15	
o-Phosphate (as P)	2.5	2.6	104	2.5	100	90-110	4	0-15	
Sulfate	50	52	104	53	106	90-110	2	0-15	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-12-0606
Preparation: N/A
Method: EPA 300.0

Project: Raytheon Canoga EISB T3 Area-M03

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-906-3,242	**Aqueous**	**IC 7**	**N/A**	**12/11/12**	**121211L02**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chloride	50	53	106	52	105	90-110	1	0-15	
Nitrite (as N)	2.5	2.5	102	2.5	101	90-110	1	0-15	
Bromide	5.0	5.3	106	5.2	104	90-110	2	0-15	
Nitrate (as N)	5.0	5.4	107	5.3	106	90-110	1	0-15	
o-Phosphate (as P)	2.5	2.5	99	2.7	109	90-110	9	0-15	
Sulfate	50	52	104	51	102	90-110	1	0-15	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-12-0606
Preparation: N/A
Method: EPA 300.0

Project: Raytheon Canoga EISB T3 Area-M03

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-906-3,243	**Aqueous**	**IC 7**	**N/A**	**12/12/12**	**121212L02**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chloride	50	51	101	50	101	90-110	0	0-15	
Nitrite (as N)	2.5	2.6	104	2.6	106	90-110	1	0-15	
Bromide	5.0	5.0	100	4.9	98	90-110	2	0-15	
Nitrate (as N)	5.0	5.0	100	5.0	100	90-110	0	0-15	
o-Phosphate (as P)	2.5	2.6	105	2.6	102	90-110	3	0-15	
Sulfate	50	49	99	50	99	90-110	0	0-15	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-12-0606
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	SM 3500-FeB

Project: Raytheon Canoga EISB T3 Area-M03

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-111-4,497	**Aqueous**	**UV 2**	**12/10/12**	**12/10/12**	**C1210FEL1**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Iron (II)	1.00	0.940	94	0.950	95	80-120	1	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE	Date Received:	N/A
317 East Main Street	Work Order No:	12-12-0606
Ventura, CA 93001-2624	Preparation:	N/A
	Method:	SM 5310 D

Project: Raytheon Canoga EISB T3 Area-M03

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-097-4,775	**Aqueous**	**TOC 6**	**12/11/12**	**12/11/12**	**C1211TOCL1**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	5.0	5.0	99	5.0	101	77-125	1	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-12-0606
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	SM 2540 C

Project: Raytheon Canoga EISB T3 Area-M03

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-180-3,485	**Aqueous**	**N/A**	**12/13/12**	**12/13/12**	**C1213TDSL1**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	100	95	95	100	100	80-120	5	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-12-0606
Preparation: EPA 245.1 Filt.
Method: EPA 245.1

Project: Raytheon Canoga EISB T3 Area-M03

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-008-6,310	**Aqueous**	**Mercury**	**12/12/12**	**12/12/12**	**121212L03F**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	0.01000	0.01086	109	0.01078	108	85-121	1	0-10	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-12-0606
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	HPLC/UV

Project: Raytheon Canoga EISB T3 Area-M03

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-016-356	**Aqueous**	**HPLC 6**	**N/A**	**12/12/12**	**121212L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	20.00	18.78	94	18.80	94	80-120	0	0-20	
Butyric Acid	20.00	19.52	98	19.65	98	80-120	1	0-20	
Lactic Acid	20.00	18.34	92	18.59	93	80-120	1	0-20	
Propionic Acid	20.00	18.61	93	19.03	95	80-120	2	0-20	
Pyruvic Acid	2.000	1.830	92	1.800	90	80-120	2	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-12-0606
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B

Project: Raytheon Canoga EISB T3 Area-M03

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-9,615	**Aqueous**	**GC/MS Z**	**12/11/12**	**12/11/12**	**121211L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	51.37	103	50.69	101	80-120	73-127	1	0-20	
Carbon Tetrachloride	50.00	53.47	107	52.74	105	66-138	54-150	1	0-20	
Chlorobenzene	50.00	51.40	103	51.67	103	80-120	73-127	1	0-20	
1,2-Dibromoethane	50.00	52.93	106	52.78	106	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	50.00	52.81	106	53.50	107	80-120	73-127	1	0-20	
1,2-Dichloroethane	50.00	52.00	104	52.28	105	80-129	72-137	1	0-20	
1,1-Dichloroethene	50.00	43.57	87	43.08	86	71-131	61-141	1	0-20	
Ethylbenzene	50.00	52.82	106	51.97	104	80-123	73-130	2	0-20	
Toluene	50.00	53.32	107	53.36	107	79-121	72-128	0	0-20	
Trichloroethene	50.00	52.90	106	51.92	104	80-120	73-127	2	0-20	
Vinyl Chloride	50.00	51.56	103	48.71	97	70-136	59-147	6	0-20	
p/m-Xylene	100.0	102.2	102	100.5	100	75-125	67-133	2	0-25	
o-Xylene	50.00	52.17	104	51.52	103	75-125	67-133	1	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	46.88	94	44.91	90	72-126	63-135	4	0-22	

Total number of LCS compounds : 14
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-12-0606
Preparation: EPA 5030C
Method: EPA 8260B

Project: Raytheon Canoga EISB T3 Area-M03

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-9,624	**Aqueous**	**GC/MS Z**	**12/12/12**	**12/12/12**	**121212L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	52.17	104	52.45	105	80-120	73-127	1	0-20	
Carbon Tetrachloride	50.00	53.73	107	55.64	111	66-138	54-150	4	0-20	
Chlorobenzene	50.00	51.60	103	51.97	104	80-120	73-127	1	0-20	
1,2-Dibromoethane	50.00	53.11	106	52.97	106	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	50.00	52.95	106	53.27	107	80-120	73-127	1	0-20	
1,2-Dichloroethane	50.00	53.08	106	51.90	104	80-129	72-137	2	0-20	
1,1-Dichloroethene	50.00	42.85	86	44.44	89	71-131	61-141	4	0-20	
Ethylbenzene	50.00	52.52	105	53.39	107	80-123	73-130	2	0-20	
Toluene	50.00	52.91	106	54.12	108	79-121	72-128	2	0-20	
Trichloroethene	50.00	52.64	105	53.92	108	80-120	73-127	2	0-20	
Vinyl Chloride	50.00	49.10	98	51.85	104	70-136	59-147	5	0-20	
p/m-Xylene	100.0	101.6	102	102.3	102	75-125	67-133	1	0-25	
o-Xylene	50.00	52.53	105	52.71	105	75-125	67-133	0	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	47.12	94	46.48	93	72-126	63-135	1	0-22	

Total number of LCS compounds : 14
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 12-12-0606

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
MPN - Most Probable Number

Return to Contents

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: 12-10-12

PAGE: 1 OF 1

LABORATORY CLIENT: OTIE

ADDRESS: 317 E. Main Street, Ventura CA 93001

TEL: 805.585.2110 | FAX: 805.585.2111 | E-MAIL: ksawyer@otie.com

CLIENT PROJECT NAME / NUMBER: Raytheon CANOGA PARK EISB T3 Area-M03

P.O. NO.: 2009.025/0630

PROJECT CONTACT: Kim Sawyer

LOG CODE: 12-12-0606

SAMPLER(S): (SIGNATURE)

COELT LOG CODE: T N A V

COOLER RECEIPT Temp = _____ °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ☐ 5 DAYS ☒ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING ☒ COELT EDF ☒ WDR 100000974

SPECIAL INSTRUCTIONS:
EPA 200.8 - As,Ba,B,Ca,Cd,Cr,Cu,Fe,Pb,Mg,Mn,K,Se,Na&Zn
** OTIE SPECIFIC EDD/COELT EDF **
Samples field filtered

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	EPA 8260B - VOCs	HPLC/UV - VFAs (Organic Acids)	RSK-175M - Methane,Ethane,Ethene	RSK-175M - Carbon Dioxide	EPA 300.0 - Br,Cl,NO2,NO3, o-PO4,SO4	SM 3500-FeB - Ferrous Iron	SM2540C - TDS	SM5310D - TOC	EPA 7199 - Hexavalent Chromium	EPA 245.1 - Hg	EPA 200.8 - See Special Instructions		CONTAINER TYPE
1	RW-15	RW-15	12-10-12	1415	GW	15	X	X	X	X	X	X	X	X	X	X	X		
2	RW-14	RW-14		1300	GW	15	X	X	X	X	X	X	X	X	X	X	X		
3	RW-11	RW-11		1150	GW	15	X	X	X	X	X	X	X	X	X	X	X		
4	DUP-T3-121012	DUP		1315	GW	3	X												
5	TB3-121012	QCTB		1445	GW	2	X												

Relinquished by: (Signature)	Received by: (Signature)	Date: 12/10/12	Time: 1600
Relinquished by: (Signature)	Received by: (Signature)	Date: 12/10/12	Time: 1850
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

CEL CC

DATE

Return to Contents

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-12-0605

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: OTC DATE: 12/10/12

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.6 °C - 0.3 °C (CF) = 2.3 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Initial: _____

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: _____

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: MS

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☑VOA ☑VOAh ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☑250AGB ☐250CGB ☑250CGB**s** ☑1PB ☐1PB**na** ☐500PB

☑250PB ☑250PB**n** ☑125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☑~~250PB~~ ☑VOA p ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:** 121113A **Labeled/Checked by:** MS/TM

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** DS/TM

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** _____

Return to Contents

Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-12-0685

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: OTIE

Client Project Name: Raytheon Canoga Park EISB (Ph VI) M18

Attention: Kim Sawyer
317 East Main Street
Ventura, CA 93001-2624

Approved for release on 12/27/2012 by:
Virendra Patel
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: Raytheon Canoga Park EISB (Ph VI) M18
Work Order Number: 12-12-0685

1 Detections Summary 3

2 Client Sample Data 6
2.1 RSK-175M Carbon Dioxide (Aqueous) 6
2.2 RSK-175M Dissolved Gases (Aqueous) 7
2.3 HPLC/UV Organic Acids (Aqueous) 8
2.4 EPA 8260B Volatile Organics (Aqueous) 9
2.5 EPA 200.8 ICP/MS Metals / EPA 245.1 Mercury (Aqueous) 15
2.6 Combined Inorganic Tests 17

3 Quality Control Sample Data 19
3.1 MS/MSD and/or Duplicate 19
3.2 LCS/LCSD 28

4 Glossary of Terms and Qualifiers 40

5 Chain of Custody/Sample Receipt Form 41

Calscience Environmental Laboratories, Inc.

Client:	OTIE	Work Order:	12-12-0685
	317 East Main Street	Project name:	Raytheon Canoga Park EISB (Ph VI) M18
	Ventura, CA 93001-2624	Received:	12/11/12 17:30
Attn:	Kim Sawyer		

DETECTIONS SUMMARY

Client Sample ID Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
CM-4D (12-12-0685-1)						
Carbon Dioxide	**171000**		68.0	ug/L	RSK-175M	N/A
Ethylene	**2.24**		1.00	ug/L	RSK-175M	N/A
Methane	**6430**		20.0	ug/L	RSK-175M	N/A
Arsenic	**0.00393**		0.00100	mg/L	EPA 200.8	Filtered
Barium	**1.24**		0.00100	mg/L	EPA 200.8	Filtered
Chromium	**0.00186**		0.00100	mg/L	EPA 200.8	Filtered
Copper	**0.00104**		0.00100	mg/L	EPA 200.8	Filtered
Zinc	**0.0215**		0.00500	mg/L	EPA 200.8	Filtered
Iron	**2.90**		0.0500	mg/L	EPA 200.8	Filtered
Manganese	**0.742**		0.00100	mg/L	EPA 200.8	Filtered
Boron	**0.475**		0.0500	mg/L	EPA 200.8	Filtered
Calcium	**135**		0.100	mg/L	EPA 200.8	Filtered
Magnesium	**47.7**		0.100	mg/L	EPA 200.8	Filtered
Potassium	**2.70**		0.0500	mg/L	EPA 200.8	Filtered
Sodium	**81.2**		0.100	mg/L	EPA 200.8	Filtered
Chloride	**88**		1.0	mg/L	EPA 300.0	N/A
Bromide	**0.18**		0.10	mg/L	EPA 300.0	N/A
Nitrate (as N)	**0.40**		0.10	mg/L	EPA 300.0	N/A
Sulfate	**3.2**		1.0	mg/L	EPA 300.0	N/A
Iron (II)	**3.41**		0.100	mg/L	SM 3500-FeB	N/A
Carbon, Total Organic	**80**		2.5	mg/L	SM 5310 D	N/A
Solids, Total Dissolved	**790**		1.00	mg/L	SM 2540 C	N/A
1,2-Dichloroethane	**1.7**		0.50	ug/L	EPA 8260B	EPA 5030C
Vinyl Chloride	**1.3**		0.50	ug/L	EPA 8260B	EPA 5030C

Return to Contents

*MDL is shown.

Calscience Environmental Laboratories, Inc.

Client:	OTIE	Work Order:	12-12-0685
	317 East Main Street	Project name:	Raytheon Canoga Park EISB (Ph VI) M18
	Ventura, CA 93001-2624	Received:	12/11/12 17:30
Attn:	Kim Sawyer		

DETECTIONS SUMMARY

Client Sample ID

Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
CM-16 (12-12-0685-2)						
Carbon Dioxide	**52800**		68.0	ug/L	RSK-175M	N/A
Arsenic	**0.0231**		0.00100	mg/L	EPA 200.8	Filtered
Barium	**0.166**		0.00100	mg/L	EPA 200.8	Filtered
Cadmium	**0.00145**		0.00100	mg/L	EPA 200.8	Filtered
Chromium	**1.03**		0.00100	mg/L	EPA 200.8	Filtered
Copper	**0.00515**		0.00100	mg/L	EPA 200.8	Filtered
Selenium	**0.00438**		0.00100	mg/L	EPA 200.8	Filtered
Zinc	**0.0178**		0.00500	mg/L	EPA 200.8	Filtered
Iron	**7.82**		0.0500	mg/L	EPA 200.8	Filtered
Manganese	**0.0449**		0.00100	mg/L	EPA 200.8	Filtered
Boron	**0.481**		0.0500	mg/L	EPA 200.8	Filtered
Calcium	**121**		0.100	mg/L	EPA 200.8	Filtered
Magnesium	**45.0**		0.100	mg/L	EPA 200.8	Filtered
Potassium	**3.24**		0.0500	mg/L	EPA 200.8	Filtered
Sodium	**65.6**		0.100	mg/L	EPA 200.8	Filtered
Chloride	**92**		1.0	mg/L	EPA 300.0	N/A
Bromide	**0.20**		0.10	mg/L	EPA 300.0	N/A
Nitrate (as N)	**1.5**		0.10	mg/L	EPA 300.0	N/A
Sulfate	**98**		1.0	mg/L	EPA 300.0	N/A
Chromium, Hexavalent	**1.8**		1.0	ug/L	EPA 7199	N/A
Carbon, Total Organic	**39**		2.5	mg/L	SM 5310 D	N/A
Solids, Total Dissolved	**695**		1.00	mg/L	SM 2540 C	N/A

Return to Contents

*MDL is shown.

Calscience Environmental Laboratories, Inc.

Client:	OTIE	Work Order:	12-12-0685
	317 East Main Street	Project name:	Raytheon Canoga Park EISB (Ph VI) M18
	Ventura, CA 93001-2624	Received:	12/11/12 17:30
Attn:	Kim Sawyer		

DETECTIONS SUMMARY

Client Sample ID Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
MW-38 (12-12-0685-3)						
Carbon Dioxide	**5280**		1.70	ug/L	RSK-175M	N/A
Methane	**2.20**		1.00	ug/L	RSK-175M	N/A
Arsenic	**0.0263**		0.00100	mg/L	EPA 200.8	Filtered
Barium	**0.0638**		0.00100	mg/L	EPA 200.8	Filtered
Chromium	**0.00624**		0.00100	mg/L	EPA 200.8	Filtered
Copper	**0.00642**		0.00100	mg/L	EPA 200.8	Filtered
Selenium	**0.0157**		0.00100	mg/L	EPA 200.8	Filtered
Zinc	**0.00624**		0.00500	mg/L	EPA 200.8	Filtered
Manganese	**0.00355**		0.00100	mg/L	EPA 200.8	Filtered
Boron	**0.114**		0.0500	mg/L	EPA 200.8	Filtered
Calcium	**45.2**		0.100	mg/L	EPA 200.8	Filtered
Magnesium	**27.6**		0.100	mg/L	EPA 200.8	Filtered
Potassium	**47.8**		0.0500	mg/L	EPA 200.8	Filtered
Sodium	**78.0**		0.100	mg/L	EPA 200.8	Filtered
Chloride	**140**		2.0	mg/L	EPA 300.0	N/A
Nitrite (as N)	**0.67**		0.10	mg/L	EPA 300.0	N/A
Bromide	**0.45**		0.10	mg/L	EPA 300.0	N/A
Nitrate (as N)	**3.4**		0.10	mg/L	EPA 300.0	N/A
o-Phosphate (as P)	**0.12**		0.10	mg/L	EPA 300.0	N/A
Sulfate	**75**		1.0	mg/L	EPA 300.0	N/A
Chromium, Hexavalent	**6.1**		1.0	ug/L	EPA 7199	N/A
Carbon, Total Organic	**27**		2.5	mg/L	SM 5310 D	N/A
Solids, Total Dissolved	**625**		1.00	mg/L	SM 2540 C	N/A
Pyruvic Acid	**4.8**		1.0	mg/L	HPLC/UV	N/A
Tetrachloroethene	**2.5**		1.0	ug/L	EPA 8260B	EPA 5030C
DUP-269 (12-12-0685-4)						
1,2-Dichloroethane	**1.8**		0.50	ug/L	EPA 8260B	EPA 5030C
Vinyl Chloride	**1.3**		0.50	ug/L	EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

*MDL is shown.

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

OTIE		Date Received:	12/11/12
317 East Main Street		Work Order No:	12-12-0685
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	RSK-175M

Project: Raytheon Canoga Park EISB (Ph VI) M18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CM-4D	**12-12-0685-1-F**	**12/11/12 08:20**	**Aqueous**	**GC 14**	**N/A**	**12/12/12 18:31**	**121212L01**

Parameter	Result	RL	DF	Qual	Units
Carbon Dioxide	171000	68.0	40		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CM-16	**12-12-0685-2-F**	**12/11/12 13:40**	**Aqueous**	**GC 14**	**N/A**	**12/12/12 19:01**	**121212L01**

Parameter	Result	RL	DF	Qual	Units
Carbon Dioxide	52800	68.0	40		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-38	**12-12-0685-3-F**	**12/11/12 14:35**	**Aqueous**	**GC 14**	**N/A**	**12/12/12 20:38**	**121212L01**

Parameter	Result	RL	DF	Qual	Units
Carbon Dioxide	5280	1.70	1		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-659-473**	**N/A**	**Aqueous**	**GC 14**	**N/A**	**12/12/12 11:04**	**121212L01**

Parameter	Result	RL	DF	Qual	Units
Carbon Dioxide	ND	1.70	1		ug/L

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/11/12
Work Order No: 12-12-0685
Preparation: N/A
Method: RSK-175M
Units: ug/L

Project: Raytheon Canoga Park EISB (Ph VI) M18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CM-4D	**12-12-0685-1-D**	**12/11/12 08:20**	**Aqueous**	**GC 52**	**N/A**	**12/12/12 13:15**	**121212L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	6430	20.0	20	
Ethylene	2.24	1.00	1						

CM-16	**12-12-0685-2-D**	**12/11/12 13:40**	**Aqueous**	**GC 52**	**N/A**	**12/12/12 14:39**	**121212L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	ND	1.00	1	
Ethylene	ND	1.00	1						

MW-38	**12-12-0685-3-D**	**12/11/12 14:35**	**Aqueous**	**GC 52**	**N/A**	**12/12/12 15:06**	**121212L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	2.20	1.00	1	
Ethylene	ND	1.00	1						

Method Blank	**099-12-661-689**	**N/A**	**Aqueous**	**GC 52**	**N/A**	**12/12/12 12:04**	**121212L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	ND	1.00	1	
Ethylene	ND	1.00	1						

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/11/12
Work Order No: 12-12-0685
Preparation: N/A
Method: HPLC/UV
Units: mg/L

Project: Raytheon Canoga Park EISB (Ph VI) M18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CM-4D	**12-12-0685-1-H**	**12/11/12 08:20**	**Aqueous**	**HPLC 6**	**N/A**	**12/13/12 15:31**	**121213L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	4.0	1		Propionic Acid	ND	4.0	1	
Butyric Acid	ND	4.0	1		Pyruvic Acid	ND	0.50	1	
Lactic Acid	ND	4.0	1						

Surrogates:	REC (%)	Control Limits	Qual
Dibromopropionic Acid	87	80-120	

CM-16	**12-12-0685-2-H**	**12/11/12 13:40**	**Aqueous**	**HPLC 6**	**N/A**	**12/13/12 15:54**	**121213L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	4.0	1		Propionic Acid	ND	4.0	1	
Butyric Acid	ND	4.0	1		Pyruvic Acid	ND	0.50	1	
Lactic Acid	ND	4.0	1						

Surrogates:	REC (%)	Control Limits	Qual
Dibromopropionic Acid	92	80-120	

MW-38	**12-12-0685-3-H**	**12/11/12 14:35**	**Aqueous**	**HPLC 6**	**N/A**	**12/13/12 16:40**	**121213L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	8.0	2		Propionic Acid	ND	8.0	2	
Butyric Acid	ND	8.0	2		Pyruvic Acid	4.8	1.0	2	
Lactic Acid	ND	8.0	2						

Surrogates:	REC (%)	Control Limits	Qual
Dibromopropionic Acid	91	80-120	

Method Blank	**099-12-016-357**	**N/A**	**Aqueous**	**HPLC 6**	**N/A**	**12/13/12 11:41**	**121213L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	4.0	1		Propionic Acid	ND	4.0	1	
Butyric Acid	ND	4.0	1		Pyruvic Acid	ND	0.50	1	
Lactic Acid	ND	4.0	1						

Surrogates:	REC (%)	Control Limits	Qual
Dibromopropionic Acid	98	80-120	

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	12/11/12
317 East Main Street		Work Order No:	12-12-0685
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L

Project: Raytheon Canoga Park EISB (Ph VI) M18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CM-4D	**12-12-0685-1-A**	**12/11/12 08:20**	**Aqueous**	**GC/MS JJ**	**12/12/12**	**12/12/12 20:48**	**121212L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	1.7	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	1.3	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	91	80-120			Dibromofluoromethane	99	80-126		
1,2-Dichloroethane-d4	106	80-134			Toluene-d8	99	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/11/12
Work Order No: 12-12-0685
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park EISB (Ph VI) M18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CM-16	**12-12-0685-2-A**	**12/11/12 13:40**	**Aqueous**	**GC/MS JJ**	**12/12/12**	**12/12/12 21:18**	**121212L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	91	80-120			Dibromofluoromethane	102	80-126		
1,2-Dichloroethane-d4	112	80-134			Toluene-d8	99	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/11/12
Work Order No: 12-12-0685
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park EISB (Ph VI) M18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-38	**12-12-0685-3-A**	**12/11/12 14:35**	**Aqueous**	**GC/MS JJ**	**12/12/12**	**12/12/12 21:48**	**121212L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	2.5	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	89	80-120			Dibromofluoromethane	104	80-126		
1,2-Dichloroethane-d4	110	80-134			Toluene-d8	99	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/11/12
Work Order No: 12-12-0685
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park EISB (Ph VI) M18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DUP-269	**12-12-0685-4-A**	**12/11/12 08:45**	**Aqueous**	**GC/MS JJ**	**12/12/12**	**12/12/12 22:17**	**121212L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	1.8	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	1.3	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	92	80-120		Dibromofluoromethane	101	80-126	
1,2-Dichloroethane-d4	109	80-134		Toluene-d8	98	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/11/12
Work Order No: 12-12-0685
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park EISB (Ph VI) M18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB2-12112	**12-12-0685-5-A**	**12/11/12 14:15**	**Aqueous**	**GC/MS JJ**	**12/12/12**	**12/12/12 12:46**	**121212L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	91	80-120			Dibromofluoromethane	104	80-126		
1,2-Dichloroethane-d4	110	80-134			Toluene-d8	98	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	12/11/12
317 East Main Street		Work Order No:	12-12-0685
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L

Project: Raytheon Canoga Park EISB (Ph VI) M18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-9,620**	**N/A**	**Aqueous**	**GC/MS JJ**	**12/12/12**	**12/12/12 12:17**	**121212L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	92	80-120			Dibromofluoromethane	106	80-126		
1,2-Dichloroethane-d4	109	80-134			Toluene-d8	97	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/11/12
Work Order No: 12-12-0685
Preparation: Filtered / EPA 245.1 Filt.
Method: EPA 200.8 / EPA 245.1
Units: mg/L

Project: Raytheon Canoga Park EISB (Ph VI) M18

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CM-4D	**12-12-0685-1-L**	**12/11/12 08:20**	**Aqueous**	**ICP/MS 03**	**12/12/12**	**12/12/12 23:14**	**121212L05A**

Comment(s): -Mercury analysis was performed on 12/12/12 17:35 with batch 121212L03F.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	0.00393	0.00100	1		Calcium	135	0.100	1	
Iron	2.90	0.0500	1		Barium	1.24	0.00100	1	
Magnesium	47.7	0.100	1		Manganese	0.742	0.00100	1	
Cadmium	ND	0.00100	1		Potassium	2.70	0.0500	1	
Boron	0.475	0.0500	1		Chromium	0.00186	0.00100	1	
Sodium	81.2	0.100	1		Copper	0.00104	0.00100	1	
Mercury	ND	0.000200	1		Lead	ND	0.00100	1	
Selenium	ND	0.00100	1		Zinc	0.0215	0.00500	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CM-16	**12-12-0685-2-L**	**12/11/12 13:40**	**Aqueous**	**ICP/MS 03**	**12/12/12**	**12/12/12 23:17**	**121212L05A**

Comment(s): -Mercury analysis was performed on 12/12/12 17:42 with batch 121212L03F.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	0.0231	0.00100	1		Calcium	121	0.100	1	
Iron	7.82	0.0500	1		Barium	0.166	0.00100	1	
Magnesium	45.0	0.100	1		Manganese	0.0449	0.00100	1	
Cadmium	0.00145	0.00100	1		Potassium	3.24	0.0500	1	
Boron	0.481	0.0500	1		Chromium	1.03	0.00100	1	
Sodium	65.6	0.100	1		Copper	0.00515	0.00100	1	
Mercury	ND	0.000200	1		Lead	ND	0.00100	1	
Selenium	0.00438	0.00100	1		Zinc	0.0178	0.00500	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-38	**12-12-0685-3-L**	**12/11/12 14:35**	**Aqueous**	**ICP/MS 03**	**12/12/12**	**12/12/12 23:29**	**121212L05A**

Comment(s): -Mercury analysis was performed on 12/12/12 17:49 with batch 121212L03F.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	0.0263	0.00100	1		Calcium	45.2	0.100	1	
Iron	ND	0.0500	1		Barium	0.0638	0.00100	1	
Magnesium	27.6	0.100	1		Manganese	0.00355	0.00100	1	
Cadmium	ND	0.00100	1		Potassium	47.8	0.0500	1	
Boron	0.114	0.0500	1		Chromium	0.00624	0.00100	1	
Sodium	78.0	0.100	1		Copper	0.00642	0.00100	1	
Mercury	ND	0.000200	1		Lead	ND	0.00100	1	
Selenium	0.0157	0.00100	1		Zinc	0.00624	0.00500	1	

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/11/12
Work Order No: 12-12-0685
Preparation: Filtered / EPA 245.1 Filt.
Method: EPA 200.8 / EPA 245.1
Units: mg/L

Project: Raytheon Canoga Park EISB (Ph VI) M18

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-008-2,093**	**N/A**	**Aqueous**	**ICP/MS 03**	**12/12/12**	**12/12/12 22:51**	**121212L05A**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	ND	0.00100	1		Calcium	ND	0.100	1	
Barium	ND	0.00100	1		Iron	ND	0.0500	1	
Cadmium	ND	0.00100	1		Magnesium	ND	0.100	1	
Chromium	ND	0.00100	1		Manganese	ND	0.00100	1	
Copper	ND	0.00100	1		Potassium	ND	0.0500	1	
Lead	ND	0.00100	1		Sodium	ND	0.100	1	
Selenium	ND	0.00100	1		Boron	ND	0.0500	1	
Zinc	ND	0.00500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-04-008-6,310**	**N/A**	**Aqueous**	**Mercury**	**12/12/12**	**12/12/12 17:22**	**121212L03F**

Comment(s): -Preparation/analysis for Mercury was performed by EPA 245.1.

Parameter	Result	RL	DF	Qual
Mercury	ND	0.000200	1	

Return to Contents

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Analytical Report

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/11/12
Work Order No: 12-12-0685

Project: Raytheon Canoga Park EISB (Ph VI) M18

Client Sample Number	Lab Sample Number	Date Collected	Matrix
CM-4D	**12-12-0685-1**	**12/11/12**	**Aqueous**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	88	1.0	1		mg/L	N/A	12/11/12	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Bromide	0.18	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Nitrate (as N)	0.40	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
o-Phosphate (as P)	ND	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Sulfate	3.2	1.0	1		mg/L	N/A	12/11/12	EPA 300.0
Chromium, Hexavalent	ND	1.0	1		ug/L	N/A	12/11/12	EPA 7199
Solids, Total Dissolved	790	1.00	1		mg/L	12/13/12	12/13/12	SM 2540 C
Iron (II)	3.41	0.100	1		mg/L	12/11/12	12/11/12	SM 3500-FeB
Carbon, Total Organic	80	2.5	5		mg/L	12/12/12	12/12/12	SM 5310 D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
CM-16	**12-12-0685-2**	**12/11/12**	**Aqueous**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	92	1.0	1		mg/L	N/A	12/11/12	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Bromide	0.20	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Nitrate (as N)	1.5	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
o-Phosphate (as P)	ND	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Sulfate	98	1.0	1		mg/L	N/A	12/11/12	EPA 300.0
Chromium, Hexavalent	1.8	1.0	1		ug/L	N/A	12/11/12	EPA 7199
Solids, Total Dissolved	695	1.00	1		mg/L	12/13/12	12/13/12	SM 2540 C
Iron (II)	ND	0.100	1		mg/L	12/11/12	12/11/12	SM 3500-FeB
Carbon, Total Organic	39	2.5	5		mg/L	12/12/12	12/12/12	SM 5310 D

Return to Contents

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Calscience Environmental Laboratories, Inc.

Analytical Report

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/11/12
Work Order No: 12-12-0685

Project: Raytheon Canoga Park EISB (Ph VI) M18

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-38	**12-12-0685-3**	**12/11/12**	**Aqueous**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	140	2.0	2		mg/L	N/A	12/13/12	EPA 300.0
Nitrite (as N)	0.67	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Bromide	0.45	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Nitrate (as N)	3.4	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
o-Phosphate (as P)	0.12	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Sulfate	75	1.0	1		mg/L	N/A	12/11/12	EPA 300.0
Chromium, Hexavalent	6.1	1.0	1		ug/L	N/A	12/11/12	EPA 7199
Solids, Total Dissolved	625	1.00	1		mg/L	12/13/12	12/13/12	SM 2540 C
Iron (II)	ND	0.100	1		mg/L	12/11/12	12/11/12	SM 3500-FeB
Carbon, Total Organic	27	2.5	5		mg/L	12/12/12	12/12/12	SM 5310 D

Method Blank					**N/A**	**Aqueous**		

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	ND	1.0	1		mg/L	N/A	12/11/12	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Bromide	ND	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
o-Phosphate (as P)	ND	0.10	1		mg/L	N/A	12/11/12	EPA 300.0
Sulfate	ND	1.0	1		mg/L	N/A	12/11/12	EPA 300.0
Chloride	ND	1.0	1		mg/L	N/A	12/13/12	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	12/13/12	EPA 300.0
Bromide	ND	0.10	1		mg/L	N/A	12/13/12	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	12/13/12	EPA 300.0
o-Phosphate (as P)	ND	0.10	1		mg/L	N/A	12/13/12	EPA 300.0
Sulfate	ND	1.0	1		mg/L	N/A	12/13/12	EPA 300.0
Chromium, Hexavalent	ND	1.0	1		ug/L	N/A	12/11/12	EPA 7199
Solids, Total Dissolved	ND	1.0	1		mg/L	12/13/12	12/13/12	SM 2540 C
Iron (II)	ND	0.100	1		mg/L	12/11/12	12/11/12	SM 3500-FeB
Carbon, Total Organic	ND	0.50	1		mg/L	12/12/12	12/12/12	SM 5310 D

Return to Contents

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Quality Control - Spike/Spike Duplicate

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/11/12
Work Order No: 12-12-0685
Preparation: N/A
Method: EPA 200.8

Project Raytheon Canoga Park EISB (Ph VI) M18

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-12-0689-2	**Aqueous**	**ICP/MS 03**	**12/12/12**	**12/13/12**	**121212S05A**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	ND	0.1000	0.1138	114	0.1131	113	80-120	1	0-20	
Barium	0.1472	0.1000	0.2487	102	0.2514	104	80-120	1	0-10	
Cadmium	ND	0.1000	0.09605	96	0.09638	96	80-120	0	0-20	
Chromium	0.002037	0.1000	0.1058	104	0.1044	102	80-120	1	0-20	
Copper	ND	0.1000	0.08842	88	0.09177	92	80-120	4	0-20	
Lead	ND	0.1000	0.1012	101	0.1016	102	80-120	0	0-20	
Selenium	ND	0.1000	0.09423	94	0.09185	92	80-120	3	0-20	
Zinc	0.03686	0.1000	0.1083	71	0.1068	70	80-120	1	0-20	3
Calcium	119.8	5.000	122.3	4X	127.1	4X	80-120	4X	0-20	Q
Iron	ND	0.1000	0.1032	103	0.1068	107	80-120	3	0-20	
Magnesium	27.79	5.000	32.13	4X	31.74	4X	80-120	4X	0-20	Q
Manganese	ND	0.1000	0.08482	85	0.08756	88	80-120	3	0-20	
Potassium	5.727	1.000	6.692	4X	6.848	4X	80-120	4X	0-20	Q
Sodium	36.39	1.000	38.93	4X	37.54	4X	80-120	4X	0-20	Q
Boron	0.1282	0.1000	0.2272	99	0.2277	100	80-120	0	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

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317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/11/12
Work Order No: 12-12-0685
Preparation: N/A
Method: EPA 7199

Project Raytheon Canoga Park EISB (Ph VI) M18

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
CM-4D	**Aqueous**	**IC 14**	**N/A**	**12/11/12**	**121211S01B**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	ND	50	6.1	12	6.1	12	70-130	0	0-25	3

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/11/12
Work Order No: 12-12-0685
Preparation: N/A
Method: EPA 300.0

Project Raytheon Canoga Park EISB (Ph VI) M18

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-12-0681-1	**Aqueous**	**IC 7**	**N/A**	**12/12/12**	**121211S02**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chloride	39	5000	5300	106	5400	107	80-120	1	0-20	
Nitrite (as N)	ND	250	270	109	280	112	80-120	3	0-20	
Bromide	0.22	500	520	104	540	109	80-120	4	0-20	
Nitrate (as N)	18	500	520	100	530	103	80-120	2	0-20	
o-Phosphate (as P)	ND	250	250	98	270	109	80-120	10	0-20	
Sulfate	71	5000	5300	105	5400	106	80-120	1	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

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Quality Control - Spike/Spike Duplicate

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/11/12
Work Order No: 12-12-0685
Preparation: N/A
Method: EPA 300.0

Project Raytheon Canoga Park EISB (Ph VI) M18

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-12-0779-1	**Aqueous**	**IC 7**	**N/A**	**12/13/12**	**121213S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chloride	14	5000	5200	103	5100	103	80-120	0	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

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Quality Control - Spike/Spike Duplicate

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/11/12
Work Order No: 12-12-0685
Preparation: N/A
Method: SM 3500-FeB

Project Raytheon Canoga Park EISB (Ph VI) M18

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-12-0683-7	**Aqueous**	**UV 2**	**12/11/12**	**12/11/12**	**C1211FES1**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Iron (II)	ND	1.00	0.990	99	0.970	97	70-130	2	0-25	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/11/12
Work Order No: 12-12-0685
Preparation: N/A
Method: SM 5310 D

Project Raytheon Canoga Park EISB (Ph VI) M18

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-38	**Aqueous**	**TOC 6**	**12/12/12**	**12/12/12**	**C1212TOCS1**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	27	25	44	68	46	77	28-148	5	0-23	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/11/12
Work Order No: 12-12-0685
Preparation: EPA 245.1 Filt.
Method: EPA 245.1

Project Raytheon Canoga Park EISB (Ph VI) M18

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
CM-4D	**Aqueous**	**Mercury**	**12/12/12**	**12/12/12**	**121212S03**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.01000	0.007922	79	0.007736	77	57-141	2	0-10	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/11/12
Work Order No: 12-12-0685
Preparation: N/A
Method: HPLC/UV

Project Raytheon Canoga Park EISB (Ph VI) M18

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
CM-4D	**Aqueous**	**HPLC 6**	**N/A**	**12/13/12**	**121213S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	ND	20.00	16.51	83	17.34	87	70-130	5	0-30	
Butyric Acid	ND	20.00	18.51	93	20.43	102	70-130	10	0-30	
Lactic Acid	ND	20.00	15.38	77	16.15	81	70-130	5	0-30	
Propionic Acid	ND	20.00	18.15	91	16.71	84	70-130	8	0-30	
Pyruvic Acid	ND	2.000	2.020	101	2.120	106	70-130	5	0-30	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/11/12
Work Order No: 12-12-0685
Preparation: EPA 5030C
Method: EPA 8260B

Project Raytheon Canoga Park EISB (Ph VI) M18

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-12-0583-10	**Aqueous**	**GC/MS JJ**	**12/12/12**	**12/12/12**	**121212S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	47.11	94	49.97	100	78-120	6	0-20	
Carbon Tetrachloride	ND	50.00	46.92	94	50.01	100	67-139	6	0-20	
Chlorobenzene	ND	50.00	48.80	98	48.41	97	80-120	1	0-20	
1,2-Dibromoethane	ND	50.00	51.20	102	51.45	103	80-123	0	0-20	
1,2-Dichlorobenzene	ND	50.00	49.42	99	51.56	103	76-120	4	0-20	
1,2-Dichloroethane	ND	50.00	47.61	95	49.32	99	76-130	4	0-20	
1,1-Dichloroethene	ND	50.00	38.42	77	40.66	81	70-130	6	0-27	
Ethylbenzene	ND	50.00	52.02	104	51.37	103	73-127	1	0-20	
Toluene	ND	50.00	48.60	97	50.40	101	72-126	4	0-20	
Trichloroethene	ND	50.00	47.31	95	48.67	97	74-122	3	0-20	
Vinyl Chloride	ND	50.00	44.57	89	50.12	100	65-131	12	0-24	
p/m-Xylene	ND	100.0	106.4	106	105.3	105	70-130	1	0-30	
o-Xylene	ND	50.00	54.42	109	54.24	108	70-130	0	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	42.53	85	46.17	92	69-123	8	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-12-0685
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	RSK-175M

Project: Raytheon Canoga Park EISB (Ph VI) M18

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-659-473	**Aqueous**	**GC 14**	**N/A**	**12/12/12**	**121212L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Carbon Dioxide	102.0	93.55	92	92.89	91	80-120	1	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-12-0685
Preparation: N/A
Method: RSK-175M

Project: Raytheon Canoga Park EISB (Ph VI) M18

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-661-689	**Aqueous**	**GC 52**	**N/A**	**12/12/12**	**121212L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Ethane	99.60	96.10	96	94.91	95	80-120	1	0-20	
Ethylene	103.0	98.39	96	97.21	94	80-120	1	0-20	
Methane	98.50	94.12	96	93.45	95	80-120	1	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-12-0685
Preparation: Filtered
Method: EPA 200.8

Project: Raytheon Canoga Park EISB (Ph VI) M18

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-008-2,093	**Aqueous**	**ICP/MS 03**	**12/12/12**	**12/12/12**	**121212L05A**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Arsenic	0.1000	0.1152	115	0.1152	115	80-120	73-127	0	0-20	
Barium	0.1000	0.1033	103	0.1033	103	80-120	73-127	0	0-20	
Cadmium	0.1000	0.1030	103	0.1028	103	80-120	73-127	0	0-20	
Chromium	0.1000	0.1057	106	0.1080	108	80-120	73-127	2	0-20	
Copper	0.1000	0.1096	110	0.1101	110	80-120	73-127	0	0-20	
Lead	0.1000	0.1003	100	0.1006	101	80-120	73-127	0	0-20	
Selenium	0.1000	0.09945	99	0.1005	100	80-120	73-127	1	0-20	
Zinc	0.1000	0.1160	116	0.1165	116	80-120	73-127	0	0-20	
Calcium	5.000	5.353	107	5.073	101	80-120	73-127	5	0-20	
Iron	0.1000	0.1055	106	0.1036	104	80-120	73-127	2	0-20	
Magnesium	5.000	4.983	100	5.634	113	80-120	73-127	12	0-20	
Manganese	0.1000	0.09976	100	0.09819	98	80-120	73-127	2	0-20	
Potassium	1.000	1.114	111	1.050	105	80-120	73-127	6	0-20	
Sodium	1.000	1.097	110	1.142	114	80-120	73-127	4	0-20	
Boron	0.1000	0.09813	98	0.1009	101	80-120	73-127	3	0-20	

Total number of LCS compounds : 15
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-12-0685
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	EPA 7199

Project: Raytheon Canoga Park EISB (Ph VI) M18

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-123-3,246	**Aqueous**	**IC 14**	**N/A**	**12/11/12**	**121211L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	50	50	100	49	98	80-120	1	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-12-0685
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	EPA 300.0

Project: Raytheon Canoga Park EISB (Ph VI) M18

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-906-3,242	**Aqueous**	**IC 7**	**N/A**	**12/11/12**	**121211L02**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chloride	50	53	106	52	105	90-110	1	0-15	
Nitrite (as N)	2.5	2.5	102	2.5	101	90-110	1	0-15	
Bromide	5.0	5.3	106	5.2	104	90-110	2	0-15	
Nitrate (as N)	5.0	5.4	107	5.3	106	90-110	1	0-15	
o-Phosphate (as P)	2.5	2.5	99	2.7	109	90-110	9	0-15	
Sulfate	50	52	104	51	102	90-110	1	0-15	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-12-0685
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	EPA 300.0

Project: Raytheon Canoga Park EISB (Ph VI) M18

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-906-3,244	**Aqueous**	**IC 7**	**N/A**	**12/13/12**	**121213L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chloride	50	50	100	50	101	90-110	0	0-15	
Nitrite (as N)	2.5	2.6	105	2.6	104	90-110	0	0-15	
Bromide	5.0	5.0	101	5.0	101	90-110	0	0-15	
Nitrate (as N)	5.0	4.9	99	4.9	99	90-110	0	0-15	
o-Phosphate (as P)	2.5	2.4	96	2.4	96	90-110	1	0-15	
Sulfate	50	49	98	49	98	90-110	0	0-15	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-12-0685
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	SM 3500-FeB

Project: Raytheon Canoga Park EISB (Ph VI) M18

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-111-4,495	**Aqueous**	**UV 2**	**12/11/12**	**12/11/12**	**C1211FEL1**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Iron (II)	1.00	0.970	97	0.990	99	80-120	2	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-12-0685
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	SM 5310 D

Project: Raytheon Canoga Park EISB (Ph VI) M18

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-097-4,771	**Aqueous**	**TOC 6**	**12/12/12**	**12/12/12**	**C1212TOCL1**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	5.0	4.9	98	5.0	99	77-125	1	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-12-0685
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	SM 2540 C

Project: Raytheon Canoga Park EISB (Ph VI) M18

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-180-3,485	**Aqueous**	**N/A**	**12/13/12**	**12/13/12**	**C1213TDSL1**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	100	95	95	100	100	80-120	5	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-12-0685
Ventura, CA 93001-2624		Preparation:	EPA 245.1 Filt.
		Method:	EPA 245.1

Project: Raytheon Canoga Park EISB (Ph VI) M18

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-008-6,310	**Aqueous**	**Mercury**	**12/12/12**	**12/12/12**	**121212L03F**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	0.01000	0.01086	109	0.01078	108	85-121	1	0-10	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-12-0685
Preparation: N/A
Method: HPLC/UV

Project: Raytheon Canoga Park EISB (Ph VI) M18

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-016-357	**Aqueous**	**HPLC 6**	**N/A**	**12/13/12**	**121213L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	20.00	18.80	94	18.12	91	80-120	4	0-20	
Butyric Acid	20.00	19.53	98	18.73	94	80-120	4	0-20	
Lactic Acid	20.00	18.69	93	18.86	94	80-120	1	0-20	
Propionic Acid	20.00	18.72	94	18.66	93	80-120	0	0-20	
Pyruvic Acid	2.000	1.930	96	2.020	101	80-120	5	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-12-0685
Preparation: EPA 5030C
Method: EPA 8260B

Project: Raytheon Canoga Park EISB (Ph VI) M18

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-9,620	**Aqueous**	**GC/MS JJ**	**12/12/12**	**12/12/12**	**121212L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	52.60	105	48.48	97	80-120	73-127	8	0-20	
Carbon Tetrachloride	50.00	51.69	103	46.68	93	66-138	54-150	10	0-20	
Chlorobenzene	50.00	52.62	105	48.09	96	80-120	73-127	9	0-20	
1,2-Dibromoethane	50.00	56.53	113	51.50	103	80-120	73-127	9	0-20	
1,2-Dichlorobenzene	50.00	55.03	110	50.06	100	80-120	73-127	9	0-20	
1,2-Dichloroethane	50.00	52.73	105	47.93	96	80-129	72-137	10	0-20	
1,1-Dichloroethene	50.00	42.68	85	39.43	79	71-131	61-141	8	0-20	
Ethylbenzene	50.00	55.98	112	50.70	101	80-123	73-130	10	0-20	
Toluene	50.00	54.51	109	49.36	99	79-121	72-128	10	0-20	
Trichloroethene	50.00	52.26	105	47.59	95	80-120	73-127	9	0-20	
Vinyl Chloride	50.00	52.22	104	48.81	98	70-136	59-147	7	0-20	
p/m-Xylene	100.0	115.2	115	104.8	105	75-125	67-133	10	0-25	
o-Xylene	50.00	60.27	121	53.31	107	75-125	67-133	12	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	47.69	95	44.49	89	72-126	63-135	7	0-22	

Total number of LCS compounds : 14
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 12-12-0685

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
MPN - Most Probable Number

Return to Contents

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: 12-11-12

PAGE: 1 OF 1

LABORATORY CLIENT: OTIE

ADDRESS: 317 E. Main Street, Ventura CA 93001

TEL: 805.585.2110 | FAX: 805.585.2111 | E-MAIL: ksawyer@otie.com

CLIENT PROJECT NAME / NUMBER: Raytheon CANOGA PARK EISB (PhVI) M18

P.O. NO.: 2009.025/0610

PROJECT CONTACT: Kim Sawyer

LAB USE ONLY: 12-12-0685

SAMPLER(S): (SIGNATURE)

COELT LOG CODE: T N A V

COOLER RECEIPT: Temp = _____ °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ☐ 5 DAYS ☒ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING ☒ COELT EDF ☒ WDR 100000974

SPECIAL INSTRUCTIONS:
EPA 200.8 - As,Ba,B,Ca,Cd,Cr,Cu,Fe,Pb,Mg,Mn,K,Se,Na&Zn
EPA 200.8, 245.1 Samples field filtered
** OTIE SPECIFIC EDDs **

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	EPA 8260B - VOCs	HPLC/UV - VFAs (Organic Acids)	RSK-175M - Methane,Ethane,Ethene	RSK-175M - Carbon Dioxide	EPA 300.0 - Br,Cl,NO2,NO3, o-PO4,SO4	SM 3500-FeB - Ferrous Iron	SM2540C - TDS	SM5310D - TOC	EPA 7199 - Hexavalent Chromium	EPA 245.1 - Hg	EPA 200.8 - See Special Instructions		CONTAINER TYPE
1	CM-4D	CM-4D	12-6-12	0820	GW	14	X	X	X	X	X	X	X	X	X	X	X		
2	CM-16	CM-16		1340	GW	14	X	X	X	X	X	X	X	X	X	X	X		
3	MW-38	MW-38		1435	GW	14	X	X	X	X	X	X	X	X	X	X	X		
4	DUP-269	DUP		0845	GW	3	X												
5	TB2- 12/12	QCTB		1415	GW	2	X												

Relinquished by: (Signature)	Received by: (Signature) COEL	Date: 12/11/12	Time: 1500
Relinquished by: (Signature)	Received by: (Signature) COEL	Date: 12/11/12	Time: 17:30
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

DATE

Return to Contents

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-12-0685

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: OTie DATE: 12/11/12

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.8 °C - 0.3 °C (CF) = 2.5 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Initial: _____

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: _____

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: YL

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☑VOA (2) ☑VOAh (5) ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna_2 ☐1AGBs

☐500AGB ☐500AGJ ☐500AGJs ☑250AGB ☐250CGB ☑250CGBs ☑1PB ☐1PBna ☑500PB

☐250PB ☑250PBn (1) ☐125PB ☐125PBznna ☐100PJ ☐100PJna_2 ☑VOA (2) ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:** 121113A **Labeled/Checked by:** YL

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** JS

Preservative: h: HCL n: HNO_3 na_2:$Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered **Scanned by:** JS

Return to Contents

Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-12-0688

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: OTIE

Client Project Name: Raytheon Canoga Park A12 / 2009.025/0510

Attention: Kim Sawyer
317 East Main Street
Ventura, CA 93001-2624

Approved for release on 12/19/2012 by:
Virendra Patel
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: Raytheon Canoga Park A12 / 2009.025/0510
Work Order Number: 12-12-0688

1 Detections Summary 3

2 Client Sample Data 4
2.1 EPA 8260B Volatile Organics (Aqueous) 4

3 Quality Control Sample Data 9
3.1 MS/MSD and/or Duplicate 9
3.2 LCS/LCSD 10

4 Glossary of Terms and Qualifiers 11

5 Chain of Custody/Sample Receipt Form 12

Client:	OTIE	Work Order:	12-12-0688
	317 East Main Street	Project name:	Raytheon Canoga Park A12 / 2009.025/0510
	Ventura, CA 93001-2624	Received:	12/11/12 17:30
Attn:	Kim Sawyer		

DETECTIONS SUMMARY

Client Sample ID Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
CM-19 (12-12-0688-2)						
1,1-Dichloroethene	**21**		1.0	ug/L	EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

Return to Contents

*MDL is shown.

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	12/11/12
317 East Main Street		Work Order No:	12-12-0688
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L

Project: Raytheon Canoga Park A12 / 2009.025/0510

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-17	**12-12-0688-1-A**	**12/11/12 10:40**	**Aqueous**	**GC/MS JJ**	**12/12/12**	**12/13/12 02:48**	**121212L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	92	80-120			Dibromofluoromethane	107	80-126		
1,2-Dichloroethane-d4	118	80-134			Toluene-d8	100	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	12/11/12
317 East Main Street		Work Order No:	12-12-0688
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L

Project: Raytheon Canoga Park A12 / 2009.025/0510

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CM-19	**12-12-0688-2-A**	**12/11/12 11:45**	**Aqueous**	**GC/MS JJ**	**12/12/12**	**12/13/12 06:19**	**121212L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	21	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	92	80-120		Dibromofluoromethane	102	80-126	
1,2-Dichloroethane-d4	108	80-134		Toluene-d8	98	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/11/12
Work Order No: 12-12-0688
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park A12 / 2009.025/0510

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CM-14	**12-12-0688-3-A**	**12/11/12 12:30**	**Aqueous**	**GC/MS JJ**	**12/12/12**	**12/13/12 06:48**	**121212L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	91	80-120			Dibromofluoromethane	104	80-126		
1,2-Dichloroethane-d4	111	80-134			Toluene-d8	97	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	12/11/12
317 East Main Street		Work Order No:	12-12-0688
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L

Project: Raytheon Canoga Park A12 / 2009.025/0510

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-121112	**12-12-0688-4-A**	**12/11/12 13:00**	**Aqueous**	**GC/MS JJ**	**12/12/12**	**12/13/12 02:19**	**121212L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	92	80-120			Dibromofluoromethane	105	80-126		
1,2-Dichloroethane-d4	115	80-134			Toluene-d8	100	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/11/12
Work Order No: 12-12-0688
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park A12 / 2009.025/0510

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-9,644**	**N/A**	**Aqueous**	**GC/MS JJ**	**12/12/12**	**12/13/12 00:47**	**121212L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	91	80-120			Dibromofluoromethane	98	80-126		
1,2-Dichloroethane-d4	109	80-134			Toluene-d8	98	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/11/12
Work Order No: 12-12-0688
Preparation: EPA 5030C
Method: EPA 8260B

Project Raytheon Canoga Park A12 / 2009.025/0510

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-17	**Aqueous**	**GC/MS JJ**	**12/12/12**	**12/13/12**	**121212S02**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	58.97	118	53.67	107	78-120	9	0-20	
Carbon Tetrachloride	ND	50.00	55.83	112	49.72	99	67-139	12	0-20	
Chlorobenzene	ND	50.00	55.41	111	51.44	103	80-120	7	0-20	
1,2-Dibromoethane	ND	50.00	62.19	124	57.08	114	80-123	9	0-20	3
1,2-Dichlorobenzene	ND	50.00	56.72	113	54.28	109	76-120	4	0-20	
1,2-Dichloroethane	ND	50.00	60.28	121	53.96	108	76-130	11	0-20	
1,1-Dichloroethene	ND	50.00	44.84	90	42.47	85	70-130	5	0-27	
Ethylbenzene	ND	50.00	58.80	118	53.64	107	73-127	9	0-20	
Toluene	ND	50.00	59.43	119	54.11	108	72-126	9	0-20	
Trichloroethene	ND	50.00	58.24	116	51.73	103	74-122	12	0-20	
Vinyl Chloride	ND	50.00	52.48	105	50.52	101	65-131	4	0-24	
p/m-Xylene	ND	100.0	122.4	122	110.1	110	70-130	11	0-30	
o-Xylene	ND	50.00	63.62	127	56.64	113	70-130	12	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	52.91	106	48.58	97	69-123	9	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-12-0688
Preparation: EPA 5030C
Method: EPA 8260B

Project: Raytheon Canoga Park A12 / 2009.025/0510

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-9,644	**Aqueous**	**GC/MS JJ**	**12/12/12**	**12/12/12**	**121212L02**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	48.13	96	54.04	108	80-120	73-127	12	0-20	
Carbon Tetrachloride	50.00	47.29	95	51.50	103	66-138	54-150	9	0-20	
Chlorobenzene	50.00	47.69	95	54.05	108	80-120	73-127	12	0-20	
1,2-Dibromoethane	50.00	51.93	104	58.63	117	80-120	73-127	12	0-20	
1,2-Dichlorobenzene	50.00	49.61	99	55.38	111	80-120	73-127	11	0-20	
1,2-Dichloroethane	50.00	48.78	98	54.38	109	80-129	72-137	11	0-20	
1,1-Dichloroethene	50.00	39.75	79	43.52	87	71-131	61-141	9	0-20	
Ethylbenzene	50.00	49.96	100	56.69	113	80-123	73-130	13	0-20	
Toluene	50.00	49.01	98	54.87	110	79-121	72-128	11	0-20	
Trichloroethene	50.00	47.15	94	51.40	103	80-120	73-127	9	0-20	
Vinyl Chloride	50.00	48.58	97	53.46	107	70-136	59-147	10	0-20	
p/m-Xylene	100.0	104.4	104	116.1	116	75-125	67-133	11	0-25	
o-Xylene	50.00	54.08	108	60.24	120	75-125	67-133	11	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	46.37	93	50.91	102	72-126	63-135	9	0-22	

Total number of LCS compounds : 14
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 12-12-0688

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
MPN - Most Probable Number

Return to Contents

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: 12-11-12

PAGE: 1 OF 1

LABORATORY CLIENT: OTIE

ADDRESS: 317 E. Main Street, Ventura CA 93001

TEL: 805.585.2110 | FAX: 805.585.2111 | E-MAIL: ksawyer@otie.com

CLIENT PROJECT NAME / NUMBER: Raytheon CANOGA PARK A12

PROJECT CONTACT: Kim Sawyer

SAMPLER(S): (SIGNATURE)

P.O. NO.: 2009.025/0510

LAB USE ONLY: 12-12-0688

COELT LOG CODE: T N A V

COOLER RECEIPT: Temp = _____ °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ☐ 5 DAYS ☒ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING ☒ COELT EDF ☒ SL2043T1572

SPECIAL INSTRUCTIONS: ** PEMACO EDD/COELT EDF **

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	EPA 8260B - VOCs	CONTAINER TYPE
1	MW-17		12-11-12	1040	GW	3	X	
2	CM-19			1145	GW	3	X	
3	CM-14			1230	GW	3	X	
4	TB-12112			1300	GW	3	X	
					GW	3	X	
					GW	3	X	
					GW	3	X	
					GW	3	X	
					GW	3	X	
					GW	3	X	

Relinquished by: (Signature)	Received by: (Signature) CEL	Date: 12/11/12	Time: 15:00
Relinquished by: (Signature)	Received by: (Signature) Bonnyle CEL	Date: 12/11/12	Time: 17:30
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

11/14/2012

Return to Contents

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-12-0688

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: OTie

DATE: 12/11/12

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.6 °C - 0.3 °C (CF) = 2.3 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Initial: JF

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: JF

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: AR

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA (11) VSC 12-12-12 ☑VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:** 121116A **Labeled/Checked by:** AR

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** VSC

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:**

Return to Contents

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-12-6688

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

Comments:

- ☐ **Sample(s) NOT RECEIVED but listed on COC**
- ☐ **Sample(s) received but NOT LISTED on COC**
- ☐ **Holding time expired** – list sample ID(s) and test
- ☐ **Insufficient quantities for analysis** – list test
- ☐ **Improper container(s) used** – list test
- ☐ **Improper preservative used** – list test
- ☐ **No preservative noted on COC or label** – list test & notify lab (4) received 2 vials only
- ☐ **Sample labels illegible** – note test/container type
- ☑ **Sample label(s) do not match COC** – Note in comments
  - ☐ **Sample ID**
  - ☐ **Date and/or Time Collected**
  - ☐ **Project Information**
  - ☑ **# of Container(s)**
  - ☐ **Analysis**
- ☐ **Sample container(s) compromised** – Note in comments
  - ☐ **Water present in sample container**
  - ☐ **Broken**
- ☐ **Sample container(s) not labeled**
- ☐ **Air sample container(s) compromised** – Note in comments
  - ☐ **Flat**
  - ☐ **Very low in volume**
  - ☐ **Leaking (Not transferred - duplicate bag submitted)**
  - ☐ **Leaking (transferred into Calscience Tedlar® Bag*)**
  - ☐ **Leaking (transferred into Client's Tedlar® Bag*)**
- ☐ **Other:** _____

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis

Comments: _____

*Transferred at Client's request.

Initial / Date: WS 12/11/12

Return to Contents

Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-12-1425

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: OTIE

Client Project Name: Raytheon Canoga Park A12

Attention: Kim Sawyer
317 East Main Street
Ventura, CA 93001-2624

Approved for release on 12/31/2012 by:
Virendra Patel
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: Raytheon Canoga Park A12
Work Order Number: 12-12-1425

1 Detections Summary 3

2 Client Sample Data 4
2.1 EPA 8260B Volatile Organics (Aqueous) 4

3 Quality Control Sample Data 30
3.1 MS/MSD and/or Duplicate 30
3.2 LCS/LCSD 34

4 Glossary of Terms and Qualifiers 38

5 Chain of Custody/Sample Receipt Form 39

Calscience Environmental Laboratories, Inc.

Client:	OTIE	Work Order:	12-12-1425
	317 East Main Street	Project name:	Raytheon Canoga Park A12
	Ventura, CA 93001-2624	Received:	12/20/12 18:30
Attn:	Kim Sawyer		

DETECTIONS SUMMARY

Client Sample ID / Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
CM-2D (12-12-1425-1)						
1,1-Dichloroethene	**1.8**		1.0	ug/L	EPA 8260B	EPA 5030C
MW-23 (12-12-1425-3)						
Vinyl Chloride	**80**		1.0	ug/L	EPA 8260B	EPA 5030C
CM-8D (12-12-1425-11)						
1,1-Dichloroethane	**1.1**		1.0	ug/L	EPA 8260B	EPA 5030C
1,1-Dichloroethene	**14**		1.0	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	**6.5**		1.0	ug/L	EPA 8260B	EPA 5030C
MW-37 (12-12-1425-12)						
Chloroform	**4.6**		1.0	ug/L	EPA 8260B	EPA 5030C
1,1-Dichloroethene	**47**		1.0	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	**5.4**		1.0	ug/L	EPA 8260B	EPA 5030C
DUP-A12b-121812 (12-12-1425-13)						
Chloroform	**4.2**		1.0	ug/L	EPA 8260B	EPA 5030C
1,1-Dichloroethene	**41**		1.0	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	**4.9**		1.0	ug/L	EPA 8260B	EPA 5030C
MW-36 (12-12-1425-19)						
Acetone	**59**		20	ug/L	EPA 8260B	EPA 5030C
Toluene	**4.1**		1.0	ug/L	EPA 8260B	EPA 5030C
Vinyl Chloride	**1.2**		0.50	ug/L	EPA 8260B	EPA 5030C
M-1 (12-12-1425-21)						
Acetone	**810**		200	ug/L	EPA 8260B	EPA 5030C
2-Butanone	**1000**		100	ug/L	EPA 8260B	EPA 5030C
1,1-Dichloroethene	**13**		10	ug/L	EPA 8260B	EPA 5030C
2-Hexanone	**310**		100	ug/L	EPA 8260B	EPA 5030C
Vinyl Chloride	**40**		5.0	ug/L	EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

*MDL is shown.

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	12/20/12
317 East Main Street		Work Order No:	12-12-1425
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L

Project: Raytheon Canoga Park A12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CM-2D	**12-12-1425-1-A**	**12/14/12 09:30**	**Aqueous**	**GC/MS W**	**12/21/12**	**12/21/12 20:10**	**121221L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	1.8	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	91	80-120			Dibromofluoromethane	118	80-126		
1,2-Dichloroethane-d4	113	80-134			Toluene-d8	101	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	12/20/12
317 East Main Street		Work Order No:	12-12-1425
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L

Project: Raytheon Canoga Park A12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Dup-A12a-121412	**12-12-1425-2-B**	**12/14/12 09:50**	**Aqueous**	**GC/MS GGG**	**12/22/12**	**12/22/12 19:55**	**121222L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	97	80-120			Dibromofluoromethane	102	80-126		
1,2-Dichloroethane-d4	101	80-134			Toluene-d8	100	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/20/12
Work Order No: 12-12-1425
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park A12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-23	**12-12-1425-3-B**	**12/14/12 10:35**	**Aqueous**	**GC/MS GGG**	**12/22/12**	**12/22/12 20:29**	**121222L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	40	2		1,3-Dichloropropane	ND	2.0	2	
Benzene	ND	1.0	2		2,2-Dichloropropane	ND	2.0	2	
Bromobenzene	ND	2.0	2		1,1-Dichloropropene	ND	2.0	2	
Bromochloromethane	ND	2.0	2		c-1,3-Dichloropropene	ND	1.0	2	
Bromodichloromethane	ND	2.0	2		t-1,3-Dichloropropene	ND	1.0	2	
Bromoform	ND	2.0	2		Ethylbenzene	ND	2.0	2	
Bromomethane	ND	20	2		2-Hexanone	ND	20	2	
2-Butanone	ND	20	2		Isopropylbenzene	ND	2.0	2	
n-Butylbenzene	ND	2.0	2		p-Isopropyltoluene	ND	2.0	2	
sec-Butylbenzene	ND	2.0	2		Methylene Chloride	ND	20	2	
tert-Butylbenzene	ND	2.0	2		4-Methyl-2-Pentanone	ND	20	2	
Carbon Disulfide	ND	20	2		Naphthalene	ND	20	2	
Carbon Tetrachloride	ND	1.0	2		n-Propylbenzene	ND	2.0	2	
Chlorobenzene	ND	2.0	2		Styrene	ND	2.0	2	
Chloroethane	ND	10	2		1,1,1,2-Tetrachloroethane	ND	2.0	2	
Chloroform	ND	2.0	2		1,1,2,2-Tetrachloroethane	ND	2.0	2	
Chloromethane	ND	20	2		Tetrachloroethene	ND	2.0	2	
2-Chlorotoluene	ND	2.0	2		Toluene	ND	2.0	2	
4-Chlorotoluene	ND	2.0	2		1,2,3-Trichlorobenzene	ND	2.0	2	
Dibromochloromethane	ND	2.0	2		1,2,4-Trichlorobenzene	ND	2.0	2	
1,2-Dibromo-3-Chloropropane	ND	10	2		1,1,1-Trichloroethane	ND	2.0	2	
1,2-Dibromoethane	ND	2.0	2		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	20	2	
Dibromomethane	ND	2.0	2		1,1,2-Trichloroethane	ND	2.0	2	
1,2-Dichlorobenzene	ND	2.0	2		Trichloroethene	ND	2.0	2	
1,3-Dichlorobenzene	ND	2.0	2		Trichlorofluoromethane	ND	20	2	
1,4-Dichlorobenzene	ND	2.0	2		1,2,3-Trichloropropane	ND	10	2	
Dichlorodifluoromethane	ND	2.0	2		1,2,4-Trimethylbenzene	ND	2.0	2	
1,1-Dichloroethane	ND	2.0	2		1,3,5-Trimethylbenzene	ND	2.0	2	
1,2-Dichloroethane	ND	1.0	2		Vinyl Acetate	ND	20	2	
1,1-Dichloroethene	ND	2.0	2		Vinyl Chloride	80	1.0	2	
c-1,2-Dichloroethene	ND	2.0	2		p/m-Xylene	ND	2.0	2	
t-1,2-Dichloroethene	ND	2.0	2		o-Xylene	ND	2.0	2	
1,2-Dichloropropane	ND	2.0	2		Methyl-t-Butyl Ether (MTBE)	ND	2.0	2	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	98	80-120		Dibromofluoromethane	102	80-126	
1,2-Dichloroethane-d4	104	80-134		Toluene-d8	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/20/12
Work Order No: 12-12-1425
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park A12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-15	**12-12-1425-4-B**	**12/14/12 11:20**	**Aqueous**	**GC/MS GGG**	**12/22/12**	**12/22/12 21:02**	**121222L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	96	80-120			Dibromofluoromethane	102	80-126		
1,2-Dichloroethane-d4	103	80-134			Toluene-d8	100	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	12/20/12
317 East Main Street		Work Order No:	12-12-1425
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L

Project: Raytheon Canoga Park A12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CM-13	**12-12-1425-5-A**	**12/14/12 12:35**	**Aqueous**	**GC/MS XX**	**12/21/12**	**12/22/12 01:07**	**121221L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	92	80-120			Dibromofluoromethane	113	80-126		
1,2-Dichloroethane-d4	117	80-134			Toluene-d8	99	80-120		

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	12/20/12
317 East Main Street		Work Order No:	12-12-1425
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L

Project: Raytheon Canoga Park A12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CM-7D	**12-12-1425-6-A**	**12/14/12 13:25**	**Aqueous**	**GC/MS XX**	**12/21/12**	**12/22/12 01:35**	**121221L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	92	80-120			Dibromofluoromethane	111	80-126		
1,2-Dichloroethane-d4	111	80-134			Toluene-d8	103	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	12/20/12
317 East Main Street		Work Order No:	12-12-1425
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L

Project: Raytheon Canoga Park A12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-20S	**12-12-1425-7-A**	**12/17/12 09:30**	**Aqueous**	**GC/MS XX**	**12/21/12**	**12/22/12 02:03**	**121221L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	95	80-120			Dibromofluoromethane	115	80-126		
1,2-Dichloroethane-d4	121	80-134			Toluene-d8	102	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	12/20/12
317 East Main Street		Work Order No:	12-12-1425
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Raytheon Canoga Park A12			Page 8 of 26

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-19S	**12-12-1425-8-A**	**12/17/12 10:45**	**Aqueous**	**GC/MS XX**	**12/21/12**	**12/22/12 02:31**	**121221L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	93	80-120			Dibromofluoromethane	110	80-126		
1,2-Dichloroethane-d4	113	80-134			Toluene-d8	102	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/20/12
Work Order No: 12-12-1425
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park A12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-19D	**12-12-1425-9-A**	**12/17/12 11:30**	**Aqueous**	**GC/MS XX**	**12/21/12**	**12/22/12 02:59**	**121221L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	92	80-120			Dibromofluoromethane	111	80-126		
1,2-Dichloroethane-d4	115	80-134			Toluene-d8	100	80-120		

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/20/12
Work Order No: 12-12-1425
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park A12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CM-9D	**12-12-1425-10-A**	**12/17/12 13:40**	**Aqueous**	**GC/MS XX**	**12/21/12**	**12/22/12 03:27**	**121221L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	96	80-120			Dibromofluoromethane	115	80-126		
1,2-Dichloroethane-d4	126	80-134			Toluene-d8	102	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	12/20/12
317 East Main Street		Work Order No:	12-12-1425
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L

Project: Raytheon Canoga Park A12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CM-8D	**12-12-1425-11-A**	**12/18/12 10:00**	**Aqueous**	**GC/MS XX**	**12/21/12**	**12/22/12 03:55**	**121221L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	6.5	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	1.1	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	14	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	91	80-120			Dibromofluoromethane	109	80-126		
1,2-Dichloroethane-d4	112	80-134			Toluene-d8	101	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/20/12
Work Order No: 12-12-1425
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park A12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-37	**12-12-1425-12-A**	**12/18/12 11:50**	**Aqueous**	**GC/MS XX**	**12/21/12**	**12/21/12 23:15**	**121221L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	4.6	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	5.4	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	47	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	94	80-120		Dibromofluoromethane	116	80-126	
1,2-Dichloroethane-d4	122	80-134		Toluene-d8	102	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/20/12
Work Order No: 12-12-1425
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park A12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DUP-A12b-121812	**12-12-1425-13-A**	**12/18/12 12:15**	**Aqueous**	**GC/MS XX**	**12/21/12**	**12/22/12 04:23**	**121221L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	4.2	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	4.9	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	41	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	94	80-120			Dibromofluoromethane	113	80-126		
1,2-Dichloroethane-d4	117	80-134			Toluene-d8	102	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/20/12
Work Order No: 12-12-1425
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park A12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CM-18	**12-12-1425-14-A**	**12/18/12 13:30**	**Aqueous**	**GC/MS XX**	**12/21/12**	**12/22/12 04:51**	**121221L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	92	80-120			Dibromofluoromethane	110	80-126		
1,2-Dichloroethane-d4	116	80-134			Toluene-d8	102	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/20/12
Work Order No: 12-12-1425
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park A12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-24	**12-12-1425-15-A**	**12/18/12 15:00**	**Aqueous**	**GC/MS XX**	**12/21/12**	**12/22/12 05:19**	**121221L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	94	80-120			Dibromofluoromethane	113	80-126		
1,2-Dichloroethane-d4	120	80-134			Toluene-d8	103	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	12/20/12
317 East Main Street		Work Order No:	12-12-1425
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L

Project: Raytheon Canoga Park A12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-25	**12-12-1425-16-A**	**12/19/12 09:00**	**Aqueous**	**GC/MS XX**	**12/21/12**	**12/22/12 05:47**	**121221L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	95	80-120			Dibromofluoromethane	114	80-126		
1,2-Dichloroethane-d4	118	80-134			Toluene-d8	104	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	12/20/12
317 East Main Street		Work Order No:	12-12-1425
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L

Project: Raytheon Canoga Park A12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-26	**12-12-1425-17-B**	**12/19/12 10:00**	**Aqueous**	**GC/MS XX**	**12/26/12**	**12/27/12 04:16**	**121226L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	96	80-120			Dibromofluoromethane	114	80-126		
1,2-Dichloroethane-d4	119	80-134			Toluene-d8	102	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	12/20/12
317 East Main Street		Work Order No:	12-12-1425
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L

Project: Raytheon Canoga Park A12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-27	**12-12-1425-18-B**	**12/19/12 11:15**	**Aqueous**	**GC/MS XX**	**12/26/12**	**12/27/12 04:44**	**121226L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	93	80-120			Dibromofluoromethane	112	80-126		
1,2-Dichloroethane-d4	120	80-134			Toluene-d8	101	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/20/12
Work Order No: 12-12-1425
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park A12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-36	**12-12-1425-19-B**	**12/19/12 13:45**	**Aqueous**	**GC/MS XX**	**12/26/12**	**12/27/12 05:12**	**121226L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	59	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	4.1	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	1.2	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	93	80-120		Dibromofluoromethane	117	80-126	
1,2-Dichloroethane-d4	130	80-134		Toluene-d8	97	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/20/12
Work Order No: 12-12-1425
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park A12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-16	**12-12-1425-20-B**	**12/20/12 10:15**	**Aqueous**	**GC/MS XX**	**12/26/12**	**12/27/12 05:40**	**121226L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	91	80-120			Dibromofluoromethane	109	80-126		
1,2-Dichloroethane-d4	112	80-134			Toluene-d8	101	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/20/12
Work Order No: 12-12-1425
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park A12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
M-1	**12-12-1425-21-B**	**12/20/12 11:30**	**Aqueous**	**GC/MS XX**	**12/26/12**	**12/27/12 06:08**	**121226L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	810	200	10		1,3-Dichloropropane	ND	10	10	
Benzene	ND	5.0	10		2,2-Dichloropropane	ND	10	10	
Bromobenzene	ND	10	10		1,1-Dichloropropene	ND	10	10	
Bromochloromethane	ND	10	10		c-1,3-Dichloropropene	ND	5.0	10	
Bromodichloromethane	ND	10	10		t-1,3-Dichloropropene	ND	5.0	10	
Bromoform	ND	10	10		Ethylbenzene	ND	10	10	
Bromomethane	ND	100	10		2-Hexanone	310	100	10	
2-Butanone	1000	100	10		Isopropylbenzene	ND	10	10	
n-Butylbenzene	ND	10	10		p-Isopropyltoluene	ND	10	10	
sec-Butylbenzene	ND	10	10		Methylene Chloride	ND	100	10	
tert-Butylbenzene	ND	10	10		4-Methyl-2-Pentanone	ND	100	10	
Carbon Disulfide	ND	100	10		Naphthalene	ND	100	10	
Carbon Tetrachloride	ND	5.0	10		n-Propylbenzene	ND	10	10	
Chlorobenzene	ND	10	10		Styrene	ND	10	10	
Chloroethane	ND	50	10		1,1,1,2-Tetrachloroethane	ND	10	10	
Chloroform	ND	10	10		1,1,2,2-Tetrachloroethane	ND	10	10	
Chloromethane	ND	100	10		Tetrachloroethene	ND	10	10	
2-Chlorotoluene	ND	10	10		Toluene	ND	10	10	
4-Chlorotoluene	ND	10	10		1,2,3-Trichlorobenzene	ND	10	10	
Dibromochloromethane	ND	10	10		1,2,4-Trichlorobenzene	ND	10	10	
1,2-Dibromo-3-Chloropropane	ND	50	10		1,1,1-Trichloroethane	ND	10	10	
1,2-Dibromoethane	ND	10	10		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	100	10	
Dibromomethane	ND	10	10		1,1,2-Trichloroethane	ND	10	10	
1,2-Dichlorobenzene	ND	10	10		Trichloroethene	ND	10	10	
1,3-Dichlorobenzene	ND	10	10		Trichlorofluoromethane	ND	100	10	
1,4-Dichlorobenzene	ND	10	10		1,2,3-Trichloropropane	ND	50	10	
Dichlorodifluoromethane	ND	10	10		1,2,4-Trimethylbenzene	ND	10	10	
1,1-Dichloroethane	ND	10	10		1,3,5-Trimethylbenzene	ND	10	10	
1,2-Dichloroethane	ND	5.0	10		Vinyl Acetate	ND	100	10	
1,1-Dichloroethene	13	10	10		Vinyl Chloride	40	5.0	10	
c-1,2-Dichloroethene	ND	10	10		p/m-Xylene	ND	10	10	
t-1,2-Dichloroethene	ND	10	10		o-Xylene	ND	10	10	
1,2-Dichloropropane	ND	10	10		Methyl-t-Butyl Ether (MTBE)	ND	10	10	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	92	80-120		Dibromofluoromethane	119	80-126	
1,2-Dichloroethane-d4	128	80-134		Toluene-d8	98	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	12/20/12
317 East Main Street		Work Order No:	12-12-1425
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L

Project: Raytheon Canoga Park A12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-122012	**12-12-1425-22-B**	**12/20/12 12:00**	**Aqueous**	**GC/MS XX**	**12/26/12**	**12/27/12 00:31**	**121226L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	94	80-120			Dibromofluoromethane	114	80-126		
1,2-Dichloroethane-d4	118	80-134			Toluene-d8	103	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/20/12
Work Order No: 12-12-1425
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park A12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-9,718**	**N/A**	**Aqueous**	**GC/MS W**	**12/21/12**	**12/21/12 12:23**	**121221L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	94	80-120			Dibromofluoromethane	108	80-126		
1,2-Dichloroethane-d4	107	80-134			Toluene-d8	99	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/20/12
Work Order No: 12-12-1425
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park A12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-9,721**	**N/A**	**Aqueous**	**GC/MS XX**	**12/21/12**	**12/21/12 22:47**	**121221L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	94	80-120			Dibromofluoromethane	113	80-126		
1,2-Dichloroethane-d4	117	80-134			Toluene-d8	99	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/20/12
Work Order No: 12-12-1425
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park A12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-9,727**	**N/A**	**Aqueous**	**GC/MS XX**	**12/26/12**	**12/27/12 00:02**	**121226L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	93	80-120		Dibromofluoromethane	112	80-126	
1,2-Dichloroethane-d4	118	80-134		Toluene-d8	102	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/20/12
Work Order No: 12-12-1425
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park A12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-9,734**	**N/A**	**Aqueous**	**GC/MS GGG**	**12/22/12**	**12/22/12 12:10**	**121222L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	97	80-120			Dibromofluoromethane	100	80-126		
1,2-Dichloroethane-d4	95	80-134			Toluene-d8	100	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/20/12
Work Order No: 12-12-1425
Preparation: EPA 5030C
Method: EPA 8260B

Project Raytheon Canoga Park A12

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
CM-2D	**Aqueous**	**GC/MS W**	**12/21/12**	**12/21/12**	**121221S02**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	53.84	108	52.43	105	78-120	3	0-20	
Carbon Tetrachloride	ND	50.00	57.25	114	57.74	115	67-139	1	0-20	
Chlorobenzene	ND	50.00	57.37	115	55.30	111	80-120	4	0-20	
1,2-Dibromoethane	ND	50.00	57.91	116	56.33	113	80-123	3	0-20	
1,2-Dichlorobenzene	ND	50.00	55.35	111	54.64	109	76-120	1	0-20	
1,2-Dichloroethane	ND	50.00	55.23	110	52.53	105	76-130	5	0-20	
1,1-Dichloroethene	1.839	50.00	48.41	93	47.67	92	70-130	2	0-27	
Ethylbenzene	ND	50.00	57.62	115	56.02	112	73-127	3	0-20	
Toluene	ND	50.00	56.28	113	54.86	110	72-126	3	0-20	
Trichloroethene	ND	50.00	56.15	112	54.74	109	74-122	3	0-20	
Vinyl Chloride	ND	50.00	55.90	112	53.98	108	65-131	4	0-24	
p/m-Xylene	ND	100.0	114.7	115	111.4	111	70-130	3	0-30	
o-Xylene	ND	50.00	57.26	115	55.78	112	70-130	3	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	44.85	90	44.82	90	69-123	0	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/20/12
Work Order No: 12-12-1425
Preparation: EPA 5030C
Method: EPA 8260B

Project Raytheon Canoga Park A12

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-37	**Aqueous**	**GC/MS XX**	**12/21/12**	**12/21/12**	**121221S02**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	48.62	97	45.68	91	78-120	6	0-20	
Carbon Tetrachloride	ND	50.00	51.26	103	47.76	96	67-139	7	0-20	
Chlorobenzene	ND	50.00	47.70	95	45.86	92	80-120	4	0-20	
1,2-Dibromoethane	ND	50.00	48.22	96	46.84	94	80-123	3	0-20	
1,2-Dichlorobenzene	ND	50.00	47.10	94	46.17	92	76-120	2	0-20	
1,2-Dichloroethane	ND	50.00	51.60	103	50.04	100	76-130	3	0-20	
1,1-Dichloroethene	46.53	50.00	78.53	64	76.58	60	70-130	3	0-27	3
Ethylbenzene	ND	50.00	51.40	103	49.05	98	73-127	5	0-20	
Toluene	ND	50.00	49.96	100	47.40	95	72-126	5	0-20	
Trichloroethene	5.378	50.00	52.83	95	50.13	90	74-122	5	0-20	
Vinyl Chloride	ND	50.00	50.06	100	46.73	93	65-131	7	0-24	
p/m-Xylene	ND	100.0	108.2	108	100.7	101	70-130	7	0-30	
o-Xylene	ND	50.00	54.72	109	51.37	103	70-130	6	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	48.43	97	46.95	94	69-123	3	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/20/12
Work Order No: 12-12-1425
Preparation: EPA 5030C
Method: EPA 8260B

Project Raytheon Canoga Park A12

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-12-1404-2	**Aqueous**	**GC/MS GGG**	**12/22/12**	**12/22/12**	**121222S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	500.0	511.3	102	486.9	97	78-120	5	0-20	
Carbon Tetrachloride	ND	500.0	466.7	93	446.3	89	69-139	4	0-20	
Chlorobenzene	ND	500.0	540.6	108	518.4	104	70-130	4	0-20	
1,2-Dibromoethane	ND	500.0	555.0	111	545.1	109	80-123	2	0-20	
1,2-Dichlorobenzene	ND	500.0	535.0	107	504.9	101	76-120	6	0-20	
1,2-Dichloroethane	ND	500.0	522.4	104	513.4	103	76-130	2	0-20	
1,1-Dichloroethene	23.04	500.0	401.1	76	394.9	74	70-130	2	0-27	
Ethylbenzene	ND	500.0	548.9	110	519.6	104	73-127	5	0-20	
Toluene	ND	500.0	536.4	107	509.6	102	72-126	5	0-20	
Trichloroethene	78.52	500.0	602.7	105	576.1	100	74-122	5	0-20	
Vinyl Chloride	ND	500.0	439.1	88	434.1	87	65-131	1	0-24	
p/m-Xylene	ND	1000	1076	108	1012	101	70-130	6	0-20	
o-Xylene	ND	500.0	561.9	112	533.3	107	70-130	5	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	500.0	435.3	87	456.0	91	69-123	5	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 12/20/12
Work Order No: 12-12-1425
Preparation: EPA 5030C
Method: EPA 8260B

Project Raytheon Canoga Park A12

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-12-1526-2	**Aqueous**	**GC/MS XX**	**12/26/12**	**12/27/12**	**121226S02**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	50.19	100	50.80	102	78-120	1	0-20	
Carbon Tetrachloride	ND	50.00	51.90	104	53.87	108	67-139	4	0-20	
Chlorobenzene	ND	50.00	48.71	97	49.54	99	80-120	2	0-20	
1,2-Dibromoethane	ND	50.00	49.35	99	50.71	101	80-123	3	0-20	
1,2-Dichlorobenzene	ND	50.00	47.51	95	49.07	98	76-120	3	0-20	
1,2-Dichloroethane	ND	50.00	54.66	109	55.95	112	76-130	2	0-20	
1,1-Dichloroethene	3.270	50.00	47.68	89	49.17	92	70-130	3	0-27	
Ethylbenzene	ND	50.00	52.13	104	52.94	106	73-127	2	0-20	
Toluene	ND	50.00	51.67	103	52.34	105	72-126	1	0-20	
Trichloroethene	38.78	50.00	85.41	93	84.98	92	74-122	1	0-20	
Vinyl Chloride	ND	50.00	44.53	89	47.24	94	65-131	6	0-24	
p/m-Xylene	ND	100.0	108.5	108	110.2	110	70-130	2	0-30	
o-Xylene	ND	50.00	55.35	111	56.69	113	70-130	2	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	49.96	100	53.32	107	69-123	6	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-12-1425
Preparation: EPA 5030C
Method: EPA 8260B

Project: Raytheon Canoga Park A12

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-9,718	**Aqueous**	**GC/MS W**	**12/21/12**	**12/21/12**	**121221L02**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	51.95	104	52.60	105	80-120	73-127	1	0-20	
Carbon Tetrachloride	50.00	59.29	119	58.37	117	66-138	54-150	2	0-20	
Chlorobenzene	50.00	56.09	112	56.57	113	80-120	73-127	1	0-20	
1,2-Dibromoethane	50.00	56.23	112	58.07	116	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	50.00	55.64	111	56.44	113	80-120	73-127	1	0-20	
1,2-Dichloroethane	50.00	53.06	106	53.55	107	80-129	72-137	1	0-20	
1,1-Dichloroethene	50.00	44.44	89	44.98	90	71-131	61-141	1	0-20	
Ethylbenzene	50.00	56.34	113	56.45	113	80-123	73-130	0	0-20	
Toluene	50.00	55.00	110	56.00	112	79-121	72-128	2	0-20	
Trichloroethene	50.00	54.04	108	55.64	111	80-120	73-127	3	0-20	
Vinyl Chloride	50.00	52.47	105	51.24	102	70-136	59-147	2	0-20	
p/m-Xylene	100.0	112.1	112	112.8	113	75-125	67-133	1	0-25	
o-Xylene	50.00	55.78	112	56.16	112	75-125	67-133	1	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	45.28	91	46.79	94	72-126	63-135	3	0-22	

Total number of LCS compounds : 14
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-12-1425
Preparation: EPA 5030C
Method: EPA 8260B

Project: Raytheon Canoga Park A12

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-9,721	**Aqueous**	**GC/MS XX**	**12/21/12**	**12/21/12**	**121221L02**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	44.47	89	48.32	97	80-120	73-127	8	0-20	
Carbon Tetrachloride	50.00	47.28	95	51.13	102	66-138	54-150	8	0-20	
Chlorobenzene	50.00	44.87	90	48.35	97	80-120	73-127	7	0-20	
1,2-Dibromoethane	50.00	45.28	91	48.52	97	80-120	73-127	7	0-20	
1,2-Dichlorobenzene	50.00	44.66	89	47.99	96	80-120	73-127	7	0-20	
1,2-Dichloroethane	50.00	47.89	96	50.80	102	80-129	72-137	6	0-20	
1,1-Dichloroethene	50.00	39.87	80	42.59	85	71-131	61-141	7	0-20	
Ethylbenzene	50.00	48.27	97	52.04	104	80-123	73-130	8	0-20	
Toluene	50.00	46.63	93	50.01	100	79-121	72-128	7	0-20	
Trichloroethene	50.00	44.07	88	48.30	97	80-120	73-127	9	0-20	
Vinyl Chloride	50.00	50.55	101	52.80	106	70-136	59-147	4	0-20	
p/m-Xylene	100.0	100.7	101	107.8	108	75-125	67-133	7	0-25	
o-Xylene	50.00	51.38	103	54.81	110	75-125	67-133	6	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	46.54	93	48.29	97	72-126	63-135	4	0-22	

Total number of LCS compounds : 14
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-12-1425
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B

Project: Raytheon Canoga Park A12

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-9,734	**Aqueous**	**GC/MS GGG**	**12/22/12**	**12/22/12**	**121222L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	51.24	102	50.16	100	80-120	73-127	2	0-20	
Carbon Tetrachloride	50.00	49.99	100	48.38	97	66-138	54-150	3	0-20	
Chlorobenzene	50.00	54.58	109	52.82	106	80-120	73-127	3	0-20	
1,2-Dibromoethane	50.00	54.18	108	53.02	106	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	50.00	53.43	107	52.71	105	80-120	73-127	1	0-20	
1,2-Dichloroethane	50.00	50.84	102	50.51	101	80-129	72-137	1	0-20	
1,1-Dichloroethene	50.00	41.05	82	40.39	81	71-131	61-141	2	0-20	
Ethylbenzene	50.00	56.35	113	54.36	109	80-123	73-130	4	0-20	
Toluene	50.00	54.61	109	52.70	105	79-121	72-128	4	0-20	
Trichloroethene	50.00	53.72	107	51.23	102	80-120	73-127	5	0-20	
Vinyl Chloride	50.00	49.18	98	47.12	94	70-136	59-147	4	0-20	
p/m-Xylene	100.0	110.9	111	106.3	106	75-125	67-133	4	0-25	
o-Xylene	50.00	56.57	113	54.96	110	75-125	67-133	3	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	44.59	89	45.73	91	72-126	63-135	3	0-22	

Total number of LCS compounds : 14
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-12-1425
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B

Project: Raytheon Canoga Park A12

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-9,727	**Aqueous**	**GC/MS XX**	**12/26/12**	**12/26/12**	**121226L02**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	54.59	109	52.29	105	80-120	73-127	4	0-20	
Carbon Tetrachloride	50.00	59.54	119	55.96	112	66-138	54-150	6	0-20	
Chlorobenzene	50.00	53.54	107	51.34	103	80-120	73-127	4	0-20	
1,2-Dibromoethane	50.00	54.31	109	52.74	105	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	50.00	52.07	104	50.35	101	80-120	73-127	3	0-20	
1,2-Dichloroethane	50.00	57.87	116	56.73	113	80-129	72-137	2	0-20	
1,1-Dichloroethene	50.00	51.83	104	48.57	97	71-131	61-141	6	0-20	
Ethylbenzene	50.00	58.69	117	55.58	111	80-123	73-130	5	0-20	
Toluene	50.00	56.47	113	54.13	108	79-121	72-128	4	0-20	
Trichloroethene	50.00	54.71	109	52.29	105	80-120	73-127	5	0-20	
Vinyl Chloride	50.00	53.04	106	49.95	100	70-136	59-147	6	0-20	
p/m-Xylene	100.0	122.5	123	115.6	116	75-125	67-133	6	0-25	
o-Xylene	50.00	61.95	124	58.45	117	75-125	67-133	6	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	54.50	109	53.39	107	72-126	63-135	2	0-22	

Total number of LCS compounds : 14
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 12-12-1425

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
MPN - Most Probable Number

Return to Contents

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: 12-14-12

PAGE: 1 OF 3

LABORATORY CLIENT: OTIE

ADDRESS: 317 E. Main Street, Ventura CA 93001

TEL: 805.585.2110 | FAX: 805.585.2111 | E-MAIL: ksawyer@otie.com

CLIENT PROJECT NAME / NUMBER: Raytheon CANOGA PARK A12

P.O. NO.: 2009.025/0540

PROJECT CONTACT: Kim Sawyer

LAB USE ONLY: 12-12-1425

SAMPLER(S): (SIGNATURE)

COELT LOG CODE: T N A V

COOLER RECEIPT: Temp = ____ °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ☐ 5 DAYS ☒ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING ☒ COELT EDF ☒ SL2043T1572

SPECIAL INSTRUCTIONS

** PEMACO EDD/COELT EDF **
monitor Wells

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	EPA 8260B - VOCs	CONTAINER TYPE
1	CM-2D		12-14-12	0930	GW	3	X	
2	Dup-A12a-121412			0950	GW	3	X	
3	MW-23			1035	GW	3	X	
4	MW-15			1120	GW	3	X	
5	CM-13			1235	GW	3	X	
6	CM-7D			1325	GW	3	X	
7	MW-20S		12-17-12	0930	GW	3	X	
8	MW-19S			1045	GW	3	X	
9	MW-19D			1130	GW	3	X	
10	CM-9D			1340	GW	3	X	

Relinquished by: (Signature)	Received by: (Signature)	Date: 12/20/12	Time: 1530
Relinquished by: (Signature)	Received by: (Signature)	Date: 12/20/12	Time: 1630
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

11/14/2011

Return to Contents

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: 12-18-12

LABORATORY CLIENT: OTIE

ADDRESS: 317 E. Main Street, Ventura CA 93001

TEL: 805.585.2110 | FAX: 805.585.2111 | E-MAIL: ksawyer@otie.com

CLIENT PROJECT NAME / NUMBER: Raytheon CANOGA PARK A12

PROJECT CONTACT: Kim Sawyer

SAMPLER(S): (SIGNATURE) Bob Johnson

P.O. NO.: 2009.025/0510

LAB USE ONLY: 12-1425

COELT LOG CODE: T N A V

COOLER RECEIPT: Temp = _____ °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ☐ 5 DAYS ☒ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING ☒ COELT EDF ☒ SL2043T1572

SPECIAL INSTRUCTIONS:

** PEMACO EDD/COELT EDF **
monitor wells

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	EPA 8260B - VOCs	CONTAINER TYPE
11	CM-8D		12-18-12	1000	GW	3	X	
12	MW-37			1150	GW	3	X	
13	Dup-A126-121812			1215	GW	3	X	
14	CM-18			1330	GW	3	X	
15	MW-24			1500	GW	3	X	
16	MW-25		12-19-12	0900	GW	3	X	
17	MW-26			1000	GW	3	X	
18	MW-27			1115	GW	3	X	
19	MW-36			1345	GW	3	X	
20	MW-16		12-20-12	1065	GW	3	X	

		Date	Time
Relinquished by: (Signature) Bob Johnson	Received by: (Signature)	12/20/12	1530
Relinquished by: (Signature)	Received by: (Signature) CSL	12/20/12	1820
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

11/14/2012

Return to Contents

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: 12-20-12

PAGE: 3 OF 3

LABORATORY CLIENT: OTIE

ADDRESS: 317 E. Main Street, Ventura CA 93001

TEL: 805.585.2110 | FAX: 805.585.2111 | E-MAIL: ksawyer@otie.com

CLIENT PROJECT NAME / NUMBER: Raytheon CANOGA PARK A12

P.O. NO.: 2009.025/0510

PROJECT CONTACT: Kim Sawyer

LAB USE ONLY: 12-1425

SAMPLER(S): (SIGNATURE)

COELT LOG CODE: T N A V

COOLER RECEIPT: Temp = _____ °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ☐ 5 DAYS ☒ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING ☒ COELT EDF ☒ SL2043T1572

SPECIAL INSTRUCTIONS: ** PEMACO EDD/COELT EDF ** monitor Wells

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	EPA 8260B - VOCs	CONTAINER TYPE
21	MW		12-20-12	1130	GW	3	X	
22	TB-122012		↓	1200	GW	3	X	
					GW	3	X	
					GW	3	X	
					GW	3	X	
					GW	3	X	
					GW	3	X	
					GW	3	X	
					GW	3	X	
					GW	3	X	

Relinquished by: (Signature)	Received by: (Signature)	Date: 12/20/12	Time: 1530
Relinquished by: (Signature)	Received by: (Signature) COEL	Date: 12/20/12	Time: 1630
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

11/14/2012

Return to Contents

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-12-1 4 2 5

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: OTie

DATE: 12/20/12

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.6 °C - 0.3 °C (CF) = 2.3 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Initial: JF

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: JF

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: HH

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐ 12/20/12	☐
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☑	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐1PBna ☐500PB ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:** 121113A **Labeled/Checked by:** HH

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** TS

Preservative: h: HCL n: HNO_3 na_2:$Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered **Scanned by:** TS

Return to Contents

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-12-1425

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

Comments:

- ☐ **Sample(s) NOT RECEIVED but listed on COC**
- ☐ **Sample(s) received but NOT LISTED on COC**
- ☐ **Holding time expired** – list sample ID(s) and test
- ☐ **Insufficient quantities for analysis** – list test
- ☐ **Improper container(s) used** – list test
- ☐ **Improper preservative used** – list test
- ☐ **No preservative noted on COC or label** – list test & notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☑ **Sample label(s) do not match COC** – Note in comments
  - ☐ **Sample ID**
  - ☐ **Date and/or Time Collected**
  - ☐ **Project Information**
  - ☑ **# of Container(s)**
  - ☐ **Analysis**
- ☐ **Sample container(s) compromised** – Note in comments
  - ☐ **Water present in sample container**
  - ☐ **Broken**
- ☐ **Sample container(s) not labeled**
- ☐ **Air sample container(s) compromised** – Note in comments
  - ☐ **Flat**
  - ☐ **Very low in volume**
  - ☐ **Leaking (Not transferred - duplicate bag submitted)**
  - ☐ **Leaking (transferred into Calscience Tedlar® Bag*)**
  - ☐ **Leaking (transferred into Client's Tedlar® Bag*)**
- ☐ **Other:** _____

(-22) Received 2 vials instead of 3

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis
1	C	3							
12	C	3							
19	C	3							
21	C	3							

Comments: _____

*Transferred at Client's request.

Initial / Date: HH 12/20/12

Return to Contents

APPENDIX D

WASTE MANIFEST

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NOT REQUIRED	1	888-423-6060	0401207

GENERATOR

5. Generator's Name and Mailing Address
Raytheon
1151 East Hermans Rd., Bldg. 845, Tucson, AZ. 85706
Generator's 888-794-8026 Attn: Daniel Sanorama

Generator's Site Address (if different than mailing address)
Former Canoga Park Facility
8433 Fallbrook Ave.
Canoga Park, CA 91304

6. Transporter 1 Company Name
American Integrated Services, Inc.
U.S. EPA ID Number
CAR000148338

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Crosby & Overton, Inc.
1630 W. 17th Street
Long Beach, CA. 90813 562-432-5445
U.S. EPA ID Number
CAD028409019
Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Waste Liquid (Purge Water)	1 2	TF ~~DM~~	100	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Wear protective equipment while handling. Weights or volumes are approximate.
Profile#: 27578
Project #: 32008-24-3
L17882
D75010
2 drums

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Bob Mahyar for Raytheon | Signature | Month: 12 | Day: 20 | Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Ben Burgos | Signature | Month: 12 | Day: 20 | Year: 12

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

H135

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Allana Morfin | Signature | Month: 12 | Day: 26 | Year: 12

APPENDIX E

RAYTHEON COMPANY,
CERTIFICATION STATEMENT LETTER

Raytheon Company
PO Box 11337, Bldg. 826
Tucson, AZ 85734-1337
520.794.9026

MARCH 22, 2013

Su Han
Technical Support Unit
California Regional Water Quality Control Board
Los Angeles Region
101 Centre Plaza Drive
Monterey Park, CA 91754

RE: Annual Groundwater Monitoring and Remediation Report
January – December 2012
Raytheon Company, former Canoga Park Facility, 8433 Fallbrook Avenue;
Monitoring and Reporting Program No. CI-7483, File No. 94-45

Dear Ms. Han;
This letter provides the certification statement for the referenced report, as required by Standard Provision No.19 of the Waste Discharge Requirements.

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Sincerely,

RAYTHEON COMPANY



Daniel S. Samorano
Authorized Representative

cc: File

Department of Toxic Substances Control

Matthew Rodriquez
Secretary for
Environmental Protection

Barbara A. Lee, Director
9211 Oakdale Avenue
Chatsworth, California 91311

Edmund G. Brown Jr.
Governor

December 15, 2017

Mr. Daniel S. Samorano
Raytheon Company
1151 East Hermans Road
TU, Bldg 826
Tucson, AZ 85706

RAYTHEON CANOGA PARK SITE – 8433 FALLBROOK AVENUE, CANOGA PARK, CA 91304

Dear Mr. Samorano:

The Department of Toxic Substances Control (DTSC) received a notification from the Los Angeles Regional Water Quality Control Board (LARWQCB) regarding its determination to provide groundwater closure for the Southern Parcels at the Raytheon Site (Site) based on the information provided in the *Confirmation Sampling Report for No Further Action Status in the Southern Parcels* (Report) dated July 31, 2012. Please be aware that DTSC is the designated lead regulatory agency to oversee the corrective action at this facility.

Because DTSC does not have an agreement with Raytheon, DTSC cannot conduct a thorough review of the Report or determine whether requirements are met to provide closure for the southern parcels. Based on a limited review, DTSC has provided comments below.

Additionally, as previously stated in discussions with Raytheon, the Areas of Concern (AOCs) identified in the RCRA facility Assessment Report dated January 30, 2008 requires investigation. Please contact DTSC Project Manager, Jessy Fierro, to discuss entering into a Corrective Action Consent Agreement.

If you have any questions, please contact Jessy Fierro at (818) 717-6563 or me at (818) 717-6539.

Sincerely,

Juli Propes
Acting Branch Chief
Brownfields and Environmental Restoration Program – Chatsworth Office

DTSC COMMENTS

Document: *Confirmation Sampling Report for No Further Action Status in the Southern Parcels* (Report) dated July 31, 2012

1. Section 2.1 discusses previous characterization. Soil sampling was apparently conducted in August 1993 at borings B-RNDM-3, B-SL-8, and B-SL-10. The DTSC Geologic Service Branch (GSB) recommends that a map showing the location of these borings be attached to the confirmation sampling report. Additionally, it appears that no soil samples have been collected from within the area identified as the expected source of the Freon 11 contamination. Also, no soil impacted with Freon 11 was removed from the expected source area. However, the confirmation soil vapor samples collected in 2011 indicate that Freon 11 in soil vapor had decreased in the expected source area since soil gas samples first collected in 1995.

2. The last apparent groundwater sampling from existing wells in this area was in 2012. Monitoring well MW-31, located within the Freon 11 source has had reported concentrations less than the Freon-11 MCL since approximately 2000. As shown on Graph 1 data since approximately 2006 has shown a slightly increasing trend of Freon-11 with the last sample from April 30, 2012 to be 120 ug/L (see Table 2). Current groundwater concentrations are unknown since there is no reported data for the last 5 years. The GSB recommends that the existing groundwater monitoring wells in the area be resampled for VOCs prior to the LA RWQCB granting an NFA and allowing abandonment of the wells.

3. Table 1 - DTSC does not recommend using the Environmental Screening Levels (ESLs) established by Regional Water Quality Control Board, San Francisco Region (SFRWQCB),as these values are not representative of Southern California conditions. Soil gas screening levels (SLs) should be developed using DTSC Human Health Risk Assessment (HHRA) Note 3. If SLs are not available in HHRA Note 3, then DTSC recommends using USEPA Regional Screening Levels (RSLs). PCE showed slight exceedances for future residential scenario but no exceedance for future industrial use.

Please contact the following DTSC staff for questions regarding these comments:

Wendy Arano, PG – DTSC Geologist: Wendy.Arano@dtsc.ca.gov
Donald Greenlee, PhD – DTSC Toxicologist: Donald.Greenlee@dtsc.ca.gov
Jessy Fierro – Project Manager: Jessy.Fierro@dtsc.ca.gov

RCRA FACILITY ASSESSMENT.

HUGHES MISSILE SYSTEMS COMPANY

CANOGA PARK FACILITY

(RAYTHEON)

EPA ID – CAD041162124

Prepared by:

Martin Herrmann
Hazardous Substance Engineer

Department of Toxic Substances Control
8800 Cal Center Drive

January 30, 2008

Table of Contents

1.0 INTRODUCTION..... 3
2.0 SITE DESCRIPTION..... 3
3.0 ENVIRONMENTAL SETTING 5
4.0 SOLID WASTE MANAGEMENT UNITS And AREAS Of CONCERN..... 6
5.0 EXPOSURE PATHWAYS..... 15
6.0 VISUAL SITE INSPECTIONS 15
7.0 RECOMMENDATIONS FOR FURTHER ACTION..... 15
FIGURES..... 17

1.0 INTRODUCTION

The 1984 Resource Conservation and Recovery Act (RCRA) amendments provide authority for the U.S. Environmental Protection Agency (USEPA) to require comprehensive corrective action on Solid Waste Management Units (SWMUs) and other areas of concern at facilities applying for a Part B permit and those with RCRA Interim Status or facilities that operated in a manner that required a hazardous waste facility permit even though the facility had not obtained or applied for a hazardous waste permit. The Hughes Missile Systems Company operated the Canoga Park Facility with two permitted interim status units. These units were closed with closure certification pending. Interim Remediation is currently being under taken under the Los Angeles Regional Water Quality Control Board (LARWQCB).

In 1997 the Raytheon Missile Systems Company acquired the Hughes Missile Systems Company which then merged with Raytheon in 1998 to become the Raytheon Systems Company (Raytheon). Raytheon subsequently sold off the Canoga Park site but retains responsibility for site cleanup.

In order to accomplish the objective of corrective action, a RCRA Facility Assessment (RFA) of the Canoga Park Facility was conducted. This assessment consisted of a preliminary review (PR) of documentation of past site investigations and a Visual Site Inspections (VSI). The VSI was conducted on June 13, 2007.

This report is a summary of the PR and the VSI. The PR is based upon information found in files and reports at the Department of Toxic Substances Control (DTSC) including the facility operation plan, closure plan, and documents provided by Hughes/Raytheon. The documents that form the basis for this RFA are referenced and are considered as supplemental documents.

2.0 SITE DESCRIPTION

2.1 Location

The Canoga Park Facility is located at 8433 Fallbrook Avenue in Canoga Park, California. The facility is located in the northwest portion of the San Fernando Valley of Los Angeles County, California. The site is approximately 86 acres in area and ranges in elevation from approximately 900 feet above mean sea level (MSL) in the north-central portion to approximately 840 feet above MSL at its southern boundary. The site is bounded to the east by Fallbrook Avenue, to the south by Roscoe Boulevard, to the north by open space land adjacent to the Chatsworth reservoir, and to the west by single family residential housing (Figure 1 - Aerial photo). Residential neighborhoods are located across Fallbrook Avenue and Roscoe Boulevard.

2.2 Ownership History

In 1959, the 8433 Fallbrook Avenue property was developed as an industrial park by Bunker-Ramo, an electrical component design and testing company. Bunker-Ramo was the sole occupant of the Facility from 1959 until 1966. From 1966 to 1976, Hughes

Missile Systems Company (Hughes) was a co-occupant with Rocketdyne, a division of Rockwell International, and Bunker-Ramo. Hughes purchased the entire Site in the mid-1970s and became the sole occupant, operating as an aerospace research and development facility. Through a merger with Hughes in 1997, Raytheon assumed management of the environmental investigations and remediation activities at the Facility. The January 17, 1994 Northridge Earthquake (Mw 6.7) damaged several buildings at the property and led to Hughes moving people and activities to Tucson, Arizona. In May 1995, the Facility was purchased from Hughes by Coast Federal Bank (CFB). At this time, land use changed from research, development and "prototyping" to commercial office space. The northern portion of the Site was sold to Regent Properties, Inc. (Regent) in 1997. Regent completed a major development project that included building redevelopment, remodeling and re-grading to raise the elevation of a portion of the Site. Parcels within the southern portion of the Site were subsequently purchased by DeVry Incorporated, Los Angeles Metropolitan Police Department and Trammel Crow. DeVry initiated a development project that included new building construction and re-grading. In September 2001, Regent sold its portion of the Facility to Shamrock Holdings, Inc., who in turn, sold the property to MEPT West Hills Limited Liability Corporation (LLC) in June 2002. MEPT West Hills LLC is the current property owner, although Trammell Crow Company acts as property manager for the Facility. As stipulated in the sales agreement with CFB in 1995, Hughes (now Raytheon) continued to address environmental impacts resultant from its former operations.

2.3 Past Waste Management Activities

Small amounts of hazardous wastes were collected in 55 gallon drums and stored in the HWSA, where flammables were physically separated from corrosives. Wastes handled include acids, bases, iron, tin, fluorine, gasoline, diesel, copper, chromium, Freon, oils, cyanides, flammable solvents and chlorinated solvents. The curbed storage area had a reinforced concrete base with a grated sump. Security was controlled by masonry, chain link walls and gated access. The area had a tarpaulin roof. Wastes were accumulated, and full containers were periodically sent to a hazardous waste facility.

Hazardous waste oils and solvents were collected in a four thousand gallon underground storage tank (T3) just northwest of the HSWA. Wastes were accumulated and were periodically sent by tanker to a hazardous waste facility.

2.4 Current Waste Management Activities

Currently the site is used as office space for a multitude of tenants. The waste activities are chiefly the remediation of the soil and groundwater at the identified hot spots in the north west and the central east portions of the site. Since 1995 the groundwater and soil in the northwest plume has been treated by a groundwater recovery and treatment system, (GRTS), a solvent vapor extraction system(SVE) and later enhanced with an air sparge system (AS). The water was treated by air stripping and carbon absorption of the volatile organics. The soil vapor was extracted by vacuum volatilization and carbon absorption. These were shutdown because of asymptotic conditions and replaced with an enhanced in-situ bioremediation process (EISB) starting in October of 2005. The EISB process was also applied to a smaller plume in the northeast of the site in December of 2006.

Current operations involve ground water monitoring on a quarterly basis to monitor the effectiveness of the EISB process.

2.5 Permit History for Hazardous Waste Management Units

Hughes Missile Systems Group operated at the site since 1965 and was issued a Hazardous Waste Facility Permit on June 28, 1985 for the HWSA and T3 RCRA units. Operations ceased in 1994. A Closure and Post Closure Plan was approved in late1995. This plan included a report of the T3 closure. A closure certification report for the HWSA was submitted in November 8, 2002. Both of these closures were incomplete with soil and ground water contamination at depth.

3.0 ENVIRONMENTAL SETTING

3.1 Site Geology

The shallow geologic deposits of the western San Fernando Valley in the vicinity of the project site are comprised of predominantly unconsolidated sands, silts and clays with occasional gravels. These alluvial fill deposits are of Quaternary age and range in thickness from thin veneer at the valley margins to more than 700 feet in the central portion of the San Fernando Valley. In the western portion of valley, the unconsolidated alluvial fill deposits are unconformably underlain by consolidated bedrock of the Modelo and Chatsworth Formations, respectively. The Modelo Formation consists of grayish siltstone, clayey siltstone and shale, with minor interbedded diatomaceous shale. A relatively thin weathered zone exists along the top of the formation where it is in contact with the shallow alluvial deposits. The Chatsworth Formation is comprised primarily of a turbidite sandstone sequence with interbedded shale and minor conglomerates. The bedrock of the Chatsworth Formation, which is the major rock comprising the Simi Hills, forms the distinct outcrops north of Chatsworth Reservoir (McLaren, 1989). A major portion of the Former Raytheon Facility is constructed on consolidated bedrock of the Miocene Modelo Formation. Near surface (to 50 or 100 ft bg), deposits are highly weathered. Beds of the Modelo are seen in road cuts and in drill-hole samples to be dipping at up to 45° from horizontal. Generally, dip direction is toward the south or southwest.

In the northwestern portion of the Facility, to the west and northwest of Building 270 and at other locations on the site periphery, the shallow subsurface is comprised of unconsolidated alluvial valley fill of Quaternary age. This material is present to depths of at least 75 feet. The beds are flat-lying, and consist primarily of mixed silt and fine sand, with lesser amounts of clay. The Modelo Formation is believed to be unconformably present beneath the valley fill. A thin (up to 10-foot) layer of construction fill material is locally present at the surface overlying

3.2 Surface Water Hydrology

Primary surface drainage in the site vicinity is Chatsworth Creek, lying immediately west of the Site. Portions of Chatsworth Creek, north and south of Hidden Lake (formerly Lees Lake) are contained within large underground culverts. Other portions are contained in lined or unlined structured channels. The portion of Chatsworth Creek in

the site vicinity is contained in underground cement-lined tunnels. Water from Chatsworth Creek eventually flows into the Los Angeles River about 2.5 miles down gradient. Hidden Lake is the only active reservoir within a 1-mile radius of the site. Hidden Lake is used as a recreational area by residents of the surrounding housing development. It should be noted that storm drainage, including storm drain discharge, from the site flows to Chatsworth Creek, the majority of which enters south and downstream of Hidden Lake.

3.3 Groundwater Hydrology

Groundwater gradient direction within the vicinity of the site regionally flows from northwest to southeast, from the Simi Hills to the San Fernando Valley. The depth to groundwater is approximately 25 feet bg near Roscoe Boulevard. The hydraulic gradient of the regional groundwater is approximately 0.0047 feet per foot (ft/ft). The water bearing materials comprising the western portion of the valley are generally fine grained alluvial sediments, which contain naturally-occurring total dissolved solids (TDS) in excess of 1,000 milligrams per liter (mg/L), exceeding the recommended USEPA drinking water guidelines. Due to the relatively low yields and excessive TDS, there are no drinking water wells in the vicinity of the facility. Essentially all drinking water consumed in the western San Fernando Valley is derived from the State Water project and the Los Angeles Aqueduct, which delivers water to southern California from the Sierra Nevada Mountains. Although the Los Angeles Department of Water and Power (LADWP) supplements its water supply with groundwater from the San Fernando Basin, all of the groundwater production well fields are located in the eastern quarter of the basin. The nearest active production well for supply of potable water to the public is more than 15 miles down gradient from the Site. In the vicinity of the site, groundwater occurs between 10 and 65 ft bg, depending on the location on the property. Groundwater gradient direction is generally to the southeast (i.e., from the Simi Hills to the San Fernando Valley), but on the western side of the property, there is a westward component due to the local topography Quarterly groundwater gauging of onsite monitoring wells has been conducted since December 1991 (with previous monthly gauging from August 1990). The groundwater gradient in the northwest portion of the site, which contains the main volatile organic compound (VOC) plume, is consistently westward and ranges from 0.01 to 0.02 ft/ft. In the extreme northwest corner of the site, the gradient becomes less steep and a localized depression is often observed even under static non-pumping conditions. This is likely due to the lithologic change from the Modelo formation to the alluvial unit in this area. The apparent groundwater gradient over the remainder of the Site is towards the southwest, south and south-southeast, with gradients ranging from 0.01 to 0.04 ft/ft. Water depths, groundwater gradients, and apparent groundwater flow directions are generally consistent with minor localized changes due to pumping activities during GRTS operation. Average hydraulic conductivities were calculated to be approximately 9 gallons per day per square foot (gpd/ft^2) for the Modelo Formation ($4.24x10^{-4}$ centimeters per second or cm/sec) and approximately 270 gpd/ft^2 for the alluvial fill ($1.27x10^{-2}$ cm/sec) (GTI, 1993).

4.0 SOLID WASTE MANAGEMENT UNITS And AREAS Of CONCERN

This Assessment has included all Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) identified by DTSC in 2002 from in a previous draft Corrective Action Consent Agreement; Table 1. The northeast plume at well CM-8 was also considered as an AOC. These units are indicated on the site drawing, Figure 2.

4.1 SWMUs

4.1.1 SWMU-1 (aka Hazardous Waste Storage Area, HWSA)

This unit was used to store carboy and drum quantities of hazardous wastes containing solvents, acids, bases, plating solutions and paint.

This unit was addressed in the *Modified Closure Plan for the Hazardous Waste Storage Area and Tank T3* [1] which was accepted by DTSC and dated August 1995. A document titled *Closure Certification Report for the Hazardous Waste Storage Area*[2] and dated 11/08/2002 documents the action taken. The closure process discovered arsenic, cadmium and hexavalent chromium that exceeded Closure Performance Standards in the underlying soils. After excavation to 14.5 feet below the former HWSA pad there still were high levels of hexavalent chromium. The pit was lined with polyethylene and back filled. Latter the area was regraded with about 8-9 feet of additional soil and paved. Additional borings were made to help define the extent of the chromium plume[3,4]. High levels of hexavalent chromium were detected in a narrow plume below the former HWSA all the way to groundwater. Since August 1999 Raytheon has been monitoring the groundwater at nearby wells for hexavalent chromium.

The Closure Certification Report was not accepted by DTSC as of the present. The extent of high levels of hexavalent chromium in subsurface soil and water must be defined and considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

Table 1
SOLID WASTE MANAGEMENT UNITS AND AREAS OF CONCERN
RAYTHEON MISSLE SYSTEMS COMPANY
CANOGA PARK, CALIFORNIA

EPA and DTSC DESIGNATION	NAME	RELEASES
SWMU-1 (HWSA)	Hazardous waste storage area	Release to soil and groundwater. COCs include hexavalent chromium
SWMU-2 (T3)	Underground Storage Tank (UST) for Waste	Release to soil and groundwater. Constituents include dichloroethylene (DCE)
SWMU-3	Building 272	Volatile organic compounds (VOCs) identified in vapor survey.
SWMU-4	Building 282 Former Drum Storage Room	Soil tested positive for chlorinated VOC vapors
SWMU-5	Pits #1 and #2 near Building 269	Releases to soil of cadmium and Beryllium. Groundwater contaminated with tetrachloroethylene (PCE).
SWMU-6	Parking area between Buildings 274 & 276	Releases to soil and groundwater. Constituents include Freon-11
SWMU-7	Cooling Unit outside of Building 274	Releases to soil. Constituents include Freon-11
SWMU-8	Former USTs T-1/T2 pump island near Buildings 272 & 282	Releases to soil and groundwater. Constituents include petroleum hydrocarbons
SWMU-9	Site wide sewer line	Releases to soil near soil boring BSL-4. Constituents include arsenic.
AOC-1	Building 262 drains and feeder sewer lines	Suspected release. Building is up gradient of wells CM-8d, CM-9d and CM-18 which have 1,1 DCE for which no source has been determined.
AOC-2	Building 263 drains, sumps and feeder sewer lines	Suspected release. Building is near and up gradient of well CM-8d which have 1,1 DCE.
AOC-3	Building 265 drains and feeder sewer lines	Suspected release. Down gradient SWMU-4 has contaminated soil with Freon-11
AOC-4	Building 269 interior: plating pit, drains, sumps, degreaser exterior clarifier pit and feeder sewer lines	Releases to soil at exterior clarifier pit, SWMU-5

Table 1
SOLID WASTE MANAGEMENT UNITS AND AREAS OF CONCERN
RAYTHEON MISSLE SYSTEMS COMPANY
CANOGA PARK, CALIFORNIA

Continued …

EPA and DTSC DESIGNATION	NAME	RELEASES
AOC-5	Building 271 industrial waste clarifier, drains and feeder sewer lines	Suspected release. Building associated with UST T-4. CM-8d nearly down gradient and groundwater contaminated with Freon-11
AOC-6	Building 274 drains and feeder sewer lines	Unknown. Building was used to store/use solvents including 1,1, TCA, Freon-11 and hydraulic fluid. Up gradient of CM-10 which had Freon-11 in groundwater..
AOC-7	Building 276 drains and feeder sewer lines	Unknown. Soil gas data from parking area toward Building 274 shows vapor phaseFreon-11. Building is up gradient of CM-10 which had Freon-11 in groundwater.
AOC-8	Building 281 drains and feeder sewer lines	Unknown. Building is up gradient of CM-8d and cross gradient from CM-9d which had Freon-11 in groundwater. Also next to former diesel USTs
AOC-9	Former USTs T-5 & T-6	Suspected releases. T-5 used for storage of hazardous waste including waste oil and sulfuric acid.
AOC-10	Former USTs T-7, T-8 and T-9	Diesel fuel contaminated soil was excavated in this area
AOC-11	Above ground tank, T-14	Unknown. Tank was located inside Building 269 and stored solvent waste such as acetone, 1,1,1 TCA and isopropyl alcohol.
AOC-12	Site wide storm water system	Releases suspected
AOC-13	Northeast plume	1,1 DCE, Freon

4.1.2 SWMU-2 (aka T3)

This tank was used to store bulk quantities of hazardous wastes which consisted of machine cutting fluids, some solvents used for cleaning and maintenance of machinery, and machine lubricating oils. Hazardous constituents present in these wastes were 1,1,l-trichloroethane (TCA), acetone, and oils. Contaminants detected in the soil in vicinity of T3 include TPH, 1,1dichloroethylene (l,l-DCE), 1,1-dichloroethane (l,l-DCA), and TCA.

Tank T3 was permitted under RCRA when it was removed. The tank was removed in June 1988 and associated contaminated soils were removed in September 1991 under a Corrective Action Plan (CAP) approved on March 18, 1991 by the CalEPA Los Angeles Regional Water Quality Control Board (LARWQCB). The document, *Final Report, Remediation of Former T3 Tank Site*[5] (November 1991), discusses the extent of soils removed. The soil was excavated to 40 feet below ground surface in the vicinity of the former T3 by boring three foot holes on a triangular pitch. The excavation left a cookie cutter pattern of soil wedges behind unexcavated. The holes were backfilled with a cement and sand slurry. Later the area was regraded with about 7 feet of additional soil and paved. CAP goals were used to determine the extent of excavation. The LARWQCB approved cleanup action levels for remediation of impacted soils at the T3 site were:

LARWQCB Corrective Action Plan Cleanup Action Levels	
Total petroleum hydrocarbons (TPH)	100 ppm
Total volatile organic compounds (VOCs)	20 ppm
1, l-dichloroethylene (1, 1-DCE)	6 ppm

The groundwater in the area is contaminated with a range chlorinated VOCs and has been undergoing a series of interim remediation under LARWQCB guidance. From 1995 to 2005 ground water has been treated via a Pump and Treat system with the treated water used for on site irrigation needs. The soil has been treated via a Soil Vapor Extraction system (SVE) for the same period. Contaminant levels became asymptotic by 2000 and an Enhanced In-Situ Bioremediation approach (EISB) was instituted in 2005[6]. Final cleanup levels have not been determined under DTSC protocol.

The Closure Certification Report was not accepted by DTSC as of this document. The presence of VOCs in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.1.3 SWMU-3 (Building 272)

Building 272 is a small building associated with the former gas pump area. The building has been removed. The area is within the NW treatment area that includes the EISB areas A, B & C. The contamination there is well defined and is currently undergoing interim remediation under LARWQCB guidance. Final cleanup levels have not been determined under DTSC protocol. The presence of VOCs in subsurface soil and water

must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.[7]

4.1.4 SWMU-4 (Building 282)

Building 282 is a former drum storage room associated with the former gas pump area. The building has been removed. The area is within the NW treatment area that includes the EISB areas A, B & C. The contamination there is well defined and is currently undergoing interim remediation under LARWQCB guidance. Final cleanup levels have not been determined under DTSC protocol. The presence of VOCs in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.[8]

4.1.5 SWMU-5 (Pits #1 and #2 near Building 269)

These pits received photographic wastes and neutralized acids. Releases to soil of Cadmium and Beryllium have been noted. Groundwater is contaminated with tetrachloroethylene (PCE). These pits have been removed. The area is within the NW treatment area that includes the EISB areas A, B & C. The contamination there is well defined and is currently undergoing interim remediation under LARWQCB guidance. Final cleanup levels have not been determined under DTSC protocol. The presence of VOCs and metals in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.1.6 SWMU-6 (Parking area between Buildings 274 & 276)

The 1991 Preliminary Assessment authorized under US EPA cites the presence of Freon-11 and elevated radioactivity in this area.[8] It has been contended that elevated radioactivity is due to natural geologic variation.[9] This area is in the SE part of the site. The contamination is suspected to have resulted from maintenance work on cooling units next to the former Building 274. According to a 1998 Fluor Daniel GTI Site Assessment report[10] the cooling unit at Building 274 used Freon 22 and only Buildings 263 used Freon 11. In any event the plume was delineated as centered at the edge of a former parking area. At the time of the report it was concluded that the Freon levels were declining and below drinking water standards. Need to determine if any issues remain.

4.1.7 SWMU-7 (Cooling Unit outside of former Building 274)

The presence of Freon-11 was detected in the soil. This area is in the SE part of the site. The contamination is suspected to have resulted from maintenance work on the cooling units.[11] Need to determine if any issues remain.

4.1.8 SWMU-8 (Former USTs T1 & T2 for the gasoline pump island)

The release of petroleum hydrocarbons to soil and groundwater occurred. The area is within the NW treatment area that includes the EISB areas A, B & C. The extent of hydrocarbon contamination was assesses in 1991.[12] The plume is within the larger VOC plume in the northwest corner of the site and is currently undergoing interim remediation under LARWQCB guidance. Final cleanup levels have not been determined under DTSC protocol. The presence of VOCs in subsurface soil and water must be considered

in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.1.9 SWMU-9 (Site wide sewer line)

Site wide assessment in 1991 did not show up any metal contamination at detection limits.[13] One sample had a trace (0.009 mg/kg) of toluene. Sample B-SL had 0.3 mg/kg of toluene. No other VOCs were detected. Need to determine if any issues remain.

4.2 AOCs

4.2.1 AOC-1 (Building 262 drains and feeder sewer lines)

This building is up gradient of a release and could be a source of the contamination. It is near the area that includes the EISB areas D, a small plume of VOCs. The contamination there is well defined and is currently undergoing interim remediation under LARWQCB guidance. Final cleanup levels have not been determined under DTSC protocol. The presence of VOCs in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.2.2 AOC-2 (Building 263 drains sumps and feeder sewer lines)

This building is adjacent to an area of release and could be a source of the contamination. It is near the area that includes the EISB areas D, a small plume of VOCs. The contamination there is well defined and is currently undergoing interim remediation under LARWQCB guidance. Final cleanup levels have not been determined under DTSC protocol. The presence of VOCs in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels. In 1992 wells near Building 263 tested above EPA Maximum Concentration Limit (MCL) for uranium.[14]

4.2.3 AOC-3 (Building 265 drains and feeder sewer lines)

This building is next to an area with Freon contamination and could be a source of the contamination. Final cleanup levels have not been determined under DTSC protocol. The presence of Freon in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.2.4 AOC-4 (Building 269 drains and feeder sewer lines)

This building was in an area where soil is contaminated with VOCs and the sewer line may have been a source. The building was removed by 1988. It was in the area that includes the EISB areas A, B & C. The contamination there is well defined and is currently undergoing interim remediation under LARWQCB guidance. Final cleanup levels have not been determined under DTSC protocol. The presence of VOCs in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.[8,15]

4.2.5 AOC-5 (Building 271 drains and feeder sewer lines)

This small building was associated with a large concrete water basin, T4. This building is adjacent to an area of release and could be a source of the contamination. It is near the area that includes the EISB areas D, a small plume of VOCs. The contamination there is well defined and is currently undergoing interim remediation under LARWQCB

guidance. Final cleanup levels have not been determined under DTSC protocol. The presence of VOCs in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.2.6 AOC-6 (Building 274 drains and feeder sewer lines)

This small building was use for solvent parts cleaning and stored 1,1,1 TCA, Freon, and Hydraulic fluid. The building has been removed. Nearby is an area with Freon contamination and it could be a source of the contamination. Final cleanup levels have not been determined under DTSC protocol. The presence of contamination in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.2.7 AOC-7 (Building 276 drains and feeder sewer lines)

This building had 2 active chemical use areas, solvent cleaning and photographic processing operations. Freon has been detected at a down gradient well, CM-10. Final cleanup levels have not been determined under DTSC protocol. The presence of contamination in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.2.8 AOC-8 (Building 281 drains and feeder sewer lines)

This building is adjacent to an area of release and could be a source of the contamination. Generally it handled small quantities of in a maintenance shop setting. Chemicals included dichloromethane, insecticides, mineral oil and ethylene glycol. It is near the area that includes the EISB areas D, a small plume of VOCs. The contamination there is well defined and is currently undergoing interim remediation under LARWQCB guidance. Also it is next to the former diesel USTs. Final cleanup levels have not been determined under DTSC protocol. The presence of VOCs and hydrocarbons in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.2.9 AOC-9 (T5 and T6)

These USTs were used to store waste oil and sulfuric acid. These were glass lined 500 gallon vessels that were contained in a concrete vault located west of building 263. The tanks were removed in 1984 along with the vaults and soil was excavated.[16] Residual contamination consisting of toluene and xylenes need to be considered in the HRA. The presence of VOCs and hydrocarbons in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.2.10 AOC-10 (T7, T8 & T9)

These USTs were used to store diesel fuel. The tanks were removed in1991.[17]. Subsequently the soil was excavated to remove contaminated soil.[18]. A clean-up level of 100 ppm of TPHD was used. Currently most of this area has been covered with a bi-level parking lot. Residual diesel should be considered in a health and environmental risk assessment.

4.2.11 AOC-11 (T14)

This AOC is an above ground tank that was located in building B269. Building 269 was removed by 1998. The area is within the contaminant plume in EISB treatment areas A & B. The plume there has been characterized and has undergone SVE, pump and treat and currently EISB. The presence of VOCs in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.2.12 AOC-12 Site Wide Storm Sewer System.

The Storm sewer system has not been investigated. Key points where runoff could carry contaminants and where leaks are more likely to occur may need to be tested for contamination.

4.2.13 AOC-13 Northeast Plume between B263, B264 & B281

This plume has had definition and is currently undergoing interim measures by EISB in area D.

4.3 SUMMARY OF CONSOLIDATED SWMUS AND AOCS.

The various SWMUs and AOCs can be regrouped in to several zones for Risk assessment and treatment purposes (figure 3). The following zones are defined.

4.3.1 Zone 1 The contiguous Northwest Plume consisting of:

- SWMU-1 former HSWA
- SWMU-2 former T3
- SWMU-3 former B272 gas station bldg
- SWMU-4 former B282 drum stg bldg
- SWMU-5 former P1 & P2 at B269
- SWMU-8 former T1 &T2 gasoline tanks
- AOC-4 former B-269
- AOC-11 former AST in B269

This zone has a known contamination of VOCs, CVOCs, chromium^{+6} and potential cadmium and beryllium at SWMU-5.

4.3.2 Zone 2 Sewer system network consisting of

- SWMU-9 Sewer System
- AOC-1 B262 sewer drains and feeders
- AOC-2 B263 sewer drains and feeders
- AOC-3 B265 sewer drains and feeders
- AOC-5 B271 sewer drains and feeders
- AOC-6 B274 sewer drains and feeders
- AOC-7 B276 sewer drains and feeders
- AOC-8 B281 sewer drains and feeders

4.3.3 Zone 3 South plume area (Freon 11 contamination)

- SWMU-6 B274,276 parking lot
- SWMU-7 former B-274; Chiller building

4.3.4 Other areas that remain individual AOCs. These are:

- AOC-9 former T5,T6; oil, sulfuric acid tanks
- AOC-10 former T-7,8,9; diesel tanks
- AOC-12 Storm sewer system
- AOC-13 Northeast plume

5.0 EXPOSURE PATHWAYS

5.1 Surface Water

Nearest stream is in adjacent neighborhood to the west where a small stream, Chatsworth Creek, enters and exits a small lake, Hidden Lake (aka Lees Lake), via culverts and continues south via lined and unlined structured channels. The property is graded to drain to the SE through storm drains which empty into this stream.

5.2 Groundwater

Groundwater flows to the West at the NW corner of the property but generally to the SSE on the rest of the property into the San Fernando Valley. With measured TDS of over 1000 ppm the water is not likely to be used for drinking water. There may be interaction between the groundwater and Hidden Lake to the west.

5.3 Air

The area is paved, built upon or vegetated with irrigated beds. There is potential for soil gas intrusion into buildings. Buildings are being used commercially as office space.

5.4 Surface Soil

There is essentially no exposed soil due to paving and buildings. Soil exposure could occur when it is disturbed during construction activities.

6.0 VISUAL SITE INSPECTIONS

The site was visited on Wednesday June 13, 2007. The site is a well landscaped business office site. The vast majority of the area is covered with office buildings, roadways, parking lots and walkways. The remaining area consists of a central park area and narrow vegetated corridors that border and subdivide the property. The primary treatment area is in the north western corner of the site. A new parking structure was nearly completed in the north east corner of the site.

Visual Evidence of SWMUs, AOCs and treatment systems are minimal. The GRTS and SVE equipment are idle behind a small fenced area. Well heads are flush to ground level and covered. Observations are photo documented (See figures 4 to 11).

7.0 RECOMMENDATIONS FOR FURTHER ACTION

- Continue Groundwater Remediation

- Determine data gaps to developing a site wide heath risk assessment using the current DTSC-modified model. A site conceptual model needs to be developed to address all exposure routes.

- Collect samples needed to fill in the data gaps.

- Complete a soil vapor survey using old and new data as appropriate to model vapor intrusion. This work is to be in accordance with the Department's publications: GUIDANCE FOR THE EVALUATION AND MITIGATION OF SUBSURFACE VAPOR INTRUSION TO INDOOR AIR and ADVISORY – ACTIVE SOIL GAS INVESTIGATIONS. As these documents are under going revision it is important that this investigation be done with close coordination with the project manager.

- Prepare site wide HRA for all modes of exposure to define remediation goals acceptable to DTSC.

- Modify remediation effort as required to meet the DTSC remediation goals or existing CAP goals whichever is the more stringent.

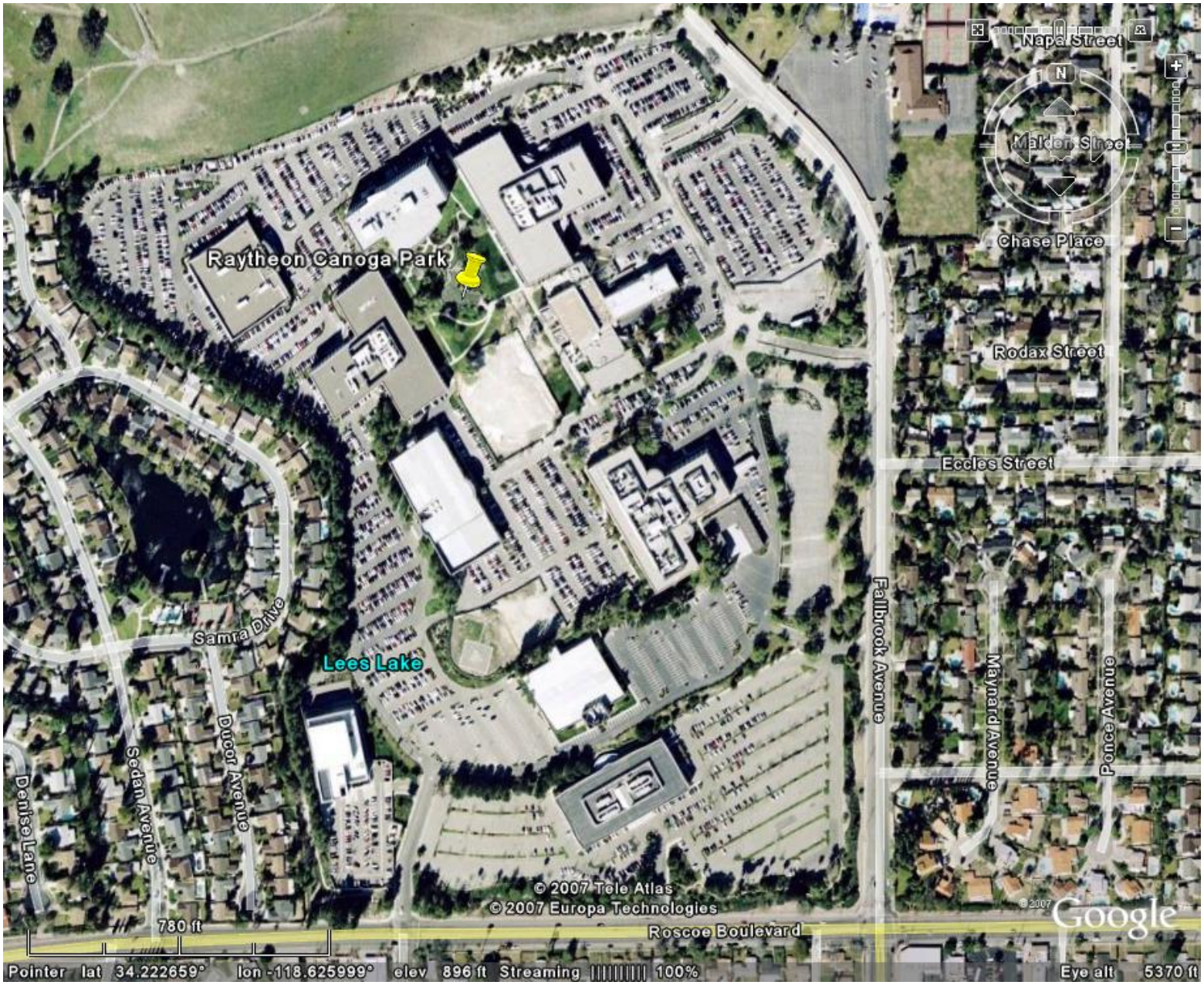
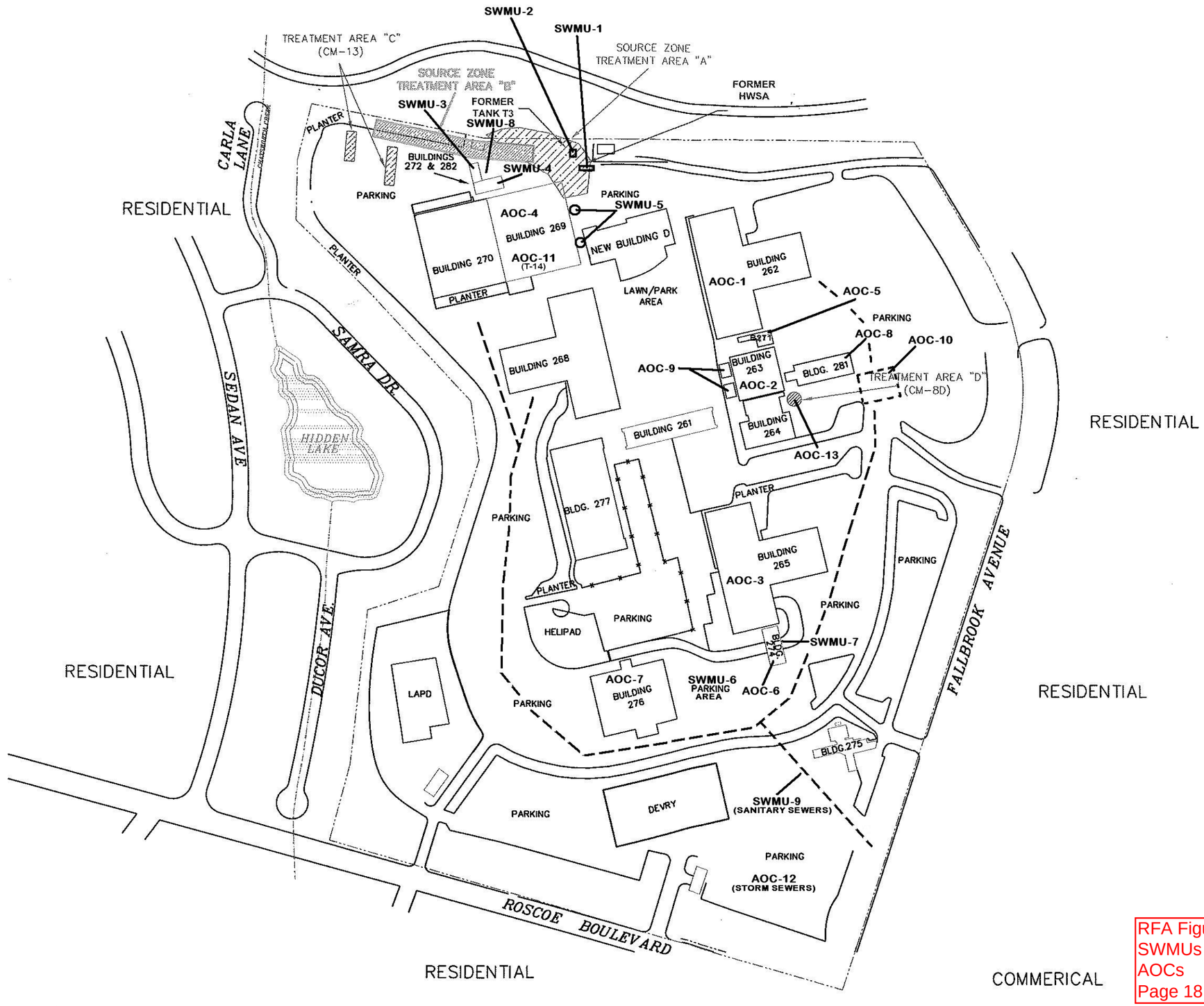
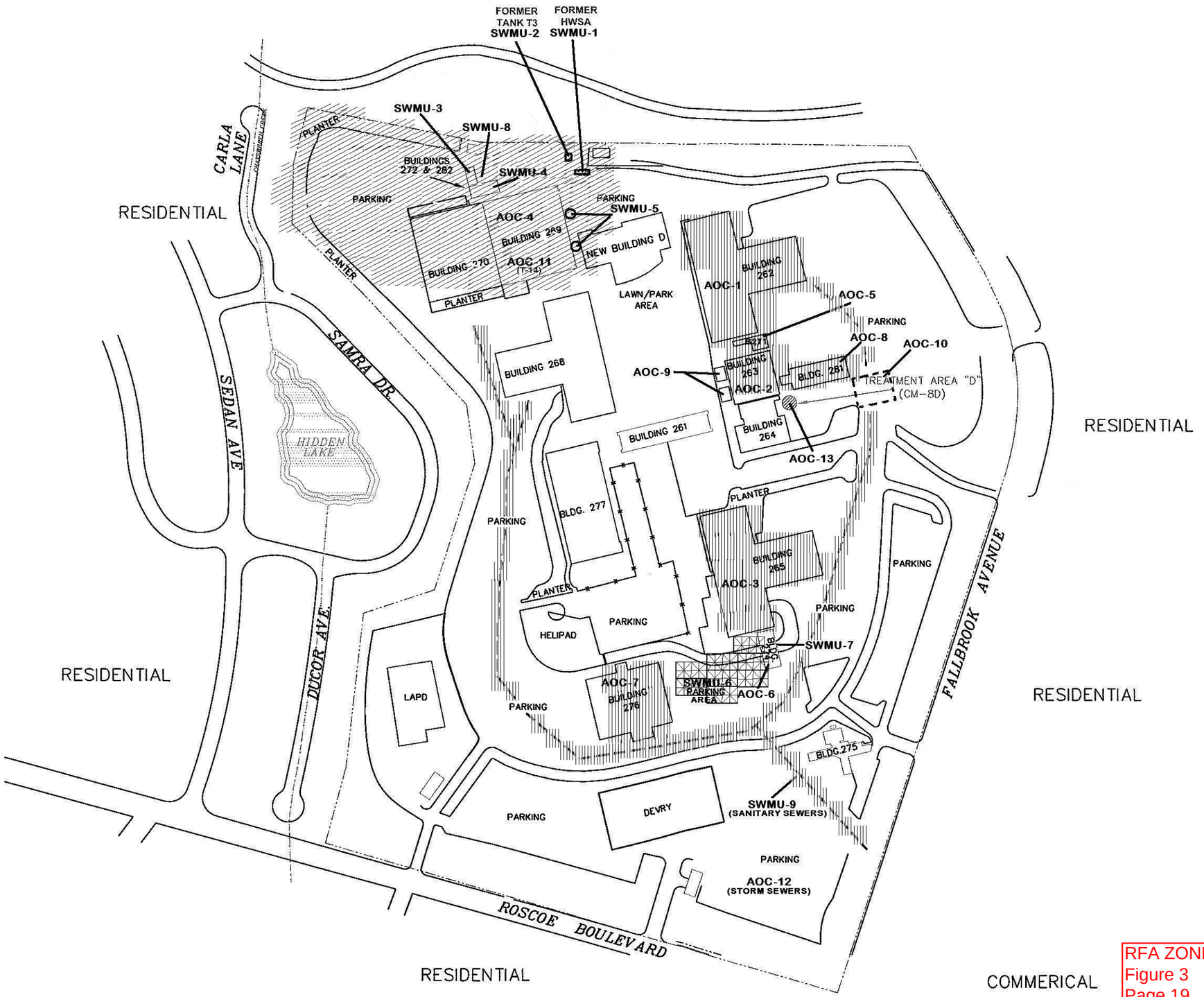


Figure 1. Former Raytheon Canoga Park Site, Google Earth image downloaded 12/18/2007



RFA Figure 2
SWMUs &
AOCs
Page 18



LEGEND

- PROPERTY LINE
- FORMER CREEK TREND
- FORMER BUILDING
- CURRENT BUILDING
- Zone 1 (NW PLUME)
- Zone 2 (SEWERS)
- Zone 3 (S PLUME)

SCALE IN FEET
0 140 280 420

DATE:	FILE NAME:	REVISED:
07/12/2004	RC-DATA-04.DWG	04/12/2007

SITE PLAN SHOWING CONCEPTUAL DESIGN FOR EISB IMPLEMENTATION

FORMER RAYTHEON FACILITY
8433 FALLBROOK AVENUE
CANOGA PARK, CALIFORNIA

T N & Associates, Inc.
Engineering and Science

FIGURE 2

RFA ZONES
Figure 3
Page 19



Figure 4. SVE & GRTS Idle Equipment (June 13,2007)



Figure 5. SVE & GRTS Idle Equipment (June 13,2007)



Figure 6. SVE & GRTS Idle Eq (June 13,2007)



Figure 7. NW fence line (June 13,2007)



Figure 8. B269 (where it was) (June 13,2007)



Figure 9. B270 looking W (June 13,2007)



Figure 10. New parking structure (June 13,2007)



Figure 11 New parking structure lower level (June 13,2007)

[1] *Modified Closure Plan for the Hazardous Waste Storage Area and Tank T3* , August 1995

[2] *Closure Certification Report for the Hazardous Waste Storage Area*, 11/08/2002

[3] *Results of Additional Subsurface Characterization, Former Hazardous Waste Storage Area*; Former Company Facility, 8433 Fallbrook Avenue, Canoga Park, California. September 22, 2000

[4] *Additional Subsurface Characterization, Former Hazardous Waste Storage Area*, Former Raytheon Systems Company Facility, 8433 Fallbrook Avenue, Canoga Park, California; EPA ID No. CAD 041162124, October 10, 2000

[5] *Final ReportRemediation of Former T-3 Tank Site*, November 1991

[6] *COVERAGE UNDER GENERAL WASTE DISCHARGE PERMIT ORDER NO. R4-2005-0030 AND MONITORING AND REPORTING PROGRAM NO. CI-8947* - (SLIC NO. 0693, SITE ID NO. 2043TOO), September 20, 2005

[7] SUMMARY REPORT OF SUPPLEMENTAL SAMPLING AND ANALYSIS PERFORMED AT THE LOCATIONS OF FORMER BUILDINGS 269, 272 AND 282, September 23, 1998

[8] *ENVIRONMENTAL PRIORITIES INITIATIVE PRELIMINARY ASSESSMENT*, Ecology and Environment, Inc., July 29, 1991

[9] *RADIOISOTOPE REVIEW AND COMPARISON FOR THE HUGHES MISSILE SYSTEMS GROUP FACILITY*, CANOGA PARK, CALIFORNIA, McLaren/Hart Environmental Engineering Corporation, July 30, 1991

[10] *Additional Site Assessment Report, Vicinity of CM-10 and Buildings 265,274, and 276, Former Raytheon Missile Systems Company Facility*, 8433 Fallbrook, Canoga Park, California, FLUOR DANIEL GTI**,** September 2, 1998

[11] *Additional Site Assessment Report, Vicinity of CM-10 and Buildings 265,274, and 276, Former Raytheon Missile Systems Company Facility*, 8433 Fallbrook, Canoga Park, California, FLUOR DANIEL GTI**,** September 2, 1998

[12] *GASOLINE CONTAMINATION SITE ASSESSMENT for HUGHES MISSILE SYSTEMS GROUP*, 8433 Fallbrook Avenue, Canoga Park, California, AMERICAN ENVIRONMENTAL MANAGEMENT CORPORATION, October 28,1991

[13] *REPORT ON FACILITY-WIDE SITE ASSESSMENT, HUGHES MISSILE SYSTEMS COMPANY*, CANOGA PARK, CALIFORNIA, Groundwater Technology, Inc., January 4, 1994

[14] *RESULTS OF RADIOLOGICAL SAMPLING OF MONITORING WELLS*, July 1, 1992, Hughes Missile Systems Group, Canoga Park Facility, Groundwater Resources Consultants, Inc.

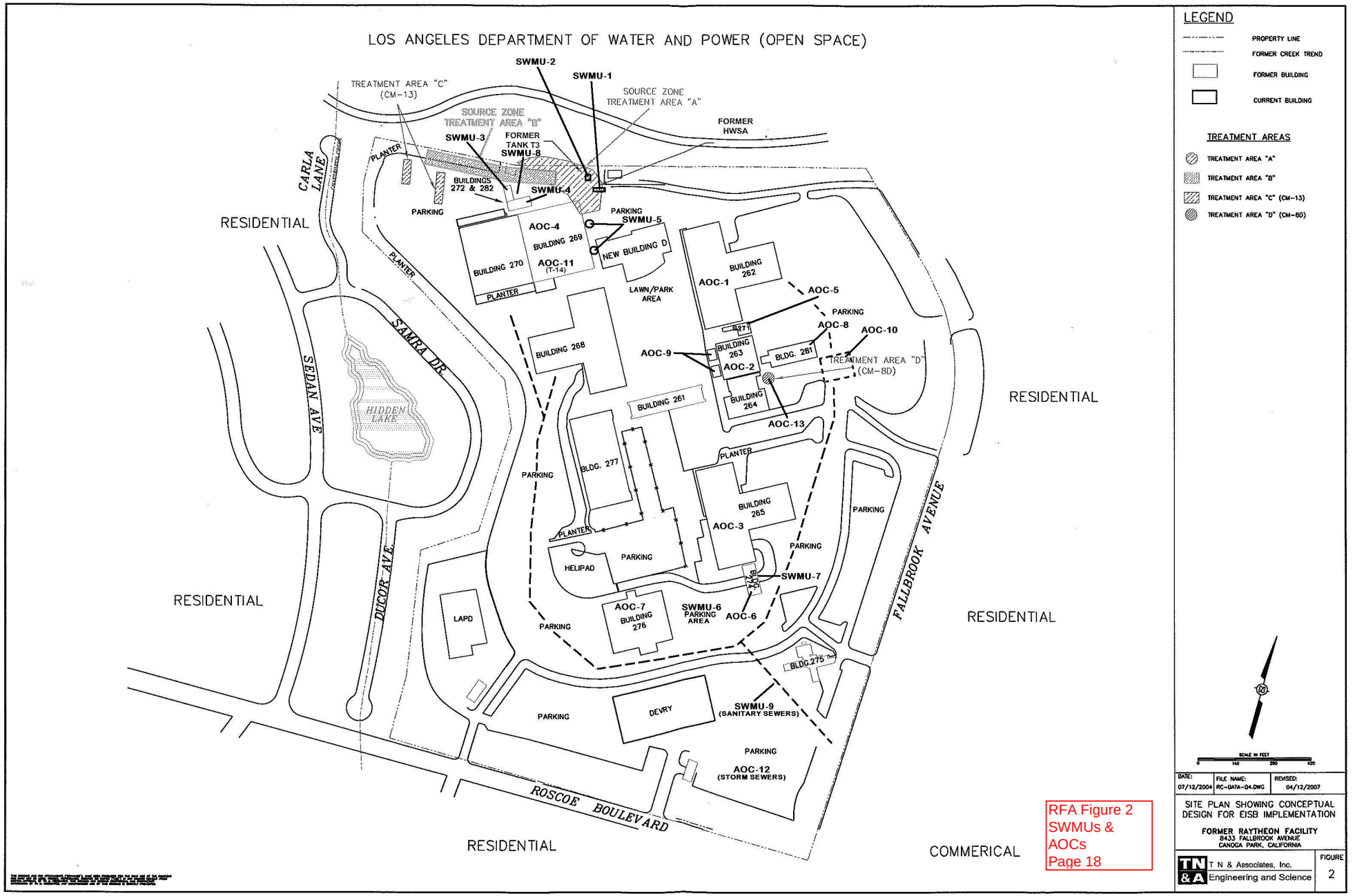
[15] *ADDITIONAL SITE ASSESSMENT REPORT, SAMPLING AND ANALYSIS FOR FORMER BUILDING 269 LOCATION*, FORMER RAYTHEON SYSTEMS COMPANY, CANOGA PARK, CALIFORNIA , IT Project No. 779027, April 1999

[16] *Closure Report, Removal of Underground Tanks*, Hughes Aircraft Company, Canoga Park, California, Project No. 846562, January 29, 1985

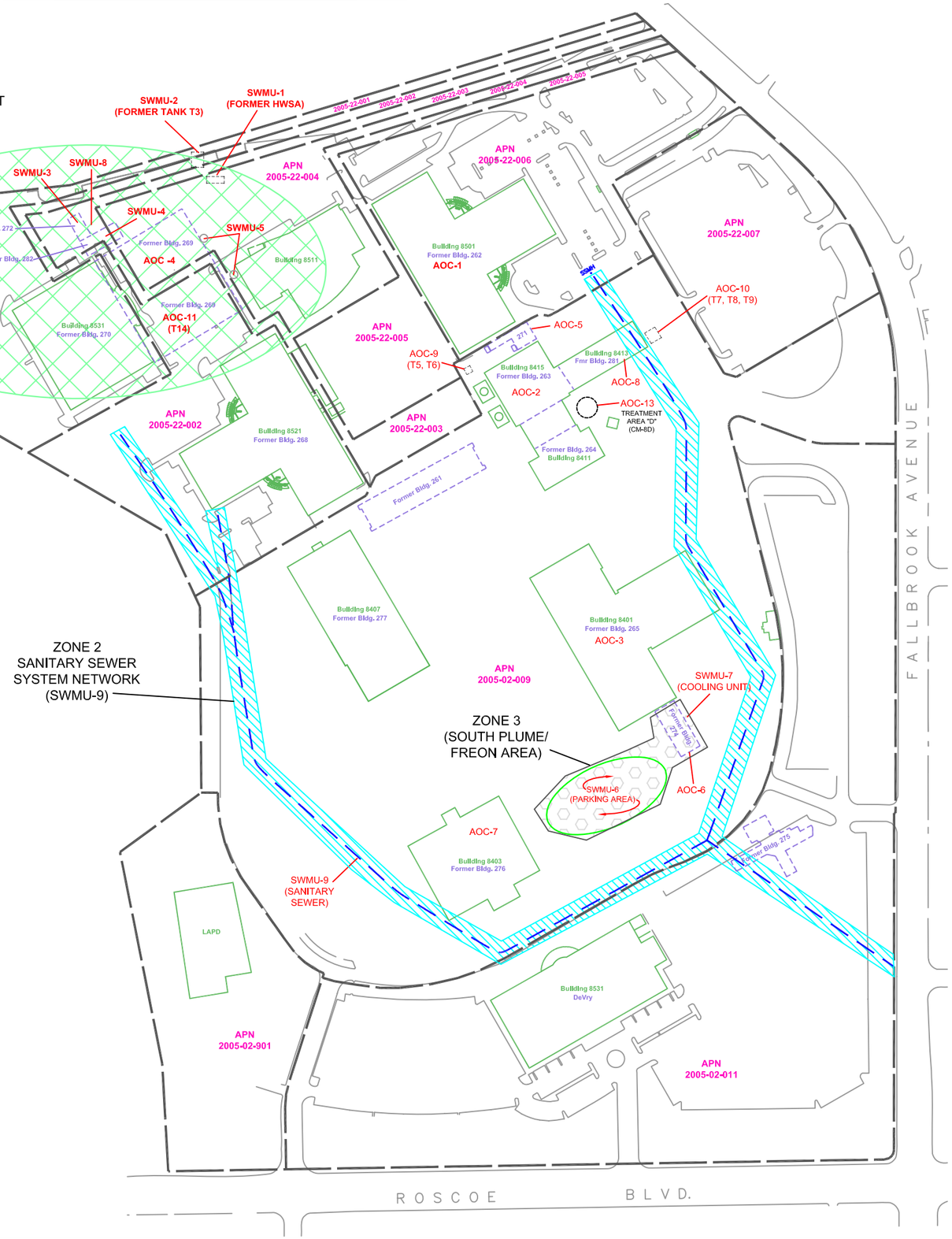
Final Closure Report, Removal of Underground Tank, Hughes Aircraft Company, Canoga Park, California, Project No. 846562, March 12, 1985

[17] *DIESEL UNDERGROUND STORAGE TANK CLOSURE REPORT*, HUGHES MISSILE SYSTEMS GROUP, Canoga Park, October 28, 1991

[18] *DIESEL TANK SUBSURFACE INVESTIGATION and SITE REMEDIATION*, HUGHES MISSILE SYSTEMS GROUP, Canoga Park, California, August 14, 1992
-



RFA Figure 2
SWMUs &
AOCs
Page 18



Legend

- Current Building Outline and Building Number
- Former Building Outline and Building Number
- 2005-02-009 — Assessors Parcel Number (APN)
- Sewer Line
- Assessors Parcel Property Boundary
- DTSC "Zone 1"
- DTSC "Zone 2"
- DTSC "Zone 3"
- AOC-10 (T7, T8, T9) — SWMU/AOC Designator per DTSC 2008 RCRA Facility Assessment

Approximate Scale in Feet

0 250 500

Figure 1
Canoga DTSC Figure

Former Canoga Park Facility
Canoga Park, California

TN & A — T N & Associates, Inc. Engineering and Science

Date: May 12, 2008

File: Canoga_DTSC.dwg

Cross Reference Table for DTSC SWMU and AOC Designations

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California

DTSC Designations - June 5, 1997		DTSC Designation - January 30, 2008	
SWMU No.		SWMU No.	
1	Bldg 272	1	Hazardous Waste Storage Area
2	Bldg 282	2	Tank T-3
3	Pits 1 and 2 at Bldg 269	3	Bldg 272
4	Parking between Bldgs 274 and 276	4	Bldg 282
5	Bldg 274 North Side Cooler Unit	5	Pits 1 and 2 at Bldg 269
6	Bldg 272/282 Pump Island Tanks T-1 and T-2	6	Parking lot between Bldgs 274 and 276
7	Sewer line near B-SL-4	7	Bldg 274 North Side Cooler Unit
--	--	8	Bldg 272/282 Pump Island Tanks T-1 and T-2
--	--	9	Sewer line near sample B-SL-4
AOC No.		AOC No.	
1	Bldg 262	1	Bldg 262 drains and feeder sewer lines
2	Bldg 263	2	Bldg 263 drains and feeder sewer lines
3	Bldg 265	3	Bldg 265 drains and feeder sewer lines
4	Bldg 268	4	Bldg 269 interior drains, dumps, degreaser, clarifier pit
5	Bldg 269	5	Bldg 271 industrial waste clarifier
6	Bldg 270	6	Bldg 274 drains and feeder sewer lines
7	Bldg 271	7	Bldg 276 drains and feeder sewer lines
8	Bldg 274	8	Bldg 281 drains and feeder sewer lines
9	Bldg 276	9	Former Tanks T-5 and T-6
10	Bldg 281	10	Former Tanks T-7 and T-8
11	Former Tanks T-5 and T-6	11	Above ground tank T-14
12	Former Tanks T-7 and T-8	12*	Site Wide Stormwater System
13	Former T-14	13*	Northeast Plume

Note:

1. * = AOC's 12 and 13 are not consistent with any of the 1997 DTSC original SWMU/AOC list.

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER

CASE SUMMARY

REPORT DATE | HAZARDOUS MATERIAL INCIDENT REPORT FILED WITH OES?

I. REPORTED BY -

UNKNOWN

CREATED BY

UNKNOWN

III. SITE LOCATION

FACILITY NAME

Southern Parcels_Former Hughes Missile Systems Co

FACILITY ID

FACILITY ADDRESS

8433 Fallbrook Ave
Canoga Park, CA, CA 91304
LOS ANGELES COUNTY

ORIENTATION OF SITE TO STREET

CROSS STREET

V. SUBSTANCES RELEASED / CONTAMINANT(S) OF CONCERN

FREON

VI. DISCOVERY/ABATEMENT

DATE DISCHARGE BEGAN

DATE DISCOVERED | HOW DISCOVERED | DESCRIPTION

DATE STOPPED | STOP METHOD | DESCRIPTION

VII. SOURCE/CAUSE

SOURCE OF DISCHARGE

CAUSE OF DISCHARGE

DISCHARGE DESCRIPTION

VIII. CASE TYPE

CASE TYPE

Soil
Other Groundwater (uses other than drinking water)

IX. REMEDIAL ACTION

NO REMEDIAL ACTIONS ENTERED

X. GENERAL COMMENTS

XI. CERTIFICATION

I HEREBY CERTIFY THAT THE INFORMATION REPORTED HEREIN IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE.

XII. REGULATORY USE ONLY

LOCAL AGENCY CASE NUMBER	REGIONAL BOARD CASE NUMBER
	0693A

LOCAL AGENCY

UNKNOWN

REGIONAL BOARD

CONTACT NAME	INITIALS	ORGANIZATION NAME	EMAIL ADDRESS
EMILY WONG	EHW	LOS ANGELES RWQCB (REGION 4)	emily.wong@waterboards.ca.gov

ADDRESS
320 W. 4TH ST., SUITE 200
LOS ANGELES, CA 90013

CONTACT DESCRIPTION

PHONE TYPE	PHONE NUMBER	EXTENSION
Office	(213)-576-6736	

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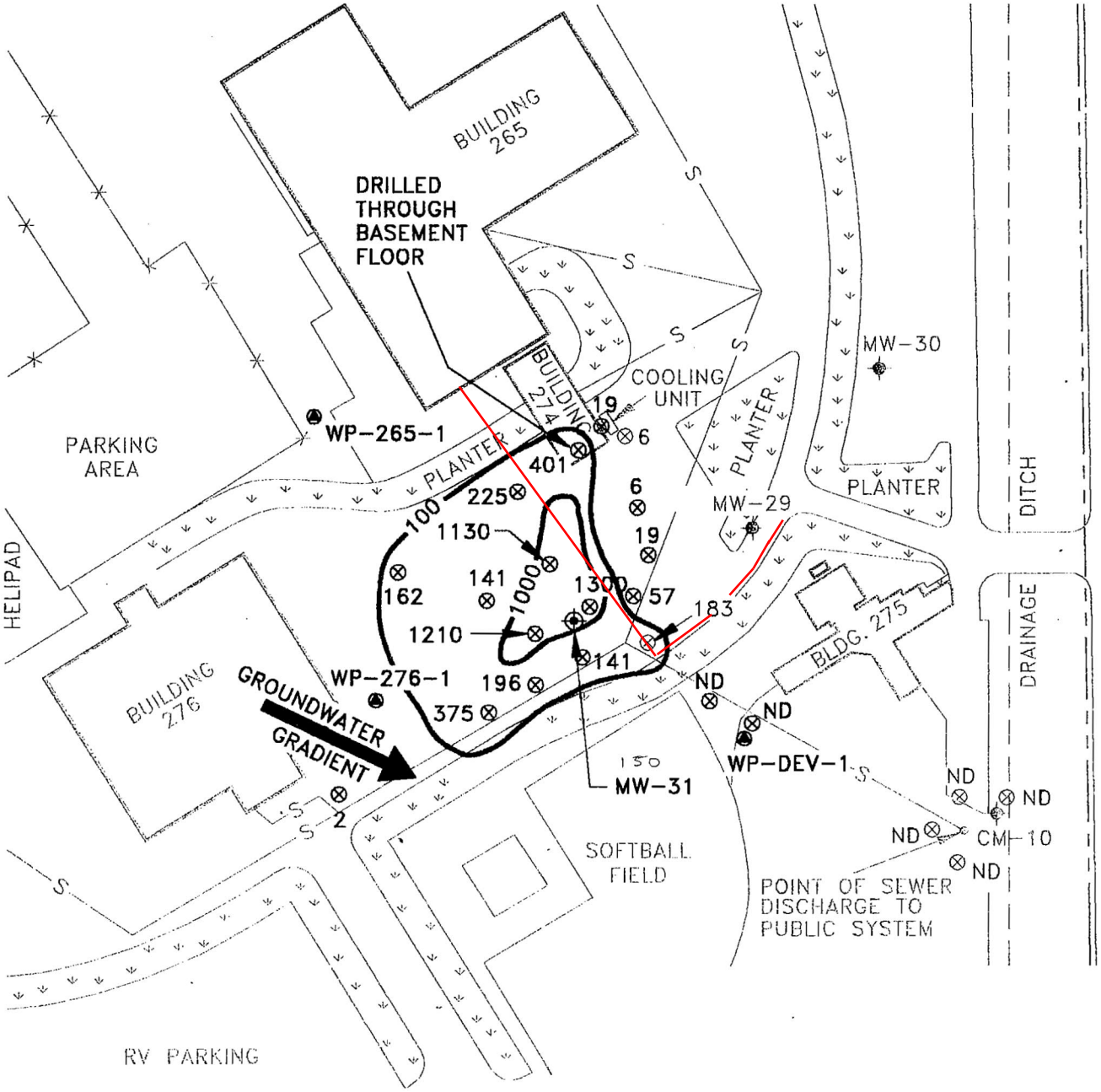


LEGEND

—S—	SEWER LINE
⊗	SOIL GAS POINT, JUNE 1995
⊗	SOIL GAS POINT, AUGUST 1995
162	FREON 11 CONCENTRATION (μg/l)
ND	NOT DETECTED (<1 μg/l)
~	FREON 11 ISOCON (μg/l)
⊕	MONITORING WELL
⊕	NEW MONITORING WELL LOCATION
▲	TEMPORARY WELL SAMPLING LOCATION
—	EDGE OF ORIGINAL PAVEMENT

FLUOR DANIEL GTI

0 FEET 150
APPROXIMATE

Freon-11 Concentrations in Soil Gas with Respect to Original Paved Area

CLIENT: RAYTHEON MISSILE SYSTEM CO.	FILE: 102599-3 (1:1800)	PROJECT NO.: 102599	PM	PE/RG
	REV.			
LOCATION: 8433 FALLBROOK AVENUE CANOGA PARK, CALIFORNIA	DES. RB	DET. SWL	DATE: 8/28/98	FIGURE: 16

TECHNICAL MEMORANDUM

Date: October 1, 2018

Prepared For: Emily Wong, Regional Water Quality Control Board, Los Angeles
Sue Han, CHG, Regional Water Quality Control Board, Los Angeles

RE: Southern Parcels Well Destruction
Former Canoga Park Facility
8433 Fallbrook Avenue, Canoga Park, California
SCP No. 0693A, Site ID No. 2043T00

1.0 INTRODUCTION

Oneida Total Integrated Enterprises, LLC (OTIE) has prepared this technical memorandum on behalf of Raytheon Company documenting groundwater monitoring well destruction. The wells were destroyed on the Southern Parcels of Raytheon's Former Canoga Park Facility located at 8433 Fallbrook Avenue, Canoga Park, California (Figure 1), hereafter referred to as the "Site."

The well destruction request was approved by the Los Angeles Regional Water Quality Control Board (LARWQCB) in a No Further Action (NFA) for Groundwater letter dated March 22, 2018 (Attachment A). The work was performed in accordance with California Department of Water Resources Bulletins 74-81 and 74-91 (California Well standards).

Activities described herein include the following:

- Pre-field activities, including obtaining required permits and notifying Underground Service Alert of Southern California (USA);
- Destruction of wells; and
- Profiling and disposal of investigation-derived waste (IDW).

Well destruction activities were conducted between August 30 and September 11, 2018.

2.0 PRE-FIELD ACTIVITIES

Utility line clearance was completed prior to beginning any drilling activities. Underground Service Alert was notified on August 29, 2018 of the intent to drill, as required by law, and ticket number A182411647-00A was issued. Drilling areas were also cleared using geophysical methods by a subcontractor (Spectrum Geophysics) on August 30, 2018.

Well destruction permit #0156926was obtained from the Environmental Health Division of Los Angeles County.

A copy of the permit is provided in Attachment A.

3.0 WELL DESTRUCTIONS

The following section describes well destruction activities at the Site. All field activities were conducted in accordance with the SOP and the site specific safety and health plan. The site-specific safety and health plan was implemented during field activities (OTIE, 2009 and 2015). Waste management documents will be submitted under separate cover following disposal of soil.

In their letter dated March 22, 2018, the LARWQCB-approved Raytheon's request to destroy the following 13 wells in the Southern Parcels: CM-10, CM-11A, CM-12, CM-15, CM-17, MW-21S, MW-21D, MW-22S, MW-22D, MW-28, MW, 29, MW-30, and MW-31 (Attachment A). Well CM-12 was not destroyed at this time due to its use in contouring groundwater across the Site. Wells MW-22S and MW-22D were unable to be destroyed due to pending access agreement with Los Angeles Department of Water and Power. The locations of the destroyed wells are presented on the Site Plan (Figure 2).

Wells were destroyed using a CME 75 hollow stem auger drilling rig. At each location, destruction started with the removal of the well box. Of the 10 wells destroyed, 6 wells were constructed with PVC (CM-10, CM-11A, MW-28, MW-29, MW-30, and MW-31) and 4 wells with stainless steel (CM-15, CM-17, MW-21S, and MW-21D) (Attachment B).

Well destruction activities are summarized below and in Table 1.

- Wells were measured to verify total depths and approximate groundwater depths.
- PVC wells were overdrilled with auger larger than the original borehole; either 10- or 12-inch outside diameter (OD) auger.
  - Wells were overdrilled using a "guide bit" or "stinger" to ensure the auger did not wander off the borehole and that all well pipe and annular material was removed.
  - Boreholes were backfilled from bottom to near surface with bentonite-Portland cement grout using a tremie pipe.
- Stainless steel wells were grouted under pressure until the well and formation would not take additional grout.
  - Following pressure grouting, well casings were overdrilled to 5 feet below ground and the remaining borehole was grouted to surface.
- Approximate grout volumes used for each well are presented in Table 1.
- For each well/borehole, grout was allowed to settle overnight. Where settlement occurred, the borehole was topped off with bentonite chips and hydrated from the surface. Pea gravel was placed over the hydrated bentonite to reduce the risk of swelling.

- The borehole for each well location was completed to match the surrounding surface materials. All wells were finished with concrete except well CM-15, located within a planter, which was finished with soil and cobbles.

Well destruction logs and the driller's Well Completion Reports are included in Attachment B.

4.0 WASTE MANAGEMENT

Overdrilled well materials and soil were considered IDW and were placed in a labeled, plastic-lined, 20-yard soil bin equipped with a closing top provided by Waste Management of South Gate, California. The bin was stored onsite pending characterization and off-site disposal.

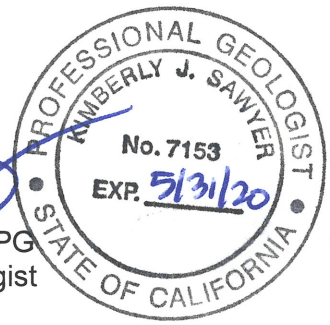
Contents of the bin were characterized and profiled as non-hazardous waste. Soil analytical data are included in Attachment C. Waste profile and waste disposal manifests will be submitted under separate cover once completed.

Please contact the undersigned if you have questions or comments at 805-585-2110.

Sincerely,
Oneida Total Integrated Enterprises, LLC.

Adam Goldenberg, PG
Geologist

Kim Sawyer, PG
Senior Geologist



cc: Daniel S. Samorano, PE (Raytheon)
Tami B. Dittmar (Raytheon)

REFERENCES:

Oneida Total Integrated Enterprises, LLC. (OTIE) 2009. *Environmental Remediation and Monitoring, Former Raytheon Facility, 8443 Fallbrook Avenue, Canoga Park, California. Site Safety and Health Plan/Contingency Plan.* June, and 2015 Amendment

Figures

Figure 1 Site Vicinity Map
Figure 2 Site Plan

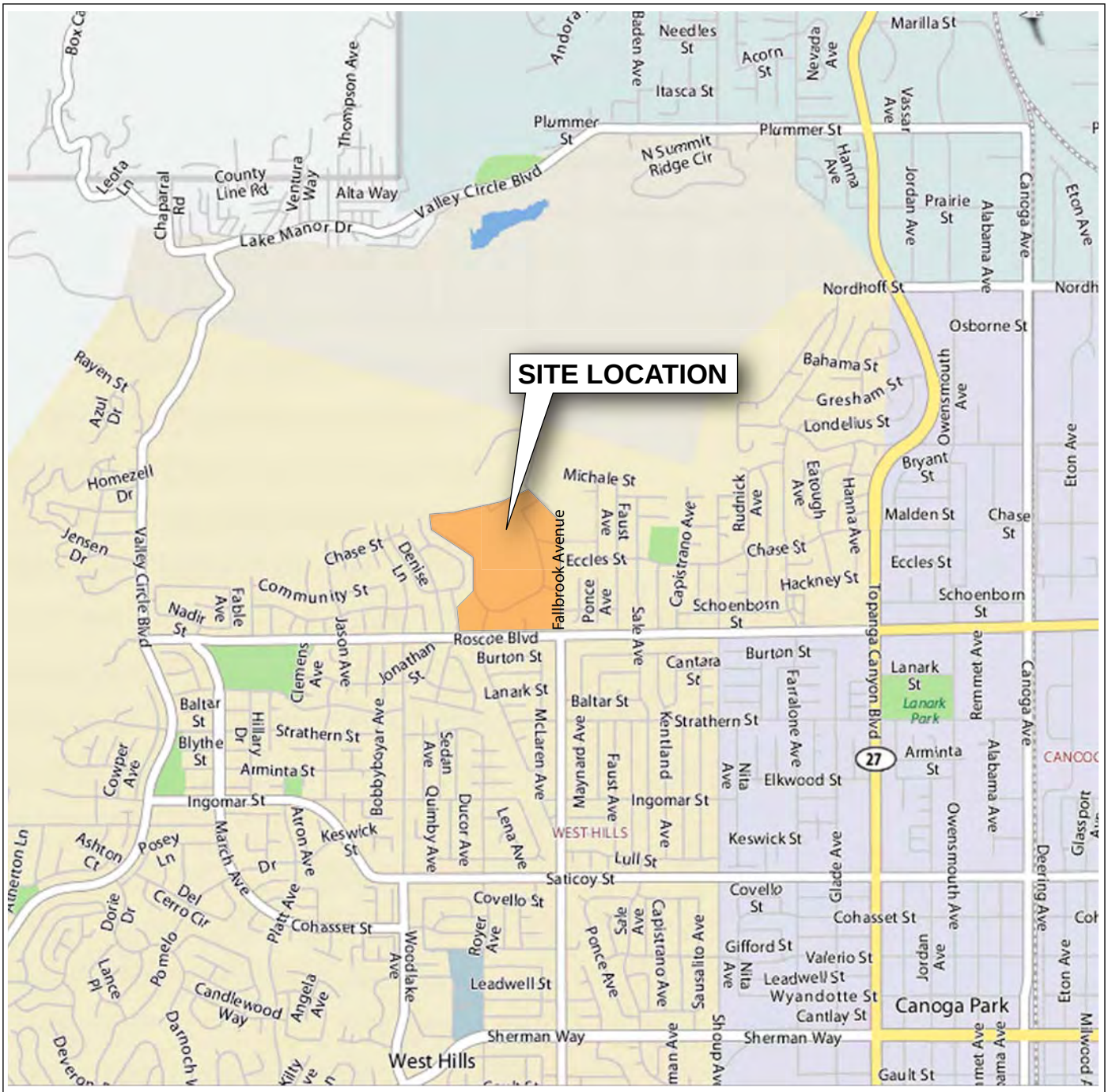
Tables

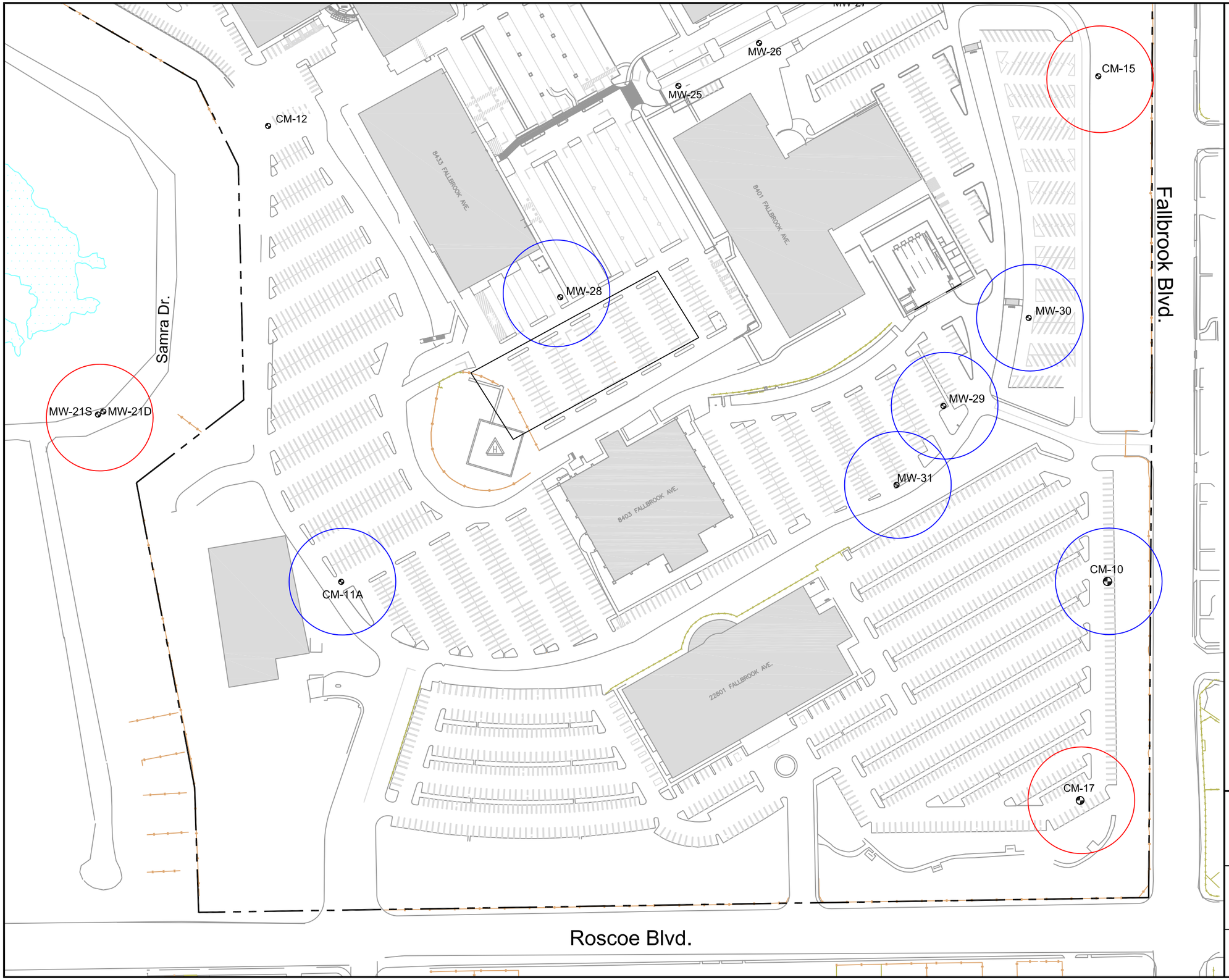
Table 1 Well Destruction Information

Attachments

Attachment A LARWQCB Correspondence and Permit #0156926
Attachment B Well Construction and Destruction Logs
Attachment C Waste Documents

Figures


SITE LOCATION
Fallbrook Avenue
Plummer St
Valley Circle Blvd
Lake Manor Dr
Alta Way
County Line Rd
Ventura Way
Chaparral Rd
Leota Ln
Thompson Ave
Needles St
Itasca St
Acorn St
Nevada Ave
Marilla St
Vassar Ave
Hanna Ave
Jordan Ave
Prairie St
Alabama Ave
Canoga Ave
Eton Ave
Nordhoff St
Osborne St
Bahama St
Gresham St
Londelius St
Owensmouth Ave
Bryant St
Malden St
Chase St
Eccles St
Hackney St
Schoenborn St
Topanga Canyon Blvd
Lanark St
Lanark Park
Remmet Ave
Arminta St
Elkwood St
Keswick St
Saticoy St
Lull St
Covello St
Cohasset St
Gifford St
Valerio St
Leadwell St
Wyandotte St
Cantlay St
Canoga Park
Sherman Way
Gault St
West Hills
WEST HILLS
Roscoe Blvd
Burton St
Cantara St
Strathern St
Baltar St
Ingomar St
Nita Ave
Tampa Ave
Reseda Blvd
Glade Ave
Deering Ave
Glasgow Ave
Michale St
Faust Ave
Rudnick Ave
Eatough Ave
Capistrano Ave
Ponce Ave
Sale Ave
Eccles St
Chase St
Denise Ln
Community St
Nadir St
Fable Ave
Jason Ave
Jonathan St
Clemens Ave
Balter St
Blythe St
Hillary Dr
Cowper Ave
Bobbyboyar Ave
Sedan Ave
Quimby Ave
Ducor Ave
Lena Ave
McLaren Ave
Wynyard Ave
Kentland Ave
Farralone Ave
Rayen St
Azul Dr
Homezell Dr
Jensen Dr
Valley Circle Blvd
Ashton Ct
Posey Ln
March Ave
Atron Ave
Keswick St
Platt Ave
Del Cerro Cir
Dorie Dr
Pomelo Dr
Lance Pl
Candlewood Way
Angela Ave
Woodlake Ave
Royer Ave
Leadwell St
Sherman Way
Darnoch Way
Deverona
Ailerton Ln
Dr
Covello St
Cohasset St
Gifford St
Valerio St
Leadwell St
Wyandotte St
Cantlay St
Sherman Way
Gault St
Sausalito Ave
Ponce Ave
Capistrano Ave
Safe Ave
Royer Ave
Woodlake Ave
Nita Ave
Jordan Ave
Eton Ave
Millwood Ave
Remmet Ave
Owensmouth Ave
Alabama Ave
Canoga Ave
Elkwood St
Arminta St
Ingomar St
Strathern St
Baltar St
Lanark St
Burton St
Roscoe Blvd
Schoenborn St
Eccles St
Malden St
Chase St
Hackney St
Chase St
Eton Ave
Bryant St
Owensmouth Ave
Londelius St
Gresham St
Bahama St
Osborne St
Nordhoff St
Prairie St
Jordan Ave
Alabama Ave
Canoga Ave
Eton Ave
Hanna Ave
Vassar Ave
Marilla St
Needles St
Itasca St
Acorn St
Nevada Ave
Baden Ave
Plummer St
N Summit Ridge Cir
Valley Circle Blvd
Alta Way
County Line Rd
Ventura Way
Chaparral Rd
Leota Ln
Thompson Ave
Box Ca
Andora
Lake Manor Dr
Rayen St
Azul Dr
Homezell Dr
Jensen Dr
Valley Circle Blvd
Nadir St
Fable Ave
Community St
Chase St
Denise Ln
Jason Ave
Jonathan St
Clemens Ave
Roscoe Blvd
Burton St
Lanark St
Balter St
Blythe St
Hillary Dr
Strathern St
Arminta St
Cowper Ave
Ingomar St
Bobbyboyar Ave
Sedan Ave
Quimby Ave
Ducor Ave
Lena Ave
McLaren Ave
Wynyard Ave
Faust Ave
Kentland Ave
Farralone Ave
Nita Ave
Tampa Ave
Reseda Blvd
Glade Ave
Deering Ave
Glasgow Ave
Michale St
Faust Ave
Rudnick Ave
Eatough Ave
Capistrano Ave
Ponce Ave
Sale Ave
Eccles St
Chase St
Hackney St
Schoenborn St
Topanga Canyon Blvd
Lanark St
Lanark Park
Remmet Ave
Arminta St
Elkwood St
Keswick St
Saticoy St
Lull St
Covello St
Cohasset St
Gifford St
Valerio St
Leadwell St
Wyandotte St
Cantlay St
Canoga Park
Sherman Way
Gault St
West Hills
WEST HILLS



Legend

- Property Line
- MW-# / CM-# — Groundwater Monitoring Well
- Stainless Steel Wells Destroyed
- PVC Wells Destroyed

N
W E
S

Approximate Scale in Feet

0 150 300

Figure 2
Site Plan

Former Canoga Park Facility
8433 Fallbrook Avenue, Canoga Park, California

OTIE
An Oneida Nation Company

Date: September 2018

File: Fig 2_ Well Demo.dwg

Tables

Table 1
Well Destruction Information
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California

Well ID	Date Installed	Date Destroyed	Casing Diameter (inches) & Type	Screen Interval (feet bgs)	Screen Slot Type	Constructed Total Depth (feet bgs)	Measured Total Depth at Time of Destruction (feet bgs)	Total Depth of Overdrill (ft bgs)	Original Borehole Diameter (inches)	Overdrill Borehole Diameter (inches)	Estimated Grout Volume (gallons)	Estimated Grout Volume Used (gallons)
PVC MONITORING WELLS												
CM-10	06/28/85	09/06/18	2, PVC	32-52	PVC	52	52.5	55	9	10	224	220
CM-11A	--	09/10/18	4, PVC	--		55	52.9	57	10	12	335	350
MW-28	08/25/93	09/07/18	4, PVC	43-73		73	68.7	75	10	12	441	700
MW-29	08/27/93	09/07/18	4, PVC	35-65		65	64.5	66	10	12	388	400
MW-30	08/27/93	09/04/18	4, PVC	28-58		58	58.4	60	10	12	352	455
MW-31	05/20/98	09/05/18	2, PVC	45-70		70	70	72	8	10	294	315
STAINLESS STEEL MONITORING WELLS												
CM-15	09/24/91	09/11/18	4, SS	40-70	Wire-Wrap SS	70	70	5	10	8	46	50
CM-17	09/27/91	09/10/18	4, SS	45-75		75	72	5	10	8	49	100
MW-21S	07/10/90	09/11/18	2, SS	20-40		40	40	5	10	8	7	20
MW-21D	06/27/90	09/11/18	2, SS	70-80		80	82	5	10	8	13	25

Notes:
1) bgs = below ground surface; PVC = poly vinyl chloride; SS = Stainless Steel
2) '--' = not available or applicable

Attachment A

LARWQCB Correspondence and Permit #0156926

CALIFORNIA
Water Boards

EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIQUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

Los Angeles Regional Water Quality Control Board

March 22, 2018

Mr. Daniel S. Samorano
Raytheon Company
1151 East Hermans Road
TU, Bldg. 845
Tucson, AZ 85706

Certified Mail
Return Receipt Requested
Claim No. 7016 0750 0000 3359 3034

SUBJECT: NO FURTHER ACTION FOR GROUNDWATER

CASE/SITE: SOUTHERN PARCELS OF FORMER HUGHES MISSILE SYSTEMS COMPANY FACILITY, 8433 FALLBROOK AVENUE, CANOGA PARK, CALIFORNIA (SCP NO. 0693A, SITE ID NO. 2043T00)

Dear Mr. Samorano:

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) is the state agency with primary responsibility for the protection of groundwater and surface water quality within major portions of Los Angeles and Ventura counties, including the referenced site. To accomplish this, the Regional Board oversees the investigation and cleanup of discharges of waste that may affect the quality of waters of the state as authorized by the Porter-Cologne Water Quality Control Act (California Water Code [CWC], Division 7).

This site has been jointly lead by the California Regional Water Quality Control Board, Los Angeles Region (Regional Board) and the Department of Toxic Substances Control (DTSC). The Regional Board has been overseeing the investigation and remediation of groundwater contamination at the site, while the DTSC has jurisdiction to address the site soil contamination as a result of the historical operations under various Resource Conservation and Recovery Act (RCRA) permits.

Regional Board staff have reviewed the July 31, 2012, *Confirmation Sampling Report for No Further Action Status in the Southern Parcels* prepared and submitted by your environmental consultant, Oneida Total Integrated Enterprise, and other relevant information regarding the southern parcels of former Hughes Missile System Facility (site). The following information is presented in the submitted reports:

1. The subject site consists of three parcels, with current Los Angeles County Assessor Identification (Parcel) Numbers 2005-002-014, 2005-002 -901, and 2005-002 -013 (Attachment 1). The site is part of an approximately 56-acre property that was occupied and operated as an industrial park from 1959 through 1994. In 1959, the 56-acre property was developed as an industrial park by Bunker-Ramo, an electrical component design and testing company. From 1966 through 1994, the former Hughes Missile Systems operated the 56-acre property as an aerospace research and development facility. Since 1995, the site has been redeveloped with several commercial office buildings.

Since the early 1990s, numerous investigations and remedial activities have been conducted at the 56-acre property. Through a merger with Hughes in 1997, Raytheon assumed management of the environmental investigations and remediation activities at the 56-acre property.

2. During the 56-acre property-wide environmental investigation activities in the early 1990s, concentrations of Trichlorofluoromethane (also known as Freon-11) were detected up 300 micrograms per liter (µg/L), above its California drinking water maximum contaminant level (MCL) of 150 µg/L, in groundwater well CM-10. Monitoring well CM-10 is located within Parcel No.2005-002-013 of the site.

3. From 1993 to 1998, additional site characterization activities were conducted at and within the vicinity of well CM-10 to identify the source area and further define the extent of the Freon-11 plume. Based on the results of the soil, soil vapor, and groundwater investigations, the former parking lot, located between former Buildings 274 and 276, was identified as a source area. Historical operations in Buildings 274 and 276 included solvent cleaning using Freon-11.

4. In 2007, the Regional Board approved the removal of nine wells (CM-10, CM-11A, CM-12, CM-15, CM-17, MW-28, MW-29, MW-30, and MW-31) located at and in and vicinity of the site (Parcels 2005-002-014, 2005-002-013, and 2005-002-901) from the 56-acre property-wide groundwater monitoring program. Based on the cumulative groundwater monitoring data collected from these wells, the concentrations of VOCs had been consistently below MCLs or non-detect for several years and concentrations of Freon-11 in groundwater had decreased over the last several years and continued to be below its MCL of 150 µg/L.

5. In 2012, as part of the confirmation sampling activities, additional groundwater sampling was conducted both on-site and off-site. The results of this confirmation sampling indicates that the extent of Freon-11 impacted groundwater has been adequately defined. All detected concentrations of Freon-11 in groundwater during this confirmation sampling were below its MCL of 150 µg/L

6. The results of the source investigation and groundwater monitoring and sampling are summarized as follows:

    A. The occurrence of Freon-11 in well CM-10 has been adequately investigated and the source was identified. Since the associated former on-site building was demolished and operations stopped, there is no active or continued source at the site.

    B. The lateral and vertical extents of the Freon-11 groundwater impact have been fully assessed and defined both in the vicinity of the identified Freon Source Area and off-site downgradient direction.

    C. The groundwater monitoring data collected from 1993 to 2012 show decreasing trends of Freon-11 concentrations to levels continuously below its MCL of 150 µg/L.

    D. Groundwater investigation and continued monitoring data do not indicate any significant residual Freon-11 contamination that warrants further monitoring or remediation.

A Notice of Opportunity to Comment on the no further action determination was sent out on November 13, 2017, inviting comments. The due date to submit comments to this Regional Board was December

15, 2017. By the specified due date, the Regional Board received only one response letter, which was from the DTSC and is summarized below:

On December 15, 2017, the Regional Board received a comment letter from the DTSC, which was addressed to Raytheon (Attachment 2). In the letter, the DTSC recommended that the existing groundwater monitoring wells in the area be resampled for VOCs prior to the Regional Board granting an NFA and allowing well abandonment.

In response to the DTSC's recommendation, Raytheon's consultant monitored two related wells MW-31 and CM-10, which are located in and downgradient of the former area of concern. The results of this confirmation monitoring are presented in the February 8, 2018 technical memorandum titled *Additional Groundwater Sampling for Southern Parcel Closure* (Memo). The Memo indicates that wells MW-31 and CM-10 were monitored on January 22, 2018. Due to dryness of well CM-10, only one confirmation groundwater sample was collected from MW-31 and analyzed for VOCs. Freon-11 was detected at concentration of 64 µg/L, which was below its MCL of 150 µg/L. No other VOCs were detected in the sample collected from well MW-31.

No Further Action Determination

Based upon information provided to the Regional Board, and with the provision that the information was accurate and representative of site conditions, the Regional Board requires no further action (NFA) for groundwater beneath the site (APNs: 2005-002-013, 2005-002-901, and majority of 2005-002-014) at this time. However, the site owners/operators must notify the Regional Board immediately, following up with notification letter within 72 hours, if additional waste in soil and/or groundwater is encountered at the site.

Well Abandonment and Destruction

All monitoring wells (CM-10, CM-11A, CM-12, CM-15, CM-17, MW-21S, MW-21D, MW-22S, MW-22D, MW-28, MW-29, MW-30, and MW-31) shall be abandoned in accordance with the California Department of Water Resources, Bulletin 74-81 and Bulletin 74-90, *California Well Standards*. For well abandonment, you must comply with the following:

A. Well abandonment permits must be obtained from the Los Angeles County, Public Health Department, Environmental Health Division, Drinking Water Program. Any other necessary permits must be obtained from the appropriate agencies prior to the start of field work.

B. A well abandonment report shall be submitted to this Regional Board by **July 31, 2018**. This report must include, at a minimum, as site map showing the well location, a description of the well abandonment process and waste handling, and copies of all signed permits.

The jurisdiction requirements of other agencies, such as the United States Environmental Protection Agency, are not affected by the Regional Board's issuance of a NFA letter at the site. Such agencies may choose to make their own determination concerning this site.

We would like to take this opportunity to thank you for your full cooperation with the Regional Board during the course of the site assessment. Should you have any questions regarding this matter, please contact Ms. Emily Wong, Project Manager, at (213) 576-6736, emily.wong@waterboards.ca.gov, or Ms. Su Han, Unit Chief, at (213) 576-6735, su.han@waterboards.ca.gov.

Sincerely,

Samuel Unger, P.E.
Executive Officer

Attachment: Attachment 1 - Site Parcel Map
Attachment 2 - DTSC's letter dated December 15, 2017

cc: see next page

cc: **State and Local Agencies (via Electronic Copy)**
Mr. Sutida Bergquist, California Division of Drinking Water – Central
Mr. Luis Sepulveda, Watermaster, California Department of Water Resources
Mr. Richard Lavin, Los Angeles County, Department of Public Health
Mr. Richard Slade, Upper Los Angeles River Area Watermaster
Ms. Jessy Fierro, Department of Toxic Substances Control
Mr. Brian Partington, Water Replenishment District Southern California
Ms. Sarah Combe, City of Los Angeles, Department of Water and Power

Project Interested Parties (via Electronic Copy)
Mr. Daniel S. Samorano, Raytheon Company
Mr. Jacques Marcillac/Ms. Kim Sawyer, OTIE
Mr. William Preston Bowling, Aerospace Cancer Museum and Education
Ms. Christina Walsh, Cleanuprocketdyne.org
Ms. Bonnie Klea
Ms. Chris Rowe
Mr. Daniel Wiseman

Property Owners (via Electronic Copy)
Parcel Number 2005-002-014
BSREP West Hills Office Campus LLC
c/o Ms. Erin Sullivan, CBRE USA

Parcel Number 2005-002-013
BA Leasing BSC LLC
c/o Mr. John Gallant, Thermo Fisher Scientific

Parcel Number 2005-002-901
Ms. Melody McCormick, City of Los Angeles

Occupants Parcel Number 2005-002-014 (via Postal Service)
Quest Diagnostics
8401 and 8403 Fallbrook Ave.
Canoga Park, CA 91304

Sears Operations Center
8407 Fallbrook Ave., Ste, 100
Canoga Park, CA 91304

QBE/Westwood Insurance
8407 Fallbrook Ave., Stes, 150, 200, and 270
Canoga Park, CA 91304

Platinum Group of Companies, Top Finance
8407 Fallbrook Ave., Ste, 250
Canoga Park, CA 91304

Trimana Café
8411 Fallbrook Ave.
Canoga Park, CA 91304

Fiserv
8413 Fallbrook Ave.
Canoga Park, CA 91304

Central Plant for West Hills campus
8415 Fallbrook Ave.
Canoga Park, CA 91304

Occupant: Parcel Number 2005-002-013
No occupants at this time (facility under development)

Occupant: Parcel Number 2005-002-901 (via Postal Service)
LAPD - Valley Communications Dispatch Center
23001 Roscoe Blvd.
Canoga Park, CA 91304

2005	2 SHEET	P. A. 2011-27	TRA 16	REVISED: 671204059 97061105001001-29	97061105001002-29 97072104003001-29 97101603005001-29	97101603005002-29 2000121104002001-29 2003071107006001-23, 29	2016122002008001-23 2016122002008002-23		SEARCH NO		OFFICE OF THE ASSESSOR COUNTY OF LOS ANGELES COPYRIGHT © 2002

2017



DATE PRINTED: 12/20/2016 3:28:38 PM
DATE SAVED: 12/20/2016 3:28:26 PM

Department of Toxic Substances Control

Matthew Rodriquez
Secretary for
Environmental Protection

Barbara A. Lee, Director
9211 Oakdale Avenue
Chatsworth, California 91311

Edmund G. Brown Jr.
Governor

December 15, 2017

Mr. Daniel S. Samorano
Raytheon Company
1151 East Hermans Road
TU, Bldg 826
Tucson, AZ 85706

RAYTHEON CANOGA PARK SITE – 8433 FALLBROOK AVENUE, CANOGA PARK, CA 91304

Dear Mr. Samorano:

The Department of Toxic Substances Control (DTSC) received a notification from the Los Angeles Regional Water Quality Control Board (LARWQCB) regarding its determination to provide groundwater closure for the Southern Parcels at the Raytheon Site (Site) based on the information provided in the *Confirmation Sampling Report for No Further Action Status in the Southern Parcels* (Report) dated July 31, 2012. Please be aware that DTSC is the designated lead regulatory agency to oversee the corrective action at this facility.

Because DTSC does not have an agreement with Raytheon, DTSC cannot conduct a thorough review of the Report or determine whether requirements are met to provide closure for the southern parcels. Based on a limited review, DTSC has provided comments below.

Additionally, as previously stated in discussions with Raytheon, the Areas of Concern (AOCs) identified in the RCRA facility Assessment Report dated January 30, 2008 requires investigation. Please contact DTSC Project Manager, Jessy Fierro, to discuss entering into a Corrective Action Consent Agreement.

If you have any questions, please contact Jessy Fierro at (818) 717-6563 or me at (818) 717-6539.

Sincerely,

Juli Propes
Acting Branch Chief
Brownfields and Environmental Restoration Program – Chatsworth Office

DTSC COMMENTS

Document: *Confirmation Sampling Report for No Further Action Status in the Southern Parcels* (Report) dated July 31, 2012

1. Section 2.1 discusses previous characterization. Soil sampling was apparently conducted in August 1993 at borings B-RNDM-3, B-SL-8, and B-SL-10. The DTSC Geologic Service Branch (GSB) recommends that a map showing the location of these borings be attached to the confirmation sampling report. Additionally, it appears that no soil samples have been collected from within the area identified as the expected source of the Freon 11 contamination. Also, no soil impacted with Freon 11 was removed from the expected source area. However, the confirmation soil vapor samples collected in 2011 indicate that Freon 11 in soil vapor had decreased in the expected source area since soil gas samples first collected in 1995.

2. The last apparent groundwater sampling from existing wells in this area was in 2012. Monitoring well MW-31, located within the Freon 11 source has had reported concentrations less than the Freon-11 MCL since approximately 2000. As shown on Graph 1 data since approximately 2006 has shown a slightly increasing trend of Freon-11 with the last sample from April 30, 2012 to be 120 ug/L (see Table 2). Current groundwater concentrations are unknown since there is no reported data for the last 5 years. The GSB recommends that the existing groundwater monitoring wells in the area be resampled for VOCs prior to the LA RWQCB granting an NFA and allowing abandonment of the wells.

3. Table 1 - DTSC does not recommend using the Environmental Screening Levels (ESLs) established by Regional Water Quality Control Board, San Francisco Region (SFRWQCB),as these values are not representative of Southern California conditions. Soil gas screening levels (SLs) should be developed using DTSC Human Health Risk Assessment (HHRA) Note 3. If SLs are not available in HHRA Note 3, then DTSC recommends using USEPA Regional Screening Levels (RSLs). PCE showed slight exceedances for future residential scenario but no exceedance for future industrial use.

Please contact the following DTSC staff for questions regarding these comments:

Wendy Arano, PG – DTSC Geologist: Wendy.Arano@dtsc.ca.gov
Donald Greenlee, PhD – DTSC Toxicologist: Donald.Greenlee@dtsc.ca.gov
Jessy Fierro – Project Manager: Jessy.Fierro@dtsc.ca.gov

July 17, 2018

Mr. Daniel S. Samorano
Raytheon Company
1151 East Hermans Road
TU, Bldg 845
Tucson, AZ 85706

SUBJECT: APPROVAL EXTENSION REQUEST TO SUBMIT A TECHNICAL REPORT FOR GROUNDWATER MONITORING WELLS ABANDONMENT ACTIVITIES IN SOUTHERN PARCELS

CASE/SITE: RAYTHEON COMPANY (FORMER HUGHES MISSILE SYSTEMS COMPANY) 8433 FALLBROOK AVENUE, CANOGA PARK, CALIFORNIA (SCP NO. 0693A, SITE ID NO. 2043T00)

Dear Mr. Samorano:

Los Angeles Regional Water Quality Control Board (Regional Board) staff received an extension request letter to submit a technical report (Report) presenting the results of groundwater monitoring wells abandonment activities in the southern parcels of the site (Letter). The Letter was prepared and submitted by your consultant Oneida Total Integrated Enterprise (OTIE) on July 6, 2018. The Letter indicates the wells abandonment activities have been delayed due to limited budget/funding available to implement the field work. Therefore, the Letter requests a 60-day extension to submit the Report. The original due date of July 31, 2018 was specified in the Regional Board's letter dated March 22, 2018. Based on the information submitted, Regional Board staff approves the submittal of the Report from July 31, 2018 to **October 1, 2018**.

Should you have any questions, please contact me at (213) 576-6736 (emily.wongewong@waterboards.ca.gov).

Sincerely,

Emily Wong
Water Resource Control Engineer
Site Cleanup Unit I

cc: see next page.

cc: State and Local Agencies (via Electronic Copy)

Mr. Sutida Bergquist, California Division of Drinking Water – Central
Mr. Luis Sepulveda, Watermaster, California Department of Water Resources
Mr. Richard Lavin, Los Angeles County, Department of Public Health
Mr. Richard Slade, Upper Los Angeles River Area Watermaster
Ms. Jessy Fierro, Department of Toxic Substances Control
Mr. Brian Partington, Water Replenishment District Southern California
Ms. Sarah Combe, City of Los Angeles, Department of Water and Power

Project Interested Parties (via Electronic Copy)
Mr. Jacques Marcillac/Ms. Kim Sawyer, OTIE
Mr. William Preston Bowling, Aerospace Cancer Museum and Education
Ms. Christina Walsh, Cleanuprocketdyne.org
Ms. Bonnie Klea
Ms. Chris Rowe
Mr. Daniel Wiseman

Property Owners (via Electronic Copy)
Parcel Number 2005-002-014
BSREP West Hills Office Campus LLC
c/o Ms. Erin Sullivan, CBRE USA

Parcel Number 2005-002-013
BA Leasing BSC LLC
c/o Mr. John Gallant, Thermo Fisher Scientific

Parcel Number 2005-002-901
Ms. Melody McCormick, City of Los Angeles

ENVIRONMENTAL HEALTH

Drinking Water Program

5050 Commerce Drive, Baldwin Park, CA 91706
Telephone: (626) 430-5420 • Facsimile: (626) 813-3013 • Email: waterquality@ph.lacounty.gov
http://publichealth.lacounty.gov/eh/ep/dw/dw_main.htm

Work Plan Approval

TO BE COMPLETED BY APPLICANT:

WORK SITE ADDRESS	CITY	ZIP	EMAIL ADDRESS FOR WELL PERMIT APPROVAL
8433 Fallbrook Ave	Canoga Park	91304	ksawyer@otie.com

NOTICE:

- WORK PLAN APPROVALS ARE VALID FOR 180 DAYS. 30 DAY EXTENSIONS OF WORK PLAN APPROVALS ARE CONSIDERED ON AN INDIVIDUAL (CASE-BY-CASE) BASIS AND MAY BE SUBJECT TO ADDITIONAL PLAN REVIEW FEES (HOURLY RATE AS APPLICABLE).
- WORK PLAN MODIFICATIONS MAY BE REQUIRED IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED AT THE SITE INSPECTION ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.
- WORK PLAN APPROVALS ARE LIMITED TO COMPLIANCE WITH THE CALIFORNIA WELL STANDARDS AND THE LOS ANGELES COUNTY CODE AND DOES NOT GRANT ANY RIGHTS TO CONSTRUCT, RENOVATE, OR DECOMMISSION ANY WELL. THE APPLICANT IS RESPONSIBLE FOR SECURING ALL OTHER NECESSARY PERMITS SUCH AS WATER RIGHTS, PROPERTY RIGHTS, COASTAL COMMISSION APPROVALS, USE COVENANTS, ENCROACHMENT PERMISSIONS, UTILITY LINE SETBACKS, CITY/COUNTY PUBLIC WORKS RIGHTS OF WAY, ETC.
- ALL FIELD WORK MUST BE CONDUCTED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL GEOLOGIST LICENSED IN THE STATE OF CALIFORNIA.
- THIS PERMIT IS NOT COMPLETE UNTIL ALL OF THE FOLLOWING REQUIREMENTS ARE SIGNED BY THE DEPUTY HEALTH OFFICER. WORK SHALL NOT BE INITIATED WITHOUT A WORK PLAN APPROVAL STAMPED BY THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.
- ***ONCE APPROVED NOTIFY BELINDA LARSEN AT*** { HYPERLINK "mailto:blarsen@ph.lacounty.gov" } ***PREFERABLY 4 BUSINESS DAYS BEFORE WORK IS SCHEDULED TO BEGIN.***

TO BE COMPLETED BY DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM:

X WORK PLAN APPROVED DATE: 8-24-2018

ADDITIONAL APPROVAL CONDITIONS:

On 8-16-2018, $735.00 was paid for permit # 0156926 to decommission 10 monitoring wells. Follow the work plan submitted and maintain any setback requirements. Follow all requirements set forth in the California Well Standards bulletins 74-81 and 74-90. Six wells (CM-10, CM-11A, MW-28, MW-29, MW-30, and MW-31) will be over drilled from the ground surface to the total depth. Wells (CM-15, CM-17, MW-21S, and MW-21D) will be pressure grouted in place. Notify me at blarsen@ph.lacounty.gov prior to start of field work.

.

5838
Belinda Larsen R.E.H..S
818-593-7308

□ ANNULAR SEAL FINAL INSPECTION REQUIRED		□ WELL COMPLETION LOG REQUIRED	
DATE ACCEPTED:	REHS signature	DATE ACCEPTED:	REHS signature

□ WATER QUALITY—BACTERIOLOGICAL STANDARDS REQUIRED		□ WATER QUALITY—CHEMICAL STANDARDS REQUIRED	
DATE ACCEPTED:	REHS signature	DATE ACCEPTED:	REHS signature

□ WATER SUPPLY YIELD REQUIRED		□ OTHER REQUIREMENT	
DATE ACCEPTED:	REHS signature	DATE ACCEPTED:	REHS signature

Attachment B

Well Logs

Well Construction Logs

TABLE A-10

LITHOLOGIC LOG FOR MONITOR WELL CM-10

DEPTH INTERVAL (feet)		DESCRIPTION OF MATERIAL
0 - 1	FILL:	Sandy clay, light grey brown, dry, moderately cohesive, sand is very fine to fine-grained, with some gravel.
1 - 8	CLAY:	Light grey brown, moist, moderately cohesive, with some sand, with some gravel to 1/2-inch diameter.
8 - 9	SANDY CLAY:	Medium brown, slightly moist, moderately cohesive, sand is fine-grained.
9 - 16	SILTY SAND:	Brown, slightly moist, loose, sand is very fine-grained, with some clay.
16 - 27	SAND:	Brown, slightly moist, loose, with some silt, with some clay.
27 - 30	SANDY CLAY:	Brown, moist, firm, moderately cohesive, sand is very fine-grained.
30 - 34	SAND:	Tan, slightly moist, loose, very fine to fine-grained.
34 - 35	SANDY CLAY:	Brown, very moist, firm, moderately cohesive.
35 - 54	SILTSTONE: (Modelo Fm)	Buff, saturated, slightly hard, upper few feet are weathered. Interbedded siltstone and claystone. Buff, orange, medium brown, saturated.

TOTAL DEPTH OF BOREHOLE: 54 FEET

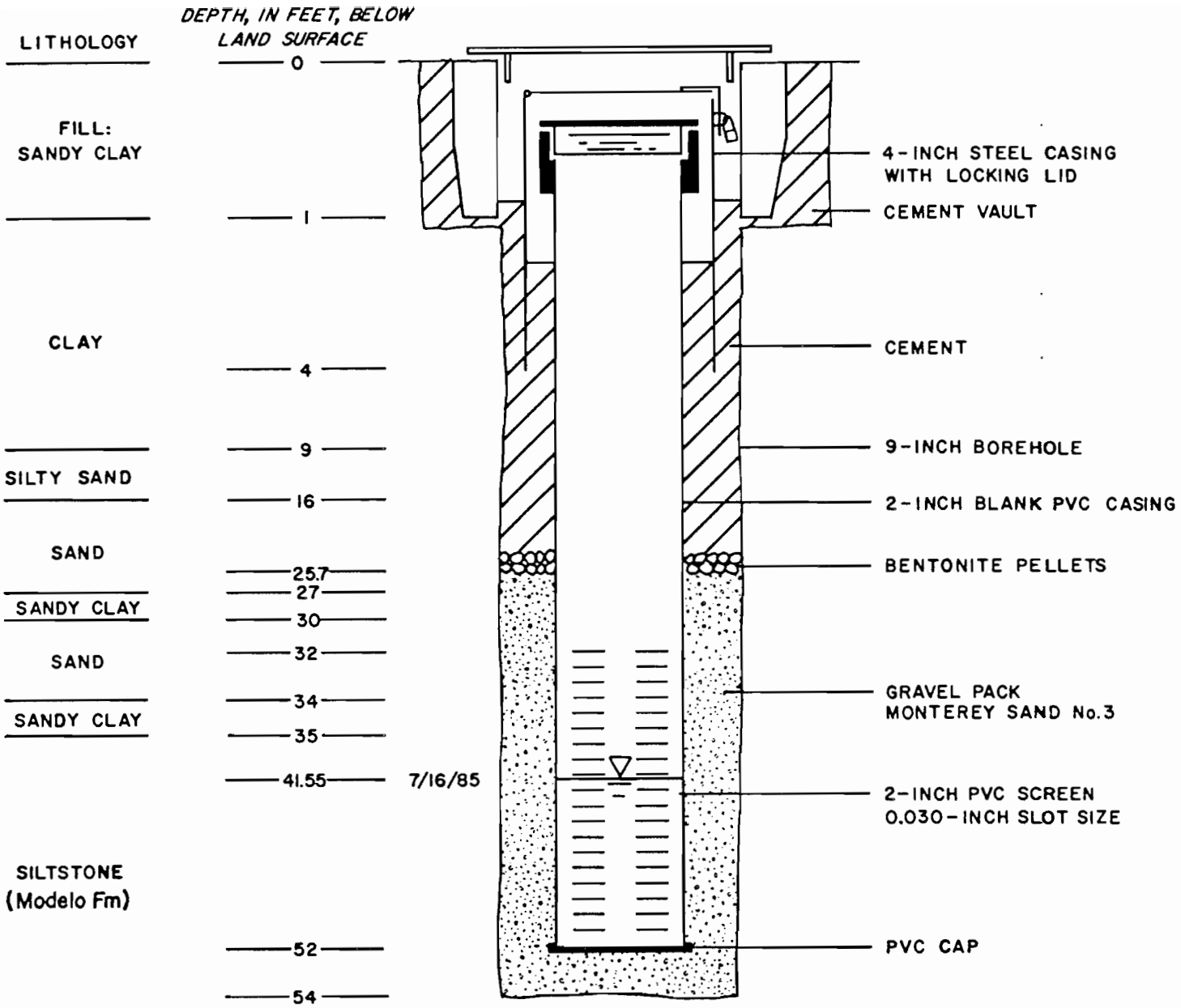


FIGURE B-9. SCHEMATIC CONSTRUCTION DIAGRAM OF MONITOR WELL CM-10

SUBSURFACE EXPLORATION LOG

BORING NUMBER: CM-15

CLIENT: HUGHES AIRCRAFT COMPANY
JOB NUMBER: 3600-051-900
LOCATION: CANOGA PARK, CALIF

GEOLOGIST: M.L. DANIEL
DATE DRILLED: 09-24-91
DRILLING COMPANY: Valley Well

TOTAL DEPTH: 70
DRILLING METHOD: H.S.A
SAMPLE METHOD: S.S.

DEPTH feet	SAMPLE NUMBER	BLOW COUNT	FID ppm	RECOVERY %	GEOLOGIC DESCRIPTION	SOIL CLASS.	GRAPHIC LOG	DEPTH feet
						ML		
5		3 5 8	0		SILT- Reddish brown, vertical rootlets, firm, dry no plasticity, no odor, no stain.			5
10		6 13 20	0.8		SILTY CLAY- Yellowish brown, hard, dry, no plasticity, no odor, no stain.			10
15		5 8 18	0		SILTY CLAY- Same as above- damp, low plasticity.			15
20	CM-15-20		1		SILTY CLAY- Yellowish brown, very hard, dry, no plasticity, no odor, some iron staining.			20
25		6 7 18	0		SILTY CLAY- Same as above- moist, laminated.	CL		25
30		6 12 20	0		SILTY CLAY- Same as above- slightly plastic.			30
35		10 14 23	0.8		SILTY CLAY- Same as above.			35
40								40

ENSR Consulting & Engineering

SUBSURFACE EXPLORATION LOG

BORING NUMBER: CM-15

CLIENT: HUGHES AIRCRAFT COMPANY
JOB NUMBER: 3600-061-900
LOCATION: CANOGA PARK, CALIF

GEOLOGIST: M.L. DANIEL
DATE DRILLED: 09-24-91
DRILLING COMPANY: Valley Well

TOTAL DEPTH: 70
DRILLING METHOD: H.S.A
SAMPLE METHOD: S.S.

DEPTH feet	SAMPLE NUMBER	BLOW COUNT	FID ppm	RECOVERY %	GEOLOGIC DESCRIPTION	SOIL CLASS.	GRAPHIC LOG	DEPTH feet
		9 31 50	0		SILTY CLAY- Yellowish brown, firm, damp, low plasticity, laminated with some bedding planes stained with iron, vertical and horizontal fractures covered with black organic matter, no odor.	CL		
45		9 21 50-5"	0.4		SILTY SAND- Yellowish brown, moderately plastic, soft, damp, laminated, no odor, slight iron stain.	SM		45
50	CM-15-50	3 29 50-5"	0.4		SILTY CLAY- Dark brown, low plasticity, damp, laminated with laminae at approximately 45 degree angle to horizontal in core, fine grained sand coating bedding planes.			50
					Water encountered at 54 feet, sampling discontinued.			
55		NA	NA	NA	Boring terminated by geologist at 70 feet.			55
						CL		
60		NA	NA	NA				60
65		NA	NA	NA				65
70		NA						70
75								75
80								80

ENSR Consulting & Engineering

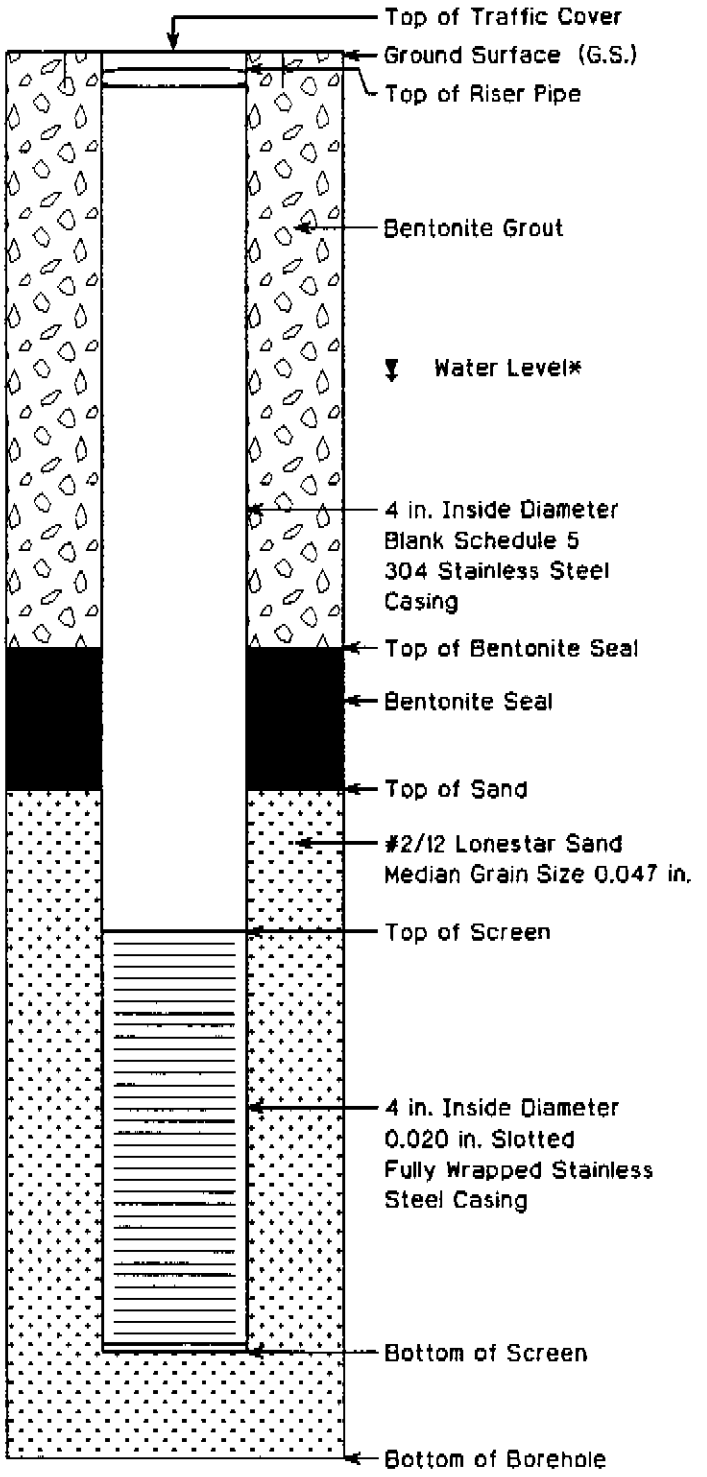
WELL NUMBER: CM-15

PROJECT NUMBER: 3600-051-900
CLIENT: Hughes Aircraft Company
SITE: Canoga Park, Ca.

DATE INSTALLED: 9/24/91
TOTAL DEPTH (feet): 70
INSTALLED BY: Valley Well Drilling

ELEV. TOP RISER PIPE: 845.1 ft.
GEOLOGIST: M.L. Daniel
APPROVED BY:

MONITORING WELL CONSTRUCTION DETAIL



	DEPTH FROM G.S. (feet)	ELEVATION (NGVD)
Ground Surface (G.S.)	0	845.6
Top of Riser Pipe	.5	845.1
Water Level*	33	812.1
Top of Bentonite Seal	34.5	811.1
Top of Sand	37.5	808.1
Top of Screen	40.5	805.1
Bottom of Screen	70.5	775.1
Bottom of Borehole	71	774.1

NOT TO SCALE

NGVD - National Geodetic Vertical Datum
* - Water level measured 10/17/91 relative to surveyed notch at the top of casing

ENSR CONSULTING & ENGINEERING

SUBSURFACE EXPLORATION LOG

BORING NUMBER: CM-17

CLIENT: HUGHES AIRCRAFT COMPANY
JOB NUMBER: 3600-051-900
LOCATION: CANOGA PARK, CALIF.

GEOLOGIST: M.L. DANIEL
DATE DRILLED: 09-27-91
DRILLING COMPANY: Valley Well

TOTAL DEPTH: 70
DRILLING METHOD: H.S.A
SAMPLE METHOD: S.S.

DEPTH feet	SAMPLE NUMBER	BLOW COUNT	FID ppm	RECOVERY %	GEOLOGIC DESCRIPTION	SOIL CLASS.	GRAPHIC LOG	DEPTH feet
5		3 9 11	1	100	SILTY CLAY- Very pale orange, soft, damp, slightly plastic, no no odor, no stain.	ML		5
10		7 11 14	0	90	SAND- Yellowish brown, fine to medium grained, some coarse grains, moderately sorted, loose, damp, no stain, no odor.	SP/SW		10
15		6 7 8	0	90	SAND- Same as above, medium to coarse grained, poorly sorted. SILTY SAND- Reddish brown, fine grained, moderately sorted, loose, damp, no stain, no odor.			15
20		3 5 9	0	90	SILTY SAND- Same as above.	SM		20
25		4 8 8	0	90	SILTY SAND- Same as above.			25
30		2 5 8	0	90	SANDY SILT- Reddish brown, loose, moist, no plasticity, no stain, no odor.	ML		30
35		3 10 14	0	90	SILTY SAND- Reddish brown, fine to medium grained, some coarse grains, poorly sorted, loose, moist, no stain, no odor.	SM		35
0								40

ENSR Consulting & Engineering

SUBSURFACE EXPLORATION LOG

BORING NUMBER: CM-17

CLIENT: HUGHES AIRCRAFT COMPANY
JOB NUMBER: 3600-051-900
LOCATION: CANOGA PARK, CALIF.

GEOLOGIST: M.L. DANIEL
DATE DRILLED: 09-27-91
DRILLING COMPANY: Valley Well

TOTAL DEPTH: 70
DRILLING METHOD: H.S.A
SAMPLE METHOD: S.S.

DEPTH feet	SAMPLE NUMBER	BLOW COUNT	FID ppm	RECOVERY %	GEOLOGIC DESCRIPTION	SOIL CLASS.	GRAPHIC LOG	DEPTH feet
	CM-17-40	6 17 30	0	100	SILTY SAND- Same as above, fine grained, some coarse grains, moderately hard.			
45	CM-17-45	6 12 45	1.7	100	SILTY SAND- Same as above, loose. Sampling terminated by geologist at groundwater @ 50 feet. Boring drilled ahead to total depth of 70 feet.			45
50		NA	NA	NA				50
55		NA	NA	NA		SM		55
60		NA	NA	NA				60
65		NA	NA	NA				65
70								70
75								75
80								80

ENSR Consulting & Engineering

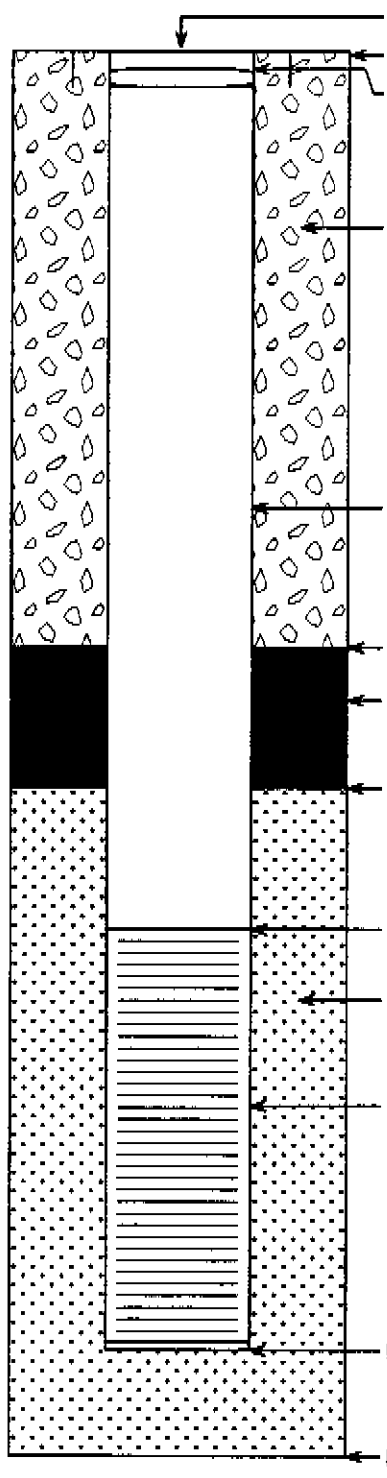
WELL NUMBER: CM-17

PROJECT NUMBER: 3600-051-900
CLIENT: Hughes Aircraft Company
SITE: Canoga Park, Ca.

DATE INSTALLED: 9/26/91
TOTAL DEPTH (feet): 75
INSTALLED BY: Valley Well Drilling

ELEV. TOP RISER PIPE: 851.2 ft.
GEOLOGIST: M.L. Daniel
APPROVED BY:

MONITORING WELL CONSTRUCTION DETAIL



	DEPTH FROM G.S. (feet)	ELEVATION (NGVD)
Top of Traffic Cover		
Ground Surface (G.S.)	0	851.2
Top of Riser Pipe	.5	850.7
Bentonite Grout		
4 in. Inside Diameter Blank Schedule 5 304 Stainless Steel Casing		
Top of Bentonite Seal	33	818.2
Bentonite Seal		
Top of Sand	37.5	813.7
Water Level*	44.9	807.2
Top of Screen	45	806.2
#2/12 Lonestar Sand Median Grain Size 0.047 in.		
4 in. Inside Diameter 0.020 in. Slotted Fully Wrapped Stainless Steel Casing		
Bottom of Screen	75	776.2
Bottom of Borehole	75	776.2

10 in.

NOT TO SCALE

NGVD - National Geodetic Vertical Datum
* - Water level measured 10/17/91 relative to surveyed notch at the top of casing

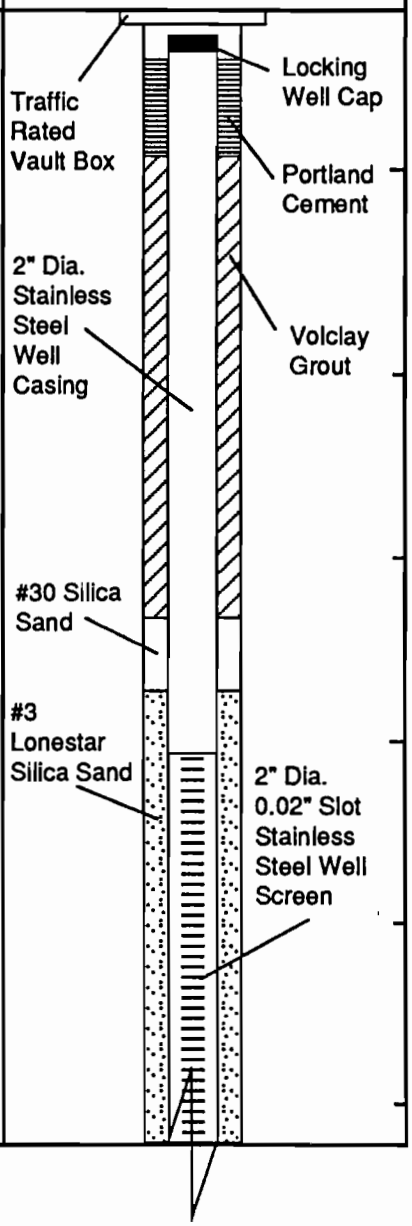
ENSR CONSULTING & ENGINEERING

SB/MW#: MW-21S
#D- 17026
Page 1 of 2
Sampler: B. MINDHEIM

SOIL DRILLING LOG

PROJECT HUGHES MISSILE SYSTEMS GROUP LOCATION 8433 FALLBROOK AVE., CANOGA PARK, CA.
ELEVATION - MONITORING DEVICE TIP, LEL
SAMPLING DATE(S) 7/10/90 START 9:30 AM FINISH 2:30 PM
SAMPLING METHOD CA. MOD. SPLIT SPOON SUBCONTRACTOR & EQUIPMENT GREGG DRILLING/B-61
MEMO IN HIDDEN LAKE COMMUNITY, NEAR INTERSECTION OF SAMRA DRIVE AND DUCOR AVENUE.

Depth Below Surface(ft.)	Penetration Results: Blows 6"-6"	Penetration Results: BPF	Sampler Depth Interval (ft.)	Sample ID #	TIP Reading (ppm)	Soil Description Color, Texture, Moisture,Etc.	Unified Classification	Graphic Log	Sampled Depth	Borehole Abandonment/ Well Construction Details
0						0-0.25' Asphalt.	AC			
						0.25-12' Fill: sandy clay; black (10YR 2/1) to brown (10YR 4/3); moderately to highly plastic fines; 5-25% sand; minor gravel; moist.	AF			
5						@ 5' Clayey sand, 30-40% highly plastic fines; medium to coarse sand.				
10						@ 10' Sandy clay.				
	10-14	24	12.5-14		1.0					
15						12'-38' Sandy clay: brown (10YR 3/3) mottled gray (10YR 7/1) moderately to highly plastic fines; 20-30% fine sand; slightly moist.	CL			
20						@ 19' Groundwater encountered.				
	14-24	38	22.5-24		0.5	@ 20' Yellow brown (10YR 5/6); medium sand.				
25						@ 25' Dark greenish gray (5G 4/1).				
30						@ 30' 5% Gravel; 30-40% sand.				



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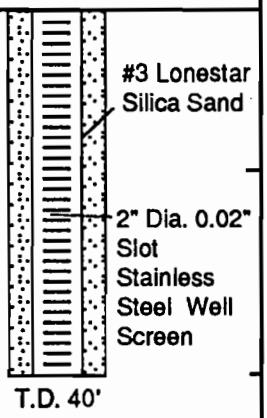
SB/MW#: MW-21S
#D- 17027
Page 2 of 2
Sampler: B. MINDHEIM

SOIL DRILLING LOG

PROJECT HUGHES MISSILE SYSTEMS GROUP LOCATION 8433 FALLBROOK AVE., CANOGA PARK, CA.
ELEVATION - MONITORING DEVICE TIP, LEL
SAMPLING DATE(S) 7/10/90 START 9:30 AM FINISH 2:30 PM
SAMPLING METHOD CA. MOD. SPLIT. SPOON. SUBCONTRACTOR & EQUIPMENT GREGG DRILLING/B-61
MEMO IN HIDDEN LAKE COMMUNITY, SWIMMING POOL.

Depth Below Surface(ft.)	Penetration Results: Blows 6"-6"	Penetration Results: BPF	Sampler Depth Interval (ft.)	Sample ID #	TIP Reading (ppm)	Soil Description Color, Texture, Moisture,Etc.	Unified Classification	Graphic Log	Sampled Depth	Borehole Abandonment/ Well Construction Details
	35-45	>50	32.5-34.0		1.0	12' - 38' Sandy clay.	CL			
35										
40	12-35	47	42.5-44.0		2.0	38'-40' Silty sand: greenish gray (5G 5/1); 25-35% non-plastic fines; coarse, moderately to well rounded sand; saturated; H_2S odor.	SM			

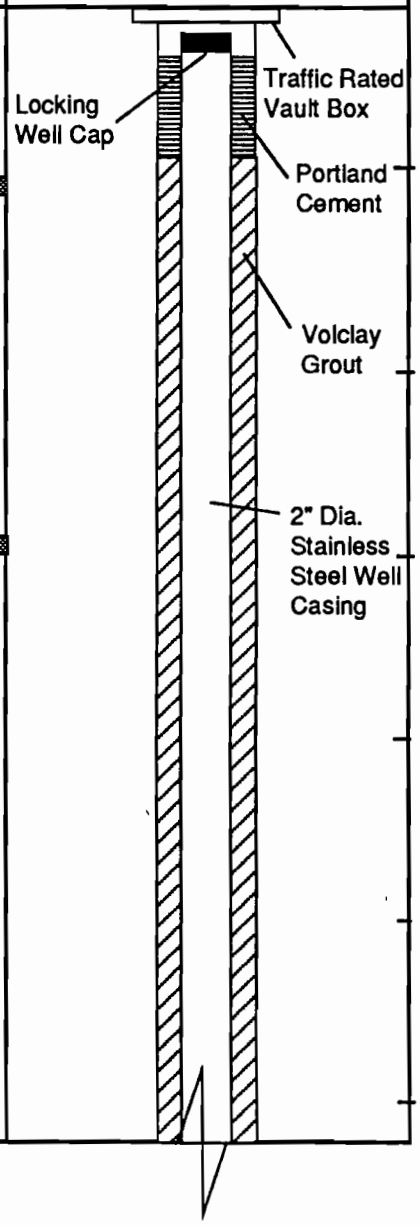


SB/MW#: MW-21D
#D- 17020
Page 1 of 4
Sampler: B. MINDHEIM

SOIL DRILLING LOG

PROJECT HUGHES MISSILE SYSTEMS GROUP LOCATION 8433 FALLBROOK AVE., CANOGA PARK, CA.
ELEVATION - MONITORING DEVICE TIP, LEL
SAMPLING DATE(S) 6/27/90 START 9:30 AM FINISH 2:30 PM
SAMPLING METHOD CA. MOD. SPLIT SPOON SUBCONTRACTOR & EQUIPMENT GREGG DRILLING/B-61
MEMO IN HIDDEN LAKE COMMUNITY, NEAR SWIMMING POOL.

Depth Below Surface(ft.)	Penetration Results: Blows 6"-6"	Penetration Results: BPF	Sampler Depth Interval (ft.)	Sample ID #	TIP Reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification
						0-0.25' Asphalt.	AC
						0.25-12' Fill: sandy clay; black (10YR 2/1) to brown (10YR 4/3); moderately to highly plastic fines; 5-25% sand; minor gravel; moist.	
5	8-8	16	4.0-5.0	61311	3	@ 5' Clayey sand; 30-40% highly plastic fines; medium to coarse sand.	AF
10	6-10	16	9.0-10.0		2	@ 10' Sandy clay.	
						12'-38' Sandy clay: brown (10YR 3/3) mottled grey (10YR 7/1); moderately to highly plastic fines; 20-30% fine sand; slightly moist.	
15	10-15	25	14.0-15.0	61312	4		CL
20	6-19	25	19.0-20.0		3	@ 19' Groundwater encountered.	
						@ 20' Yellow brown (10YR 5/6); medium sand.	
25	6-12	18	24.0-25.0		2	@ 25' Dark greenish gray (5G 4/1).	
30	7-10	17	29.0-30.0		3	@ 30' 5% Gravel, 30-40% sand	



SB/MW#: MW-21D
#D- 17021
Page 2 of 4
Sampler: B. MINDHEIM

SOIL DRILLING LOG

PROJECT HUGHES MISSILE SYSTEMS GROUP LOCATION 8433 FALLBROOK AVE., CANOGA PARK, CA.
ELEVATION - MONITORING DEVICE TIP, LEL
SAMPLING DATE(S) 6/27/90 START 9:30 AM FINISH 2:30 PM
SAMPLING METHOD CA. MOD. SPLIT SPOON SUBCONTRACTOR & EQUIPMENT GREGG DRILLING/B-61
MEMO IN HIDDEN LAKE COMMUNITY, NEAR SWIMMING POOL.

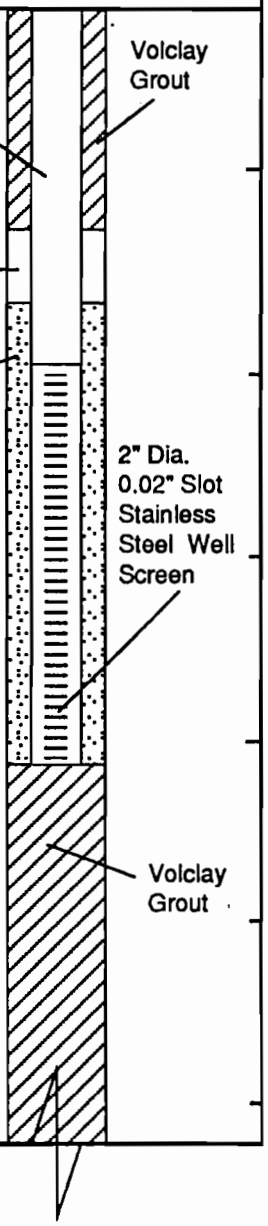
Depth Below Surface(ft.)	Penetration Results: Blows 6"-6"	Penetration Results: BPF	Sampler Depth Interval (ft.)	Sample ID #	TIP Reading (ppm)	Soil Description Color, Texture, Moisture,Etc.	Unified Classification	Graphic Log	Sampled Depth	Borehole Abandonment/ Well Construction Details
35	7-10	17	34.0-35.0		4	12'-38' Sandy clay.	CL			
40	9-12	21	39.0-40.0		1.2	38'-43' Silty sand: greenish gray (5G 5/1) 25-35% non-plastic fines; coarse, moderately to well rounded sand; saturated; H_2S odor.	SM			Volclay Grout
45	13-28	41	44.0-45.0		4	43'-53' Sandy clay: dark greenish gray (5GY 4/1); moderately to highly plastic fines; 25-35% fine to medium sand; slightly moist.	CL			2" Dia. Stainless Steel Well Casing
50	6-8	14	49.0-50.0		1.5					
55	10-12	22	54.0-55.0		2	53'-100' Siltstone: character varies from indurated bedrock to poorly indurated, friable material; gray (5G 5/1); Low to moderately plastic fines; <10% sand; samples moist to slightly moist; H_2S odor.	St			
60	12-24	36	59.0-60.0		3					

SB/MW#: MW-21D
#D- 17022
Page 3 of 4
Sampler: B. MINDHEIM

SOIL DRILLING LOG

PROJECT HUGHES MISSILE SYSTEMS GROUP LOCATION 8433 FALLBROOK AVE., CANOGA PARK, CA.
ELEVATION - MONITORING DEVICE TIP, LEL
SAMPLING DATE(S) 6/27/90 START 9:30 AM FINISH 2:30 PM
SAMPLING METHOD CA. MOD. SPLIT SPOON SUBCONTRACTOR & EQUIPMENT GREGG DRILLING/B-61
MEMO IN HIDDEN LAKE COMMUNITY, NEAR SWIMMING POOL.

Depth Below Surface(ft.)	Penetration Results: Blows 6"-6"	Penetration Results: BPF	Sampler Depth Interval (ft.)	Sample ID #	TIP Reading (ppm)	Soil Description Color, Texture, Moisture,Etc.	Unified Classification	Graphic Log	Sampled Depth	Borehole Abandonment/ Well Construction Details
						53'-100' Siltstone.				
						@ 60' Light greenish gray (5G 7/1); laminated.				
65	6-8	14	64.0-65.0		4	@ 65' Clayey silt: gray (5Y 4/2) to brown (10YR 5/3); moist; laminated.				
70	>50	>50	69.0-70.0		2	@ 69' Hard drilling. @ 70' Dark olive to black.	St			
75	No count; slough in borehole		74.0-75.0			@ 75' Wet surfaces along bedding planes.				
80	No count; slough in borehole		79.0-80.0		3					
85	12-12	24	84.0-85.0		2					
90	15-25	40	89.0-90.0		4	@ 90' Clayey; semi-indurated.				



SB/MW#: MW-21D
#D- 17023
Page 4 of 4
Sampler: B. MINDHEIM

SOIL DRILLING LOG

PROJECT HUGHES MISSILE SYSTEMS GROUP LOCATION 8433 FALLBROOK AVE., CANOGA PARK, CA.
ELEVATION - MONITORING DEVICE TIP, LEL
SAMPLING DATE(S) 6/27/90 START 9:30 AM FINISH 2:30 PM
SAMPLING METHOD CA. MOD. SPLIT SPOON SUBCONTRACTOR & EQUIPMENT GREGG DRILLING/B-61
MEMO IN HIDDEN LAKE COMMUNITY, NEAR SWIMMING POOL.

Depth Below Surface(ft.)	Penetration Results: Blows 6"-6"	Penetration Results: BPF	Sampler Depth Interval (ft.)	Sample ID #	TIP Reading (ppm)	Soil Description Color, Texture, Moisture,Etc.	Unified Classification	Graphic Log	Sampled Depth	Borehole Abandonment/ Well Construction Details
						53'-100' Siltstone.				Volclay Grout
95	15-25	40	94.0-95.0		3	@ 95' Clayey silt.	St			
100	14-30	44	99.0-100.0		3	@ 100' Clayey silt.				T.D. 100'

Drilling Log

GROUNDWATER TECHNOLOGY

Monitoring Well **MW-28**

Project HUGHES/8433 Fallbrook Owner HMSC

Location Canoga Park Proj. No. 042501035

Surface Elev. -- ft. Total Hole Depth 73 ft. Diameter 10 in.

Top of Casing -- ft. Water Level Initial 50 ft. Static -- ft.

Screen: Dia 4 in. Length 30 ft. Type/Size .020 in.

Casing: Dia 4 in. Length 43 ft. Type PVC

Fill Material 2/12 Sand Rig/Core CME 75

Drill Co. S&G Testing Method Hollow Stem Auger

Driller Tony Simones Log By S. A. Catlin Date 8/25/93 Permit # Exempt

Checked By Peter J. Raftery License No. 4018

See Site Map For Boring Location

COMMENTS:

0754

Depth (ft.)	Well Completion	PID (ppm)	Sample ID / Blow Count / % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
-2						
0					ASD	ASPHALT at surface.
2						
4						
6		110	MW-28-5' 3 4 5			5', CLAY AND SILT (CL): 40% silt, 60% clay of low plasticity, medium stiff, moderate olive brown (5Y 4/4), moist, no hydrocarbon odor.
8						
10		50	MW-28-10' 5 6 6			10', CLAY WITH SILT (CL): 30% silt, 70% clay of low plasticity, stiff, yellowish brown (10Y 4/2), moist, no hydrocarbon odor, contains veins of probable gypsum.
12					CL	
14						
16		9	MW-28-15' 4 5 8			15', CLAY WITH SILT (CL): 30% silt, 70% clay of low plasticity, stiff, dark yellowish brown (10YR 4/2), moist, no hydrocarbon odor, contains veins of probable gypsum.
18						
20		1	MW-28-20' 4 4 7			20', CLAY WITH SILT (CL): 25% silt, 75% clay of low to moderate plasticity, medium stiff to stiff, dark yellowish brown (10YR 4/2), moist, no hydrocarbon odor.
22						
24						

Drilling Log

GROUNDWATER TECHNOLOGY

Monitoring Well **MW-28**

Project *HUGHES/8433 Fallbrook* Owner *HMSC*

Location *Canoga Park* Proj. No. *042501035*

Depth (ft.)	Well Completion	PID (ppm)	Sample ID / Blow Count / % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
24						
26		0	MW-28-25' 3 6 7			25', CLAY WITH SILT (CL): 20% silt, 80% clay of moderate plasticity, stiff, dark yellowish brown (10YR 4/2), moist, no hydrocarbon odor, contains veins of probable gypsum.
28						
30		0	MW-28-30' 3 3 7			30', CLAY WITH SILT (CL): 20% silt, 80% clay of moderate plasticity, medium stiff, dark yellowish brown (10YR 4/2), moist, no hydrocarbon odor.
32						
34					CL	
36		1	MW-28-35' 3 8 33			35', CLAY AND SILT (CL): 40% silt, 60% clay of moderate plasticity, stiff, light olive gray (5Y 5/2), moist, no hydrocarbon odor.
38						
40		0	MW-28-40' 4 6 10			40', CLAY WITH SILT (CL): 25% silt, 75% clay of moderate plasticity, stiff, dark yellowish brown (10YR 4/2), moist, no hydrocarbon odor.
42						
44						
46		0	MW-28-45' 2 4 6			45', SILT WITH CLAY (ML): 70% silt, 30% clay of moderate plasticity, stiff, light olive gray (5Y 5/2), moist, no hydrocarbon odor.
48						
50		0	MW-28-50' 7 10 16		ML	50', SILT (ML): 90% silt, 10% clay of moderate plasticity, very stiff, yellowish gray (5Y 7/2), wet to saturated, no hydrocarbon odor.
52						
54						
56		0	MW-28-55' 6 9 13			55', SILT (ML): 90% silt, 10% clay of moderate plasticity, stiff to very stiff, yellowish gray (5Y 7/2), saturated, no hydrocarbon odor.

Drilling Log

GROUNDWATER TECHNOLOGY

Monitoring Well **MW-28**

Project HUGHES/8433 Fallbrook Owner HMSC

Location Canoga Park Proj. No. 042501035

Depth (ft.)	Well Completion	PID (ppm)	Sample ID / Blow Count / % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
56						
58						
60						60', No sample collected.
62						
64					ML	
66						65', No sample collected.
68						
70						70', No sample collected.
72						
74		0	MW-28-70' 9 17 22			73', SILT AND CLAY (ML): 65% silt, 35% clay, nonplastic, very stiff, dusky yellowish brown (10YR 2/2), wet to saturated, no hydrocarbon odor. Note: sample is almost a siltstone/shale.
76						
78						All percentages are approximate.
80						
82						
84						
86						
88						

Drilling Log

GROUNDWATER TECHNOLOGY

Monitoring Well MW-29

Project HUGHES/8433 Fallbrook Owner HMSC

Location Canoga Park Proj. No. 042501035

Surface Elev. -- ft. Total Hole Depth 65 ft. Diameter 10 in.

Top of Casing -- ft. Water Level Initial 48 (?) ft. Static -- ft.

Screen: Dia 4 in. Length 30 ft. Type/Size .020 in.

Casing: Dia 4 in. Length 35 ft. Type PVC

Fill Material 2/12 Sand Rig/Core CME 75

Drill Co. S&G Testing Method Hollow Stem Auger

Driller Tony Simones Log By S. A. Catlin Date 8/27/93 Permit # Exempt

Checked By Peter J. Raftery License No. 4018

See Site Map For Boring Location

COMMENTS:

D755

Depth (ft.)	Well Completion	PID (ppm)	Sample ID / Blow Count / % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
-2						
0					Asp	ASPHALT at surface.
2						
4						
6		0	MW-29-5' 3 6 9			5', SILT (ML): 90% silt, 10% clay of low plasticity, stiff, yellowish gray (5Y 7/4), damp to moist, no hydrocarbon odor.
8					ML	
10		0	MW-29-10' 3 5 8			10', SILT WITH CLAY (ML): 85% silt, 15% clay of moderate plasticity, medium stiff to stiff, yellowish gray (5Y 7/2), damp, no hydrocarbon odor.
12						
14						
16		0	MW-29-15' 3 6 7			15', SILT WITH CLAY (ML): 1% sand, 70% silt, 29% clay of moderate plasticity, stiff, light olive gray (5Y 5/2), moist, no hydrocarbon odor.
18						
20		0	MW-29-20' 2 2 3 (20% recov)		CH	20', CLAY WITH SILT (CH): 1% sand, 44% silt, 55% clay of high plasticity, soft to medium stiff, dusky yellowish brown (10YR 2/2), moist, no hydrocarbon odor.
22						
24					ML	

Drilling Log

GROUNDWATER TECHNOLOGY

Monitoring Well **MW-29**

Project HUGHES/8433 Fallbrook Owner HMSC

Location Canoga Park Proj. No. 042501035

Depth (ft.)	Well Completion	PID (ppm)	Sample ID / Blow Count / % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
24						
26		0	MW-29-25' 4 8 15			25', SILT (ML): 90% silt, 10% clay, nonplastic, stiff, yellowish gray (5Y 7/2), damp, no hydrocarbon odor.
28						
30		0	MW-29-30' 4 9 12			30', SILT WITH CLAY (ML): 85% silt, 15% clay of low plasticity, stiff, yellowish gray (5Y 7/2), moist, no hydrocarbon odor.
32						
34						
36		0	MW-29-35' 5 10 15			35', SILT WITH CLAY (ML): 85% silt, 15% clay of low plasticity, medium stiff to stiff, yellowish gray (5Y 7/2), damp to moist, no hydrocarbon odor.
38						
40		0	MW-29-40' 4 4 11		ML	40', SILT AND CLAY (ML): 60% silt, 40% clay of low plasticity, medium stiff to stiff, light olive gray (5Y 5/2), moist, no hydrocarbon odor.
42						
44						
46		0	MW-29-45' 3 5 9			45', SILT (ML): 90% silt, 10% clay of low plasticity, medium stiff to stiff, yellowish gray (5Y 7/2), moist to wet, no hydrocarbon odor.
48						
50		0	MW-29-50' 4 8 12			50', SILT WITH CLAY (ML): 80% silt, 20% clay of low to moderate plasticity, stiff, dusky yellow (5Y 6/4), wet, no hydrocarbon odor.
52						
54						
56						55', No sample collected.

Drilling Log

GROUNDWATER TECHNOLOGY

Monitoring Well **MW-29**

Project *HUGHES/8433 Fallbrook* Owner *HMSC*

Location *Canoga Park* Proj. No. *042501035*

Depth (ft.)	Well Completion	PID (ppm)	Sample ID / Blow Count / % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
56						
58						
60					ML	60', No sample collected.
62						
64						
		0	MW-29-65' 6 17 34			65', SILT AND CLAY (ML): 60% silt, 40% clay of moderate plasticity, very stiff, dusky yellowish brown (10YR 2/2), wet, no hydrocarbon odor.
66						
68						All percentages are approximate.
70						
72						
74						
76						
78						
80						
82						
84						
86						
88						

Drilling Log

GROUNDWATER TECHNOLOGY

Monitoring Well **MW-30**

Project HUGHES/8433 Fallbrook Owner HMSC

Location Canoga Park Proj. No. 042501035

Surface Elev. -- ft. Total Hole Depth 58 ft. Diameter 10 in.

Top of Casing -- ft. Water Level Initial 40 (?) ft. Static -- ft.

Screen: Dia 4 in. Length 30 ft. Type/Size .020 in.

Casing: Dia 4 in. Length 28 ft. Type PVC

Fill Material 2/12 Sand Rig/Core CME 75

Drill Co. S&G Testing Method Hollow Stem Auger

Driller Tony Simones Log By S. A. Catlin Date 8/26/93 Permit # Exempt

Checked By Peter J. Raftery License No. 4018

See Site Map For Boring Location

COMMENTS:

D756

Depth (ft.)	Well Completion	PID (ppm)	Sample ID	Blow Count / % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
-2							
0						ASP	ASPHALT at surface.
2							
4							
6		0	MW-30-5'	3 3 4		ML	5', SILT WITH CLAY (ML): 75% silt, 25% clay of low to moderate plasticity, medium stiff, yellowish gray (5Y 7/2), damp to moist, no hydrocarbon odor.
8							
10		0	MW-30-10'	3 4 5			10', SILT WITH CLAY (ML): 70% silt, 30% clay of low plasticity, medium light olive gray (5Y 5/2), moist, no hydrocarbon odor.
12							
14							
16		0	MW-30-15'	1 1 3		CL	15', CLAY WITH SILT (CL): 2% sand, 28% silt, 70% clay of low plasticity, very soft to soft, dark yellowish brown to dusky yellowish brown (10YR 4/2) to 10YR 2/2), moist, no hydrocarbon odor.
18							
20		0	MW-30-20'	2 3 6		ML	20', SILT (ML): 90% silt, 10% clay of low plasticity, medium stiff very pale orange (10YR 8/2), moist, no hydrocarbon odor.
22							
24							

Drilling Log

GROUNDWATER TECHNOLOGY

Monitoring Well **MW-30**

Project HUGHES/8433 Fallbrook Owner HMSC

Location Canoga Park Proj. No. 042501035

Depth (ft.)	Well Completion	PID (ppm)	Sample ID / Blow Count / % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
24						
26		0	MW-30-25' 26 20 8 (50% recov)			25', SILT (CL): 90% silt, 10% clay, nonplastic, stiff, yellowish gray (5Y 7/2), damp, no hydrocarbon odor.
28						
30		0	MW-30-30' 4 9 18			30', SILT WITH CLAY (ML): 85% silt, 15% clay of low to moderate plasticity, stiff, yellowish gray (5Y 7/2), moist, no hydrocarbon odor.
32					ML	
34						
36		0	MW-30-35' 4 9 14			35', SILT WITH CLAY (ML): 80% silt, 20% clay of low to moderate plasticity, stiff, yellowish gray (5Y 7/2), moist to wet, no hydrocarbon odor.
38						
40		0	MW-30-40' 3 5 6			40', SILT AND CLAY (ML): 60% silt, 40% clay of low to moderate plasticity, medium stiff to stiff, moderate olive brown (5Y 4/4), wet, no hydrocarbon odor.
42						
44						
46		0	MW-30-45' 3 4 4			45', CLAY AND SILT (CL): 40% silt, 60% clay of moderate plasticity, medium stiff, light olive brown (5Y 5/6), wet to saturated, no hydrocarbon odor.
48					CL	
50						50', No sample collected.
52						
54						
56					ML	55', No sample collected.

Drilling Log

GROUNDWATER TECHNOLOGY

Monitoring Well **MW-30**

Project *HUGHES/8433 Fallbrook* Owner *HMSC*

Location *Canoga Park* Proj. No. *042501035*

Depth (ft.)	Well Completion	PID (ppm)	Sample ID / Blow Count / % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
56						
58		55	MW-30-58' 3 11 23		ML	58', SILT WITH CLAY (ML): 2% sand, fine grained, 70% silt, 28% clay, nonplastic, stiff, olive gray (5Y 3/2), moist, no hydrocarbon odor, but slight H2S odor.
60						
62						
64						
66						All percentages are approximate.
68						
70						
72						
74						
76						
78						
80						
82						
84						
86						
88						

Drilling Log

FLUOR DANIEL GTI

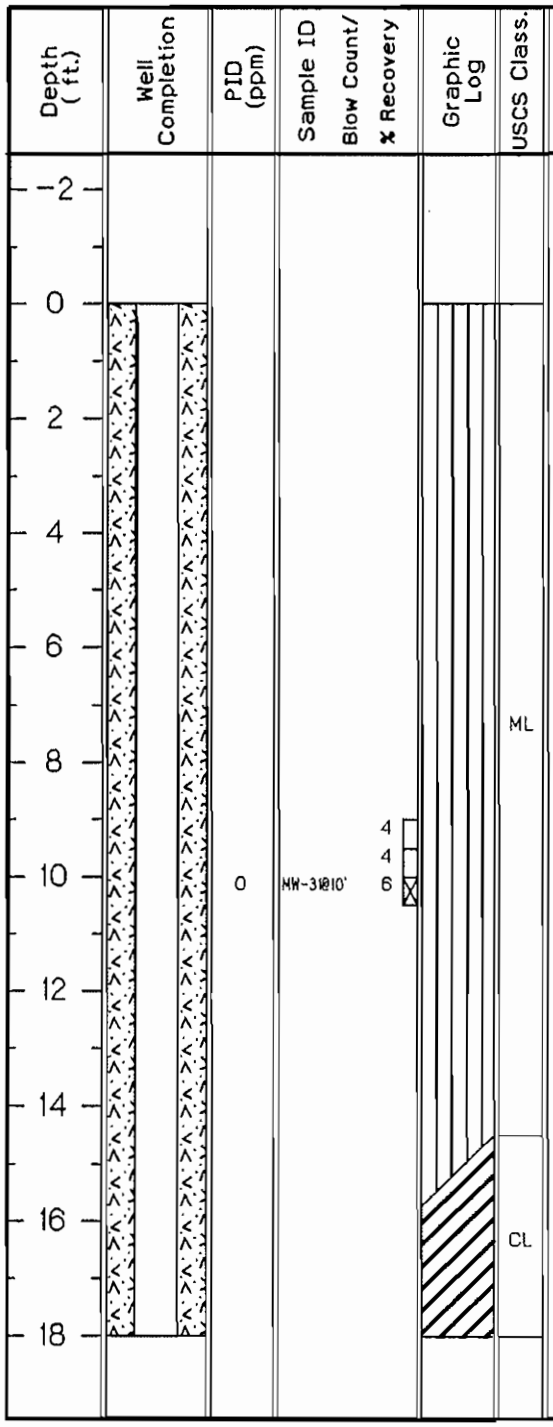
Monitoring Well **MW-31**

Project *Former Hughes Site* Owner *Raytheon Corporation*
Location *Canoga Park, CA* Proj. No. *101548*
Surface Elev. _____ Total Hole Depth *70 ft.* Diameter *8 in.*
Top of Casing _____ Water Level Initial *51 ft.* Static *48.3 ft.*
Screen: Dia *2 in.* Length *25 ft.* Type/Size *0.020" in.*
Casing: Dia *2 in.* Length *45 ft.* Type *Schedule 40 PVC*
Fill Material *#3 Monterey sand* Rig/Core *Marl M-12/Calif. Split Spoon*
Drill Co. *Gregg Drilling* Method *hollow stem auger*
Driller *Dino Selders* Log By *Bob Davis* Date *5/20/98* Permit # _____
Checked By *Peter Raftery* License No. *RG 4018*

See Site Map For Boring Location

COMMENTS:

D2469



Description

(Color, Texture, Structure)
Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%

All percentages are approximate.

9-10.5', SILT (ML)
80% silt; 15% nonplastic clay; 5% fine-grained sand; stiff; dark yellowish brown (10YR4/2); dry; no odor

Drilling Log

FLUOR DANIEL GTI

Monitoring Well **MW-31**

Project *Former Hughes Site* Owner *Raytheon Corporation*

Location *Canoga Park, CA* Proj. No. *101548*

Depth (ft.)	Well Completion	PID (ppm)	Sample ID	Blow Count/ % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
18							
20		0	MW-31@20'	4 4 12			**19–20.5', LEAN CLAY (CL)** 60% nonplastic clay; 40% silt; stiff; pale yellowish brown (10YR6/2); dry; no odor
22							
24							
26							
28							
30		0	MW-31@30'	6 7 10		CL	**29–30.5', LEAN CLAY (CL)** 80% nonplastic clay; 20% silt; stiff; pale yellowish brown (10YR6/2); dry; no odor
32							
34							
36							
38							
40		64.4	MW-31@40'	8 8 9			**39–40.5', LEAN CLAY (CL)** 80% slightly plastic clay; 20% silt; very stiff; pale yellowish brown (10YR6/2); dry; no odor
42							

Drilling Log

FLUOR DANIEL GTI

Monitoring Well **MW-31**

Project *Former Hughes Site* Owner *Raytheon Corporation*

Location *Canoga Park, CA* Proj. No. *101548*

Depth (ft.)	Well Completion	PID (ppm)	Sample ID	Blow Count/ % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
43							
45							
47							
49				6			
				7			
		0	MW-31@50'	9			**49–50.5', LEAN CLAY (CL)** 90% slightly plastic clay; 10% silt; stiff; grayish orange (10YR7/4); damp; no odor
51							
53						CL	
55							
57							
59				5			
				5			
		1.0	MW-31@60'	8			**59–60.5', LEAN CLAY (CL)** 90% clay; 10% silt; stiff; medium light gray (N6); saturated; moderate hydrogen sulfide odor
61							
63							
65						ML	
67							

Drilling Log

FLUOR DANIEL GTI

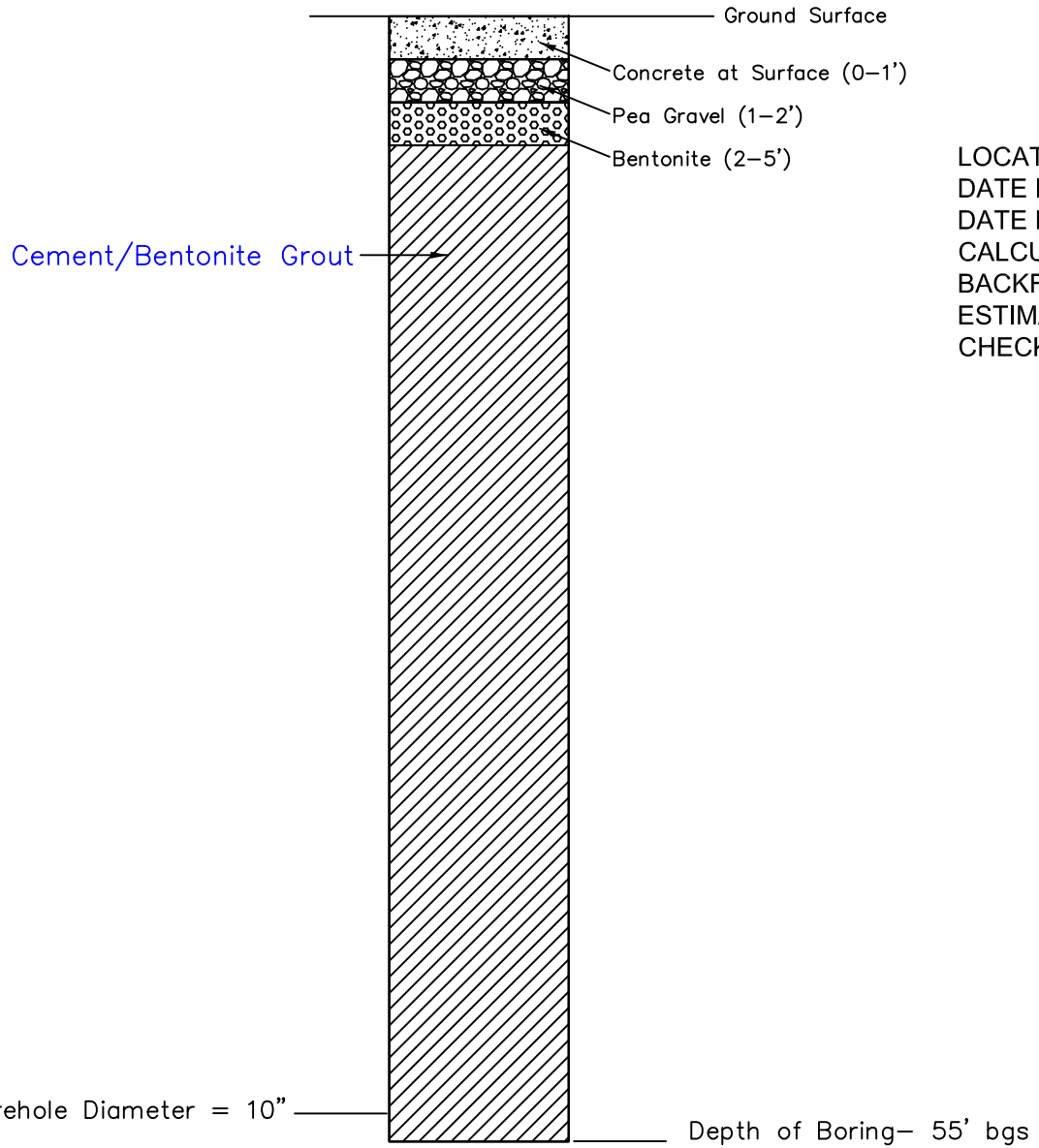
Monitoring Well **MW-31**

Project *Former Hughes Site* Owner *Raytheon Corporation*

Location *Canoga Park, CA* Proj. No. *101548*

Depth (ft.)	Well Completion	PID (ppm)	Sample ID	Blow Count/ % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
68							
				8		ML	
				12			**69–70.5', SILT (ML)**
70		30.5	MW-31@70'	18			60% silt; 40% clay; very stiff; olive gray (5Y4/1); saturated; moderate hydrogen sulfide odor
72							
74							
76							
78							
80							
82							
84							
86							
88							
90							
92							

Well Destruction Logs



LOCATION: Southeast parking lot near 22801 Fallbrook Building
DATE INSTALLED: 06/28/1985
DATE DESTROYED: 09/05/2018
CALCULATED GROUT VOLUME: 223.7 gals
BACKFILL MATERIAL: Cement/Bentonite Grout
ESTIMATED GROUT VOLUME USED: 220 gals
CHECKED BY: Kim Sawyer, PG #7153

NOT TO SCALE

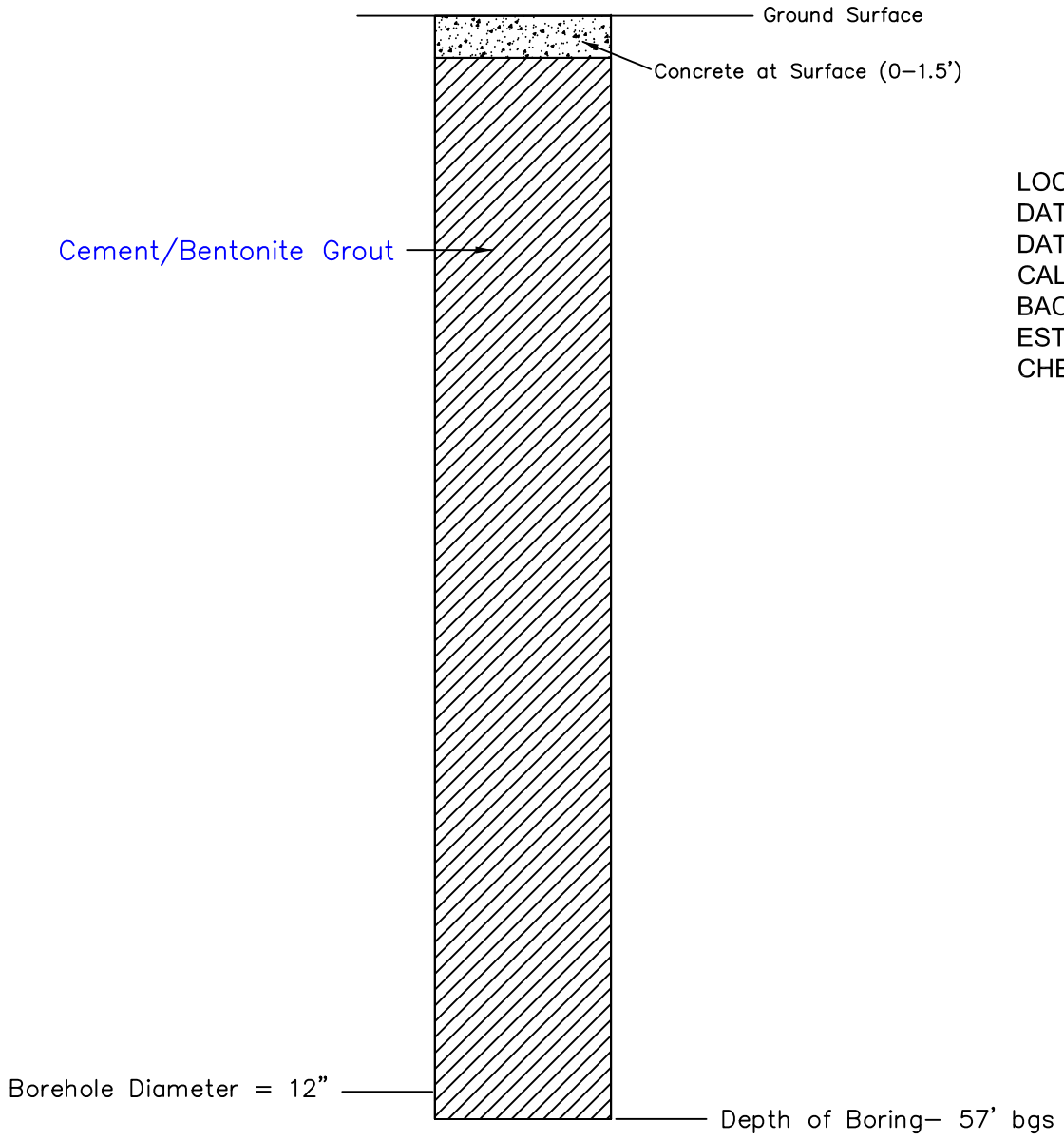
OTIE
An Oneida Nation Company

LEGEND:
gals = gallons
bgs = below ground surface

DATE:	FILE NAME:	SOURCE:
09/17/2018	2018 Well Demo.DWG	

WELL DESTRUCTION
CM–10

Former Canoga Park Facility
Canoga Park, California



LOCATION: Southwest parking lot west of 8403 Fallbrook Building
DATE INSTALLED: N/A
DATE DESTROYED: 09/10/2018
CALCULATED GROUT VOLUME: 335 gals
BACKFILL MATERIAL: Cement/Bentonite Grout
ESTIMATED GROUT VOLUME USED: 350 gals
CHECKED BY: Kim Sawyer, PG #7153

NOT TO SCALE

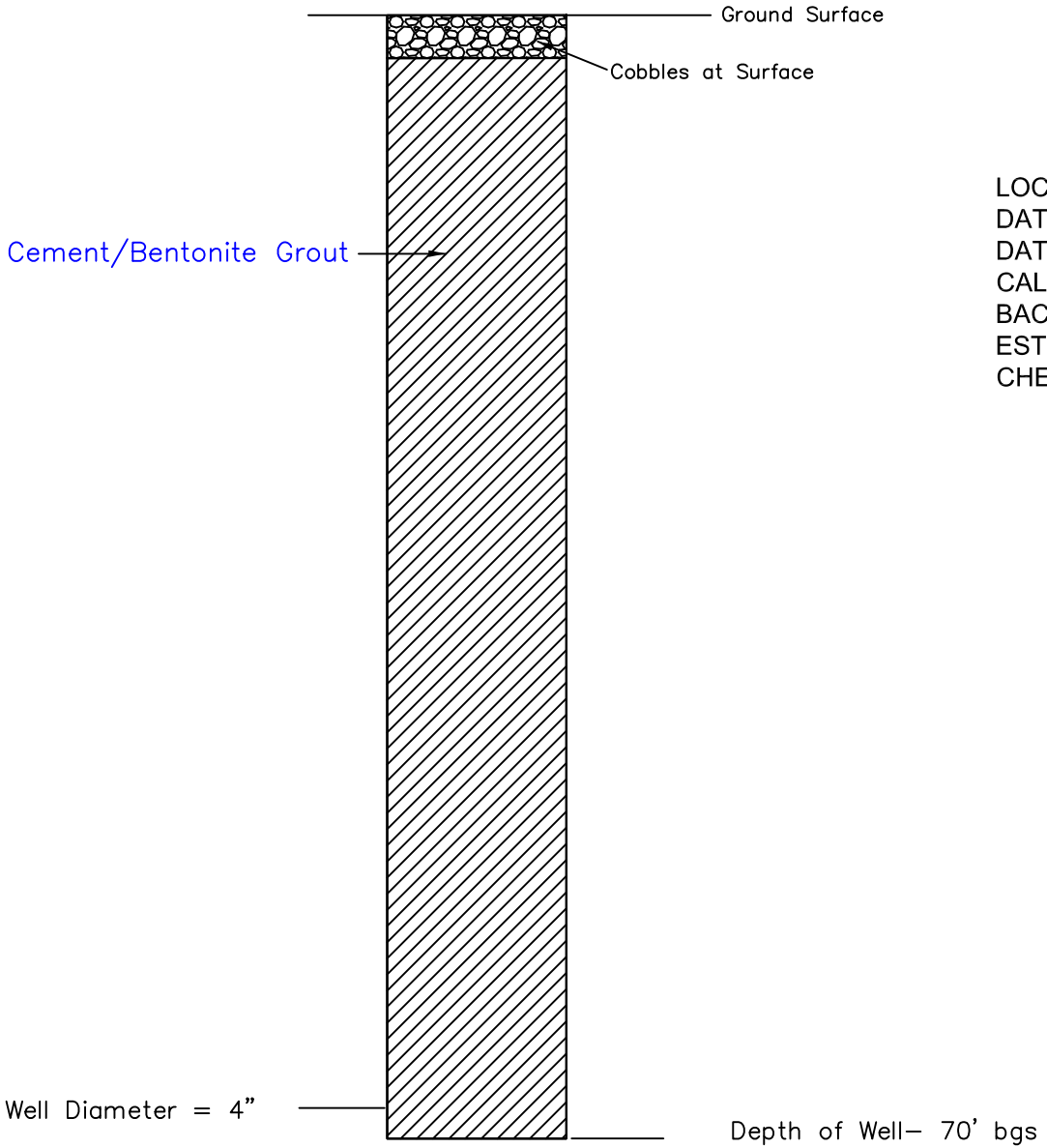
OTIE
An Oneida Nation Company

LEGEND:
gals = gallons
bgs = below ground surface

DATE:	FILE NAME:	SOURCE:
09/17/2018	2018 Well Demo.DWG	

WELL DESTRUCTION
CM–11A

Former Canoga Park Facility
Canoga Park, California



LOCATION: Southwest parking lot in planter near Fallbrook Ave.
DATE INSTALLED: 09/24/1991
DATE DESTROYED: 09/11/2018
CALCULATED GROUT VOLUME: 46 gals
BACKFILL MATERIAL: Cement/Bentonite Grout
ESTIMATED GROUT VOLUME USED: 50 gals
CHECKED BY: Kim Sawyer, PG #7153

NOT TO SCALE

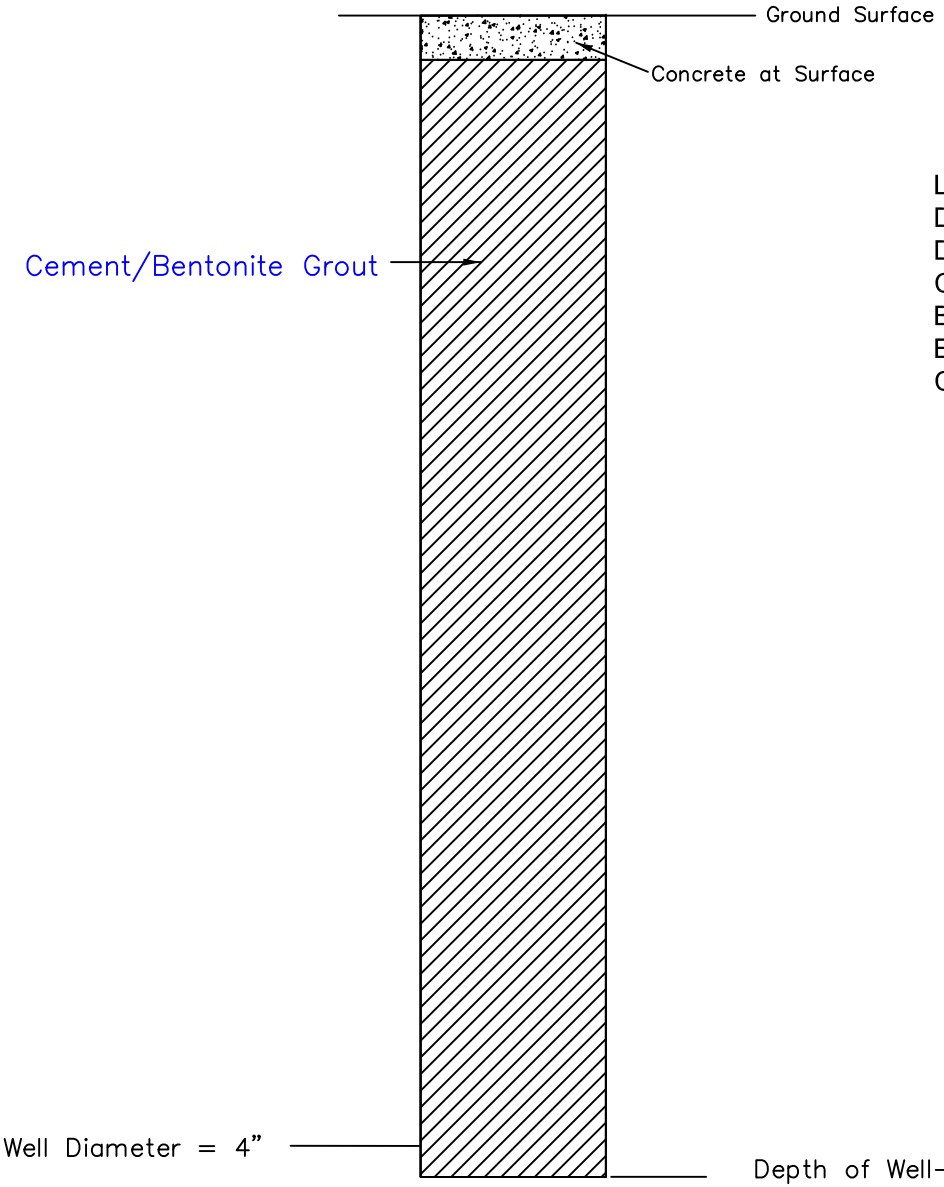
OTIE
An Oneida Nation Company

LEGEND:
gals = gallons
bgs = below ground surface

DATE:	FILE NAME:	SOURCE:
09/17/2018	2018 Well Demo.DWG	

WELL DESTRUCTION
CM–15

Former Canoga Park Facility
Canoga Park, California



LOCATION: Southwest parking lot near Fallbrook Ave. and Rosco Blvd.
DATE INSTALLED: 09/27/1991
DATE DESTROYED: 09/10/2018
CALCULATED GROUT VOLUME: 49 gals
BACKFILL MATERIAL: Cement/Bentonite Grout
ESTIMATED GROUT VOLUME USED: 100 gals
CHECKED BY: Kim Sawyer, PG #7153

NOT TO SCALE

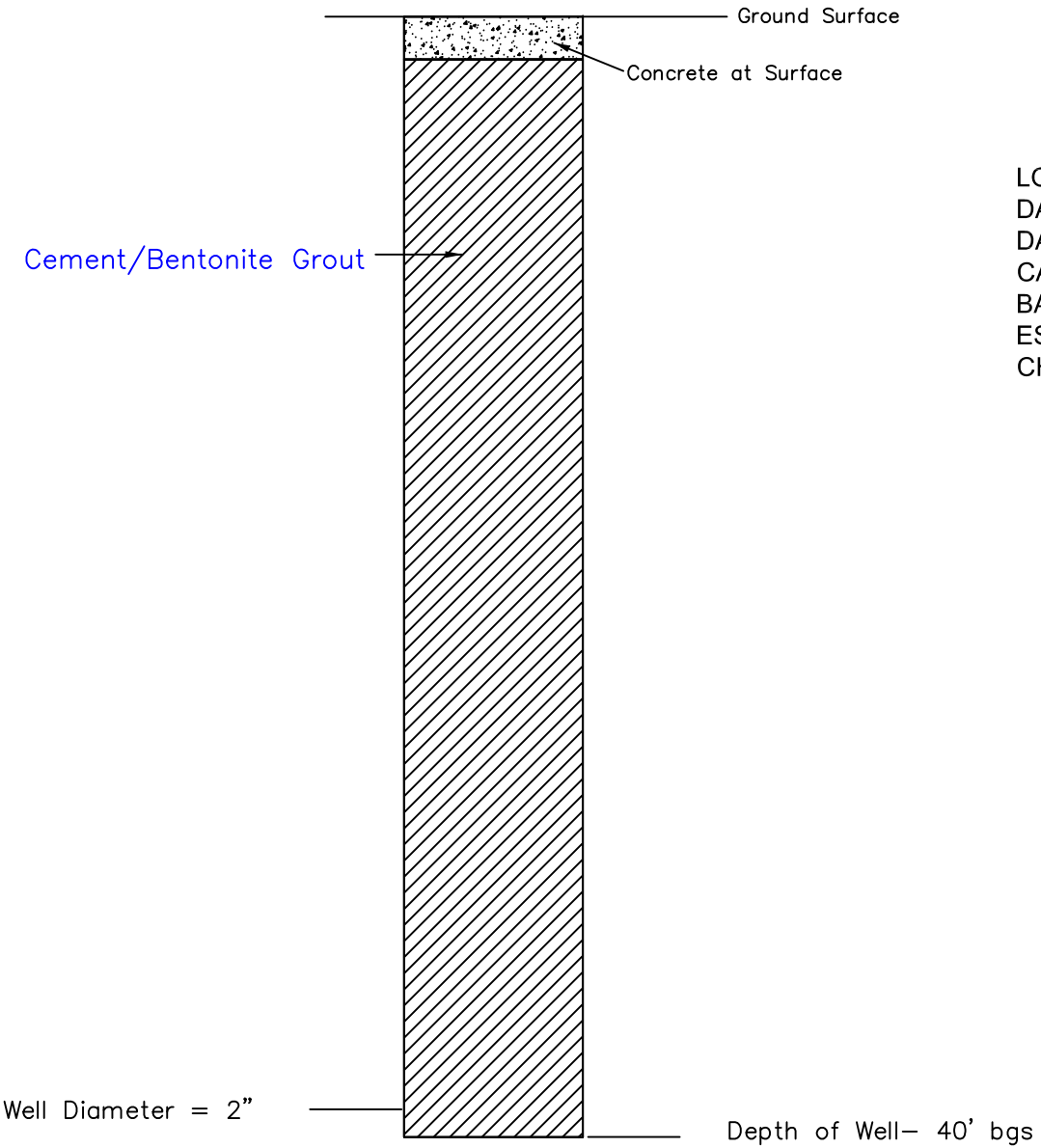
OTIE
An Oneida Nation Company

LEGEND:
gals = gallons
bgs = below ground surface

DATE:	FILE NAME:	SOURCE:
09/17/2018	2018 Well Demo.DWG	

WELL DESTRUCTION
CM–17

Former Canoga Park Facility
Canoga Park, California



LOCATION: Samra Drive
DATE INSTALLED: 07/10/1990
DATE DESTROYED: 09/11/2018
CALCULATED GROUT VOLUME: 7 gals
BACKFILL MATERIAL: Cement/Bentonite Grout
ESTIMATED GROUT VOLUME USED: 20 gals
CHECKED BY: Kim Sawyer, PG #7153

NOT TO SCALE

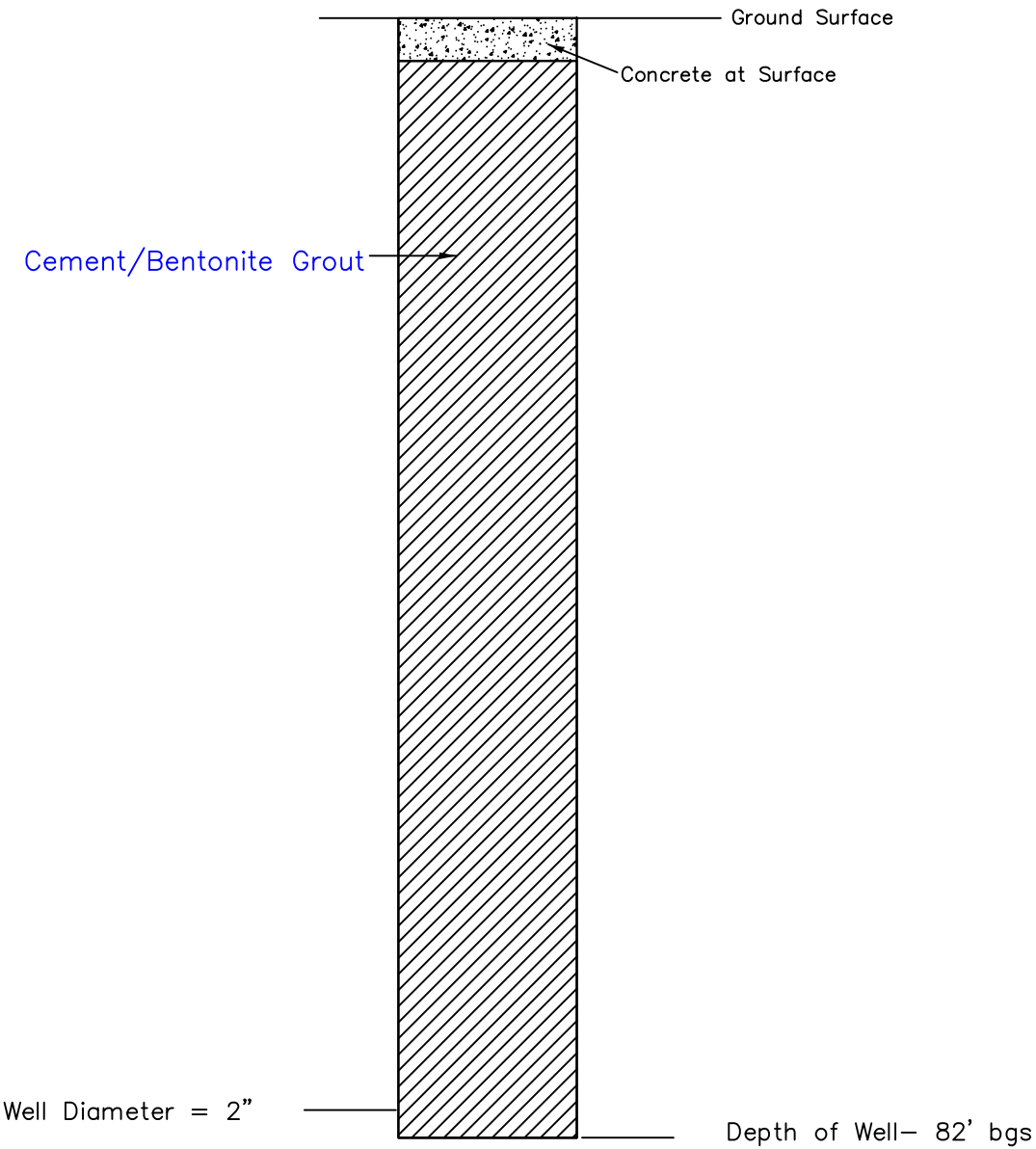
OTIE
An Oneida Nation Company

LEGEND:
gals = gallons
bgs = below ground surface

DATE:	FILE NAME:	SOURCE:
09/17/2018	2018 Well Demo.DWG	

WELL DESTRUCTION
MW–21S

Former Canoga Park Facility
Canoga Park, California



LOCATION: Samra Drive
DATE INSTALLED: 06/27/1990
DATE DESTROYED: 09/11/2018
CALCULATED GROUT VOLUME: 13 gals
BACKFILL MATERIAL: Cement/Bentonite Grout
ESTIMATED GROUT VOLUME USED: 25 gals
CHECKED BY: Kim Sawyer, PG #7153

NOT TO SCALE

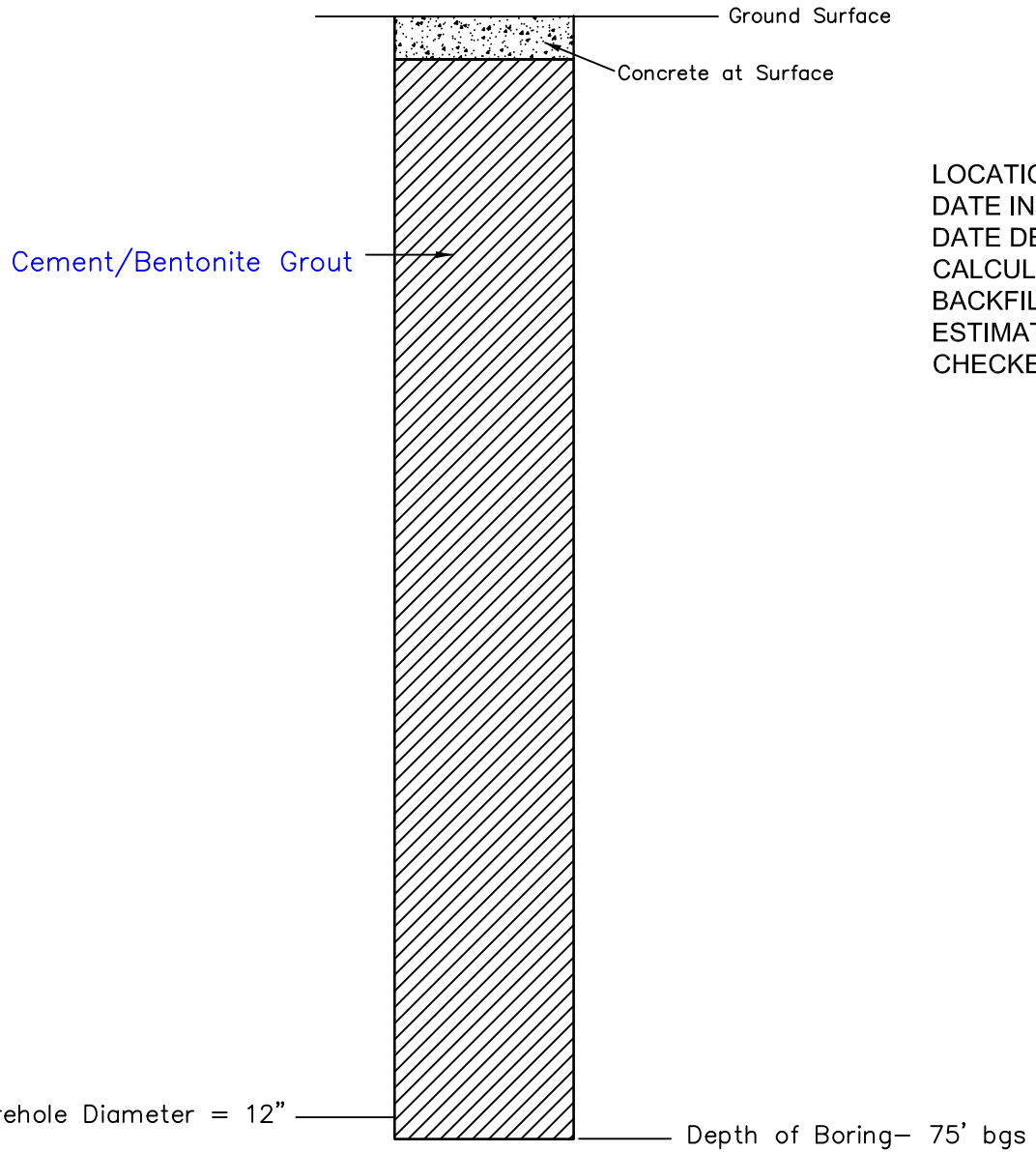
OTIE
An Oneida Nation Company

LEGEND:
gals = gallons
bgs = below ground surface

DATE:	FILE NAME:	SOURCE:
09/17/2018	2018 Well Demo.DWG	

WELL DESTRUCTION
MW–21D

Former Canoga Park Facility
Canoga Park, California



LOCATION: Parking lot southeast of 8433 Fallbrook Building
DATE INSTALLED: 08/25/1993
DATE DESTROYED: 09/07/2018
CALCULATED GROUT VOLUME: 441 gals
BACKFILL MATERIAL: Cement/Bentonite Grout
ESTIMATED GROUT VOLUME USED: 700 gals
CHECKED BY: Kim Sawyer, PG #7153

NOT TO SCALE

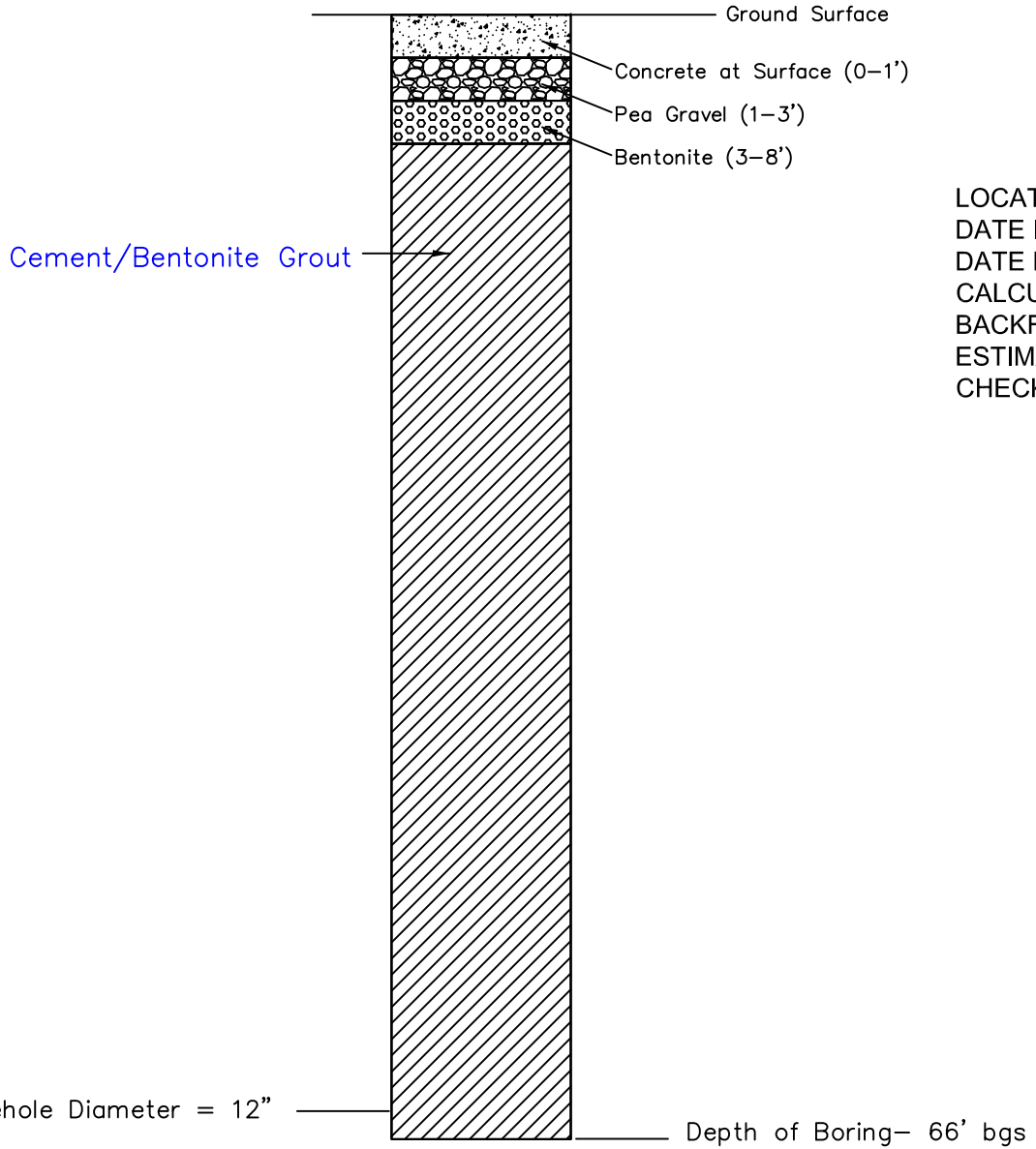
OTIE
An Oneida Nation Company

LEGEND:
gals = gallons
bgs = below ground surface

DATE:	FILE NAME:	SOURCE:
09/17/2018	2018 Well Demo.DWG	

WELL DESTRUCTION
MW–28

Former Canoga Park Facility
Canoga Park, California



LOCATION: Parking lot southeast of 8401 Fallbrook Building
DATE INSTALLED: 08/27/1993
DATE DESTROYED: 09/07/2018
CALCULATED GROUT VOLUME: 388 gals
BACKFILL MATERIAL: Cement/Bentonite Grout
ESTIMATED GROUT VOLUME USED: 400 gals
CHECKED BY: Kim Sawyer, PG #7153

NOT TO SCALE

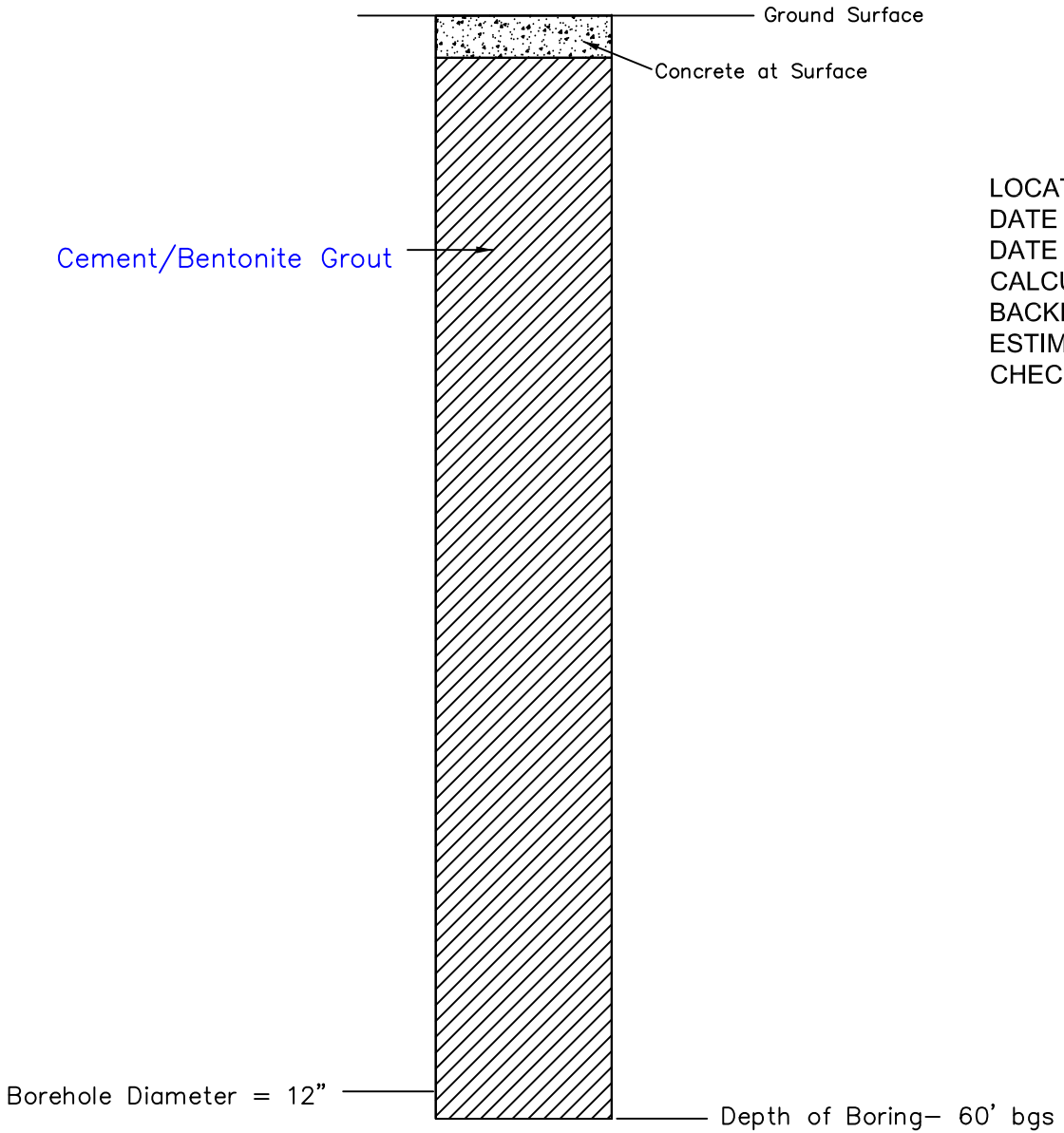
OTIE
An Oneida Nation Company

LEGEND:
gals = gallons
bgs = below ground surface

DATE:	FILE NAME:	SOURCE:
09/17/2018	2018 Well Demo.DWG	

WELL DESTRUCTION
MW–29

Former Canoga Park Facility
Canoga Park, California



LOCATION: Lower parking lot east of 8401 Fallbrook Building
DATE INSTALLED: 08/27/1993
DATE DESTROYED: 09/04/2018
CALCULATED GROUT VOLUME: 352 gals
BACKFILL MATERIAL: Cement/Bentonite Grout
ESTIMATED GROUT VOLUME USED: 455 gals
CHECKED BY: Kim Sawyer, PG #7153

NOT TO SCALE

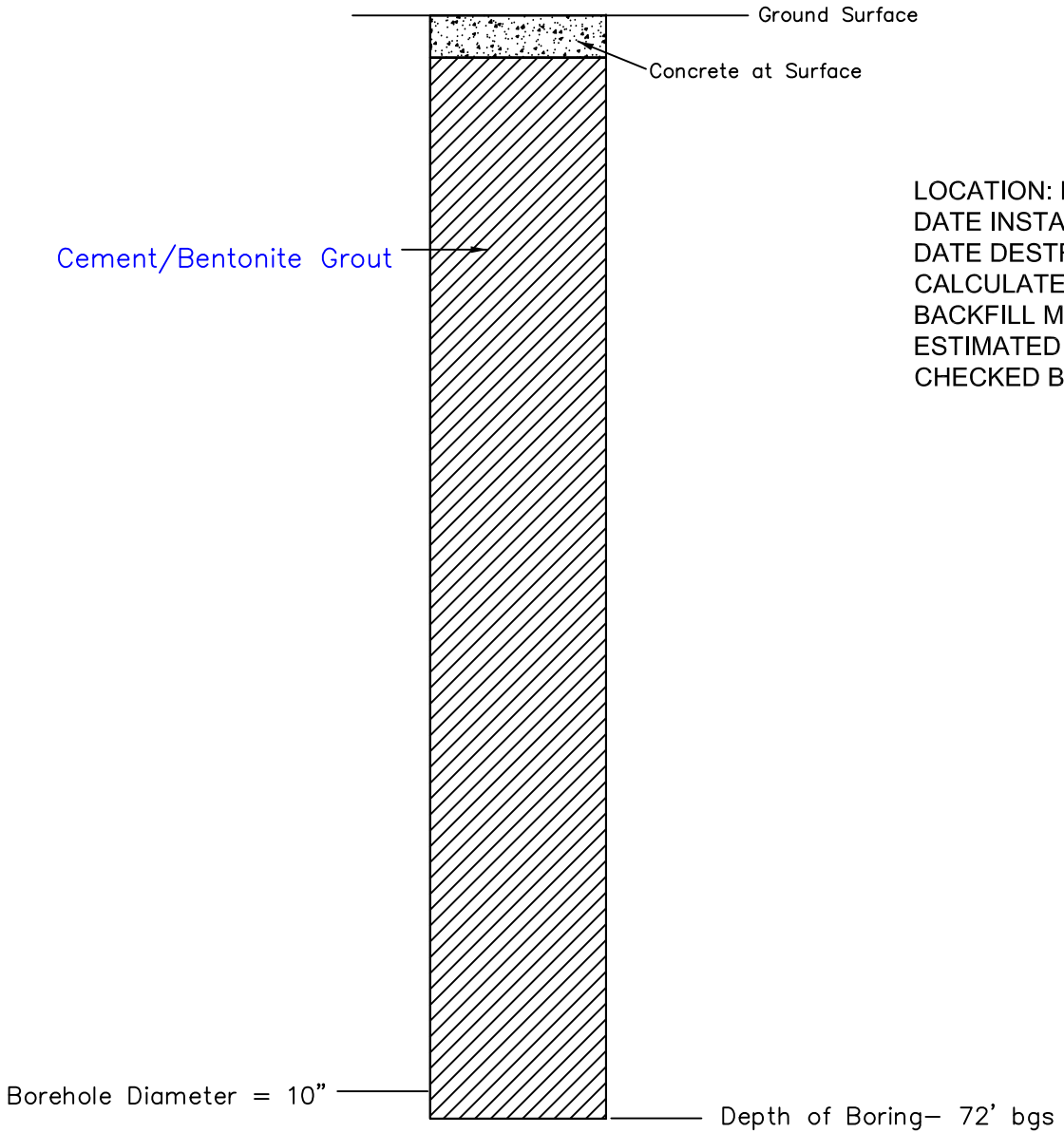
OTIE
An Oneida Nation Company

LEGEND:
gals = gallons
bgs = below ground surface

DATE:	FILE NAME:	SOURCE:
09/17/2018	2018 Well Demo.DWG	

WELL DESTRUCTION
MW–30

Former Canoga Park Facility
Canoga Park, California



LOCATION: Parking lot southeast of 8401 Fallbrook Building
DATE INSTALLED: 05/20/1998
DATE DESTROYED: 09/05/2018
CALCULATED GROUT VOLUME: 294 gals
BACKFILL MATERIAL: Cement/Bentonite Grout
ESTIMATED GROUT VOLUME USED: 315 gals
CHECKED BY: Kim Sawyer, PG #7153

NOT TO SCALE

OTIE
An Oneida Nation Company

LEGEND:
gals = gallons
bgs = below ground surface

DATE:	FILE NAME:	SOURCE:
09/17/2018	2018 Well Demo.DWG	

WELL DESTRUCTION
MW–31

Former Canoga Park Facility
Canoga Park, California

Driller’s Well Completion Logs

State of California

Well Completion Report

Form DWR 188 Submitted 9/25/2018

WCR2018-008530

Owner's Well Number: CM-10 | Date Work Began: 09/06/2018 | Date Work Ended: 09/06/2018

Local Permit Agency: LA County Department of Public Health, Department of Health Services, Drinking Water Program

Secondary Permit Agency: | Permit Number: 0156926 | Permit Date: 08/24/2018

Well Owner (must remain confidential pursuant to Water Code 13752)

Name: RAYTHEON COMPANY (DANIEL S. SAMORANO),

Mailing Address: 8433 Fallbrook Ave

City: Canoga Psrk | State: CA | Zip: 91304

Former Use

Activity: Destroy

Former Use: Monitoring

Well Location

Address: 8433 FALLBROOK AVE

City: CANOGA PARK | Zip: 91304 | County: Los Angeles

Latitude: 34 Deg. 13 Min. 24.5 Sec. N | Longitude: -118 Deg. 37 Min. 24.6 Sec. W

Dec. Lat.: 34.2234648 | Dec. Long.: -118.6235076

Vertical Datum: | Horizontal Datum: WGS84

Location Accuracy: | Location Determination Method:

APN:

Township: 02 N

Range: 17 W

Section: 25

Baseline Meridian: San Bernardino

Ground Surface Elevation:

Elevation Accuracy:

Elevation Determination Method:

Borehole Information

Orientation: Vertical | Specify:

Drilling Method: | Drilling Fluid:

Total Depth of Boring: Feet

Total Depth of Completed Well: 55 Feet

Water Level and Yield of Completed Well

Depth to first water: (Feet below surface)

Depth to Static Water Level: (Feet) | Date Measured:

Estimated Yield*: (GPM) | Test Type:

Test Length: (Hours) | Total Drawdown: (feet)

*May not be representative of a well's long term yield.

Destruction Details:

Destroy 2-inch PVC Well by overdrilling 10-inch hollow stem auger; grout borehole and surface restoration.

Other Observations:

Borehole Specifications

Depth from Surface Feet to Feet		Borehole Diameter (inches)

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name: BEKS ACQUISITION INC
Person, Firm or Corporation

1150 W TRENTON AVENUE	ORANGE	CA	92867
Address	City	State	Zip

Signed: *electronic signature received* (C-57 Licensed Water Well Contractor) | 09/25/2018 (Date Signed) | 969758 (C-57 License Number)

Attachments

OTIE- 8433 Fallbrook Ave, Canoga Park- Site Map.pdf - Location Map

DWR Use Only

CSG #	State Well Number	Site Code	Local Well Number

N — Latitude Deg/Min/Sec

W — Longitude Deg/Min/Sec

TRS:

APN:



Figure 2
Site Plan

Former Canoga Park Facility
8433 Fallbrook Avenue, Canoga Park, California

OTIE

September 2018

Fig 2_ Well Demo.dwg

State of California

Well Completion Report

Form DWR 188 Submitted 9/25/2018

WCR2018-008546

Owner's Well Number: CM-11A | Date Work Began: 09/10/2018 | Date Work Ended: 09/10/2018

Local Permit Agency: LA County Department of Public Health, Department of Health Services, Drinking Water Program

Secondary Permit Agency: | Permit Number: 0156926 | Permit Date: 08/24/2018

Well Owner (must remain confidential pursuant to Water Code 13752)

Name: RAYTHEON COMPANY (DANIEL S. SAMORANO),

Mailing Address: 8433 Fallbrook Ave

City: Canoga Psrk | State: CA | Zip: 91304

Former Use

Activity: Destroy

Former Use: Monitoring

Well Location

Address: 8433 FALLBROOK AVE

City: CANOGA PARK | Zip: 91304 | County: Los Angeles

Latitude: 34 Deg. 13 Min. 24.5 Sec. N | Longitude: -118 Deg. 37 Min. 24.6 Sec. W

Dec. Lat.: 34.2234648 | Dec. Long.: -118.6235076

Vertical Datum: | Horizontal Datum: WGS84

Location Accuracy: | Location Determination Method:

APN:

Township: 02 N

Range: 17 W

Section: 25

Baseline Meridian: San Bernardino

Ground Surface Elevation:

Elevation Accuracy:

Elevation Determination Method:

Borehole Information

Orientation: Vertical | Specify:

Drilling Method: | Drilling Fluid:

Total Depth of Boring: Feet

Total Depth of Completed Well: 57 Feet

Water Level and Yield of Completed Well

Depth to first water: (Feet below surface)

Depth to Static Water Level: (Feet) | Date Measured:

Estimated Yield*: (GPM) | Test Type:

Test Length: (Hours) | Total Drawdown: (feet)

*May not be representative of a well's long term yield.

Destruction Details:

Destroy 4-inch PVC Well by overdrilling 12-inch hollow stem auger; grout borehole and surface restoration.

Other Observations:

Borehole Specifications

Depth from Surface Feet to Feet		Borehole Diameter (inches)

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name: BEKS ACQUISITION INC
Person, Firm or Corporation

1150 W TRENTON AVENUE	ORANGE	CA	92867
Address	City	State	Zip

Signed: *electronic signature received* | 09/25/2018 | 969758

C-57 Licensed Water Well Contractor | Date Signed | C-57 License Number

Attachments

OTIE- 8433 Fallbrook Ave, Canoga Park- Site Map.pdf - Location Map

DWR Use Only

CSG #	State Well Number	Site Code	Local Well Number

				N						W

Latitude Deg/Min/Sec **Longitude Deg/Min/Sec**

TRS:

APN:

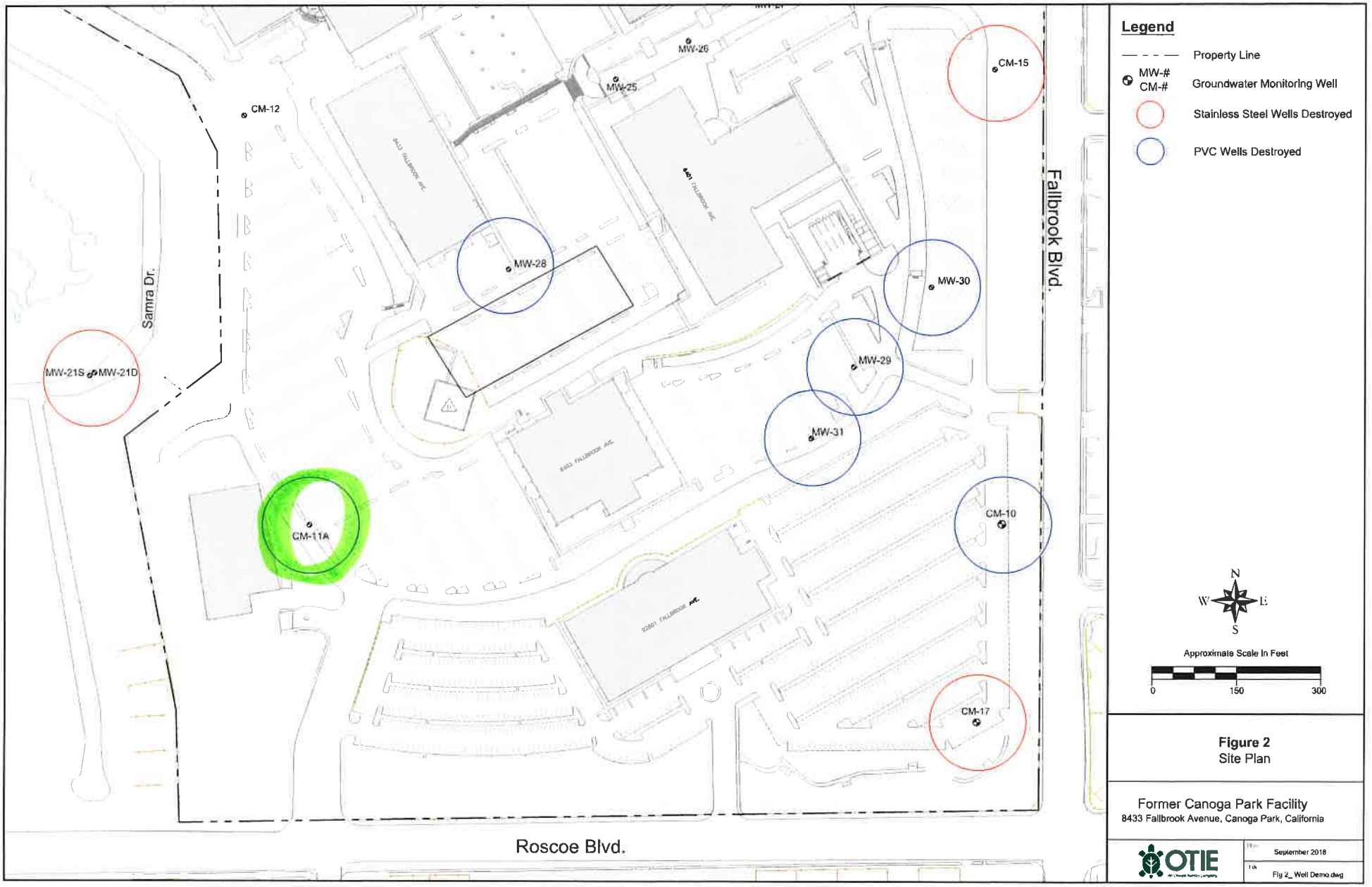


Figure 2
Site Plan

Former Canoga Park Facility
8433 Fallbrook Avenue, Canoga Park, California

OTIE

September 2018

Fig 2_ Well Demo.dwg

State of California

Well Completion Report

Form DWR 188 Submitted 9/25/2018

WCR2018-008532

Owner's Well Number MW-28 Date Work Began 09/07/2018 Date Work Ended 09/07/2018

Local Permit Agency LA County Department of Public Health, Department of Health Services, Drinking Water Program

Secondary Permit Agency Permit Number 0156926 Permit Date 08/24/2018

Well Owner (must remain confidential pursuant to Water Code 13752)

Name RAYTHEON COMPANY (DANIEL S. SAMORANO),

Mailing Address 8433 Fallbrook Ave

City Canoga Psrk State CA Zip 91304

Former Use

Activity Destroy

Former Use Monitoring

Well Location

Address 8433 FALLBROOK AVE

City CANOGA PARK Zip 91304 County Los Angeles

Latitude 34 Deg. 13 Min. 24.5 Sec. N Longitude -118 Deg. 37 Min. 24.6 Sec. W

Dec. Lat. 34.2234648 Dec. Long. -118.6235076

Vertical Datum Horizontal Datum WGS84

Location Accuracy Location Determination Method

APN

Township 02 N

Range 17 W

Section 25

Baseline Meridian San Bernardino

Ground Surface Elevation

Elevation Accuracy

Elevation Determination Method

Borehole Information

Orientation Vertical Specify

Drilling Method Drilling Fluid

Total Depth of Boring Feet

Total Depth of Completed Well 75 Feet

Water Level and Yield of Completed Well

Depth to first water (Feet below surface)

Depth to Static Water Level (Feet) Date Measured

Estimated Yield* (GPM) Test Type

Test Length (Hours) Total Drawdown (feet)

*May not be representative of a well's long term yield.

Destruction Details:

Destroy 4-inch PVC Well by overdrilling 12-inch hollow stem auger; grout borehole and surface restoration.

Other Observations:

Borehole Specifications

Depth from Surface Feet to Feet		Borehole Diameter (inches)

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name: BEKS ACQUISITION INC
Person, Firm or Corporation

1150 W TRENTON AVENUE	ORANGE	CA	92867
Address	City	State	Zip

Signed: *electronic signature received* | 09/25/2018 | 969758

C-57 Licensed Water Well Contractor | Date Signed | C-57 License Number

Attachments

OTIE- 8433 Fallbrook Ave, Canoga Park- Site Map.pdf - Location Map

DWR Use Only

CSG #	State Well Number	Site Code	Local Well Number

N — Latitude Deg/Min/Sec

W — Longitude Deg/Min/Sec

TRS:

APN:



Figure 2
Site Plan

Former Canoga Park Facility
8433 Fallbrook Avenue, Canoga Park, California

OTIE

September 2018

Fig 2_ Well Demo.dwg

State of California

Well Completion Report

Form DWR 188 Submitted 9/25/2018

WCR2018-008534

Owner's Well Number MW-29 Date Work Began 09/07/2018 Date Work Ended 09/07/2018

Local Permit Agency LA County Department of Public Health, Department of Health Services, Drinking Water Program

Secondary Permit Agency Permit Number 0156926 Permit Date 08/24/2018

Well Owner (must remain confidential pursuant to Water Code 13752)

Name RAYTHEON COMPANY (DANIEL S. SAMORANO),

Mailing Address 8433 Fallbrook Ave

City Canoga Psrk State CA Zip 91304

Former Use

Activity Destroy

Former Use Monitoring

Well Location

Address 8433 FALLBROOK AVE

City CANOGA PARK Zip 91304 County Los Angeles

Latitude 34 Deg. 13 Min. 24.5 Sec. N Longitude -118 Deg. 37 Min. 24.6 Sec. W

Dec. Lat. 34.2234648 Dec. Long. -118.6235076

Vertical Datum Horizontal Datum WGS84

Location Accuracy Location Determination Method

APN

Township 02 N

Range 17 W

Section 25

Baseline Meridian San Bernardino

Ground Surface Elevation

Elevation Accuracy

Elevation Determination Method

Borehole Information

Orientation Vertical Specify

Drilling Method Drilling Fluid

Total Depth of Boring Feet

Total Depth of Completed Well 66 Feet

Water Level and Yield of Completed Well

Depth to first water (Feet below surface)

Depth to Static Water Level (Feet) Date Measured

Estimated Yield* (GPM) Test Type

Test Length (Hours) Total Drawdown (feet)

*May not be representative of a well's long term yield.

Destruction Details:

Destroy 4-inch PVC Well by overdrilling 12-inch hollow stem auger; grout borehole and surface restoration.

Other Observations:

Borehole Specifications

Depth from Surface Feet to Feet		Borehole Diameter (inches)

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name: BEKS ACQUISITION INC
Person, Firm or Corporation

Address	City	State	Zip
1150 W TRENTON AVENUE	ORANGE	CA	92867

Signed: *electronic signature received* (C-57 Licensed Water Well Contractor) | 09/25/2018 (Date Signed) | 969758 (C-57 License Number)

Attachments

OTIE- 8433 Fallbrook Ave, Canoga Park- Site Map.pdf - Location Map

DWR Use Only

CSG #	State Well Number	Site Code	Local Well Number

N — Latitude Deg/Min/Sec

W — Longitude Deg/Min/Sec

TRS:

APN:

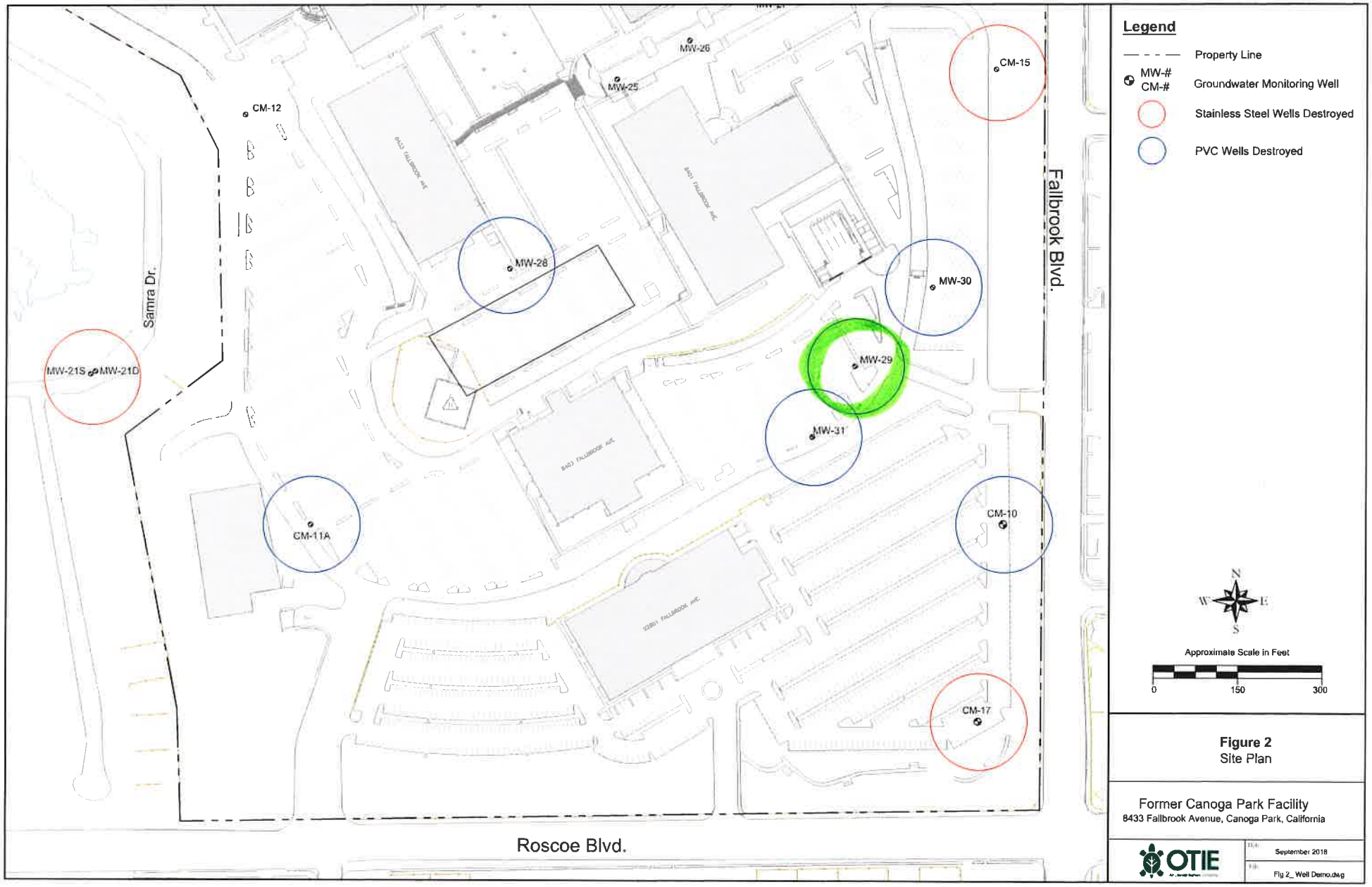


Figure 2
Site Plan

Former Canoga Park Facility
8433 Fallbrook Avenue, Canoga Park, California

OTIE

Date: September 2018
File: Fig 2_ Well Demo.dwg

State of California

Well Completion Report

Form DWR 188 Submitted 9/25/2018

WCR2018-008535

Owner's Well Number MW-30 Date Work Began 09/04/2018 Date Work Ended 09/04/2018

Local Permit Agency LA County Department of Public Health, Department of Health Services, Drinking Water Program

Secondary Permit Agency Permit Number 0156926 Permit Date 08/24/2018

Well Owner (must remain confidential pursuant to Water Code 13752)

Name RAYTHEON COMPANY (DANIEL S. SAMORANO),

Mailing Address 8433 Fallbrook Ave

City Canoga Psrk State CA Zip 91304

Former Use

Activity Destroy

Former Use Monitoring

Well Location

Address 8433 FALLBROOK AVE

City CANOGA PARK Zip 91304 County Los Angeles

	Deg.	Min.	Sec.		
Latitude	34	13	24.5	N	
Longitude	-118	37	24.6	W	

Dec. Lat. 34.2234648 Dec. Long. -118.6235076

Vertical Datum Horizontal Datum WGS84

Location Accuracy Location Determination Method

APN

Township 02 N

Range 17 W

Section 25

Baseline Meridian San Bernardino

Ground Surface Elevation

Elevation Accuracy

Elevation Determination Method

Borehole Information

Orientation Vertical Specify

Drilling Method Drilling Fluid

Total Depth of Boring Feet

Total Depth of Completed Well 60 Feet

Water Level and Yield of Completed Well

Depth to first water (Feet below surface)

Depth to Static Water Level (Feet) Date Measured

Estimated Yield* (GPM) Test Type

Test Length (Hours) Total Drawdown (feet)

*May not be representative of a well's long term yield.

Destruction Details:

Destroy 4-inch PVC Well by overdrilling 10-inch hollow stem auger; grout borehole and surface restoration.

Other Observations:

Borehole Specifications

Depth from Surface Feet to Feet		Borehole Diameter (inches)

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name: BEKS ACQUISITION INC
Person, Firm or Corporation

1150 W TRENTON AVENUE	ORANGE	CA	92867
Address	City	State	Zip

Signed: *electronic signature received* | 09/25/2018 | 969758

C-57 Licensed Water Well Contractor | Date Signed | C-57 License Number

Attachments

OTIE- 8433 Fallbrook Ave, Canoga Park- Site Map.pdf - Location Map

DWR Use Only

CSG #	State Well Number	Site Code	Local Well Number

N — Latitude Deg/Min/Sec

W — Longitude Deg/Min/Sec

TRS:

APN:

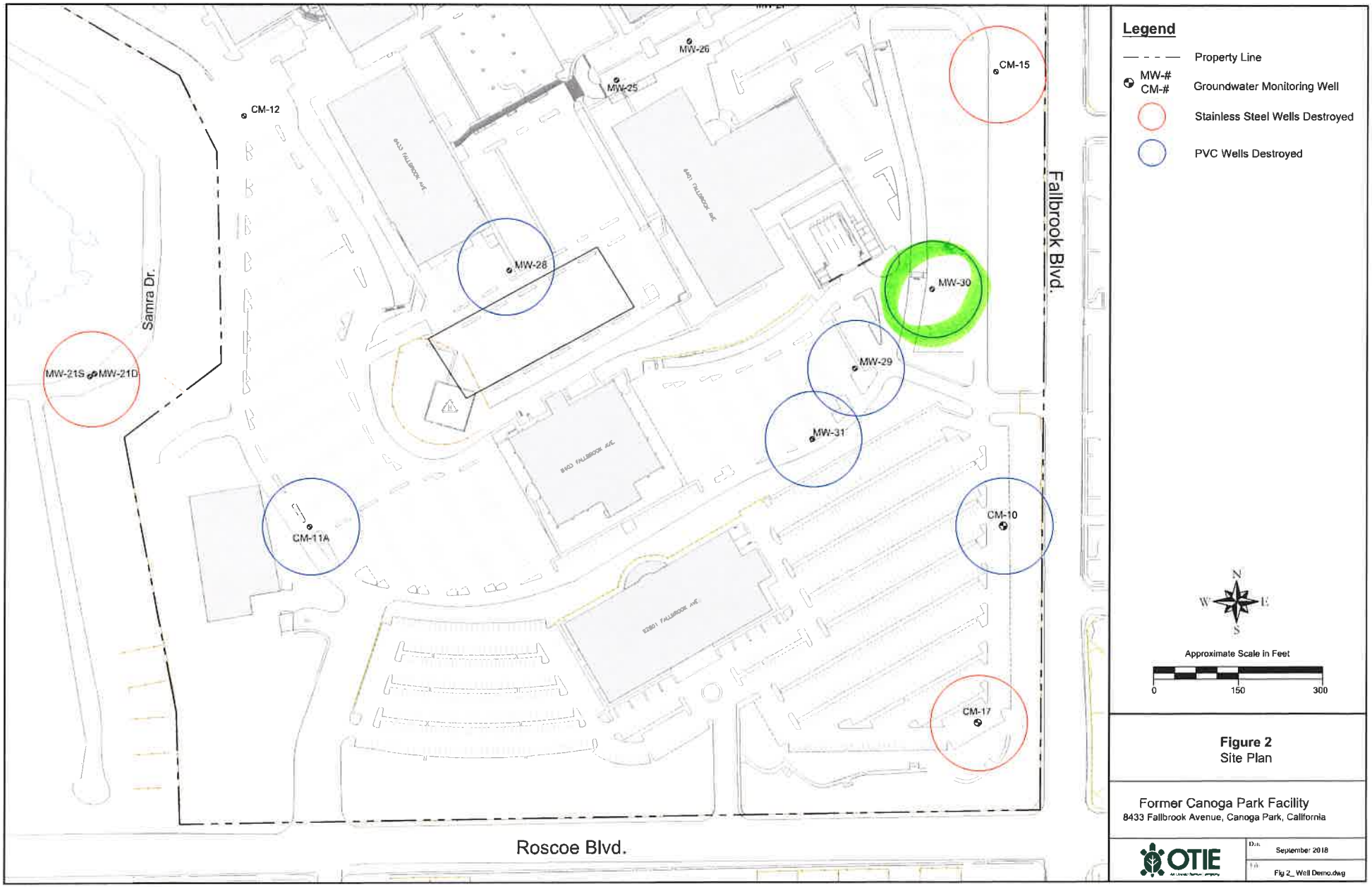


Figure 2
Site Plan

Former Canoga Park Facility
8433 Fallbrook Avenue, Canoga Park, California

OTIE

Date: September 2018
File: Fig 2_ Well Demo.dwg

State of California

Well Completion Report

Form DWR 188 Submitted 9/25/2018

WCR2018-008538

Owner's Well Number MW-31 Date Work Began 09/05/2018 Date Work Ended 09/05/2018

Local Permit Agency LA County Department of Public Health, Department of Health Services, Drinking Water Program

Secondary Permit Agency Permit Number 0156926 Permit Date 08/24/2018

Well Owner (must remain confidential pursuant to Water Code 13752)

Name RAYTHEON COMPANY (DANIEL S. SAMORANO),

Mailing Address 8433 Fallbrook Ave

City Canoga Psrk State CA Zip 91304

Former Use

Activity Destroy

Former Use Monitoring

Well Location

Address 8433 FALLBROOK AVE

City CANOGA PARK Zip 91304 County Los Angeles

Latitude 34 Deg. 13 Min. 24.5 Sec. N Longitude -118 Deg. 37 Min. 24.6 Sec. W

Dec. Lat. 34.2234648 Dec. Long. -118.6235076

Vertical Datum Horizontal Datum WGS84

Location Accuracy Location Determination Method

APN

Township 02 N

Range 17 W

Section 25

Baseline Meridian San Bernardino

Ground Surface Elevation

Elevation Accuracy

Elevation Determination Method

Borehole Information

Orientation Vertical Specify

Drilling Method Drilling Fluid

Total Depth of Boring Feet

Total Depth of Completed Well 72 Feet

Water Level and Yield of Completed Well

Depth to first water (Feet below surface)

Depth to Static Water Level (Feet) Date Measured

Estimated Yield* (GPM) Test Type

Test Length (Hours) Total Drawdown (feet)

*May not be representative of a well's long term yield.

Destruction Details:

Destroy 2-inch PVC Well by overdrilling 10-inch hollow stem auger; grout borehole and surface restoration.

Other Observations:

Borehole Specifications

Depth from Surface Feet to Feet		Borehole Diameter (inches)

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name: BEKS ACQUISITION INC
Person, Firm or Corporation

Address	City	State	Zip
1150 W TRENTON AVENUE	ORANGE	CA	92867

Signed: *electronic signature received* (C-57 Licensed Water Well Contractor) | 09/25/2018 (Date Signed) | 969758 (C-57 License Number)

Attachments

OTIE- 8433 Fallbrook Ave, Canoga Park- Site Map.pdf - Location Map

DWR Use Only

CSG #	State Well Number	Site Code	Local Well Number

Latitude Deg/Min/Sec: N

Longitude Deg/Min/Sec: W

TRS:

APN:



Figure 2
Site Plan

Former Canoga Park Facility
8433 Fallbrook Avenue, Canoga Park, California

OTIE

Date: September 2018

File: Fig 2_ Well Demo.dwg

State of California

Well Completion Report

Form DWR 188 Submitted 9/25/2018

WCR2018-008550

Owner's Well Number CM-15 Date Work Began 09/11/2018 Date Work Ended 09/11/2018

Local Permit Agency LA County Department of Public Health, Department of Health Services, Drinking Water Program

Secondary Permit Agency Permit Number 0156926 Permit Date 08/24/2018

Well Owner (must remain confidential pursuant to Water Code 13752)

Name RAYTHEON COMPANY (DANIEL S. SAMORANO),

Mailing Address 8433 Fallbrook Ave

City Canoga Psrk State CA Zip 91304

Former Use

Activity Destroy

Former Use Monitoring

Well Location

Address 8433 FALLBROOK AVE

City CANOGA PARK Zip 91304 County Los Angeles

Latitude 34 Deg. 13 Min. 24.5 Sec. N Longitude -118 Deg. 37 Min. 24.6 Sec. W

Dec. Lat. 34.2234648 Dec. Long. -118.6235076

Vertical Datum Horizontal Datum WGS84

Location Accuracy Location Determination Method

APN

Township 02 N

Range 17 W

Section 25

Baseline Meridian San Bernardino

Ground Surface Elevation

Elevation Accuracy

Elevation Determination Method

Borehole Information

Orientation Vertical Specify

Drilling Method Drilling Fluid

Total Depth of Boring Feet

Total Depth of Completed Well 70 Feet

Water Level and Yield of Completed Well

Depth to first water (Feet below surface)

Depth to Static Water Level (Feet) Date Measured

Estimated Yield* (GPM) Test Type

Test Length (Hours) Total Drawdown (feet)

*May not be representative of a well's long term yield.

Destruction Details:

Destroy stainless steel well by pressure grouting and overdrilling upper 5 feet, and surface restoration

Other Observations:

Borehole Specifications

Depth from Surface Feet to Feet		Borehole Diameter (inches)

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name: BEKS ACQUISITION INC
Person, Firm or Corporation

Address	City	State	Zip
1150 W TRENTON AVENUE	ORANGE	CA	92867

Signed	Date Signed	C-57 License Number
electronic signature received (C-57 Licensed Water Well Contractor)	09/25/2018	969758

Attachments

OTIE- 8433 Fallbrook Ave, Canoga Park- Site Map.pdf - Location Map

DWR Use Only

CSG #	State Well Number	Site Code	Local Well Number

					N						W

Latitude Deg/Min/Sec **Longitude Deg/Min/Sec**

TRS:

APN:



Figure 2
Site Plan

Former Canoga Park Facility
8433 Fallbrook Avenue, Canoga Park, California

OTIE

Date: September 2018

File: Fig 2_ Well Demo.dwg

State of California

Well Completion Report

Form DWR 188 Submitted 9/25/2018

WCR2018-008552

Owner's Well Number CM-17 Date Work Began 09/10/2018 Date Work Ended 09/10/2018

Local Permit Agency LA County Department of Public Health, Department of Health Services, Drinking Water Program

Secondary Permit Agency Permit Number 0156926 Permit Date 08/24/2018

Well Owner (must remain confidential pursuant to Water Code 13752)

Name RAYTHEON COMPANY (DANIEL S. SAMORANO),

Mailing Address 8433 Fallbrook Ave

City Canoga Psrk State CA Zip 91304

Former Use

Activity Destroy

Former Use Monitoring

Well Location

Address 8433 FALLBROOK AVE

City CANOGA PARK Zip 91304 County Los Angeles

Latitude 34 Deg. 13 Min. 24.5 Sec. N Longitude -118 Deg. 37 Min. 24.6 Sec. W

Dec. Lat. 34.2234648 Dec. Long. -118.6235076

Vertical Datum Horizontal Datum WGS84

Location Accuracy Location Determination Method

APN

Township 02 N

Range 17 W

Section 25

Baseline Meridian San Bernardino

Ground Surface Elevation

Elevation Accuracy

Elevation Determination Method

Borehole Information

Orientation Vertical Specify

Drilling Method Drilling Fluid

Total Depth of Boring Feet

Total Depth of Completed Well 72 Feet

Water Level and Yield of Completed Well

Depth to first water (Feet below surface)

Depth to Static Water Level (Feet) Date Measured

Estimated Yield* (GPM) Test Type

Test Length (Hours) Total Drawdown (feet)

*May not be representative of a well's long term yield.

Destruction Details:

Destroy stainless steel well by pressure grouting and overdrilling upper 5 feet, and surface restoration

Other Observations:

Borehole Specifications

Depth from Surface Feet to Feet		Borehole Diameter (inches)

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name: BEKS ACQUISITION INC
Person, Firm or Corporation

1150 W TRENTON AVENUE	ORANGE	CA	92867
Address	City	State	Zip

Signed: *electronic signature received* | 09/25/2018 | 969758

C-57 Licensed Water Well Contractor | Date Signed | C-57 License Number

Attachments

OTIE- 8433 Fallbrook Ave, Canoga Park- Site Map.pdf - Location Map

DWR Use Only

CSG #	State Well Number	Site Code	Local Well Number

					N						W
Latitude Deg/Min/Sec						Longitude Deg/Min/Sec					

TRS:

APN:

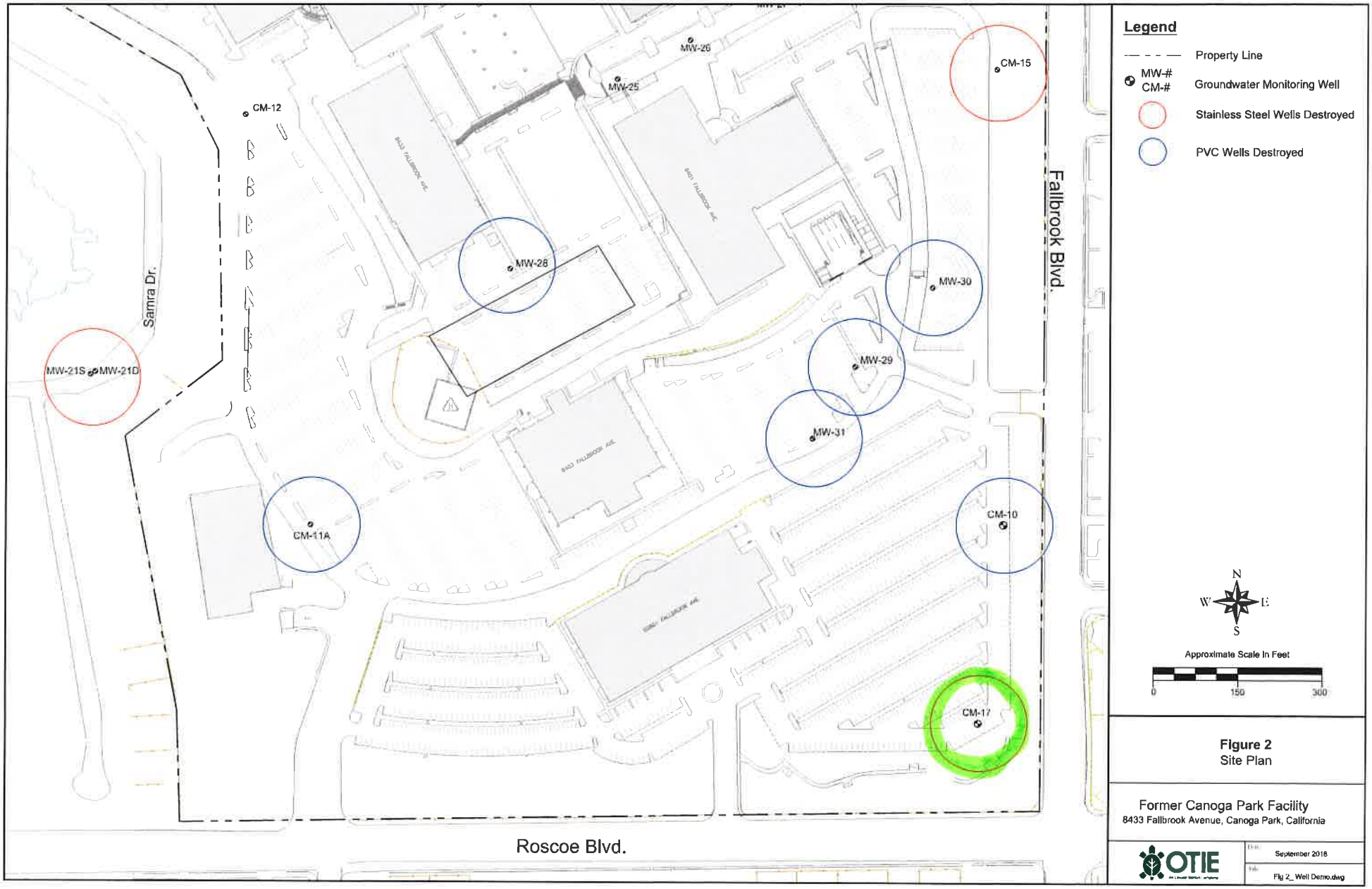


Figure 2
Site Plan

Former Canoga Park Facility
8433 Fallbrook Avenue, Canoga Park, California

OTIE

Date: September 2018

File: Fig 2_ Well Demo.dwg

State of California

Well Completion Report

Form DWR 188 Submitted 9/25/2018

WCR2018-008553

Owner's Well Number MW-21S | Date Work Began 09/11/2018 | Date Work Ended 09/11/2018

Local Permit Agency LA County Department of Public Health, Department of Health Services, Drinking Water Program

Secondary Permit Agency | Permit Number 0156926 | Permit Date 08/24/2018

Well Owner (must remain confidential pursuant to Water Code 13752)

Name RAYTHEON COMPANY (DANIEL S. SAMORANO),

Mailing Address 8433 Fallbrook Ave

City Canoga Psrk | State CA | Zip 91304

Former Use

Activity Destroy

Former Use Monitoring

Well Location

Address 8433 FALLBROOK AVE

City CANOGA PARK | Zip 91304 | County Los Angeles

Latitude 34 Deg. 13 Min. 24.5 Sec. N | Longitude -118 Deg. 37 Min. 24.6 Sec. W

Dec. Lat. 34.2234648 | Dec. Long. -118.6235076

Vertical Datum | Horizontal Datum WGS84

Location Accuracy | Location Determination Method

APN

Township 02 N

Range 17 W

Section 25

Baseline Meridian San Bernardino

Ground Surface Elevation

Elevation Accuracy

Elevation Determination Method

Borehole Information

Orientation Vertical | Specify

Drilling Method | Drilling Fluid

Total Depth of Boring | Feet

Total Depth of Completed Well 40 | Feet

Water Level and Yield of Completed Well

Depth to first water | (Feet below surface)

Depth to Static Water Level | (Feet) | Date Measured

Estimated Yield* | (GPM) | Test Type

Test Length | (Hours) | Total Drawdown | (feet)

*May not be representative of a well's long term yield.

Destruction Details:

Destroy stainless steel well by pressure grouting and overdrilling upper 5 feet, and surface restoration

Other Observations:

Borehole Specifications

Depth from Surface Feet to Feet		Borehole Diameter (inches)

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name: BEKS ACQUISITION INC (Person, Firm or Corporation)

1150 W TRENTON AVENUE	ORANGE	CA	92867
Address	City	State	Zip

Signed: *electronic signature received* (C-57 Licensed Water Well Contractor) | 09/25/2018 (Date Signed) | 969758 (C-57 License Number)

Attachments

OTIE- 8433 Fallbrook Ave, Canoga Park- Site Map.pdf - Location Map

DWR Use Only

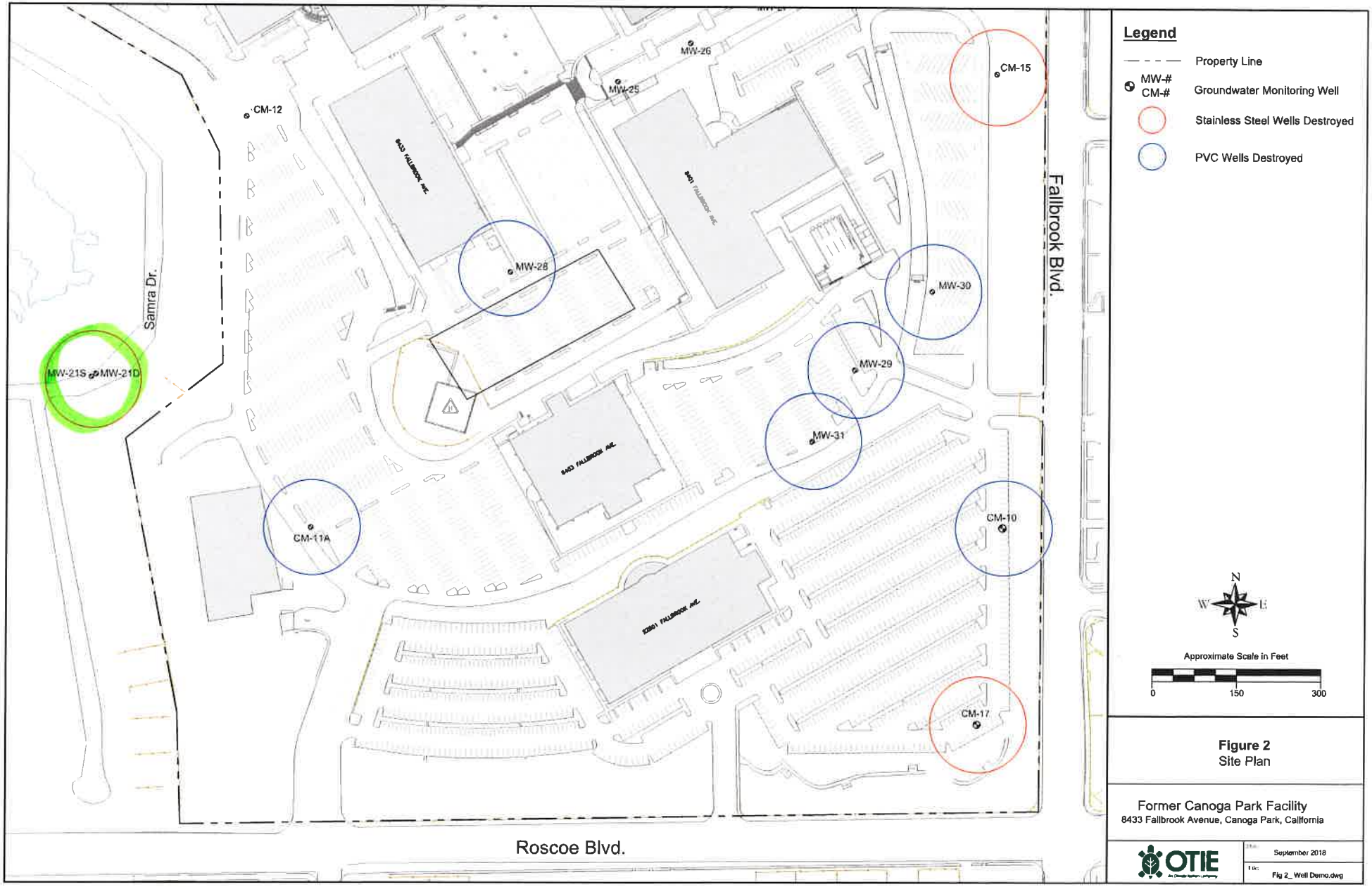
CSG #	State Well Number	Site Code	Local Well Number

				N						W

Latitude Deg/Min/Sec | Longitude Deg/Min/Sec

TRS:

APN:



Legend

- Property Line
- MW-# / CM-# Groundwater Monitoring Well
- Stainless Steel Wells Destroyed
- PVC Wells Destroyed

N
W E
S

Approximate Scale in Feet

0 150 300

Figure 2
Site Plan

Former Canoga Park Facility
8433 Fallbrook Avenue, Canoga Park, California

OTIE

Date: September 2018
File: Fig 2_ Well Demo.dwg

State of California

Well Completion Report

Form DWR 188 Submitted 9/25/2018

WCR2018-008555

Owner's Well Number MW-21D | Date Work Began 09/11/2018 | Date Work Ended 09/11/2018

Local Permit Agency LA County Department of Public Health, Department of Health Services, Drinking Water Program

Secondary Permit Agency | Permit Number 0156926 | Permit Date 08/24/2018

Well Owner (must remain confidential pursuant to Water Code 13752)

Name RAYTHEON COMPANY (DANIEL S. SAMORANO),

Mailing Address 8433 Fallbrook Ave

City Canoga Psrk | State CA | Zip 91304

Former Use

Activity Destroy

Former Use Monitoring

Well Location

Address 8433 FALLBROOK AVE

City CANOGA PARK | Zip 91304 | County Los Angeles

Latitude 34 Deg. 13 Min. 24.5 Sec. N | Longitude -118 Deg. 37 Min. 24.6 Sec. W

Dec. Lat. 34.2234648 | Dec. Long. -118.6235076

Vertical Datum | Horizontal Datum WGS84

Location Accuracy | Location Determination Method

APN

Township 02 N

Range 17 W

Section 25

Baseline Meridian San Bernardino

Ground Surface Elevation

Elevation Accuracy

Elevation Determination Method

Borehole Information

Orientation Vertical | Specify

Drilling Method | Drilling Fluid

Total Depth of Boring | Feet

Total Depth of Completed Well 82 | Feet

Water Level and Yield of Completed Well

Depth to first water (Feet below surface)

Depth to Static Water Level (Feet) | Date Measured

Estimated Yield* (GPM) | Test Type

Test Length (Hours) | Total Drawdown (feet)

*May not be representative of a well's long term yield.

Destruction Details:

Destroy stainless steel well by pressure grouting and overdrilling upper 5 feet, and surface restoration

Other Observations:

Borehole Specifications

Depth from Surface Feet to Feet		Borehole Diameter (inches)

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name: BEKS ACQUISITION INC
Person, Firm or Corporation

Address	City	State	Zip
1150 W TRENTON AVENUE	ORANGE	CA	92867

Signed: *electronic signature received* (C-57 Licensed Water Well Contractor) | 09/25/2018 (Date Signed) | 969758 (C-57 License Number)

Attachments

OTIE- 8433 Fallbrook Ave, Canoga Park- Site Map.pdf - Location Map

DWR Use Only

CSG #	State Well Number	Site Code	Local Well Number

N — Latitude Deg/Min/Sec

W — Longitude Deg/Min/Sec

TRS:

APN:



Figure 2
Site Plan

Former Canoga Park Facility
8433 Fallbrook Avenue, Canoga Park, California

OTIE

Date: September 2018
File: Fig 2_ Well Demo.dwg

Attachment C

Waste Documents

eurofins | Calscience

WORK ORDER NUMBER: 18-09-0421

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For
Client: OTIE
Client Project Name: Canoga Park IDW Char
Attention: Kim Sawyer
317 East Main Street
Ventura, CA 93001-2624

Approved for release on 09/18/2018 by:
Virendra Patel
Project Manager

ResultLink ▸

Email your PM ▸

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

eurofins | Calscience

Contents

Client Project Name: Canoga Park IDW Char
Work Order Number: 18-09-0421

1 Work Order Narrative. 3

2 Sample Summary. 4

3 QC Association Summary. 5

4 Detections Summary. 6

5 Client Sample Data. 7
5.1 EPA 6010B/7471A CAC Title 22 Metals (Solid). 7
5.2 EPA 7471A Mercury (Solid). 9
5.3 EPA 8260B Volatile Organics (Solid). 10

6 Quality Control Sample Data. 14
6.1 MS/MSD. 14
6.2 LCS/LCSD. 17

7 Sample Analysis Summary. 20

8 Glossary of Terms and Qualifiers. 21

9 Chain-of-Custody/Sample Receipt Form. 22

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Work Order Narrative

Work Order: 18-09-0421 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 09/07/18. They were assigned to Work Order 18-09-0421.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

DoD Projects:

The test results contained in this report are accredited under the laboratory's ISO/IEC 17025:2005 and DoD-ELAP accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation ADE-1864.

Return to Contents

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Sample Summary

Client:	OTIE	Work Order:	18-09-0421
	317 East Main Street	Project Name:	Canoga Park IDW Char
	Ventura, CA 93001-2624	PO Number:	2009.025/2003
		Date/Time Received:	09/07/18 16:00
		Number of Containers:	2
Attn:	Kim Sawyer		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
IDW-bin-070918	18-09-0421-1	09/07/18 08:40	2	Solid

Return to Contents

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QC Association Summary

Work Order: 18-09-0421 Page 1 of 1

Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
IDW-bin-070918	EPA 6010B/7471A CAC Title 22 Metals		EPA 3050B	ICP 8300	180911S03	180911L03
IDW-bin-070918	EPA 7471A Mercury		EPA 7471A Total	Mercury 07	180911S05	180911L05
IDW-bin-070918	EPA 8260B Volatile Organics		EPA 5030C	GC/MS LL	180912S001	180912L007

Return to Contents

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Detections Summary

Client:	OTIE	Work Order:	18-09-0421
	317 East Main Street	Project Name:	Canoga Park IDW Char
	Ventura, CA 93001-2624	Received:	09/07/18
Attn:	Kim Sawyer		

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
IDW-bin-070918 (18-09-0421-1)						
Arsenic	1.76		0.721	mg/kg	EPA 6010B	EPA 3050B
Barium	105		0.481	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.685		0.240	mg/kg	EPA 6010B	EPA 3050B
Cadmium	2.70		0.481	mg/kg	EPA 6010B	EPA 3050B
Chromium	32.8		0.240	mg/kg	EPA 6010B	EPA 3050B
Cobalt	4.05		0.240	mg/kg	EPA 6010B	EPA 3050B
Copper	20.7		0.481	mg/kg	EPA 6010B	EPA 3050B
Lead	0.717		0.481	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	4.28		0.240	mg/kg	EPA 6010B	EPA 3050B
Nickel	35.5		0.240	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.23		0.721	mg/kg	EPA 6010B	EPA 3050B
Vanadium	61.6		0.240	mg/kg	EPA 6010B	EPA 3050B
Zinc	60.8		0.962	mg/kg	EPA 6010B	EPA 3050B

Subcontracted analyses, if any, are not included in this summary.

Return to Contents

* MDL is shown

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Analytical Report

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 09/07/18
Work Order: 18-09-0421
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Canoga Park IDW Char

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
IDW-bin-070918	**18-09-0421-1-A**	**09/07/18 08:40**	**Solid**	**ICP 8300**	**09/11/18**	**09/14/18 21:56**	**180911L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.721	0.962	
Arsenic	1.76	0.721	0.962	
Barium	105	0.481	0.962	
Beryllium	0.685	0.240	0.962	
Cadmium	2.70	0.481	0.962	
Chromium	32.8	0.240	0.962	
Cobalt	4.05	0.240	0.962	
Copper	20.7	0.481	0.962	
Lead	0.717	0.481	0.962	
Molybdenum	4.28	0.240	0.962	
Nickel	35.5	0.240	0.962	
Selenium	ND	0.721	0.962	
Silver	ND	0.240	0.962	
Thallium	1.23	0.721	0.962	
Vanadium	61.6	0.240	0.962	
Zinc	60.8	0.962	0.962	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 09/07/18
Work Order: 18-09-0421
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Canoga Park IDW Char

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-26959**	**N/A**	**Solid**	**ICP 8300**	**09/11/18**	**09/14/18 13:08**	**180911L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.754	1.01	
Arsenic	ND	0.754	1.01	
Barium	ND	0.503	1.01	
Beryllium	ND	0.251	1.01	
Cadmium	ND	0.503	1.01	
Chromium	ND	0.251	1.01	
Cobalt	ND	0.251	1.01	
Copper	ND	0.503	1.01	
Lead	ND	0.503	1.01	
Molybdenum	ND	0.251	1.01	
Nickel	ND	0.251	1.01	
Selenium	ND	0.754	1.01	
Silver	ND	0.251	1.01	
Thallium	ND	0.754	1.01	
Vanadium	ND	0.251	1.01	
Zinc	ND	1.01	1.01	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

OTIE		Date Received:	09/07/18
317 East Main Street		Work Order:	18-09-0421
Ventura, CA 93001-2624		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: Canoga Park IDW Char			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
IDW-bin-070918	**18-09-0421-1-A**	**09/07/18 08:40**	**Solid**	**Mercury 07**	**09/11/18**	**09/11/18 16:00**	**180911L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-16-272-4119**	**N/A**	**Solid**	**Mercury 07**	**09/11/18**	**09/11/18 15:56**	**180911L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 09/07/18
Work Order: 18-09-0421
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: Canoga Park IDW Char

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
IDW-bin-070918	**18-09-0421-1-B**	**09/07/18 08:40**	**Solid**	**GC/MS LL**	**09/07/18**	**09/12/18 18:45**	**180912L007**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	120	1.00	
Benzene	ND	5.0	1.00	
Bromobenzene	ND	5.0	1.00	
Bromochloromethane	ND	5.0	1.00	
Bromodichloromethane	ND	5.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	25	1.00	
2-Butanone	ND	50	1.00	
n-Butylbenzene	ND	5.0	1.00	
sec-Butylbenzene	ND	5.0	1.00	
tert-Butylbenzene	ND	5.0	1.00	
Carbon Disulfide	ND	50	1.00	
Carbon Tetrachloride	ND	5.0	1.00	
Chlorobenzene	ND	5.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	5.0	1.00	
Chloromethane	ND	25	1.00	
2-Chlorotoluene	ND	5.0	1.00	
4-Chlorotoluene	ND	5.0	1.00	
Dibromochloromethane	ND	5.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	10	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
Dibromomethane	ND	5.0	1.00	
1,2-Dichlorobenzene	ND	5.0	1.00	
1,3-Dichlorobenzene	ND	5.0	1.00	
1,4-Dichlorobenzene	ND	5.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
1,1-Dichloroethene	ND	5.0	1.00	
c-1,2-Dichloroethene	ND	5.0	1.00	
t-1,2-Dichloroethene	ND	5.0	1.00	
1,2-Dichloropropane	ND	5.0	1.00	
1,3-Dichloropropane	ND	5.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Return to Contents

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Analytical Report

OTIE	Date Received:	09/07/18
317 East Main Street	Work Order:	18-09-0421
Ventura, CA 93001-2624	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/kg
Project: Canoga Park IDW Char		Page 2 of 4

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	5.0	1.00	
c-1,3-Dichloropropene	ND	5.0	1.00	
t-1,3-Dichloropropene	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
2-Hexanone	ND	50	1.00	
Isopropylbenzene	ND	5.0	1.00	
p-Isopropyltoluene	ND	5.0	1.00	
Methylene Chloride	ND	50	1.00	
4-Methyl-2-Pentanone	ND	50	1.00	
Naphthalene	ND	50	1.00	
n-Propylbenzene	ND	5.0	1.00	
Styrene	ND	5.0	1.00	
1,1,1,2-Tetrachloroethane	ND	5.0	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	1.00	
Tetrachloroethene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,4-Trichlorobenzene	ND	5.0	1.00	
1,1,1-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1.00	
Trichloroethene	ND	5.0	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	5.0	1.00	
Trichlorofluoromethane	ND	50	1.00	
1,3,5-Trimethylbenzene	ND	5.0	1.00	
Vinyl Acetate	ND	50	1.00	
Vinyl Chloride	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	80-120	
Dibromofluoromethane	103	79-133	
1,2-Dichloroethane-d4	118	71-155	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Return to Contents

eurofins | Calscience

Analytical Report

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 09/07/18
Work Order: 18-09-0421
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: Canoga Park IDW Char

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-796-14569**	**N/A**	**Solid**	**GC/MS LL**	**09/12/18**	**09/12/18 14:06**	**180912L007**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	120	1.00	
Benzene	ND	5.0	1.00	
Bromobenzene	ND	5.0	1.00	
Bromochloromethane	ND	5.0	1.00	
Bromodichloromethane	ND	5.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	25	1.00	
2-Butanone	ND	50	1.00	
n-Butylbenzene	ND	5.0	1.00	
sec-Butylbenzene	ND	5.0	1.00	
tert-Butylbenzene	ND	5.0	1.00	
Carbon Disulfide	ND	50	1.00	
Carbon Tetrachloride	ND	5.0	1.00	
Chlorobenzene	ND	5.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	5.0	1.00	
Chloromethane	ND	25	1.00	
2-Chlorotoluene	ND	5.0	1.00	
4-Chlorotoluene	ND	5.0	1.00	
Dibromochloromethane	ND	5.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	10	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
Dibromomethane	ND	5.0	1.00	
1,2-Dichlorobenzene	ND	5.0	1.00	
1,3-Dichlorobenzene	ND	5.0	1.00	
1,4-Dichlorobenzene	ND	5.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
1,1-Dichloroethene	ND	5.0	1.00	
c-1,2-Dichloroethene	ND	5.0	1.00	
t-1,2-Dichloroethene	ND	5.0	1.00	
1,2-Dichloropropane	ND	5.0	1.00	
1,3-Dichloropropane	ND	5.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Return to Contents

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Analytical Report

OTIE	Date Received:	09/07/18
317 East Main Street	Work Order:	18-09-0421
Ventura, CA 93001-2624	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/kg
Project: Canoga Park IDW Char		Page 4 of 4

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	5.0	1.00	
c-1,3-Dichloropropene	ND	5.0	1.00	
t-1,3-Dichloropropene	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
2-Hexanone	ND	50	1.00	
Isopropylbenzene	ND	5.0	1.00	
p-Isopropyltoluene	ND	5.0	1.00	
Methylene Chloride	ND	50	1.00	
4-Methyl-2-Pentanone	ND	50	1.00	
Naphthalene	ND	50	1.00	
n-Propylbenzene	ND	5.0	1.00	
Styrene	ND	5.0	1.00	
1,1,1,2-Tetrachloroethane	ND	5.0	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	1.00	
Tetrachloroethene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,4-Trichlorobenzene	ND	5.0	1.00	
1,1,1-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1.00	
Trichloroethene	ND	5.0	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	5.0	1.00	
Trichlorofluoromethane	ND	50	1.00	
1,3,5-Trimethylbenzene	ND	5.0	1.00	
Vinyl Acetate	ND	50	1.00	
Vinyl Chloride	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	80-120	
Dibromofluoromethane	104	79-133	
1,2-Dichloroethane-d4	104	71-155	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Return to Contents

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Quality Control - Spike/Spike Duplicate

OTIE		Date Received:	09/07/18
317 East Main Street		Work Order:	18-09-0421
Ventura, CA 93001-2624		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Canoga Park IDW Char			Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
IDW-bin-070918	**Sample**	**Solid**	**ICP 8300**	**09/11/18**	**09/14/18 21:56**	**180911S03**
IDW-bin-070918	**Matrix Spike**	**Solid**	**ICP 8300**	**09/11/18**	**09/14/18 21:58**	**180911S03**
IDW-bin-070918	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**09/11/18**	**09/14/18 22:10**	**180911S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	10.28	41	11.71	47	50-115	13	0-20	3
Arsenic	1.756	25.00	26.54	99	28.74	108	75-125	8	0-20	
Barium	105.2	25.00	137.3	4X	144.1	4X	75-125	4X	0-20	Q
Beryllium	0.6852	25.00	25.58	100	28.35	111	75-125	10	0-20	
Cadmium	2.696	25.00	28.81	104	31.54	115	75-125	9	0-20	
Chromium	32.79	25.00	58.53	103	63.35	122	75-125	8	0-20	
Cobalt	4.054	25.00	29.61	102	32.81	115	75-125	10	0-20	
Copper	20.69	25.00	46.28	102	48.91	113	75-125	6	0-20	
Lead	0.7166	25.00	25.25	98	28.15	110	75-125	11	0-20	
Molybdenum	4.277	25.00	25.93	87	28.27	96	75-125	9	0-20	
Nickel	35.49	25.00	59.56	96	63.43	112	75-125	6	0-20	
Selenium	ND	25.00	24.89	100	26.90	108	75-125	8	0-20	
Silver	ND	12.50	13.30	106	14.07	113	75-125	6	0-20	
Thallium	1.235	25.00	23.31	88	25.01	95	75-125	7	0-20	
Vanadium	61.60	25.00	99.65	152	110.9	197	75-125	11	0-20	3
Zinc	60.79	25.00	84.21	94	90.89	120	75-125	8	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

OTIE		Date Received:	09/07/18
317 East Main Street		Work Order:	18-09-0421
Ventura, CA 93001-2624		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: Canoga Park IDW Char			Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
IDW-bin-070918	**Sample**	**Solid**	**Mercury 07**	**09/11/18**	**09/11/18 16:00**	**180911S05**
IDW-bin-070918	**Matrix Spike**	**Solid**	**Mercury 07**	**09/11/18**	**09/11/18 16:03**	**180911S05**
IDW-bin-070918	**Matrix Spike Duplicate**	**Solid**	**Mercury 07**	**09/11/18**	**09/11/18 16:05**	**180911S05**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.8034	96	0.8741	105	71-137	8	0-14	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

OTIE		Date Received:	09/07/18
317 East Main Street		Work Order:	18-09-0421
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Canoga Park IDW Char			Page 3 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-09-0779-1	**Sample**	**Solid**	**GC/MS LL**	**09/12/18**	**09/12/18 15:06**	**180912S001**
18-09-0779-1	**Matrix Spike**	**Solid**	**GC/MS LL**	**09/12/18**	**09/12/18 16:56**	**180912S001**
18-09-0779-1	**Matrix Spike Duplicate**	**Solid**	**GC/MS LL**	**09/12/18**	**09/12/18 17:23**	**180912S001**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	40.26	81	39.99	80	61-127	1	0-20	
Carbon Tetrachloride	ND	50.00	39.66	79	40.11	80	51-135	1	0-29	
Chlorobenzene	ND	50.00	40.74	81	40.79	82	57-123	0	0-20	
1,2-Dibromoethane	ND	50.00	36.46	73	36.30	73	64-124	0	0-20	
1,2-Dichlorobenzene	ND	50.00	39.50	79	39.66	79	35-131	0	0-25	
1,2-Dichloroethane	ND	50.00	40.05	80	39.10	78	80-120	2	0-20	3
1,1-Dichloroethene	ND	50.00	40.37	81	39.69	79	47-143	2	0-25	
Ethylbenzene	ND	50.00	42.77	86	42.03	84	57-129	2	0-22	
Toluene	ND	50.00	44.07	88	43.09	86	63-123	2	0-20	
Trichloroethene	ND	50.00	44.18	88	44.35	89	44-158	0	0-20	
Vinyl Chloride	ND	50.00	47.21	94	47.48	95	49-139	1	0-47	
p/m-Xylene	ND	100.0	85.47	85	84.38	84	70-130	1	0-30	
o-Xylene	ND	50.00	42.86	86	42.61	85	70-130	1	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	32.86	66	32.95	66	57-123	0	0-21	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

OTIE		Date Received:	09/07/18
317 East Main Street		Work Order:	18-09-0421
Ventura, CA 93001-2624		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Canoga Park IDW Char			Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-26959	**LCS**	**Solid**	**ICP 8300**	**09/11/18**	**09/14/18 13:09**	**180911L03**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	25.00	23.78	95	80-120	73-127	
Arsenic	25.00	23.33	93	80-120	73-127	
Barium	25.00	27.31	109	80-120	73-127	
Beryllium	25.00	25.34	101	80-120	73-127	
Cadmium	25.00	26.47	106	80-120	73-127	
Chromium	25.00	26.03	104	80-120	73-127	
Cobalt	25.00	26.35	105	80-120	73-127	
Copper	25.00	25.85	103	80-120	73-127	
Lead	25.00	28.35	113	80-120	73-127	
Molybdenum	25.00	25.20	101	80-120	73-127	
Nickel	25.00	26.19	105	80-120	73-127	
Selenium	25.00	24.60	98	80-120	73-127	
Silver	12.50	12.44	99	80-120	73-127	
Thallium	25.00	26.31	105	80-120	73-127	
Vanadium	25.00	25.13	101	80-120	73-127	
Zinc	25.00	26.16	105	80-120	73-127	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

OTIE		Date Received:	09/07/18
317 East Main Street		Work Order:	18-09-0421
Ventura, CA 93001-2624		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: Canoga Park IDW Char			Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-4119	**LCS**	**Solid**	**Mercury 07**	**09/11/18**	**09/11/18 15:58**	**180911L05**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.8092	97	85-121	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

OTIE		Date Received:	09/07/18
317 East Main Street		Work Order:	18-09-0421
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Canoga Park IDW Char			Page 3 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-796-14569	**LCS**	**Solid**	**GC/MS LL**	**09/12/18**	**09/12/18 13:11**	**180912L007**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	46.89	94	80-120	73-127	
Carbon Tetrachloride	50.00	49.41	99	65-137	53-149	
Chlorobenzene	50.00	48.99	98	80-120	73-127	
1,2-Dibromoethane	50.00	48.66	97	80-120	73-127	
1,2-Dichlorobenzene	50.00	48.80	98	80-120	73-127	
1,2-Dichloroethane	50.00	48.91	98	80-120	73-127	
1,1-Dichloroethene	50.00	47.12	94	68-128	58-138	
Ethylbenzene	50.00	50.54	101	80-120	73-127	
Toluene	50.00	51.34	103	80-120	73-127	
Trichloroethene	50.00	48.41	97	80-120	73-127	
Vinyl Chloride	50.00	58.00	116	67-127	57-137	
p/m-Xylene	100.0	100.8	101	75-125	67-133	
o-Xylene	50.00	50.67	101	75-125	67-133	
Methyl-t-Butyl Ether (MTBE)	50.00	41.17	82	70-124	61-133	

Total number of LCS compounds: 14
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 18-09-0421 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3050B	110	ICP 8300	1
EPA 7471A	EPA 7471A Total	868	Mercury 07	1
EPA 8260B	EPA 5030C	867	GC/MS LL	2

Return to Contents

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Glossary of Terms and Qualifiers

Work Order: 18-09-0421 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

Return to Contents

EUROFINS CALSCIENCE

7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: 09/07/18

PAGE: 1 OF 1

LABORATORY CLIENT: **OTIE**

ADDRESS: **317 E. Main Street, Ventura CA 93001**

TEL: **805.585.2110** | FAX: **805.585.2111** | E-MAIL: ksawyer@otie.com

CLIENT PROJECT NAME / NUMBER: **CANOGA PARK IDW Char**

P.O. NO.: 2009.025/2003

PROJECT CONTACT: **Kim Sawyer**

SAMPLER(S) (SIGNATURE)

COELT LOG CODE: T N A V

COOLER RECEIPT: Temp = _____ °C

18-09-0421

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ☐ 5 DAYS ☒ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING ☐ COELT EDF ☐ WDR 100000974

SPECIAL INSTRUCTIONS

** OTIE SPECIFIC EDD/COELT EDF **

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	EPA 8260B - VOCs	TPH C6-C44 (8015)	CAM 17 metals	CONTAINER TYPE
1	IDW-bin-070918	IDW-soil	SEPT. 7, 2018	0810	soil	2	X		X	8-oz glass jar
	~~IDW-drum-~~	~~IDW-GW~~			~~GW~~					

Relinquished by: (Signature)	Received by: (Signature)	Date: 9/7/18	Time: 1300
Relinquished by: (Signature)	Received by: (Signature)	Date: 9/7/18	Time: 1600
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Return to Contents

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WORK ORDER NUMBER: 18-09-0421

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: OTIE

DATE: 09 / / 2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: -0.5°C); Temperature (w/o CF): 3.8 °C (w/ CF): 3.3 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: VJ6P

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: VJ6P

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: UGL

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☑ 16ozCGJ (tall) ☐ Sleeve (___) ☐ EnCores® (___) ☐ TerraCores® (___) ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: UGL

s = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH Reviewed by: WPSO

Return to Contents

GROUNDWATER INVESTIGATION REPORT TO VERIFY CURRENT RADIOACTIVITY CONDITIONS

Former Canoga Park Facility
8433 Fallbrook Avenue
Canoga Park, California
SLIC No. 0693, Site ID No. 2043T00

Oneida Total Integrated Enterprises Project No. 2009025
August 2009

Prepared for:
Tracy J. Egoscue, Executive Officer
Ann Chang, Ph.D., Water Resource Control Engineer
Site Cleanup I
Los Angeles Regional Water Quality Control Board
320 W. Fourth Street, Suite #200
Los Angeles, California 90013

Prepared by:

317 E. East Main Street
Ventura, California 93001
(805) 585-2110

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320 W. Fourth Street, Suite #200
Los Angeles, California 90013

Prepared by:

Kim Sawyer, P.G.
Senior Geologist

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Project Chemist

Reviewed by:



Jacques Marcillac, CHG
Project Manager

TABLE OF CONTENTS

1.0 INTRODUCTION 1
2.0 GROUNDWATER SAMPLING AND ANALYSIS 2
2.1 GROUNDWATER SAMPLING 2
2.2 INVESTIGATION DERIVED WASTE 2
2.3 SAMPLE ANALYSIS 2
3.0 QUALITY ASSURANCE AND QUALITY CONTROL PROGRAM 4
3.1 FIELD QC SAMPLES 4
3.1.1 Field Duplicates 4
3.1.2 Equipment Rinsate Samples 4
3.2 LABORATORY QC SAMPLES 4
4.0 RADIOLOGICAL DATA VALIDATION 5
4.1 VALIDATION PROCEDURES 5
4.2 DATA VALIDATION QUALIFIERS AND REASON CODES 6
4.3 DATA VALIDATION REPORT 6
5.0 RESULTS 7
5.1 MONITORING WELL LABORATORY SAMPLE RESULTS 7
5.2 MONITORING WELL FIELD PARAMETER RESULTS 7
5.3 QA/QC RESULTS 8
6.0 SUMMARY 9
7.0 DATA EVALUATION DISCUSSION 10
7.1 EVALUATION OF FILTERED VERSUS UNFILTERED CONCENTRATIONS 10
7.2 EVALUATION OF RADIUM VERSUS TOTAL DISSOLVED SOLIDS AND FIELD PARAMETERS 10
7.3 EVALUATION OF GROSS ALPHA VERSUS TOTAL DISSOLVED SOLIDS AND FIELD PARAMETERS 11
7.4 EVALUATION OF URANIUM VERSUS TOTAL DISSOLVED SOLIDS AND FIELD PARAMETERS 11
8.0 CONCLUSIONS 12
9.0 REFERENCES 13

FIGURES

Figure 1 Site Vicinity Map
Figure 2 Radiological Concentrations in Groundwater, May 2009

TABLES

Table 1 Radiological Sampling Results, May 2009
Table 2 Relative Mass Ratios of Uranium Isotopes in Groundwater, May 2009
Table 3 Historical Radiological Concentrations in Groundwater
Table 4 Measure Field Parameters in Groundwater, May 2009

GRAPHS

Graph 1 Filtered vs Unfiltered Results, Combined Radium
Graph 2 Filtered vs Unfiltered Results, Gross Alpha
Graph 3 Filtered vs Unfiltered Results, Total Uranium
Graph 4a Combined Radium and Average TDS
Graph 4b Combined Radium and pH
Graph 4c Combined Radium and Turbidity
Graph 4d Combined Radium and Oxidation Reduction Potential (ORP)
Graph 4e Oxidation Reduction Potential (ORP) vs Detected Combined Radium, Filtered Samples
Graph 4f Oxidation Reduction Potential (ORP) vs Detected Combined Radium, Unfiltered Samples
Graph 5a Gross Alpha and Average TDS
Graph 5b Gross Alpha and pH
Graph 5c Gross Alpha and Turbidity
Graph 5d Gross Alpha and Oxidation Reduction Potential (ORP)
Graph 5e TDS vs Gross Alpha, Filtered Samples
Graph 5f TDS vs Gross Alpha, Unfiltered Samples
Graph 6a Total Uranium and Average TDS
Graph 6b Total Uranium and pH
Graph 6c Total Uranium and Turbidity
Graph 6d Total Uranium and Oxidation Reduction Potential (ORP)
Graph 6e TDS vs Total Uranium, Filtered Samples
Graph 6f TDS vs Total Uranium, Unfiltered Samples
Graph 6g Oxidation Reduction Potential (ORP) vs Total Uranium, Filtered Samples
Graph 6h Oxidation Reduction Potential (ORP) vs Total Uranium, Unfiltered Samples

APPENDICES (PDF FORMAT ON CD-ROM)

Appendix A Regulatory Correspondence
Appendix B Groundwater Sampling Field Sheets
Appendix C Laboratory Reports
Appendix D Data Validation Report

ACRONYMS AND ABBREVIATIONS

CEL	Calscience Environmental Laboratory
CDPH	California Department of Public Health
DTSC	Department Toxics Substance Control
ERDU	Evaluation of Radiochemical Data Usability
GPL	GPL Laboratory, LLC
LARWQCB	California Regional Water Quality Control Board, Los Angeles Region
LDC	Laboratory Data Consultants, Inc.
MARLAP	Multi-Agency Radiological Laboratory Analytical Protocol
MCLs	Maximum Contaminant Levels
MDA	minimum detectable activity
mg/L	milligrams per liter
mV	milli-volts
NELAP	National Environmental Laboratory Accreditation Program
NTU	nephelometric turbidity units
NFGs	National Functional Guidelines
NTIS	National Technical Information Service
OTIE	Oneida Total Integrated Enterprises
ORP	Oxidation Reduction Potential
pCi/L	picocuries per liter
QC	quality control
Ra-226	Radium-226
Ra-228	Radium-228
Raytheon	Raytheon Company
RPD	relative percent difference
R^2	coefficient of determination
SM	Standard Methods
SOP	Standard Operating Practice
TDS	Total Dissolved Solids
TN&A	T N & Associates, Inc.
U	Uranium
USEPA	US Environmental Protection Agency

1.0 INTRODUCTION

Oneida Total Integrated Enterprises (OTIE), formerly T N & Associates, Inc. (TN&A), has prepared this report on behalf of Raytheon Company (Raytheon), documenting the recent groundwater investigation to verify current radioactivity conditions at the former facility located at 8433 Fallbrook Avenue in Canoga Park, California, as illustrated in Figure 1 ("Former Canoga Park Facility"). The work was conducted following the work plan titled *Work Plan Revision 01 for Groundwater Investigation to Verify Current Radioactivity Conditions* prepared by TN&A (TN&A, 2008b) and submitted to the California Regional Water Quality Control Board, Los Angeles Region (LARWQCB) in December 2008.

Raytheon's predecessor, Hughes Missile Systems, Inc., conducted a comprehensive investigation in 1990 and 1991 at the request of the LARWQCB to determine radioactivity levels in groundwater at the site including eight sampling events between September 1990 and December 1991. These findings were submitted to the LARWQCB in 1992 (GRC, 1992) and indicated that a subset of the well samples had radiological parameters exceeding California Maximum Contaminant Levels (MCLs), but that the concentrations were naturally occurring based on the relative abundances of the individual uranium isotopes. After 1992, no additional testing for radiological parameters was done as there was no further correspondence from the LARWQCB concerning the subject. Therefore, Raytheon considered the investigation to be complete and continued efforts remediating the Volatile Organic Compound (VOC) concentrations in shallow groundwater underlying the northwest portion of the site.

On March 5, 2008, the LARWQCB requested additional information and a work plan for an investigation to assess the current conditions for radioactivity in groundwater (LARWQCB, 2008a, Appendix A). Raytheon responded and provided LARWQCB with the requested site information in addition to all the historical radiological data in a letter dated April 3, 2008 (Raytheon, 2008a; Appendix A). The LARWQCB subsequently requested additional information from Raytheon during a teleconference on May 21, 2008. This information was provided in a June 3, 2008 letter from Raytheon to the LARWQCB (Raytheon, 2008b; Appendix A).

Based on the LARWQCB review of the requested data, a letter was then issued on July 15, 2008, re-iterating the requirement for Raytheon to submit a work plan for a site-wide groundwater investigation to verify current radioactivity conditions at the site (LARWQCB, 2008b; Appendix A). TN&A prepared a work plan for the sampling and submitted it on September 12, 2008 (TN&A, 2008a). The LARWQCB reviewed the work plan and provided comments in a letter dated October 21, 2008 (LARWQCB, 2008c; Appendix A), mainly discussing the specific laboratory methodologies and sample collection protocols. These comments were addressed by coordinating a collaborative effort between Raytheon, OTIE-TN&A, the LARWQCB, and the California Department of Public Health (CDPH). Through a series of conference calls and e-mail correspondence that occurred between October 2008 and December 2008, OTIE-TN&A developed a sampling and analytical program that met the data quality objectives for all stakeholders involved. A revised work plan entitled: *Work Plan Revision 01 for Groundwater Investigation to Verify Current Radioactivity Conditions* (TN&A, 2008b) was then prepared, incorporating all the agreed upon sampling protocols and analytical methodologies, and submitted to the LARWQCB in December 2008. The revised work plan was approved by the LARWQCB in their January 29, 2009 letter (LARWQCB, 2009; Appendix A).

The field activities and laboratory analyses documented in this report are in accordance with the approved December 2008 work plan.

2.0 GROUNDWATER SAMPLING AND ANALYSIS

Groundwater samples were collected from 11 site wells (wells MW-16, MW-19S, MW-20D, MW-21S, MW-21D, CM-8D, CM-9D, CM-10, CM-12, CM-17, and CM-18) at locations shown on Figure 2, as required by the LARWQCB. The wells were sampled following OTIE-TN&A's standard operating procedures as presented in the approved work plan. As required by the LARWQCB, both filtered and unfiltered groundwater samples were collected to allow comparison and to determine whether the suspended sediments have any affect on the analytical results. In all, 28 groundwater samples were submitted for analysis: 11 unfiltered well samples, 11 filtered well samples, field duplicates from two wells (each with an unfiltered and filtered sample) and two equipment rinsate blanks. Samples were submitted to Calscience Environmental Laboratory (CEL) (NELAP ID# 03220CA) and GPL laboratory, LLC (GPL) (NELAC ID #NLC080001) for analysis.

2.1 GROUNDWATER SAMPLING

Groundwater sampling for radiological analyses was conducted concurrent with the semiannual groundwater sampling event between May 26 and May 27, 2009. Prior to sampling, each well was gauged for depth to water measurements on May 26, 2009 and then purged using a "low-flow" technique with a decontaminated submersible pump and dedicated tubing, as described in the OTIE-TN&A's Standard Operating Practice (SOP) No. TNFLD008F (previously submitted in the work plan). During purging, the groundwater was monitored for the stabilization of pH, temperature, oxidation reduction potential (ORP), dissolved oxygen, conductivity, and turbidity. Field measurements were recorded on well sampling sheets for each well and are included in Appendix B. Upon stabilization of the field parameters, the unfiltered samples were decanted into the appropriate laboratory-supplied containers described in the work plan. Samples designated for field-filtering were filtered using a disposable 0.45-micron filter prior to decanting into the appropriate laboratory-supplied containers. Each sample container was labeled with sample identification, requested analysis, date and time of collection and placed on ice in a cooler in accordance with OTIE-TN&A's SOP No. TNFLD010C (previously submitted). Samples were shipped priority overnight under chain-of-custody protocol to the two laboratories (CEL and GPL) at temperatures between 2 and 6 degrees Celsius.

2.2 INVESTIGATION DERIVED WASTE

Well purge water generated from this event was containerized in an UN-approved 55-gallon drum. The drum was properly labeled and stored on site pending treatment/disposal. A sample of the purge water was collected and analyzed for VOCs and metals to confirm that the material was not a Resource Conservation and Recovery Act (RCRA) Federal hazardous waste or California hazardous waste. Waste characterization data is provided in Appendix C. Results indicated that the purge water is not a RCRA or California Hazardous waste. Disposal of IDW will be performed in accordance with applicable state and federal regulations. Profiling and manifest documentation will be kept on file by Raytheon and OTIE, and available at LARWQCB request.

2.3 SAMPLE ANALYSIS

Each of the 28 groundwater samples was analyzed for total dissolved solids (TDS) at CEL in Chatsworth, California. The remaining sample containers were submitted to GPL in Montgomery, Alabama for analysis of gross beta, total uranium, radium-226 (Ra-226) and radium-228 (Ra-228). Gross alpha analysis was performed after receipt of the TDS results. If the TDS value for a sample was less than 500 milligrams per liter (mg/L), the corresponding

sample at GPL was analyzed for gross alpha by EPA Method 900.0. If TDS concentration was greater than 500 mg/L, the sample was analyzed for gross alpha using Method SM 7110C. Samples for Isotopic uranium were also submitted to GPL from each well for potential analysis. If the total uranium concentration for any sample exceeded the MCL of 20 picocuries per liter (pCi/L), it was then further speciated for their respective isotopes (U^{234}, U^{235}, and U^{238}).

Samples were analyzed by the following methods:

Parameter	**Method**
total dissolved solids (TDS)	SM 2540C
gross alpha* (method based on TDS results)	EPA 900.0 (if TDS <500 mg/L) or SM 7110C (if TDS >500 mg/L)
gross beta	EPA 900.0
uranium	EPA 908.0
Ra-226	EPA 903.1
Ra-228	EPA 904.0
uranium Isotopes (U^{234}, U^{235}, and U^{238})	NTIS 7500-UC-00

* - Natural uranium was used as calibration standard for gross alpha determination by EPA 900.0 for samples with solid content below 500 mg/L and SM 7110C for samples with solid content above 500 mg/L. Use of the natural uranium standard is not the standard operating procedure for the method, but was requested by the LARWQCB in e-mail correspondence between Dr. Ann Chang of the LARWQCB and Ms. Ewelina Mutkowska of OTIE-TN&A on December 12, 2008.

3.0 QUALITY ASSURANCE AND QUALITY CONTROL PROGRAM

OTIE assessed the quality of field data through collection and analysis of field quality control (QC) samples. Laboratory QC samples were analyzed in accordance with referenced analytical method protocols to ensure that laboratory procedures and analyses were conducted properly to meet data quality objectives.

3.1 FIELD QC SAMPLES

QC samples were collected in the field and analyzed to check sampling and analytical precision, accuracy, and representativeness. The following section discusses the types of field QC samples that were collected for this project.

3.1.1 Field Duplicates

Field duplicate samples were collected from two wells. Samples CP-0905023 (filtered) and CP-0905024 (unfiltered) were collected from well MW-16. Samples CP-0905025 (filtered) and CP-0905026 (unfiltered) were collected from well CM-17. These four duplicate samples were submitted for identical analyses.

3.1.2 Equipment Rinsate Samples

Two equipment rinsate samples were collected during the sampling program, one for each day of sampling. Samples CP-0905027 and CP-0905028 were not filtered and were submitted for the same analyses as the normal samples.

The equipment rinsate blanks were prepared by pouring steamed distilled water over the recently decontaminated sampling equipment into appropriate sample containers and sent to the laboratory for analysis.

3.2 LABORATORY QC SAMPLES

Laboratory QC samples were prepared and analyzed at the laboratory to evaluate the effectiveness of sample preparation and analysis and to assess analytical precision and accuracy. Method blanks and laboratory control samples were used for this project by the laboratories. Samples CP-0905006 (from well CM-8D, filtered) and CP-0905019 (from well CM-17, unfiltered) were submitted as matrix spike and matrix spike duplicate samples. The two samples were analyzed for Ra-226 and Ra-228. Additional details on the laboratory QC are included in the data validation section below.

4.0 RADIOLOGICAL DATA VALIDATION

Upon receipt of the radiological laboratory data from GPL, the data packages were submitted to third-party consultant Laboratory Data Consultants, Inc. (LDC) of Carlsbad, California, for the data validation.

Radiological data validation was conducted in accordance with the Final Multi-Agency Radiological Laboratory Analytical Protocols (MARLAP) Manual (USEPA, 2004a), Evaluation of Radiochemical Data Usability (ERDU) Guidelines (USDOE, 1997), and National Functional Guidelines (NFGs) for Inorganic Data Evaluation (USEPA, 2004b). Copies of these documents are provided on a CD-ROM in Attachment C of the work plan (TN&A, 2008b.)

Analytical data validation, including field and laboratory data review, is defined as a systematic process, performed external from the data generator (i.e., analytical laboratory performing analyses), which applies a defined set of performance-based criteria to a body of data, which may result in qualification of the data. Data validation provides a level of assurance, based on a technical evaluation, that an analyte is present or absent, and if present, the level of uncertainty associated with the measurement, and occurs prior to drawing a conclusion from a body of data.

Analytical data validation for radiochemistry includes a technical review of a laboratory data package covering the evaluation of quality-indicator samples, the identification and quantitation of analytes, and the effect of deficiencies in quality control on analytical sample data.

4.1 VALIDATION PROCEDURES

The following aspects of the data were reviewed by LDC for data validity:

- Custody of Samples and Sample Documentation;
- Sample Preservation;
- Holding Time Requirements;
- Aliquant Size;
- Chemical Separation (Yield);
- Initial Calibration and Calibration Verification;
- Quality-Indicator Samples;
- Laboratory Control Sample;
- Laboratory Duplicate;
- Field Duplicates;
- Matrix Spike;
- Method Blank;
- Equipment Blank; and
- Nuclide Identification and Quantification

LDC's Radiological data validation report is provided in Appendix D.

4.2 DATA VALIDATION QUALIFIERS AND REASON CODES

Data qualifier flags are used in an effort to best describe the quality of each piece of data to the data user. These flags are letter codes appended to the numerical data. A series of standard remarks is used to give a more detailed explanation of the data. The following data qualifiers along with the United States Environmental Protection Agency (USEPA) definitions were used during the data validation process.

The following qualifiers are used during the data validation process to identify data points that do not meet the project QA/QC limits or other analytical process requirements listed in this report and/or referenced guideline documents:

- **U** - The radionuclide was analyzed for but not detected. The value preceding the U is the minimum detectable activity (MDA).
- **J** - The identification of the analyte is acceptable, but the quality assurance criteria indicate that the quantitative values may be outside the normal expected range of accuracy (i.e., the quantitative value is considered estimated).
- **R** - Data are considered to be rejected and shall not be used. This flag denotes the failure of quality control criteria such that it cannot be determined if the analyte is present or absent from the sample. Re-sampling and analysis are necessary to confirm or deny the presence of the analyte.
- **UJ** - This flag is a combination of the U and J qualifiers, which indicates that the analyte is not present. The reported value is considered to be an estimated MDA.

4.3 DATA VALIDATION REPORT

A validation report including the results of validation activities in accordance with procedures described in the work plan (TN&A, 2008b) was completed by the data validator, LDC (Appendix D). Justification for each qualified data is provided using either reason code or additional explanations for qualification only if the reason codes do not adequately describe justification for qualification. The data validation report includes a narrative, data validation checklist, chain of custody copies, and pages of the laboratory report with assigned validation qualifiers and reasons for the qualifiers where applicable.

5.0 RESULTS

For all radiological analytical results, the laboratory provided the activity value (result), a total error, and the MDA. As a conservative measure, the activity results were adjusted based on the error provided and are referred to as "adjusted results" in the discussion herein, as is standard practice in the industry. Table 1 presents the results, the adjusted results, and the California MCLs for each of the radiological analytes, as well as the TDS results. The results are also summarized on Figure 2. For discussion purposes, the radiological results presented below refer to the adjusted results corresponding with the highest detected values between the filtered and unfiltered samples.

5.1 MONITORING WELL LABORATORY SAMPLE RESULTS

Detected gross alpha concentrations ranged from 3.87 pCi/L (well MW-19S) to 64.89 pCi/L (well MW-21D). For the gross alpha results to be compared to the MCL value of 15 pCi/L, the adjusted total uranium value was subtracted from the adjusted gross alpha concentration, per the California Department of Public Health (CDPH, 2008). Of the 11 wells sampled, the MCL was exceeded in samples from three wells: MW-16, MW-20D, and MW-21D (Table 1).

Gross beta results ranged from 4.77 pCi/L (MW-19S) to 54.77 pCi/L (CM-18). None of the samples exceeded the MCL of 20,000 pCi/L for gross beta.

Detected Ra-226 concentrations ranged from 0.885 pCi/L (CM-17) to 16.12 pCi/L (well MW-21D), while Ra-228 values ranged from 1.46 pCi/L (well MW-20D) to 2.81 pCi/L (well MW-19S). The MCL for radium is the sum of Ra-226 and Ra-228 at 5.0 pCi/L. Combined radium values in the 11 wells sampled ranged from 2.11 pCi/L (CM-17) to 18.62 pCi/L (MW-21D). Two of the 11 wells sampled had concentrations exceeding the MCL of 5.0 pCi/L (MW-20D and MW-21D).

Total uranium concentrations ranged from 3.17 pCi/L (CM-17) to 126.5 pCi/L (CM-10). Sixteen samples from seven wells (CM-8D, MW-21S, CM-9D, CM-10, CM-12, CM-17 and CM-18) exceeded the MCL of 20 pCi/L. The 16 samples exceeding the uranium MCL were also speciated for isotopic uranium (U^{234}, U^{235} and U^{238}) as summarized in Table 1. The isotopic analyses were performed in order to calculate the relative mass ratios to determine if the origin of the uranium was man-made (enriched or depleted) or was consistent with naturally occurring sources. This evaluation technique is an industry standard and was agreed upon per the LARWQCB-approved revised work plan (TN&A, 2008b). Table 2 presents ratios for the three isotopes for the May 2009 samples along with the relative mass ratio calculations. The average mass ratio values for all of the samples were: U-234 (0.0055%); U-235 (0.6712%) and U-238 (99.3233%). These are consistent with typical "natural isotopic mass ratios" which are U-234 (0.0055%); U-235 (0.7200%) and U-238 (99.27%) according to the United States Department of Energy's *Guide of Good Practices for Occupational Radiological Protection in Uranium Facilities* (USDOE, 2004). The same calculations were previously performed for the October 1991 and December 1991 analytical results and yielded similar ratios.

All historical radiological analytical data for the 11 groundwater monitoring wells sampled for this event were tabulated and are presented in Table 3. Laboratory reports for the May 2009 event are included on CD in Appendix C.

5.2 MONITORING WELL FIELD PARAMETER RESULTS

The key geochemical field parameters collected during the purging sequence are summarized in Table 4 and include the following ranges:

- ORP: +189 milli-volts (mV) (CM-10) to -372 mV (MW-21D)
- pH: 7.72 (CM-10) to 8.16 (CM-12)
- turbidity: 8.2 nephelometric turbidity units (NTU) (CM-10) to 59.6 NTU (CM-18).

5.3 QA/QC RESULTS

The relative percent difference (RPD) between field duplicate pair samples was calculated (by LDC) to evaluate precision. The RPDs were found to range from 7% to 200%. RPDs for the Ra-228 analyses ranged from 9% to 200%. The Ra-228 results were flagged due to exceedence in percent recovery.

Validation report number 21179 generated by LDC dated August 10, 2009 was reviewed by OTIE-TN&A to assess data quality, data qualification decisions, and validation completeness. A memo summarizing the review is included in Appendix D. No major issues were identified. Minor issues include qualification for blank contamination, tracer recovery deficiencies, and chemical surrogate recovery deficiencies. Minor validation deficiencies are summarized in Table 2 (in memo, Appendix D). Laboratory data reporting forms, along with handwritten data qualifications, where warranted, are included in Attachment 1 of the memo (Appendix D).

The analytical results meet the data quality objectives defined by the applicable method and validation guidance documentation and are of sufficient quality to meet the project objectives.

6.0 SUMMARY

The data presented in this report fulfills the request by the LARWQCB to verify the current radiological conditions at the Former Canoga Park Facility located at 8433 Fallbrook Ave, Canoga Park, California, as stated in the March 5, 2008 letter. All work was performed by OTIE, on behalf of Raytheon, as described in the LARWQCB-approved work plan (TN&A, 2008b).

The following bullets summarize the activities and data findings for the verification of current radiological conditions at the site.

- On May 26 and May 27, 2009, the following 11 wells were sampled: CM-8D, CM-9D, CM-10, CM-12, CM-17, CM-18, MW-16, MW-19S, MW-20D, MW-21S and MW-21D and the samples analyzed for radiological parameters;
- A total of 28 groundwater samples were collected and submitted for analysis: 11 unfiltered well samples, 11 filtered well samples, field duplicates from 2 wells (each with an unfiltered and filtered sample) and 2 equipment rinsate blanks. All samples were analyzed for TDS (SM 2540C), gross alpha (EPA 900.0 or SM 7110C), gross beta (EPA 900.0), Ra-226 (EPA 903.1), Ra-228 (EPA 904.0), and Total uranium (EPA 908.0) Select samples were also analyzed for Isotopic uranium by Method NTIS 7500-UC-00. TDS analysis was performed at CEL and the radiological analyses were performed at GPL;
- Third party data validation was conducted by Laboratory Data Consultants, Inc., between July 20 and August 10, 2009;
- TDS values in the 26 well samples (filtered and unfiltered) ranged from 975 mg/L (CM-12, filtered) to 3,440 mg/L (CM-10, filtered);
- Detected Ra-226 concentrations ranged from 0.855 pCi/L (CM-17, unfiltered) to 16.12 pCi/L (sample MW-21D, unfiltered);
- Detected Ra-228 values ranged from 0.47 pCi/L (CM-10, filtered) to 2.81 pCi/L (MW-19S, unfiltered);
- Combined radium results (Ra-226 + Ra-228) indicate that two of the 11 wells (MW-20D and MW-21D) exceed the combined radium MCL of 5 pCi/L;
- Detected gross alpha concentrations ranged from 3.87 pCi/L (MW-19S, unfiltered) to 64.89 pCi/L (MW-21D, unfiltered), adjusting these results by subtracting total adjusted uranium per the California MCL protocol, indicated that three of the 11 wells (MW-16, MW-20D and MW-21D) exceeded the MCL for gross alpha particle activity;
- Detected gross beta results ranged from 4.77 pCi/L (MW-19S, unfiltered) to 54.77 pCi/L (CM-18, unfiltered), none of the samples exceeded the MCL of 20,000 pCi/L;
- Total detected uranium concentrations ranged from 3.17 pCi/L (MW-19S, unfiltered) to 126.5 pCi/L (CM-10, filtered) and indicated that seven of the 11 wells (CM-8D, MW-21S, CM-9D, CM-10, CM-12, CM-17 and CM-18) exceeded the MCL of 20 pCi/L; and
- All isotopic uranium results indicated that the relative mass ratios were consistent with a naturally occurring source (i.e., not enriched or depleted) per USDOE evaluation protocol.

7.0 DATA EVALUATION DISCUSSION

As indicated by the results listed above, there is no consistent pattern between the distribution of wells with samples that exceeded MCLs for radiological parameters. For example, wells exceeding the radium or gross alpha MCLs are different from the wells that exceed the uranium MCL. Furthermore, the distribution of concentrations are not consistent with a site release and transport via groundwater flow as there is not a defined area where the concentrations in wells on site are markedly higher than the concentrations detected in the perimeter wells. All of the concentrations exceeding MCLs are generally of the same order of magnitude, more indicative of naturally occurring ambient levels, possibly associated with the distribution of native minerals comprising the aquifer material and/or the distribution of varying geochemical conditions within the aquifer zones.

Heterogeneities in these geochemical parameters could be related to the heterogeneities in the radiological parameter levels. To evaluate this premise, OTIE-TN&A compared the differences in concentrations of combined radium, gross alpha and uranium with the different sampling methods (filtered versus unfiltered), the levels of TDS, and against other field parameters (pH, turbidity and ORP). A discussion of the results for these analyses are provided below.

7.1 EVALUATION OF FILTERED VERSUS UNFILTERED CONCENTRATIONS

A comparison was made with filtered versus unfiltered laboratory results for combined radium gross alpha and total uranium. Radium was only detected in both filtered and non-filtered samples from wells MW-20D and MW-21D, of which the filtered sample was higher in the MW-20D pair and the unfiltered sample was higher between the MW-21D pair (Graph 1).

The gross alpha result comparison (Graph 2) showed that of the 11 sample pairs, results for two of the sample pairs were identical, six of the sample pairs had higher concentrations in the unfiltered sample, and three of the pairs had higher concentrations in the filtered sample.

Of the 11 sample pairs analyzed for uranium, concentrations were higher in the unfiltered sample in five of the pairs and higher in the filtered sample in four pairs (Graph 3). Uranium was undetected in two sample pairs.

Based on these comparisons, no consistent correlation was able to be drawn between the filtered versus unfiltered sample results.

7.2 EVALUATION OF RADIUM VERSUS TOTAL DISSOLVED SOLIDS AND FIELD PARAMETERS

Graphs 4a through 4d present the combined radium concentrations against TDS, pH, turbidity and ORP values for each well sample, respectively. In reviewing the graphs, it is apparent that there is no correlation between radium levels and any of the geochemical parameters, except possibly for ORP where high radium levels appear to coincide with low negative ORP values.

To further evaluate a possible correlation, the detected radium levels were graphed against ORP levels and a regression analysis was performed by using the trend line fitting tool in Microsoft Excel® (polynomial, order 2). This is presented graphically in Graphs 4e and 4f. A valuable evaluation metric produced by the regression analysis is the coefficient of determination (R^2). In general, an R^2 value of 1.0 would indicate that the data is perfectly correlated, R^2 values over 0.80 indicate a generally good correlation and R^2 values between 0.6 and 0.8 are possibly correlated, but suspect (Bulmer, 1979). R^2 values below 0.6 indicate that there is unlikely any correlation between the data.

The regression analysis for combined radium versus ORP resulted in a R^2 values of 0.945 (filtered) and 0.871 (unfiltered). This indicates that there is likely a correlation; however, this is based on only 4 data points for each series as there were only a total of 8 detections out of the 22 samples analyzed.

7.3 Evaluation of Gross Alpha Versus Total Dissolved Solids and Field Parameters

Graphs 5a through 5d present the gross alpha concentrations against TDS, pH, turbidity and ORP values for each well sample, respectively. In reviewing the graphs, it is apparent that there is no correlation between gross alpha levels and any of the geochemical parameters, except possibly for TDS where high TDS appear to coincide with some of the elevated gross alpha levels. Therefore, a regression analysis was performed for TDS values versus gross alpha as illustrated in Graphs 5e and 5f. The regression analysis resulted in R^2 values of 0.254 (filtered) and 0.121 (unfiltered), indicating that there is not likely a correlation between TDS and gross alpha.

7.4 Evaluation of Uranium Versus Total Dissolved Solids and Field Parameters

Graphs 6a through 6d present the total uranium concentrations against TDS, pH, turbidity and ORP values for each well sample, respectively. In reviewing the graphs, it is apparent that there is no correlation between total uranium levels and any of the geochemical parameters, except possibly TDS and ORP, where high TDS and low negative ORP appears to coincide with some of the elevated uranium levels. Therefore, a regression analysis was performed for TDS versus total uranium and ORP versus total uranium, as illustrated in Graphs 6e through 6h. The regression analysis for TDS versus total uranium resulted in R^2 values of 0.542 (filtered) and 0.257 (unfiltered) and the regression analysis for ORP versus total uranium resulted in R^2 values of 0.800 (filtered) and 0.618 (unfiltered). These values indicate that there is not likely a correlation between TDS and total uranium, however, there is possibly a correlation between ORP and total uranium levels.

8.0 CONCLUSIONS

The data produced during this groundwater investigation are consistent with previous results collected in 1990 and 1991 (Table 3). Samples collected from 10 of the 11 wells exceeded one or more California MCL for gross alpha, combined radium and/or total uranium. However, from all the data collected to date, it is evident that the radiological parameters in groundwater are unrelated to a release at the former Canoga Park facility per the following lines of evidence:

1) The uranium isotopic relative mass abundances are consistent with naturally occurring sources according to the evaluation method published by the DOE, and accepted by the LARWQCB per the approved work plan.

2) None of the levels exceed more than one order of magnitude of the MCLs (i.e., no point source area with highly elevated levels exists per the data).

3) The distributions of the parameters exceeding MCL are not consistent with a site release.

4) An analysis of the geochemical parameters indicates that the elevated radiological levels for these parameters could possibly be related to the native geochemistry in regards to ORP conditions.

OTIE does not recommend any further action at the site relative to radiological parameters. This current investigation and the 1990/1991 investigation work have determined that the levels of radiological isotopes detected in groundwater at the former facility are attributable to naturally occurring sources in the underlying aquifer matrix and geochemical system.

Raytheon will continue to work with the LARWQCB and Department Toxics Substance Control (DTSC) to fully address the VOC levels that are currently being remediated in the northwest portion of the site and awaits the determination for NFA status for the southern parcels of the site. A request to the LARWQCB was sent on behalf of Raytheon in a June 27, 2006 technical memorandum (Appendix A) requesting a no further action “NFA” status for the southern portion of the site (Assessor Parcel Number’s 2005-02-009, 2005-02-011 and 2005-02-901), which contain wells CM-10, CM-11A, CM-12, CM-15, CM-17, MW-28, MW-29, MW-30 and MW-31. Samples from these wells have had VOC concentrations that were non-detectable or below California MCLs since 1999. Therefore, it was requested that the NFA status be given to those southern parcels and that those wells be abandoned. The LARWQCB allowed these wells to be removed from the monitoring program, however, the NFA status and abandonment approval was never received due to the concerns about the radiological parameters in groundwater previously reported in the 1992 GRC documents. Per the results of the verification sampling reported in this document, it is evident that there are no levels of radiological parameters that are related to historical uses at the Former Canoga Park facility, therefore, OTIE, on behalf of Raytheon, requests that an NFA status be given to the southern parcels of the site and that the LARWQCB accept the findings of the site wide radiological investigation as complete.

9.0 REFERENCES

Bulmer, M.G., 1979, *Principles of Statics*, Dover Press.

California Department of Public Health, 2009 (CDPH, 2008) Maximum Contaminant Levels and Regulatory Dates For Drinking Water, U.S. EPA vs California, November 2008 http://www.cdph.ca.gov/certlic/drinkingwater/Documents/DWdocuments/EPAandCDPH-11-28-2008.pdf

Groundwater Resources Consultants. 1992. (GRC, 1992). *Investigation of Radioactivity in Groundwater at the Hughes Aircraft Company Canoga Park Facility, Canoga Park, California,* January 23.

Hughes Missile Corporation, 1992. *Tabulated Radiological Results*, letter to LARWQCB, dated June 19.

LARWQCB, 2008a *California Water Code (CWC) Section 13267 – Order Requiring a Groundwater Investigation Work Plan to Verify Current Radioactivity Conditions – Raytheon Systems Company (Formerly Hughes Missile System Company), 8433 Fallbrook Avenue, Canoga Park, California, WDR No. 95-012, SLIC No. 0693, Site ID No. 2043T00*, dated March 5.

LARWQCB, 2008b *California Water Code (CWC) Section 13267 – Order Requiring a Groundwater Investigation Work Plan to Verify Current Radioactivity Conditions – Raytheon Systems Company (Formerly Hughes Missile System Company), 8433 Fallbrook Avenue, Canoga Park, California, WDR No. 95-012, SLIC No. 0693, Site ID No. 2043T00*, dated July 15.

LARWQCB, 2008c *Comments on Deficient Technical Report - Work Plan for Groundwater Investigation Work Plan to Verify Current Radioactivity Conditions Pursuant to California Water Code Section 13267 Order - Raytheon Systems Company (Formerly Hughes Missile System Company), 8433 Fallbrook Avenue, Canoga Park, California, WDR No. 95-012, SLIC No. 0693, Site ID No. 2043T00*, dated October 21.

LARWQCB, 2009 *Conditional Approval of Work Plan Revision fro Groundwater Investigation to Verify Current Radioactivity Conditions Pursuant to California Water Code Section 13267 Order - Raytheon Systems Company (Formerly Hughes Missile System Company), 8433 Fallbrook Avenue, Canoga Park, California, (SCP No. 0693, Site ID No. 2043T00)*, dated January 29.

Raytheon, 2008a. *Response to Request for Investigation Work Plan to Verify Current Radioactivity Conditions at the Former Canoga Park Facility*, 8433 Fallbrook Avenue, Canoga Park, California, April 3.

Raytheon, 2008b. *Response to Request for Investigation Work Plan to Verify Current Radioactivity Conditions at the Former Canoga Park Facility*, 8433 Fallbrook Avenue, Canoga Park, California, June 3.

T N & Associates, Inc. (TN&A, 2006). *Request for Interim Shutdown of the Groundwater Recovery and Treatment System (GRTS), Modification to M&RP No. 7483 and Request for No Further Action for Southern Parcels Former Raytheon Facility 8433 Fallbrook Avenue, Canoga Park, California,* June 27.

TN&A, 2008a *Work Plan for Groundwater Investigation to Verify Current Radioactivity Conditions*, dated September 12.

TN&A, (2008b) *Work Plan Revision 01 for Groundwater Investigation to Verify Current Radioactivity Conditions*, dated December.

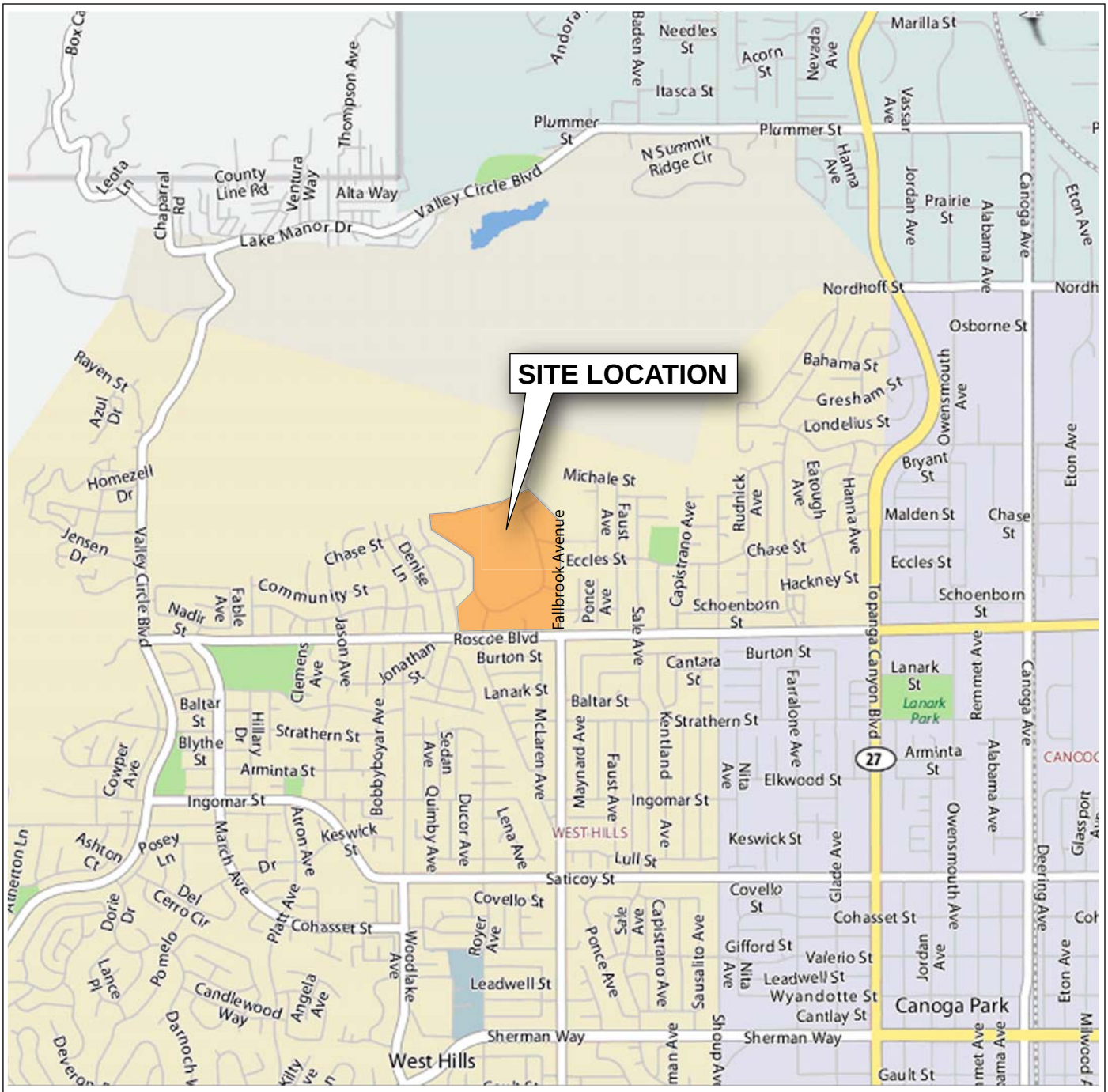
USDOE. 1997. *Evaluation of Radiochemical Data Usability*. April. http://www.wshitchcock.com/pdfs/rad_v.pdf

USDOE, 2004. DOE Standard, *Guide of Good Practices for Occupational Radiological Protection in uranium Facilities,* http://www.hss.doe.gov/nuclearsafety/ns/techstds/standard/std1136/doe-std-1136-2004.pdf

USEPA. 2004a. *Final Multi-Agency Radiological Laboratory Analytical Protocols (MARLAP) Manual*. US EPA publication # 402-B-04-001A. July. http://www.epa.gov/radiation/marlap/manual.html

USEPA. 2004b. *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*. OSWER 9240.1-45; EPA 540-R-04-004. October. http://www.epa.gov/oerrpage/superfund/programs/clp/guidance.htm

Figures



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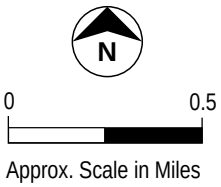
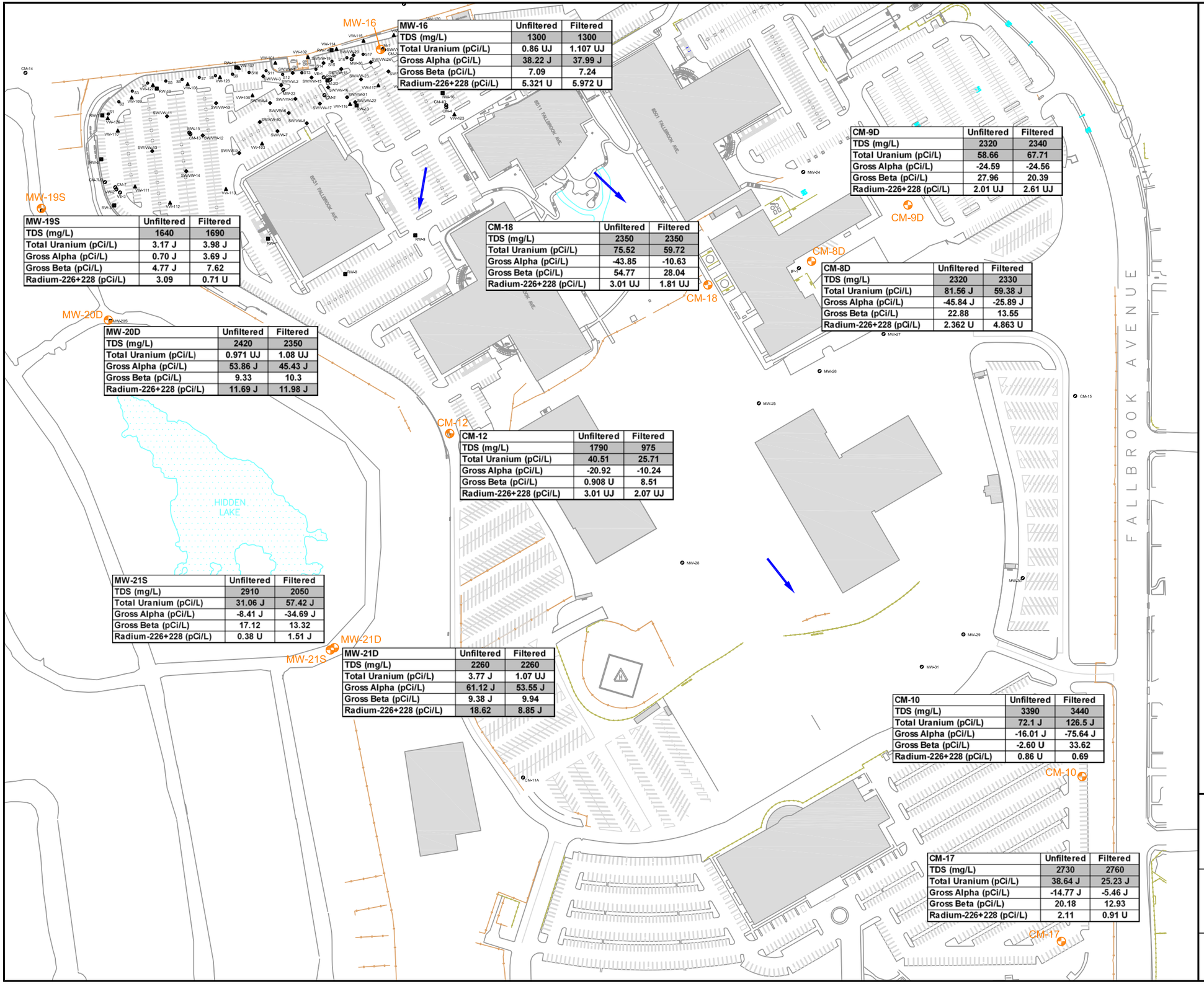


FIGURE 1

Site Vicinity Map

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

OTIE – TN&A
Oneida Total Integrated Enterprises



MW-16	Unfiltered	Filtered
TDS (mg/L)	1300	1300
Total Uranium (pCi/L)	0.86 UJ	1.107 UJ
Gross Alpha (pCi/L)	38.22 J	37.99 J
Gross Beta (pCi/L)	7.09	7.24
Radium-226+228 (pCi/L)	5.321 U	5.972 U

MW-19S	Unfiltered	Filtered
TDS (mg/L)	1640	1690
Total Uranium (pCi/L)	3.17 J	3.98 J
Gross Alpha (pCi/L)	0.70 J	3.69 J
Gross Beta (pCi/L)	4.77 J	7.62
Radium-226+228 (pCi/L)	3.09	0.71 U

MW-20D	Unfiltered	Filtered
TDS (mg/L)	2420	2350
Total Uranium (pCi/L)	0.971 UJ	1.08 UJ
Gross Alpha (pCi/L)	53.86 J	45.43 J
Gross Beta (pCi/L)	9.33	10.3
Radium-226+228 (pCi/L)	11.69 J	11.98 J

MW-21S	Unfiltered	Filtered
TDS (mg/L)	2910	2050
Total Uranium (pCi/L)	31.06 J	57.42 J
Gross Alpha (pCi/L)	-8.41 J	-34.69 J
Gross Beta (pCi/L)	17.12	13.32
Radium-226+228 (pCi/L)	0.38 U	1.51 J

MW-21D	Unfiltered	Filtered
TDS (mg/L)	2260	2260
Total Uranium (pCi/L)	3.77 J	1.07 UJ
Gross Alpha (pCi/L)	61.12 J	53.55 J
Gross Beta (pCi/L)	9.38 J	9.94
Radium-226+228 (pCi/L)	18.62	8.85 J

CM-12	Unfiltered	Filtered
TDS (mg/L)	1790	975
Total Uranium (pCi/L)	40.51	25.71
Gross Alpha (pCi/L)	-20.92	-10.24
Gross Beta (pCi/L)	0.908 U	8.51
Radium-226+228 (pCi/L)	3.01 UJ	2.07 UJ

CM-18	Unfiltered	Filtered
TDS (mg/L)	2350	2350
Total Uranium (pCi/L)	75.52	59.72
Gross Alpha (pCi/L)	-43.85	-10.63
Gross Beta (pCi/L)	54.77	28.04
Radium-226+228 (pCi/L)	3.01 UJ	1.81 UJ

CM-9D	Unfiltered	Filtered
TDS (mg/L)	2320	2340
Total Uranium (pCi/L)	58.66	67.71
Gross Alpha (pCi/L)	-24.59	-24.56
Gross Beta (pCi/L)	27.96	20.39
Radium-226+228 (pCi/L)	2.01 UJ	2.61 UJ

CM-8D	Unfiltered	Filtered
TDS (mg/L)	2320	2330
Total Uranium (pCi/L)	81.56 J	59.38 J
Gross Alpha (pCi/L)	-45.84 J	-25.89 J
Gross Beta (pCi/L)	22.88	13.55
Radium-226+228 (pCi/L)	2.362 U	4.863 U

CM-10	Unfiltered	Filtered
TDS (mg/L)	3390	3440
Total Uranium (pCi/L)	72.1 J	126.5 J
Gross Alpha (pCi/L)	-16.01 J	-75.64 J
Gross Beta (pCi/L)	-2.60 U	33.62
Radium-226+228 (pCi/L)	0.86 U	0.69

CM-17	Unfiltered	Filtered
TDS (mg/L)	2730	2760
Total Uranium (pCi/L)	38.64 J	25.23 J
Gross Alpha (pCi/L)	-14.77 J	-5.46 J
Gross Beta (pCi/L)	20.18	12.93
Radium-226+228 (pCi/L)	2.11	0.91 U

Legend

- MW-# / CM-# — Groundwater Monitoring Well
- RW-# — Groundwater Recovery Well
- VW-# — Vapor Extraction Well
- MW-# — Former Hazardous Waste Storage Area Monitoring Well
- SW/VW-# — Air Sparge/Vapor Extraction Well
- S# — Triple Nested Sparge Well
- MW-# — Monitoring Well Sampled for Radiological Parameters
- Generalized Apparent Groundwater Flow Direction, May 2009

MCLs	
TDS (mg/L)	500
Total Uranium (pCi/L)	20
Gross Alpha* (pCi/L)	15
Gross Beta (pCi/L)	20,000
Radium-226+228 (pCi/L)	5.0

Notes

1.) Groundwater Samples were collected on May 26-27, 2009
2.) Filtered samples were collected using a 0.45 micron filter
3.) TDS = Total Dissolved Solids (Secondary Drinking water standard is 500 mg/L)
4.) pCi/L = picocuries per liter
5.) mg/L = milligrams per liter
6.) MCL = Maximum Contaminant Level, per California Dept of Public Health.
7.) * = Gross Alpha concentration shown excludes Total Uranium.
8.) U = undetected at concentration shown. J = estimated value
9.) Shaded concentrations exceed their respective MCLs
10.) All radiological concentration shown are adjusted. See Table 1 for more information.

Approximate Scale in Feet

0 200 400

Figure 2
Radiological Concentrations in Groundwater
May 2009

Former Canoga Park Facility
8433 Fallbrook Ave., Canoga Park, California

OTIE
Oneida Total Integrated Enterprises

Date: July 17, 2009

File: Canoga_Rad.dwg

Tables

Table 1
Radiological Sampling Results
Former Canoga Park Facility, Canoga Park, California

					TDS SM2540C	Gross Alpha[2] EPA 900.0 or SM 7110C				Gross Beta EPA 900.0				Radium-226 EPA 903.1			Radium-228 EPA 904.0			Radium-226 + Radium-228		
Well ID	Sample ID	Sample Type	Sample Date	Sample Prep	Results (mg/L)	MCL (pCi/L)	Results (pCi/L)	Adjusted Results[1] (pCi/L)	Results Adjusted for Uranium[4] (pCi/L)	MCL[3] (mrem/yr)	MCL (pCi/L)	Results (pCi/L)	Adjusted Results[1] (pCi/L)	MCL (pCi/L)	Results (pCi/L)	Adjusted Results[1] (pCi/L)	MCL (pCi/L)	Results (pCi/L)	Adjusted Results[1] (pCi/L)	MCL (pCi/L)	Results (pCi/L)	Adjusted Results[1] (pCi/L)
MW-16	CP-0905001	N	05/27/09	Unfiltered	1300	15	35.0	38.65	38.22 J	4.0	20,000	6.33	7.09	n/a	4.88 U	5.321 U	n/a	2.2 UJ	2.66 UJ	5.0	4.88 U	5.321 U
	CP-0905002	N	05/27/09	Filtered	1300	15	34.9	38.55	37.99 J	4.0	20,000	6.52	7.24	n/a	5.51 U	5.972 U	n/a	4.46 UJ	5.08 UJ	5.0	5.51 U	5.972 U
	CP-0905023	FD	05/27/09	Unfiltered	1330	15	26.3	29.69	29.22 J	4.0	20,000	5.93 U	6.66 U	n/a	5.55 U	6.012 U	n/a	4.86 UJ	5.52 UJ	5.0	5.55 U	6.012 U
	CP-0905024	FD	05/27/09	Filtered	1290	15	32.7	36.50	36.15	4.0	20,000	5.03 U	5.69 U	n/a	6.29 U	6.787 U	n/a	4.07 UJ	4.68 UJ	5.0	6.29 U	6.787 U
MW-19S	CP-0905003	N	05/26/09	Unfiltered	1640	15	2.48 J	3.87 J	0.70 J	4.0	20,000	3.3 J	4.77 J	n/a	0.296 U	0.558 U	n/a	2.31	2.81	5.0	2.46	3.09
	CP-0905004	N	05/26/09	Filtered	1690	15	6.04	7.67	3.69 J	4.0	20,000	5.73	7.62	n/a	0.222 U	0.463 U	n/a	0.369 U	0.71 U	5.0	0.369 U	0.71 U
CM-8D	CP-0905005	N	05/27/09	Unfiltered	2320	15	32.1	35.72	-45.84 J	4.0	20,000	21.60	22.88	n/a	2.04 U	2.362 U	n/a	0.547 UJ	0.86 UJ	5.0	2.04 U	2.362 U
	CP-0905006	N	05/27/09	Filtered	2330	15	30.1	33.49	-25.89 J	4.0	20,000	12.20	13.55	n/a	4.44 U	4.863 U	n/a	0.293 UJ	0.58 UJ	5.0	4.44 U	4.863U
MW-20D	CP-0905007	N	05/26/09	Unfiltered	2420	15	49.6	54.35	53.86 J	4.0	20,000	7.22	9.33	n/a	9.61	10.23	n/a	1.04 J	1.46 J	5.0	10.65 J	11.69 J
	CP-0905008	N	05/26/09	Filtered	2350	15	42.0	45.97	45.43 J	4.0	20,000	7.99	10.30	n/a	9.98	10.61	n/a	0.978 J	1.36 J	5.0	10.958 J	11.98 J
MW-21S	CP-0905009	N	05/26/09	Unfiltered	2910	15	19.7	22.65	-8.41 J	4.0	20,000	14.10	17.12	n/a	0.148 U	0.355 U	n/a	0.116 U	0.38 U	5.0	0.148 U	0.38 U
	CP-0905010	N	05/26/09	Filtered	2050	15	20.0	22.73	-34.69 J	4.0	20,000	11.40	13.32	n/a	0.182 U	0.392 U	n/a	0.931 J	1.31 J	5.0	1.02 J	1.51 J
MW-21D	CP-0905011	N	05/26/09	Unfiltered	2260	15	59.8	64.89	61.12 J	4.0	20,000	6.86 J	9.38 J	n/a	15.40	16.12	n/a	2.03	2.50	5.0	17.43	18.62
	CP-0905012	N	05/26/09	Filtered	2260	15	49.4	54.09	53.55 J	4.0	20,000	7.28	9.94	n/a	7.31	7.79	n/a	0.71 J	1.06 J	5.0	8.02 J	8.85 J
CM-9D	CP-0905013	N	05/27/09	Unfiltered	2320	15	30.1	34.07	-24.59	4.0	20,000	26.50	27.96	n/a	1.3 U	1.597 U	n/a	1.6 UJ	2.01 UJ	5.0	1.6 UJ	2.01 UJ
	CP-0905014	N	05/27/09	Filtered	2340	15	39.3	43.15	-24.56	4.0	20,000	19.20	20.39	n/a	0.775 U	1.030 U	n/a	2.14 UJ	2.61 UJ	5.0	2.14 UJ	2.61 UJ
CM-10	CP-0905015	N	05/26/09	Unfiltered	3390	15	51.6	56.09	-16.01 J	4.0	20,000	-4.16 U	-2.60 U	n/a	0.083 U	0.322 U	n/a	0.517 U	0.86 U	5.0	0.517 U	0.86 U
	CP-0905016	N	05/26/09	Filtered	3440	15	46.3	50.86	-75.64 J	4.0	20,000	30.50	33.62	n/a	0.209 U	0.443 U	n/a	0.17	0.47	5.0	0.27	0.69
CM-12	CP-0905017	N	05/27/09	Unfiltered	1790	15	16.9	19.59	-20.92	4.0	20,000	0.375 U	0.908 U	n/a	2.14 U	2.441 U	n/a	2.51 UJ	3.01 UJ	5.0	2.51 UJ	3.01 UJ
	CP-0905018	N	05/27/09	Filtered	975	15	13.2	15.47	-10.24	4.0	20,000	7.83	8.51	n/a	0.44 U	0.695 U	n/a	1.64 UJ	2.07 UJ	5.0	1.64 UJ	2.07 UJ
CM-17	CP-0905019	N	05/26/09	Unfiltered	2730	15	20.9	23.87	-14.77 J	4.0	20,000	18.50	20.18	n/a	1.27	1.60	n/a	0.633 U	1.01 U	5.0	1.59	2.11
	CP-0905020	N	05/26/09	Filtered	2760	15	17.2	19.77	-5.46 J	4.0	20,000	11.00	12.93	n/a	0.414 U	0.660 U	n/a	0.567 U	0.91 U	5.0	0.567 U	0.91 U
	CP-0905025	FD	05/26/09	Unfiltered	2680	15	26.9	30.31	9.71 J	4.0	20,000	22.90	25.97	n/a	0.615 J	0.885 J	n/a	1.08	1.47	5.0	1.695 J	2.36 J
	CP-0905026	FD	05/26/09	Filtered	2720	15	20.1	22.88	0.48 J	4.0	20,000	8.32	10.55	n/a	0.328 U	0.539 U	n/a	- 0.09 U	0.19 U	5.0	0.328 U	0.539 U
CM-18	CP-0905021	N	05/27/09	Unfiltered	2350	15	28.3	31.67	-43.85	4.0	20,000	52.80	54.77	n/a	1 U	1.277 U	n/a	2.51 UJ	3.01 UJ	5.0	2.51 UJ	3.01 UJ
	CP-0905022	N	05/27/09	Filtered	2350	15	45.0	49.10	-10.63	4.0	20,000	26.70	28.04	n/a	0.662 U	0.892 U	n/a	1.37 UJ	1.81 UJ	5.0	1.37 UJ	1.81 UJ
n/a	CP-0905027	EB	05/26/09	Unfiltered	14	15	0.046 U	0.672 U	--	4.0	20,000	0.59 U	1.161 U	n/a	0.063 U	0.278 U	n/a	0.092 U	0.38 U	5.0	0.092 U	0.38 U
n/a	CP-0905028	EB	05/27/09	Unfiltered	14	15	-0.469 U	0.343 U	--	4.0	20,000	1.25 J	1.892 J	n/a	1.83	2.14	n/a	1.09 J	1.52 J	5.0	2.92 J	3.66 J

Notes:

1. Adjusted Results = Uranium result + (0.84 * reported counting error)
2. Samples CP-0905027 and CP-0905028 were analyzed for Gross Alpha by EPA 900.0. All other samples by SM7110C.
3. (mrem/yr) results were calculated using = (results in pCi/L /20,000 pCi/yr for total body emission)* 4 mrem/yr
4. Gross Alpha results were adjusted by subtracting the total uranium value prior to comparison to the MCL value, per CDPH http://www.cdph.ca.gov/certlic/drinkingwater/Pages/Chemicalcontaminants.aspx.
5. MCL - Maximum Contaminant Level
6. pCi/L - picocuries per liter
7. mrem/yr - millirem per year
8. mg/L - milligrams per liter
9. TDS - Total Dissolved Solids
10. n/a - MCL values were not established for these analytes
11. N - Normal sample; FD - Field duplicate; EB - Equipment blank
12. Indicates that the reported result exceeded MCLs
13. U - undetected at concentration shown
14. J - estimated value

Table 1
Radiological Sampling Results
Former Canoga Park Facility, Canoga Park, California

					Total Uranium EPA 908.0			Isotopic Uranium NTIS 7500-UC-00					
Well ID	Sample ID	Sample Type	Sample Date	Sample Prep	MCL (pCi/L)	Results (pCi/L)	Adjusted Results[1] (pCi/L)	Uranium-234 (pCi/L)	Adjusted Results[1] (pCi/L)	Uranium-235 (pCi/L)	Adjusted Results[1] (pCi/L)	Uranium-238 (pCi/L)	Adjusted Results[1] (pCi/L)
MW-16	CP-0905001	N	05/27/09	Unfiltered	20	0.648 UJ	0.86 UJ	--	--	--	--	--	--
	CP-0905002	N	05/27/09	Filtered	20	0.789 UJ	1.107 UJ	--	--	--	--	--	--
	CP-0905023	FD	05/27/09	Unfiltered	20	0.657 UJ	0.952 UJ	--	--	--	--	--	--
	CP-0905024	FD	05/27/09	Filtered	20	0.476 U	0.687 U	--	--	--	--	--	--
MW-19S	CP-0905003	N	05/26/09	Unfiltered	20	2.44 J	3.17 J	--	--	--	--	--	--
	CP-0905004	N	05/26/09	Filtered	20	3.12 J	3.98 J	--	--	--	--	--	--
CM-8D	CP-0905005	N	05/27/09	Unfiltered	20	70.3 J	81.56 J	29.2	31.53	1.23	1.53	28.00	30.25
	CP-0905006	N	05/27/09	Filtered	20	51.1 J	59.38 J	30.1	32.66	1.24	1.57	28.90	31.37
MW-20D	CP-0905007	N	05/26/09	Unfiltered	20	0.766 UJ	0.971 UJ	--	--	--	--	--	--
	CP-0905008	N	05/26/09	Filtered	20	0.776 UJ	1.08 UJ	--	--	--	--	--	--
MW-21S	CP-0905009	N	05/26/09	Unfiltered	20	26.5 J	31.06 J	24.6	26.75	1.34	1.67	25.40	27.61
	CP-0905010	N	05/26/09	Filtered	20	49.3 J	57.42 J	19.0	20.63	0.75	0.98	19.10	20.73
MW-21D	CP-0905011	N	05/26/09	Unfiltered	20	3.11 J	3.77 J	--	--	--	--	--	--
	CP-0905012	N	05/26/09	Filtered	20	0.791 UJ	1.07 UJ	--	--	--	--	--	--
CM-9D	CP-0905013	N	05/27/09	Unfiltered	20	50.5	58.66	28.8	31.18	1.14	1.44	25.50	27.64
	CP-0905014	N	05/27/09	Filtered	20	58.3	67.71	29.9	32.24	1.22	1.52	27.10	29.25
CM-10	CP-0905015	N	05/26/09	Unfiltered	20	62.1 J	72.1 J	35.4	38.86	1.59	2.03	37.60	41.24
	CP-0905016	N	05/26/09	Filtered	20	109 J	126.5 J	36.0	39.49	1.93	2.42	36.40	39.93
CM-12	CP-0905017	N	05/27/09	Unfiltered	20	34.8	40.51	20.5	22.36	0.85	1.12	17.80	19.46
	CP-0905018	N	05/27/09	Filtered	20	22.0	25.71	12.7	13.94	0.40	0.57	11.70	12.87
CM-17	CP-0905019	N	05/26/09	Unfiltered	20	33.1 J	38.64 J	12.2	13.80	0.48	0.74	11.70	13.25
	CP-0905020	N	05/26/09	Filtered	20	21.5 J	25.23 J	12.0	13.18	0.58	0.80	12.40	13.60
	CP-0905025	FD	05/26/09	Unfiltered	20	17.5 J	20.6 J	23.5	25.56	1.00	1.28	24.10	26.21
	CP-0905026	FD	05/26/09	Filtered	20	19.1 J	22.4 J	18.2	19.83	0.66	0.88	18.70	20.36
CM-18	CP-0905021	N	05/27/09	Unfiltered	20	65.1	75.52	12.0	13.28	0.66	0.90	11.80	13.06
	CP-0905022	N	05/27/09	Filtered	20	51.4	59.72	12.3	13.70	0.36	0.56	11.50	12.83
n/a	CP-0905027	EB	05/26/09	Unfiltered	20	0.66 UJ	0.89 UJ	--	--	--	--	--	--
n/a	CP-0905028	EB	05/27/09	Unfiltered	20	0.608 U	0.86 U	--	--	--	--	--	--

Notes:

1. Adjusted Results = Uranium result + (0.84 * reported counting error)
2. Samples CP-0905027 and CP-0905028 were analyzed for Gross Alpha by EPA 900.0. All other samples by SM7110C.
3. (mrem/yr) results were calculated using = (results in pCi/L /20,000 pCi/yr for total body emission)* 4 mrem/yr
4. Gross Alpha results were adjusted by subtracting the total uranium value prior to comparison to the MCL value, per CDPH http://www.cdph.ca.gov/certlic/drinkingwater/Pages/Chemicalcontaminants.aspx.
5. MCL - Maximum Contaminant Level
6. pCi/L - picocuries per liter
7. mrem/yr - millirem per year
8. mg/L - milligrams per liter
9. TDS - Total Dissolved Solids
10. n/a - MCL values were not established for these analytes
11. N - Normal sample; FD - Field duplicate; EB - Equipment blank
12. Indicates that the reported result exceeded MCLs
13. U - undetected at concentration shown
14. J - estimated value

Table 2
Relative Mass Ratios of Uranium Isotopes in Groundwater, May 2009
Former Canoga Park Facility, Canoga Park, California

Monitoring Well	Sample ID	Micro Filter	U-234 Activity from Laboratory Analysis (pCi/L)	Convert pCi/L to µg/L*	U-234 Mass Concentration (µg/L)	U-235 Activity from Laboratory Analysis (pCi/L)	Convert pCi/L to µg/L*	U-235 Mass Concentration (µg/L)	U-238 Activity from Laboratory Analysis (pCi/L)	Convert pCi/L to µg/L*	U-238 Mass Concentration (µg/L)	Total Combined Mass Concentration (ug/L)	Relative % U-234 (U-238 mass conc. / total mass conc.)	Relative % U-235 (U-235 mass conc. / total mass conc.)	Relative % U-238 (U-238 mass conc. / total mass conc.)	Totals %
MW-16	CP-0905001	Unfiltered	n/a	6216.22	--	n/a	2.16	--	n/a	0.335	--	--	--	--	--	--
	CP-0905002	Filtered	n/a	6216.22	--	n/a	2.16	--	n/a	0.335	--	--	--	--	--	--
MW-16 (DUP)	CP-0905023	Unfiltered	n/a	6216.22	--	n/a	2.16	--	n/a	0.335	--	--	--	--	--	--
	CP-0905024	Filtered	n/a	6216.22	--	n/a	2.16	--	n/a	0.335	--	--	--	--	--	--
MW-19S	CP-0905003	Unfiltered	n/a	6216.22	--	n/a	2.16	--	n/a	0.335	--	--	--	--	--	--
	CP-0905004	Filtered	n/a	6216.22	--	n/a	2.16	--	n/a	0.335	--	--	--	--	--	--
CM-8D	CP-0905005	Unfiltered	29.2	6216.22	0.00470	1.23	2.16	0.57	28	0.335	83.58	84.16	0.0056%	0.6767%	99.3178%	100.00%
	CP-0905006	Filtered	30.1	6216.22	0.00484	1.24	2.16	0.57	28.9	0.335	86.27	86.85	0.0056%	0.6610%	99.3334%	100.00%
MW-20D	CP-0905007	Unfiltered	n/a	6216.22	--	n/a	2.16	--	n/a	0.335	--	--	--	--	--	--
	CP-0905008	Filtered	n/a	6216.22	--	n/a	2.16	--	n/a	0.335	--	--	--	--	--	--
MW-21S	CP-0905009	Unfiltered	24.6	6216.22	0.00396	1.34	2.16	0.62	25.4	0.335	75.82	76.45	0.0052%	0.8115%	99.1833%	100.00%
	CP-0905010	Filtered	19	6216.22	0.00306	0.745	2.16	0.34	19.1	0.335	57.01	57.36	0.0053%	0.6013%	99.3934%	100.00%
MW-21D	CP-0905011	Unfiltered	n/a	6216.22	--	n/a	2.16	--	n/a	0.335	--	--	--	--	--	--
	CP-0905012	Filtered	n/a	6216.22	--	n/a	2.16	--	n/a	0.335	--	--	--	--	--	--
CM-9D	CP-0905013	Unfiltered	28.8	6216.22	0.00463	1.14	2.16	0.53	25.5	0.335	76.12	76.65	0.0060%	0.6885%	99.3054%	100.00%
	CP-0905014	Filtered	29.9	6216.22	0.00481	1.22	2.16	0.56	27.1	0.335	80.90	81.47	0.0059%	0.6933%	99.3008%	100.00%
CM-10	CP-0905015	Unfiltered	35.4	6216.22	0.00569	1.59	2.16	0.74	37.6	0.335	112.24	112.98	0.0050%	0.6515%	99.3434%	100.00%
	CP-0905016	Filtered	36	6216.22	0.00579	1.93	2.16	0.89	36.4	0.335	108.66	109.56	0.0053%	0.8156%	99.1791%	100.00%
CM-12	CP-0905017	Unfiltered	20.5	6216.22	0.00330	0.852	2.16	0.39	17.8	0.335	53.13	53.53	0.0062%	0.7368%	99.2570%	100.00%
	CP-0905018	Filtered	12.7	6216.22	0.00204	0.398	2.16	0.18	11.7	0.335	34.93	35.11	0.0058%	0.5248%	99.4694%	100.00%
CM-17	CP-0905019	Unfiltered	12.2	6216.22	0.00196	0.481	2.16	0.22	11.7	0.335	34.93	35.15	0.0056%	0.6335%	99.3609%	100.00%
	CP-0905020	Filtered	12	6216.22	0.00193	0.584	2.16	0.27	12.4	0.335	37.01	37.29	0.0052%	0.7251%	99.2697%	100.00%
CM-17 (DUP)	CP-0905025	Unfiltered	23.5	6216.22	0.00378	0.996	2.16	0.46	24.1	0.335	71.94	72.41	0.0052%	0.6368%	99.3579%	100.00%
	CP-0905026	Filtered	18.2	6216.22	0.00293	0.656	2.16	0.30	18.7	0.335	55.82	56.13	0.0052%	0.5411%	99.4537%	100.00%
CM-18	CP-0905021	Unfiltered	12	6216.22	0.00193	0.657	2.16	0.30	11.8	0.335	35.22	35.53	0.0054%	0.8561%	99.1385%	100.00%
	CP-0905022	Filtered	12.3	6216.22	0.00198	0.362	2.16	0.17	11.5	0.335	34.33	34.50	0.0057%	0.4858%	99.5085%	100.00%
												Average Site Ratios	**0.0055%**	**0.6712%**	**99.3233%**	100.00%
												Typical Natural Isotopic Mass Ratios*	0.0055%	0.7200%	99.2700%	100.00%
												Typical Commercial Grade Enriched Uranium Isotopic Mass Ratios*	0.0300%	2.9600%	97.0100%	100.00%
												Typical Depleted Uranium Isotopic Mass Ratios*	0.0007%	0.2000%	99.8000%	100.00%

Notes:

1. "n/a" = because Total Uranium results did not exceed Maximum Contaminant Level Values, no Isotopic Uranium analysis was conducted on these samples.
2. "--" = Ratios not calculated for samples with non-detectable Uranium U-234 or U-235 Activity Concentrations
3. * = Activity/Mass Conversion Factors (Specific Activity Values Converted from Ci/g to pCi/L) and Typical Isotopic Abundances of Uranium Isotopes from Table 2-1 of DOE-STD-1136-2004, Page 2-2. Conversion calculation provided below:

A. Specific Activity of U-234

$$6.20\text{E-}03\ \frac{\cancel{\text{Ci}}}{\text{g}} \times \frac{1}{1.00\text{E-}12}\ \frac{\text{pCi}}{\cancel{\text{Ci}}} = 6.20\text{E+}09\ \frac{\text{pCi}}{\cancel{\text{g}}} \times \frac{1.00\text{E-}06\ \cancel{\text{g}}}{1\ \mu\text{g}} = \mathbf{6200}\ \frac{\mathbf{pCi}}{\mathbf{\mu g}}$$

B. Specific Activity of U-235

$$2.10\text{E-}06\ \frac{\cancel{\text{Ci}}}{\text{g}} \times \frac{1}{1.00\text{E-}12}\ \frac{\text{pCi}}{\cancel{\text{Ci}}} = 2.10\text{E+}06\ \frac{\text{pCi}}{\cancel{\text{g}}} \times \frac{1.00\text{E-}06\ \cancel{\text{g}}}{1\ \mu\text{g}} = \mathbf{2.10}\ \frac{\mathbf{pCi}}{\mathbf{\mu g}}$$

C. Specific Activity of U-238

$$3.30\text{E-}07\ \frac{\cancel{\text{Ci}}}{\text{g}} \times \frac{1}{1.00\text{E-}12}\ \frac{\text{pCi}}{\cancel{\text{Ci}}} = 3.30\text{E+}05\ \frac{\text{pCi}}{\cancel{\text{g}}} \times \frac{1.00\text{E-}06\ \cancel{\text{g}}}{1\ \mu\text{g}} = \mathbf{0.330}\ \frac{\mathbf{pCi}}{\mathbf{\mu g}}$$

Conversion Factors Used in Table

Bq = Becquerel, g = gram, µg = microgram, L = liter, Ci = Curie, pCi = picoCurie

Table 3
Historical Radiological Concentrations in Groundwater
Former Canoga Park Facility, Canoga Park, California

		Well ID:	CM-8D							CM-9D						CM-10									
		Sample Date:	Sep90	Dec90	Mar91	Jun91	Oct91	Dec91	May09	Sep90	Dec90	Mar91	Jun91	Oct91	May09	Mar90	Mar90[a]	Jun90	Sep90	Dec90	Mar91	Jun91	Oct91	Dec91	May09
Parameter	**Method in May09**	**Units**																							
Gross Alpha	EPA 900.0 or SM 7110C	pCi/L	17 (±22)	36 (±24)	56 (±25)	52 (±21)	37.8	50.1	35.7	28 (±17)	23 (±17)	42 (±19)	50 (±20)	28.3	34.07	236 (±62.1)	73.7 (±27.3)	52.5 (±22.7)	54 (±42)	21 (±22)	46 (±25)	26 (±34)	60.2	48.9	56.1
Gross Beta	EPA 900.0	pCi/L	15 (±16)	25 (±15)	14 (±13)	6 (±13)	27.4	12.9	22.9	14 (±10)	13 (±11)	19 (±11)	5 (±12)	15.8	27.96	59.6 (±17.0)	14.3 (±3.59)	11.4 (±5.82)	36 (±16)	9 (±13)	25 (±15)	-6 (±20)	21.1	24.6	-2.60 U
Radium-226	EPA 903.1	pCi/L	1.3 (±0.5)	1.1 (±0.4)	1.6 (±0.8)	1.2 (±0.5)	< 1.0	0.9	2.36 U	0.3 (±0.4)	0.4 (±0.2)	0.7 (±0.7)	0.8 (±0.5)	<1.0	1.60 U	1.03 (±0.239)	--	0.203 (±0.103)	0.3 (±0.4)	0.2 (±0.4)	0.5 (±0.7)	0.4 (±0.3)	<1.0	<0.5	0.322 U
Radium-228	EPA 904.0	pCi/L	--	--	--	--	< 1.0	<1.0	0.86 UJ	--	--	--	--	<1.0	2.01 UJ	--	--	--	--	--	--	--	<1.0	<1.0	0.86 U
Total Uranium	EPA 908.0	pCi/L	36.6 (±3.7)	44.7 (±4.5)	40.6 (±4.1)	32.5 (±3.3)	54.2	49.8	81.5 J	19.6 (±2.0)	34.5 (±3.5)	52.8 (±5.3)	39.3 (±3.9)	39.7	58.66	176.44 (±49.69)	41.91 (±12.17)	40.4 (±11.56)	60.2 (±6.0)	49.4 (±4.9)	48.7 (±4.9)	2.7 (±0.3)	53.4	53.33	72.1 J
Uranium 234	NTIS 7500-UC-00	pCi/L	--	--	--	--	27.3	25.1	31.53	--	--	--	--	20.2	31.18	--	--	--	--	--	--	--	26	28.8	38.9
Uranium 235	NTIS 7500-UC-00	pCi/L	--	--	--	--	1.03	0.99	1.53	--	--	--	--	0.69	1.44	--	--	--	--	--	--	--	1.06	1.03	2.03
Uranium 238	NTIS 7500-UC-00	pCi/L	--	--	--	--	25.9	23.7	30.25	--	--	--	--	18.8	27.6	--	--	--	--	--	--	--	26.3	26.5	41.2

Notes:

1.) -- = not available/not analyzed
2.) ** = unacceptable tracer recovery
3.) "a" - confirmation sampling results
4.) J = estimated value; U = undetected at concentration shown: pCi/L = picoCuries per liter
5.) The total error has been incorporated in the May09 data presented here.
6.) Pre-2009 data has been tabulated here from a Jun 18,1992 letter from Hughes Missile to LARWQCB.
7.) Results are for unfiltered samples .

Table 3
Historical Radiological Concentrations in Groundwater
Former Canoga Park Facility, Canoga Park, California

		Well ID:	**CM-12**									**CM-17**		**CM-18**		**MW-16**						
		Sample Date:	Mar90	Jun90	Sep90	Dec90	Mar91	Jun91	Oct91	Dec91	May09	Dec91	May09	Dec91	May09	Sep90	Dec90	Mar91	Jun91	Oct91	Dec91	May09
Parameter	**Method in May09**	**Units**																				
Gross Alpha	EPA 900.0 or SM 7110C	pCi/L	29.7 (±13.2)	24.0 (±12.5)	27 (±21)	35 (±18)	37 (±19)	11 (±16)	15.6	25.7	19.6	13	23.9	59.2	31.67	5 (±30)	5 (±15)	15 (±13)	3 (±15)	5.3	9.0	38.65
Gross Beta	EPA 900.0	pCi/L	14.6 (±5.13)	4.65 (±3.91)	9 (±12)	22 (±12)	15 (±10)	3 (±10)	12.3	11.2	0.908 U	13.1	20.2	33.7	54.77	15 (±15)	7 (±10)	14 (±9)	2 (±10)	5.0	8.53	7.1
Radium-226	EPA 903.1	pCi/L	0.946 (±0.228)	0.691 (±0.181)	0.4 (±0.5)	0.7 (±0.3)	0.5 (±0.7)	1.1 (±0.4)	<1.0	<0.5	2.441 U	<0.5	1.6	1.0	1.277 U	2.2 (±0.4)	3.1 (±0.5)	3.0 (±0.8)	4.2 (±0.9)	5.2	4.8	5.321 U
Radium-228	EPA 904.0	pCi/L	--	--	--	--	--	--	<1.0	<1.0	3.01 UJ	<1.0	1.01 U	<1.0	3.01 U	--	--	1.3 (±0.5)	2.9 (±0.6)	1.7	1.84	2.66 UJ
Total Uranium	EPA 908.0	pCi/L	25.08 (±7.23)	19.5 (±5.54)	23.0 (±2.3)	29.1 (±2.9)	24.4 (±2.4)	28.4 (±2.8)	8.3	26.98	40.5	26.43	38.6 J	92.43	75.5	3.4 (±0.34)	0.7 (±0.1)	<0.7	<0.7	<0.6	2.6	0.86 UJ
Uranium 234	NTIS 7500-UC-00	pCi/L	--	--	--	--	--	--	3.57**	13.6	22.4	13.4	13.8	46.5	13.3	--	--	--	--	<0.6	1.46	--
Uranium 235	NTIS 7500-UC-00	pCi/L	--	--	--	--	--	--	<0.6**	0.68	1.12	0.43	0.74	2.03	0.9	--	--	--	--	<0.6	<0.10	--
Uranium 238	NTIS 7500-UC-00	pCi/L	--	--	--	--	--	--	4.77**	12.7	19.5	12.6	13.3	43.9	13.1	--	--	--	--	<0.6	1.14	--

Notes:

1.) -- = not available/not analyzed
2.) ** = unacceptable tracer recovery
3.) "a" - confirmation sampling results
4.) J = estimated value; U = undetected at concentration shown: pCi/L = picoCuries per liter
5.) The total error has been incorporated in the May09 data presented here.
6.) Pre-2009 data has been tabulated here from a Jun 18,1992 letter from Hughes Missile to LARWQCB.
7.) Results are for unfiltered samples .

Table 3
Historical Radiological Concentrations in Groundwater
Former Canoga Park Facility, Canoga Park, California

		Well ID:	MW-19S										MW-20D										
		Sample Date:	Oct90	Nov90	Dec90	Jan91	Feb91	Mar91	Jun91	Oct91	Dec91	May09	Sep90	Oct90	Nov90	Dec90	Jan91	Feb91	Mar91	Jun91	Oct91	0/91 (DUP	Dec91	May09
Parameter	**Method in May09**	**Units**																						
Gross Alpha	EPA 900.0 or SM 7110C	pCi/L	31 (±28)	23 (±40)	12 (±22)	13 (±19)	12 (±25)	31 (±21)	0 (±21)	12.5	16	3.87 J	0 (±24)	2 (±23)	-10 (±35)	4 (±20)	9 (±19)	28 (±20)	28 (±21)	-6 (±15)	15.7	7.2	<4.0	54.35
Gross Beta	EPA 900.0	pCi/L	2 (±17)	-7 (±17)	13 (±16)	3 (±14)	-3 (±21)	22 (±13)	5 (±14)	10.9	10.9	4.77 J	25 (±18)	22 (±17)	0 (±18)	16 (±15)	26 (±16)	14 (±14)	19 (±14)	5 (±11)	6.2	--	4.93	9.33
Radium-226	EPA 903.1	pCi/L	-0.1 (±0.5)	0.5 (±0.4)	2.4 (±0.4)	0.2 (±0.4)	0.0 (±0.4)	-0.1 (±0.7)	0.2 (±0.5)	<1.0	<0.5	< 0.41	0.4 (±0.6)	2.1 (±0.7)	3.7 (±0.5)	2.1 (±0.5)	8.5 (±0.8)	8.4 (±0.8)	3.9 (±0.8)	6.5 (±0.7)	5.3	5.3	--	10.23
Radium-228	EPA 904.0	pCi/L	--	--	--	--	--	--	--	<1.0	<1.0	2.81	--	--	**	--	2.2 (±0.8)	1.1 (±1.9)	0.5 (±0.4)	3.5 (±0.8)	1.6	--	--	1.46 J
Total Uranium	EPA 908.0	pCi/L	23.0 (±2.3)	21.7 (±2.2)	19.0 (±1.9)	12.8 (±1.3)	19 (±1.9)	17.6 (±1.8)	21.6 (±2.2)	27.3	19.23	3.17 J	<0.7	4.1 (±0.4)	<0.7	<0.7	<0.7	4.7 (±0.5)	<0.7	0.7 (±0.1)	--	--	0.37	< 0.59 J
Uranium 234	NTIS 7500-UC-00	pCi/L	--	--	--	--	--	--	--	15.2	10.3	--	--	--	--	--	--	--	--	--	<0.6	<0.6	0.22	--
Uranium 235	NTIS 7500-UC-00	pCi/L	--	--	--	--	--	--	--	0.66	0.3	--	--	--	--	--	--	--	--	--	<0.6	<0.6	<0.10	--
Uranium 238	NTIS 7500-UC-00	pCi/L	--	--	--	--	--	--	--	12.1	8.63	--	--	--	--	--	--	--	--	--	<0.6	<0.6	0.15	--

Notes:

1.) -- = not available/not analyzed
2.) ** = unacceptable tracer recovery
3.) "a" - confirmation sampling results
4.) J = estimated value; U = undetected at concentration shown: pCi/L = picoCuries per liter
5.) The total error has been incorporated in the May09 data presented here.
6.) Pre-2009 data has been tabulated here from a Jun 18,1992 letter from Hughes Missile to LARWQCB.
7.) Results are for unfiltered samples .

Table 3
Historical Radiological Concentrations in Groundwater
Former Canoga Park Facility, Canoga Park, California

		Well ID:	MW-21S											MW-21D										
		Sample Date:	Sep90	Oct90	Nov90	Dec90	Jan91	Feb91	Mar91	Jun91	Oct91	Dec91	May09	Sep90	Oct90	Nov90	Dec90	Jan91	Feb91	Mar91	Jun91	Oct91	Dec91	May09
Parameter	**Method in May09**	**Units**																						
Gross Alpha	EPA 900.0 or SM 7110C	pCi/L	41 (±24)	28 (±22)	22 (±31)	4 (±16)	18 (±16)	25 (±16)	10 (±13)	30 (±22)	16.2	7.3	22.65	2 (±20)	2 (±24)	12 (±36)	6 (±19)	10 (±15)	-2 (±21)	14 (±16)	-14 (±17)	7.6	7.4	64.9
Gross Beta	EPA 900.0	pCi/L	18 (±13)	25 (±13)	7 (±13)	7 (±12)	3 (±11)	0 (±11)	13 (±10)	5 (±10)	7.7	5.35	17.12	13 (±14)	21 (±17)	2 (±16)	11 (±14)	11 (±11)	-2 (±20)	17 (±12)	9 (±14)	14	12.2	9.38 J
Radium-226	EPA 903.1	pCi/L	0.2 (±0.4)	-0.4 (±0.6)	0.0 (±0.4)	-0.2 (±0.3)	0.1 (±0.4)	0.4 (±0.5)	-0.3 (±0.7)	0.3 (±0.5)	<1.0	<0.5	<0.28	0.6 (±0.6)	2.5 (±0.7)	0.0 (±0.3)	1.5 (±0.4)	3.4 (±0.6)	1.1 (±0.6)	4.3 (±0.8)	4.7 (±0.7)	8.2	11.3	16.12
Radium-228	EPA 904.0	pCi/L	--	--	--	--	--	--	--	--	<1.0	<1.0	<0.32	--	--	--	--	1.4 (±0.7)	--	0.6 (±0.5)	6.0 (±2.4)	1.8	1.62	2.51
Total Uranium	EPA 908.0	pCi/L	30.5 (±3.0)	36.5 (±3.6)	29.1 (±2.9)	21.6 (±2.2)	24.4 (±2.4)	23.0 (±2.3)	13.5 (±1.4)	25.0 (±2.5)	22.6	14.56	31.1 J	<0.7	<0.7	<0.7	<0.7	0.7	<0.7	<0.7	<0.7	--	0.63	3.77 J
Uranium 234	NTIS 7500-UC-00	pCi/L	--	--	--	--	--	--	--	--	11.8	7.34	26.75	--	--	--	--	--	--	--	--	<0.6	0.33	--
Uranium 235	NTIS 7500-UC-00	pCi/L	--	--	--	--	--	--	--	--	<0.6	0.24	1.67	--	--	--	--	--	--	--	--	<0.6	<0.10	--
Uranium 238	NTIS 7500-UC-00	pCi/L	--	--	--	--	--	--	--	--	10.8	6.98	27.61	--	--	--	--	--	--	--	--	<0.6	0.3	--

Notes:

1.) -- = not available/not analyzed
2.) ** = unacceptable tracer recovery
3.) "a" - confirmation sampling results
4.) J = estimated value; U = undetected at concentration shown: pCi/L = picoCuries per liter
5.) The total error has been incorporated in the May09 data presented here.
6.) Pre-2009 data has been tabulated here from a Jun 18,1992 letter from Hughes Missile to LARWQCB.
7.) Results are for unfiltered samples .

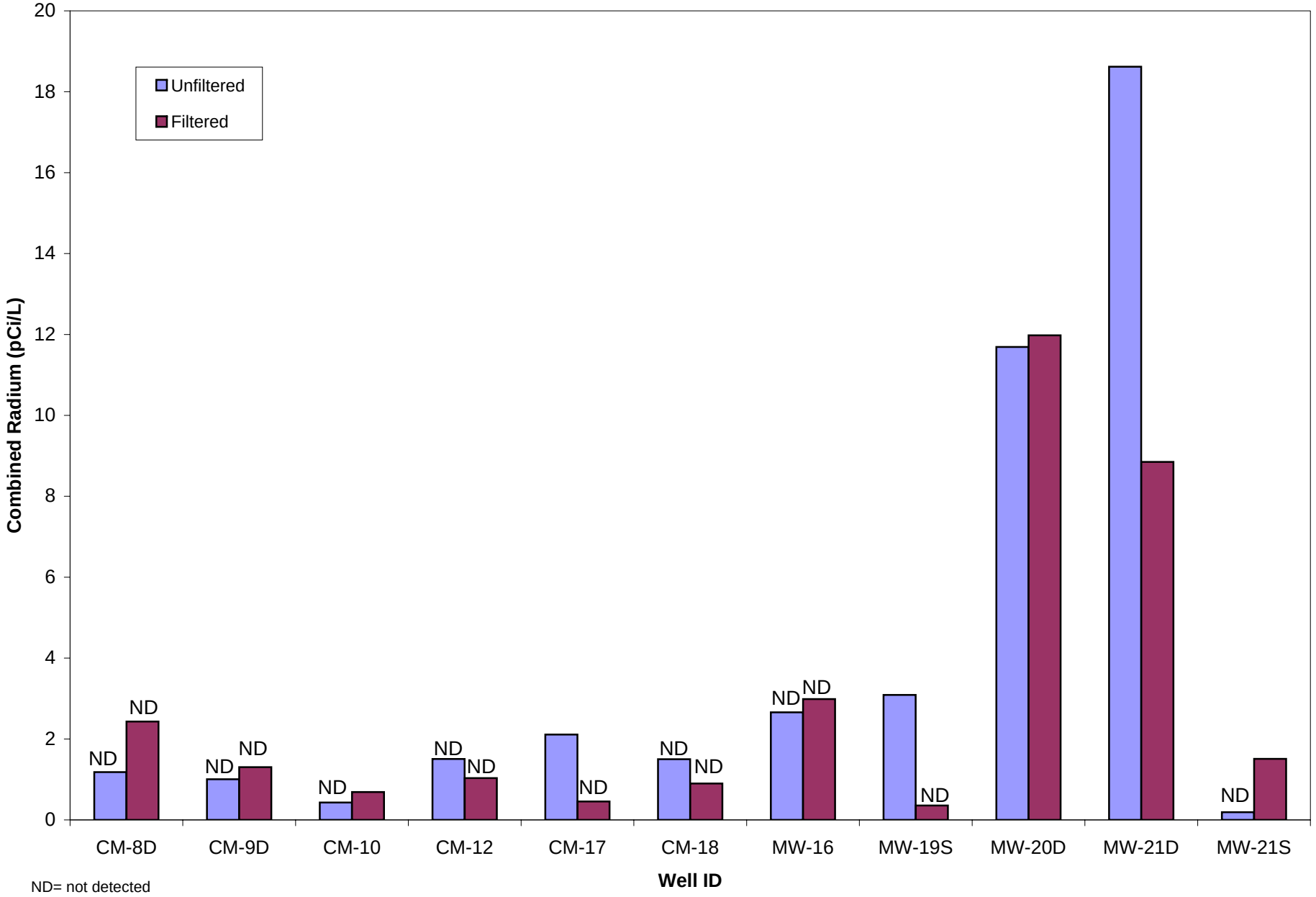
Table 4
Measured Field Parameters in Groundwater, May 2009
Former Canoga Park Facility, Canoga Park, California

Well ID	ORP (mV)	pH	Turbidity (NTU)
CM-8D	-102	8.06	12.6
CM-9D	-10	7.9	55.4
CM-10	189	7.72	15.9
CM-12	-224	8.16	34
CM-17	31	7.93	22.7
CM-18	26	7.94	59.6
MW-16	-366	7.97	8.2
MW-19S	-164	7.81	55.4
MW-20D	-371	8.09	25.9
MW-21D	-372	7.87	45.9
MW-21S	-29	7.75	39.6

Field Parameters collected using a Horiba U22 Flow-Through Water Quality Meter

Graphs

Graph 1
Filtered vs Unfiltered Results, Combined Radium
Former Canoga Park Facility, Canoga Park, California



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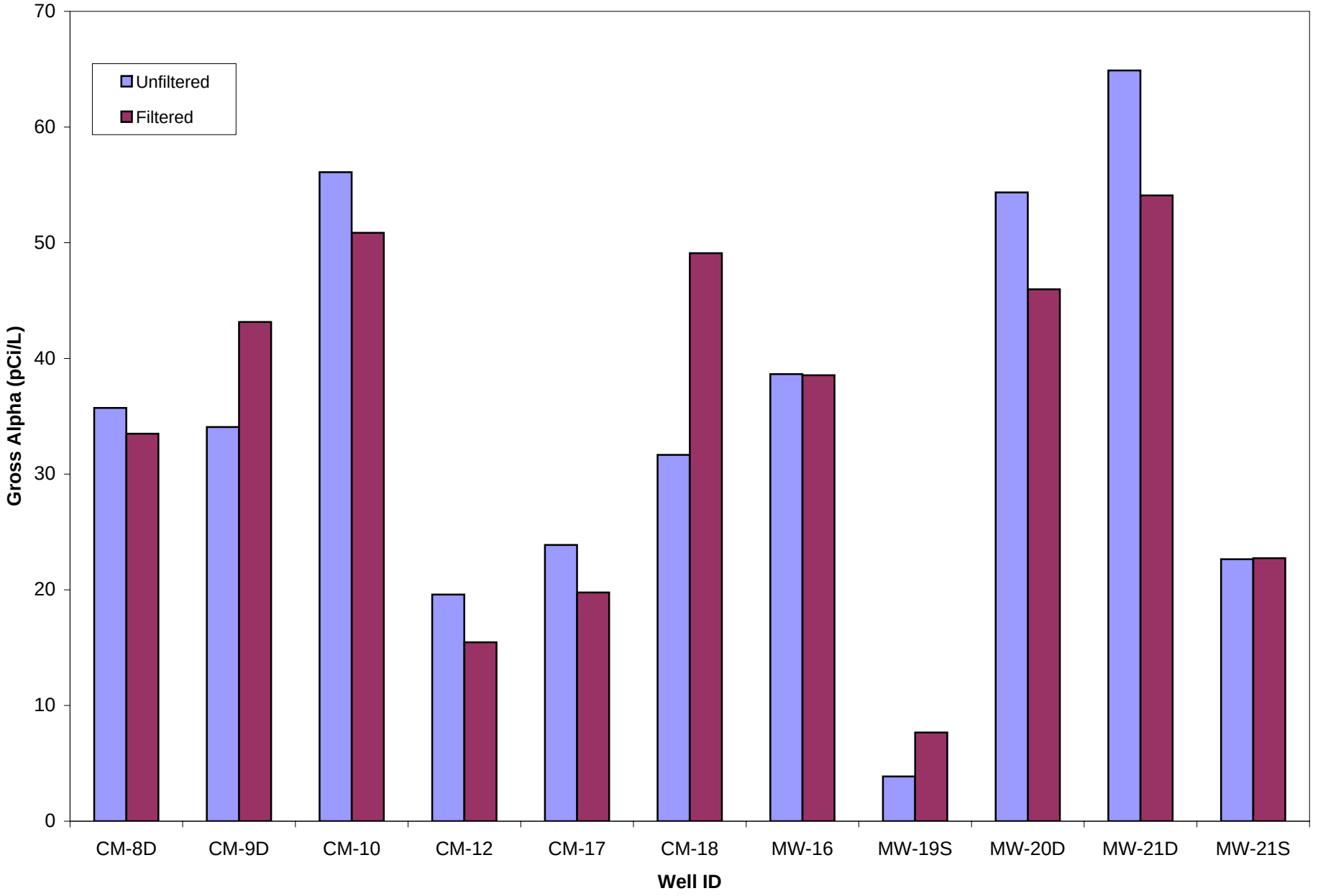
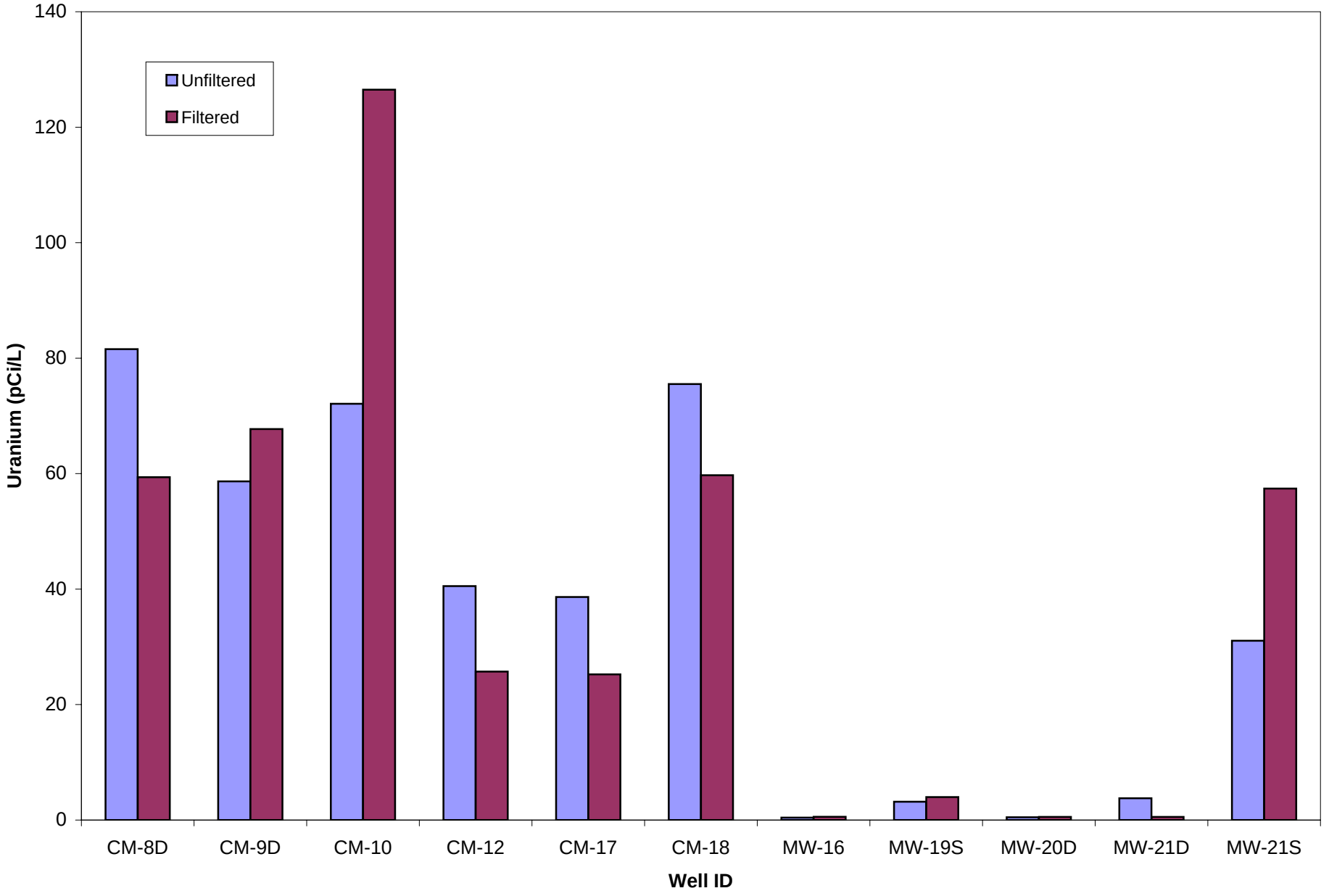
OTIE

Graph 2
Filtered vs Unfiltered Results, Gross Alpha
Former Canoga Park Facility, Canoga Park, California



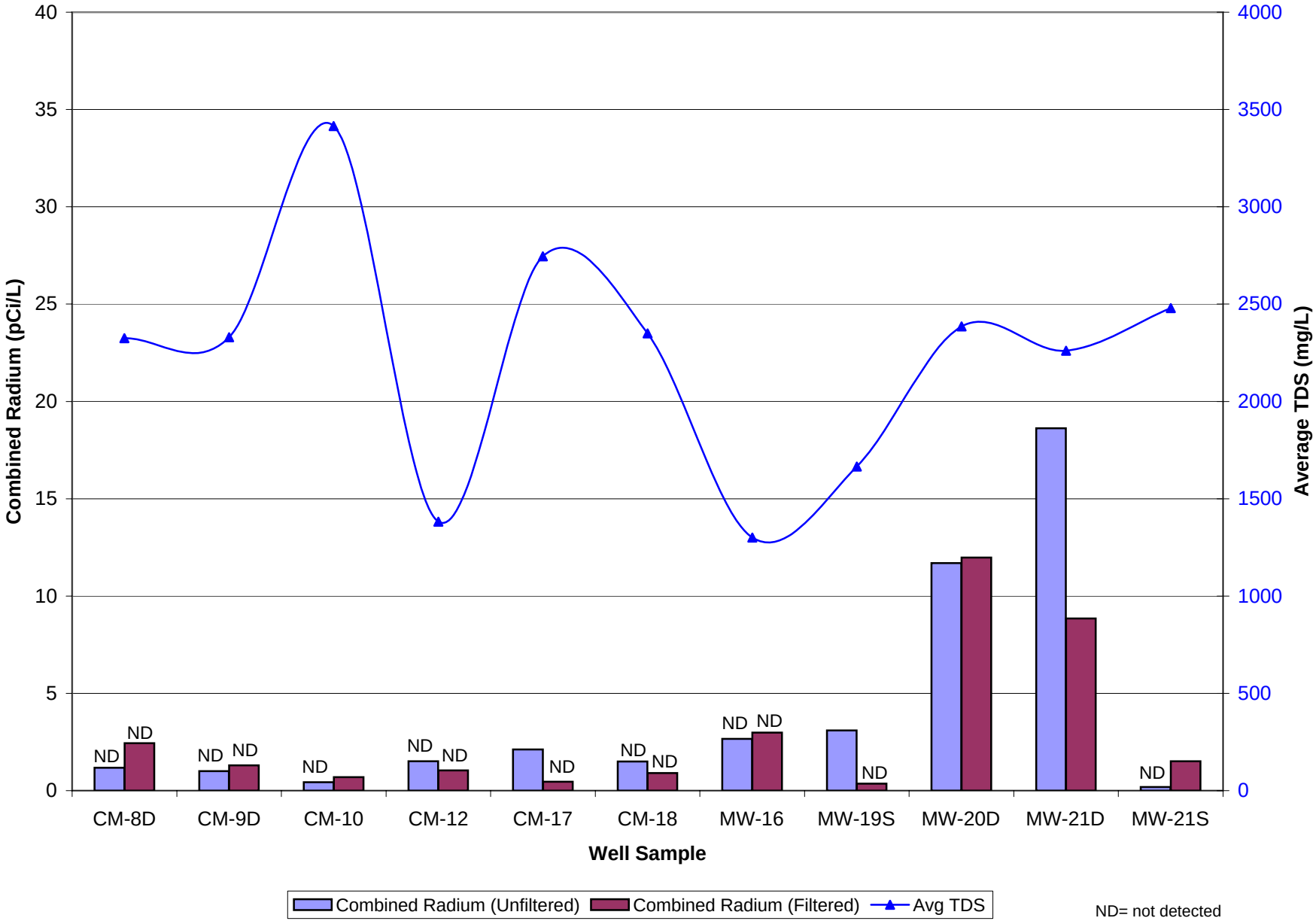
OTIE

Graph 3
Filtered vs Unfiltered Results, Total Uranium
Former Canoga Park Facility, Canoga Park, California



OTIE

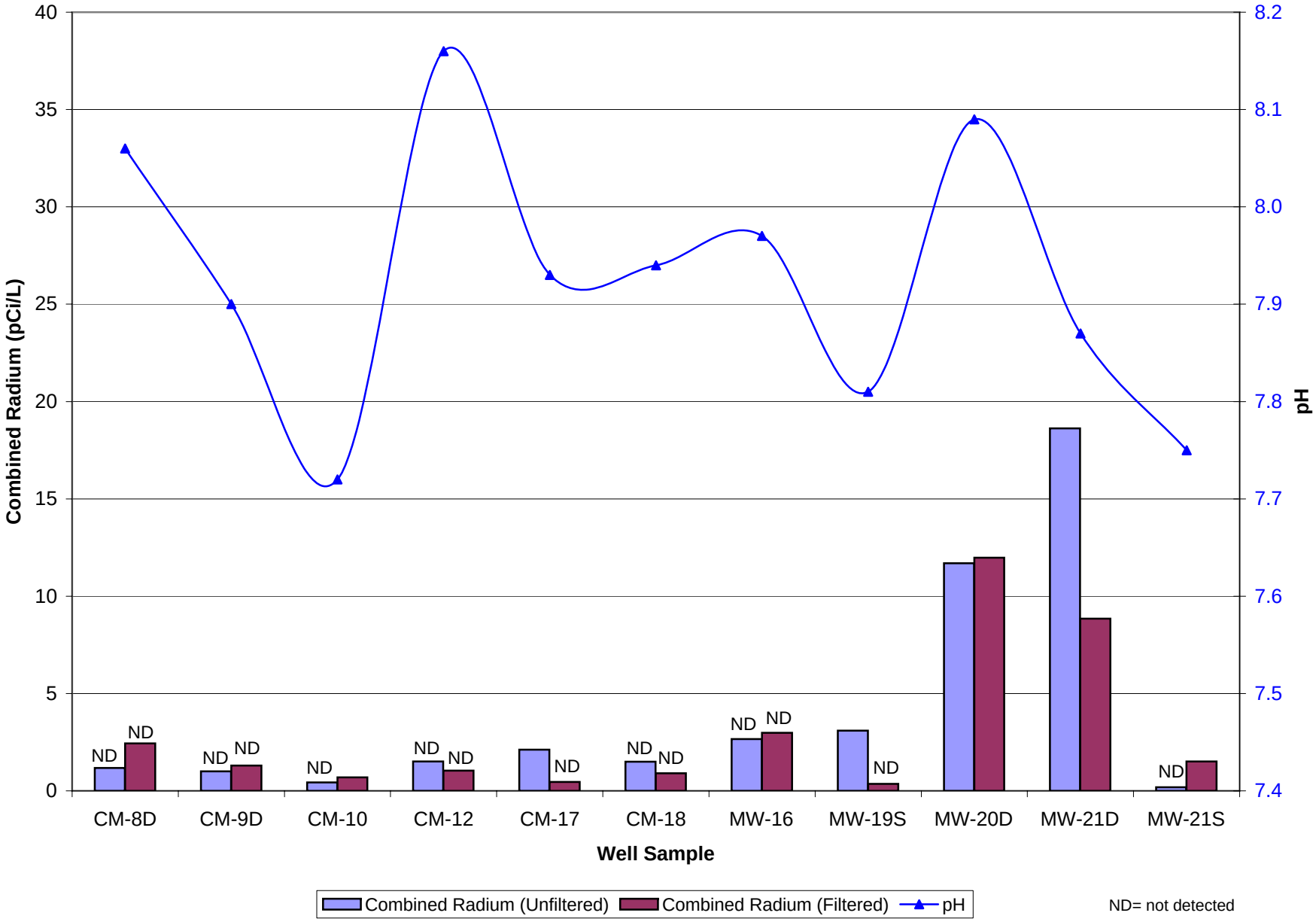
Graph 4a
Combined Radium and Average TDS
Former Canoga Park Facility, Canoga Park, California



ND= not detected

OTIE

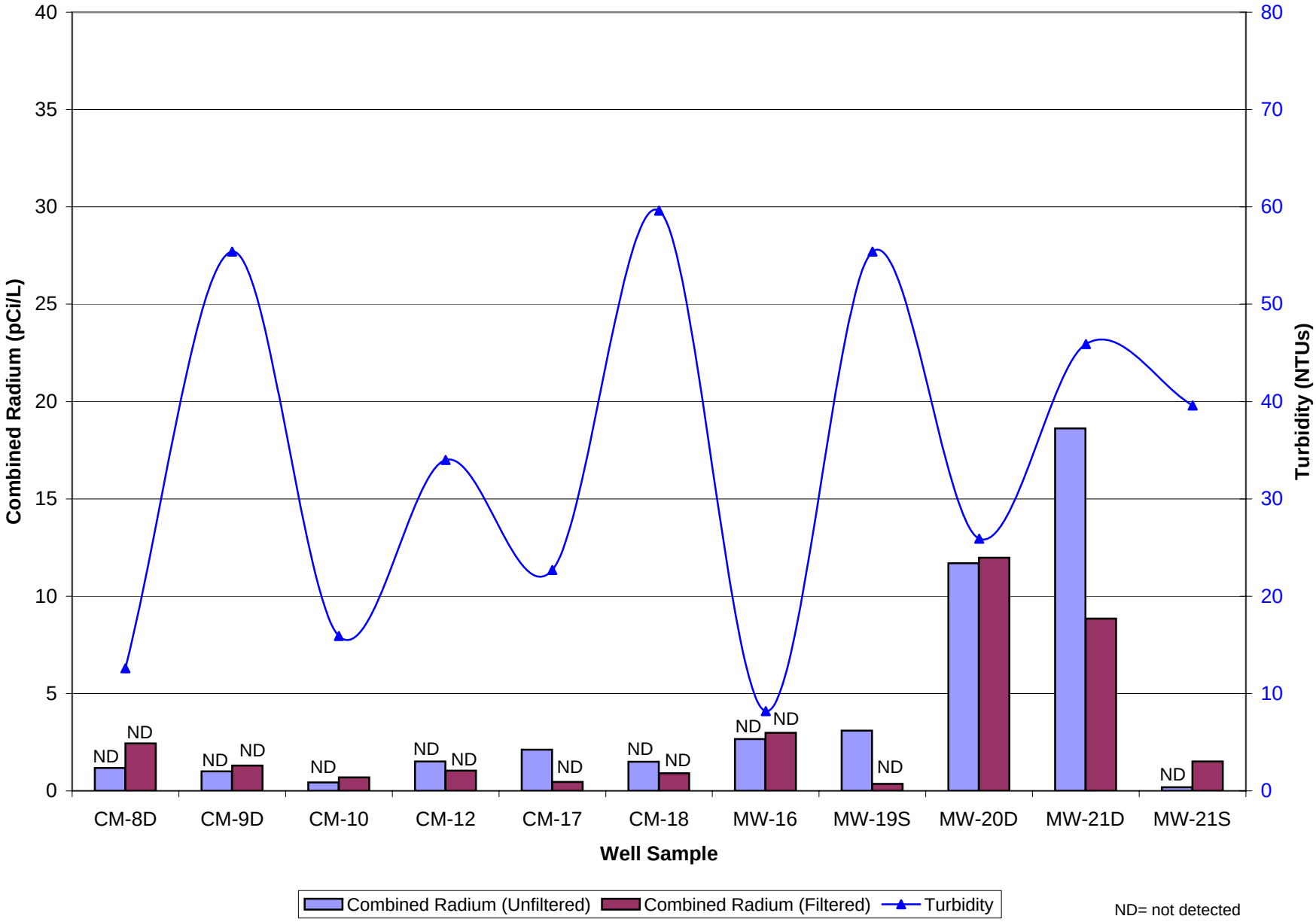
Graph 4b
Combined Radium and pH
Former Canoga Park Facility, Canoga Park, California



ND= not detected

OTIE

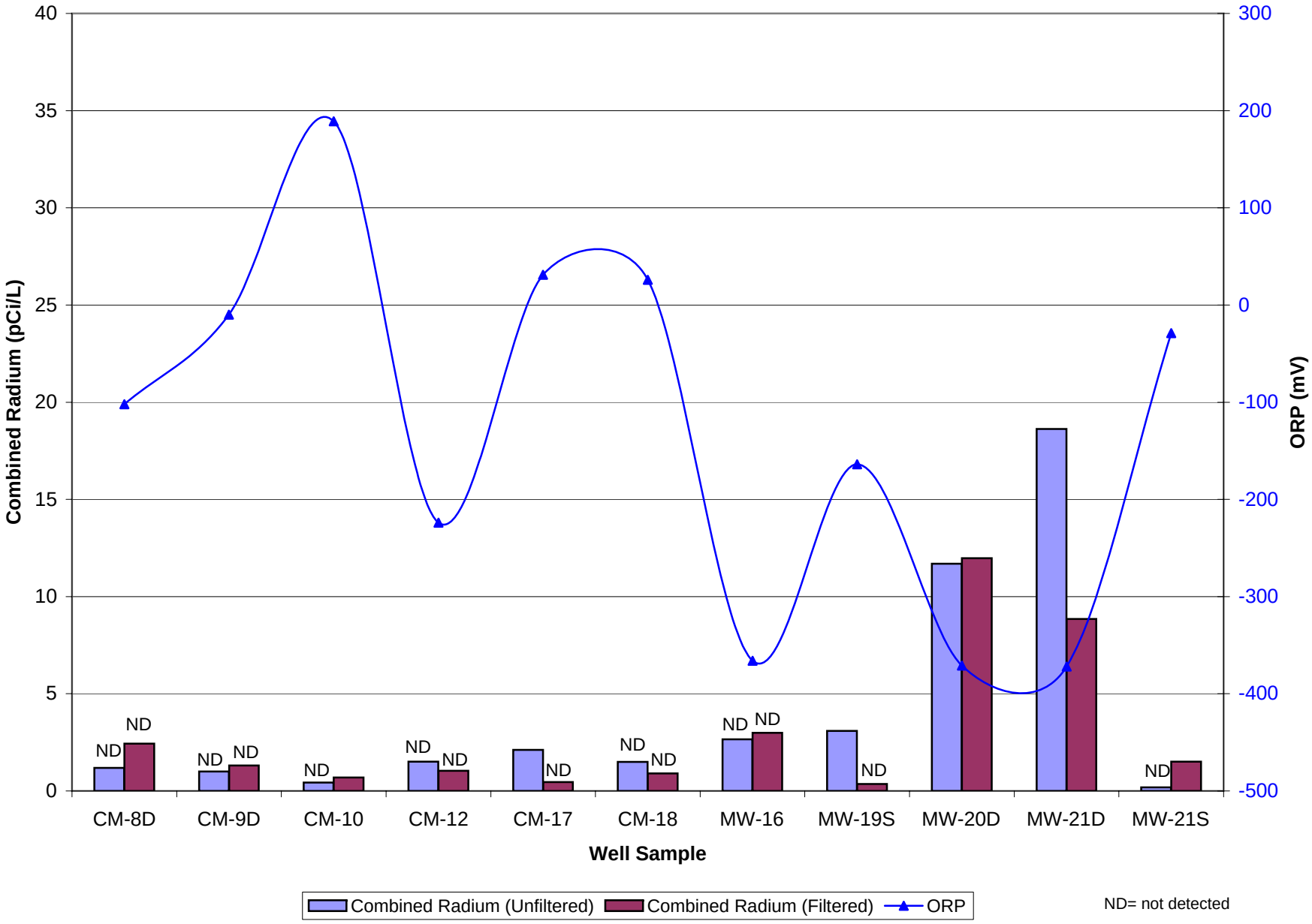
Graph 4c
Combined Radium and Turbidity
Former Canoga Park Facility, Canoga Park, California



ND= not detected

OTIE

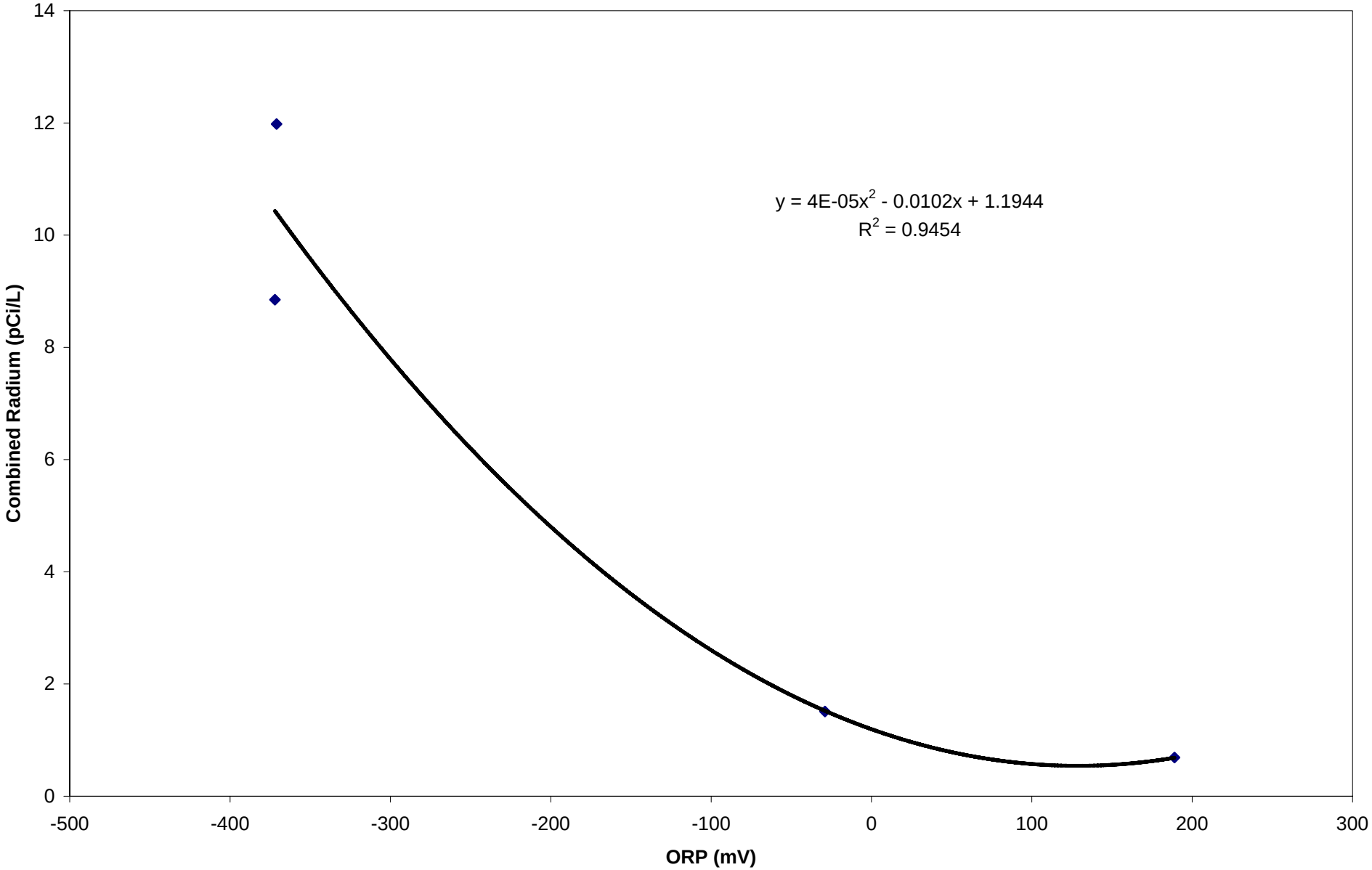
Graph 4d
Combined Radium and Oxidation Reduction Potential (ORP)
Former Canoga Park Facility, Canoga Park, California



ND= not detected

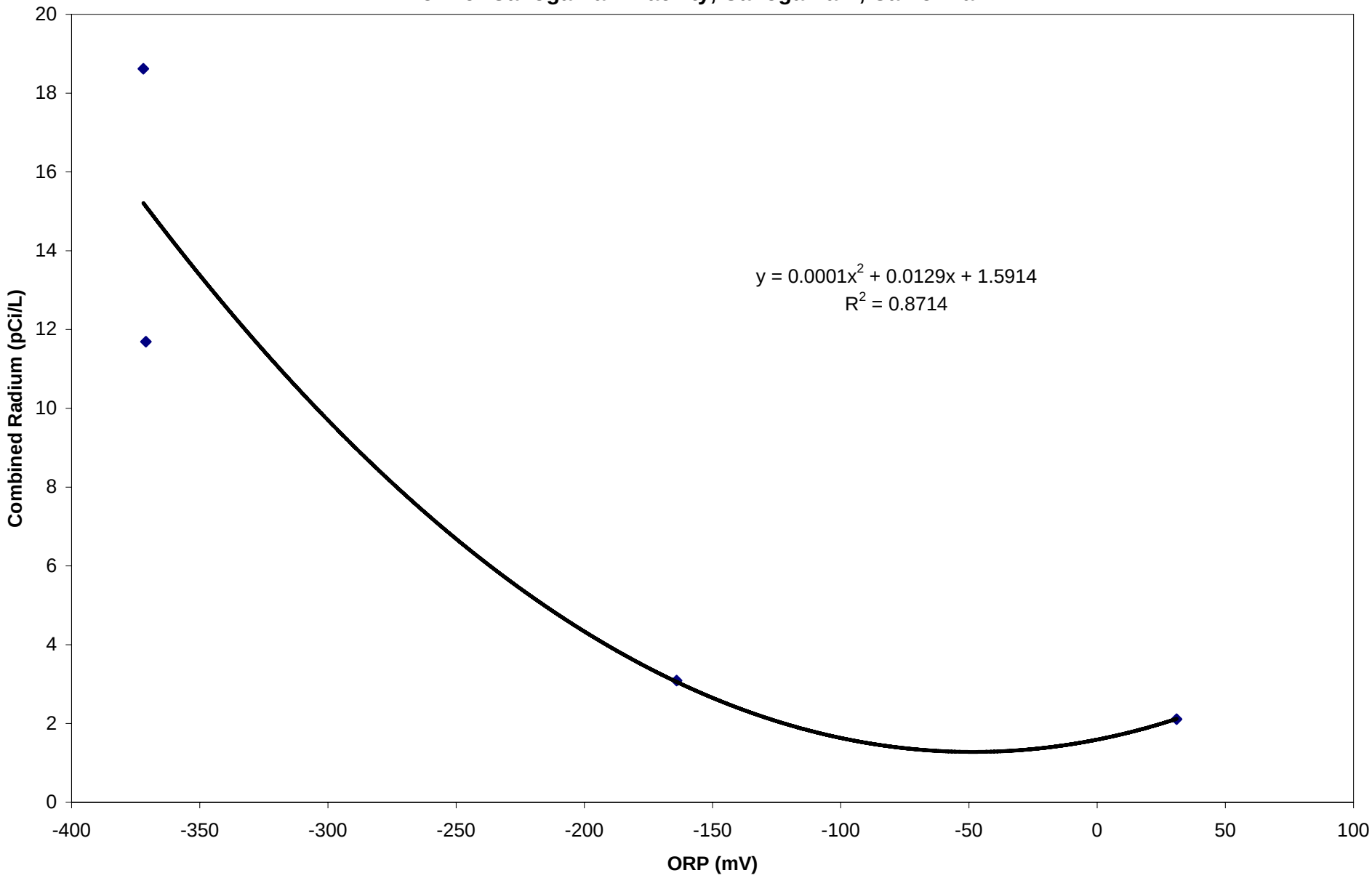
OTIE

Graph 4e
Oxidation Reduction Potential (ORP) vs Detected Combined Radium, Filtered Samples
Former Canoga Park Facility, Canoga Park, California



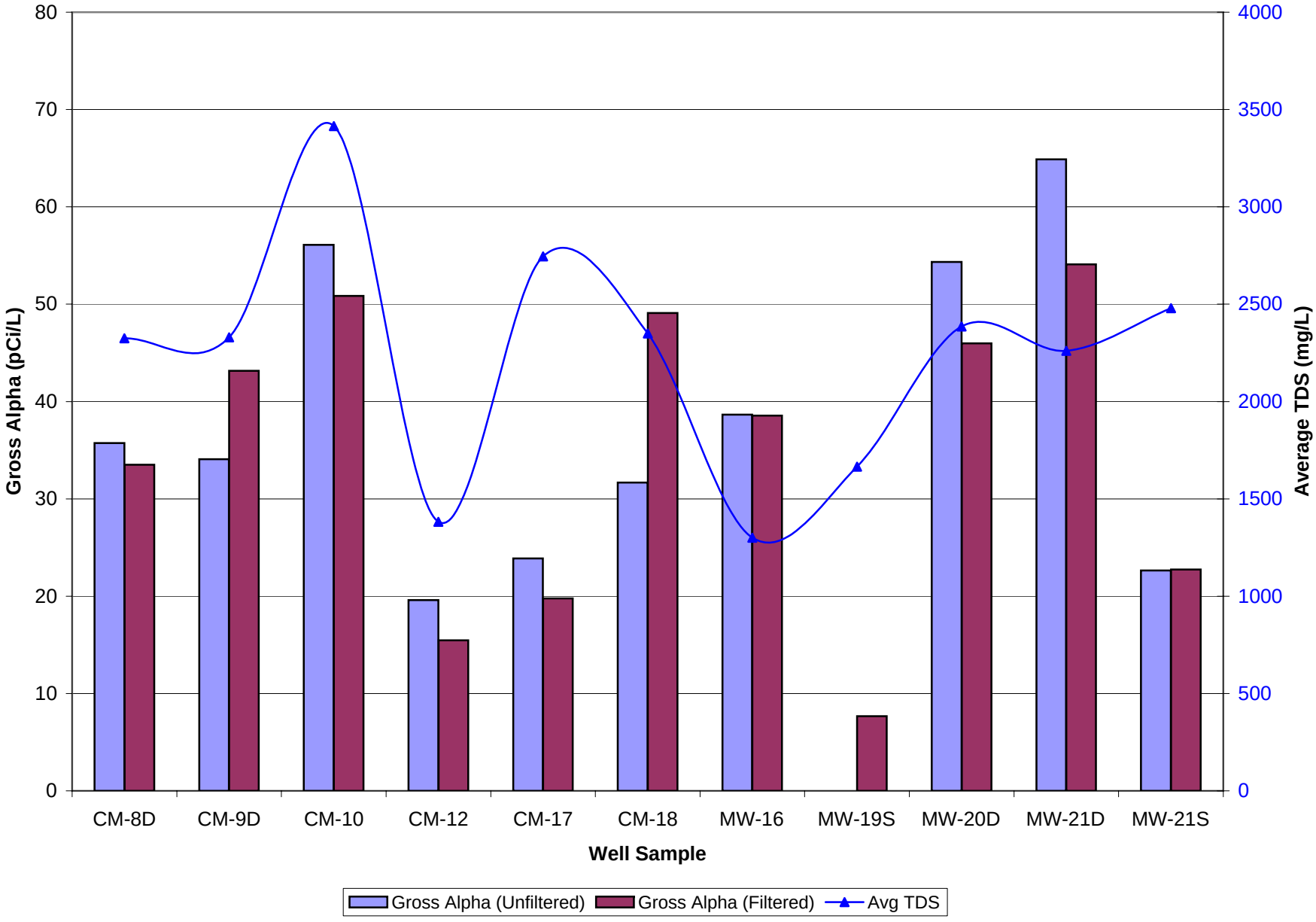
OTIE

Graph 4f
Oxidation Reduction Potential (ORP) vs Detected Combined Radium, Unfiltered Samples
Former Canoga Park Facility, Canoga Park, California



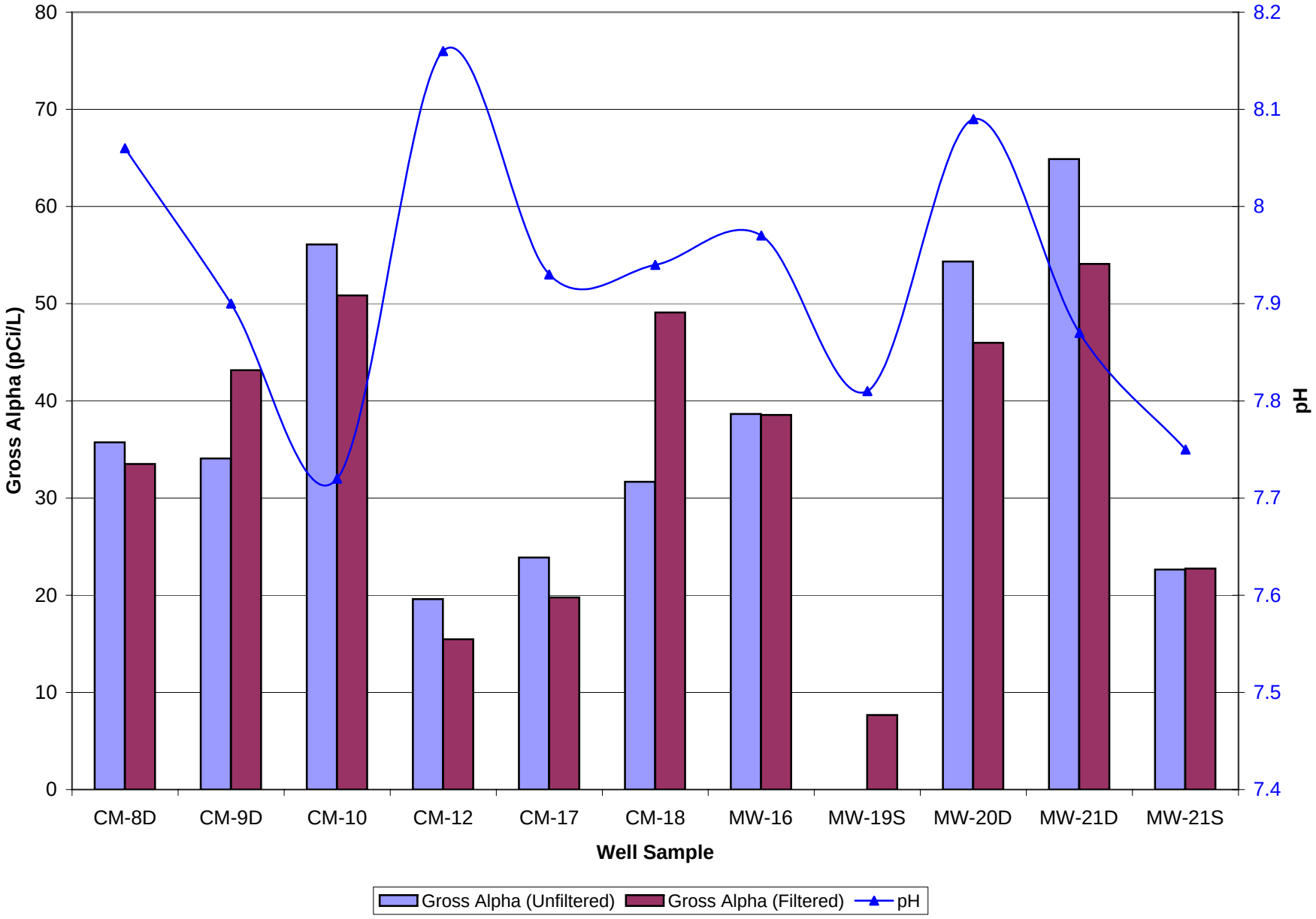
OTIE

Graph 5a
Gross Alpha and Average TDS
Former Canoga Park Facility, Canoga Park, California



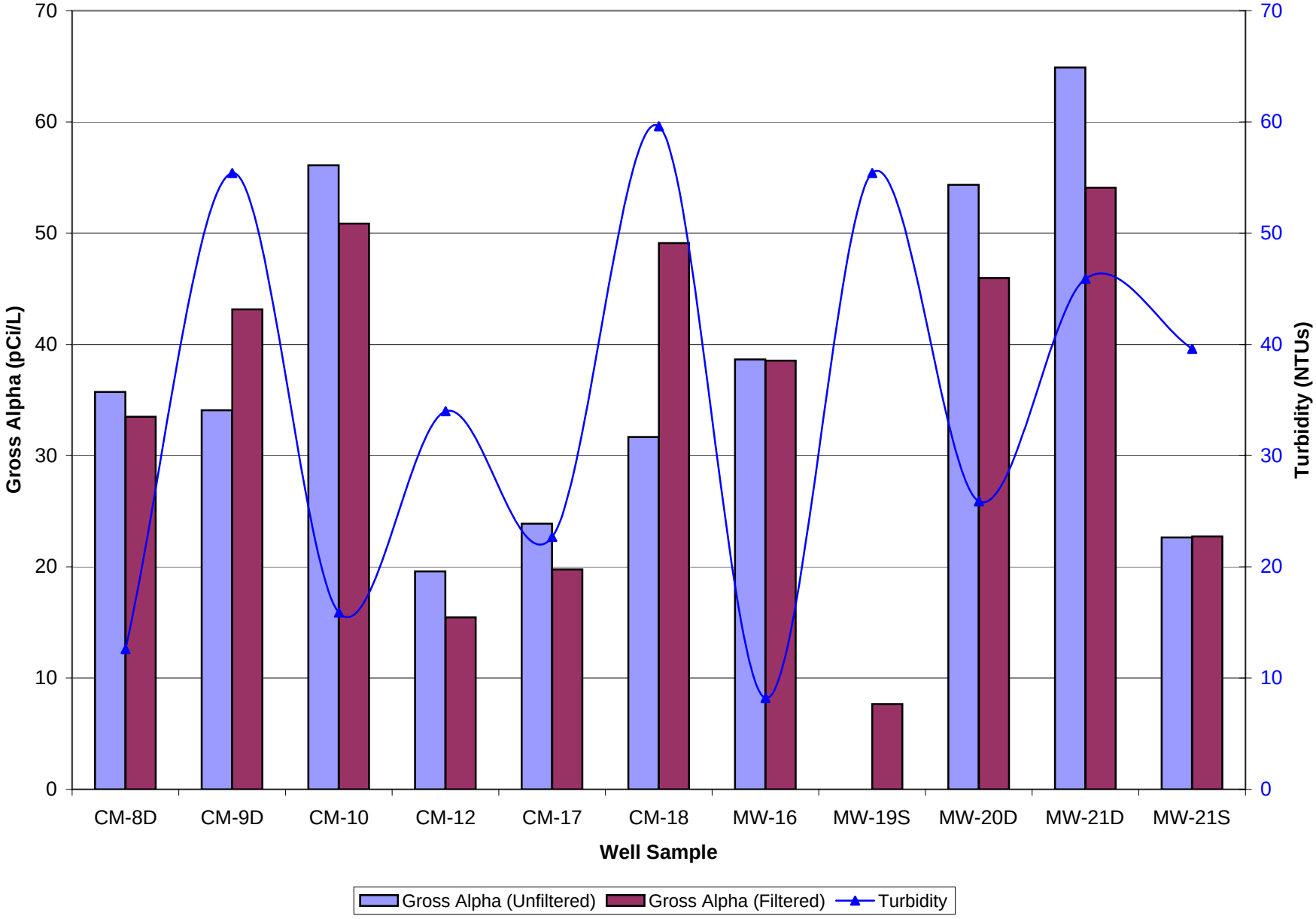
OTIE

Graph 5b
Gross Alpha and pH
Former Canoga Park Facility, Canoga Park, California



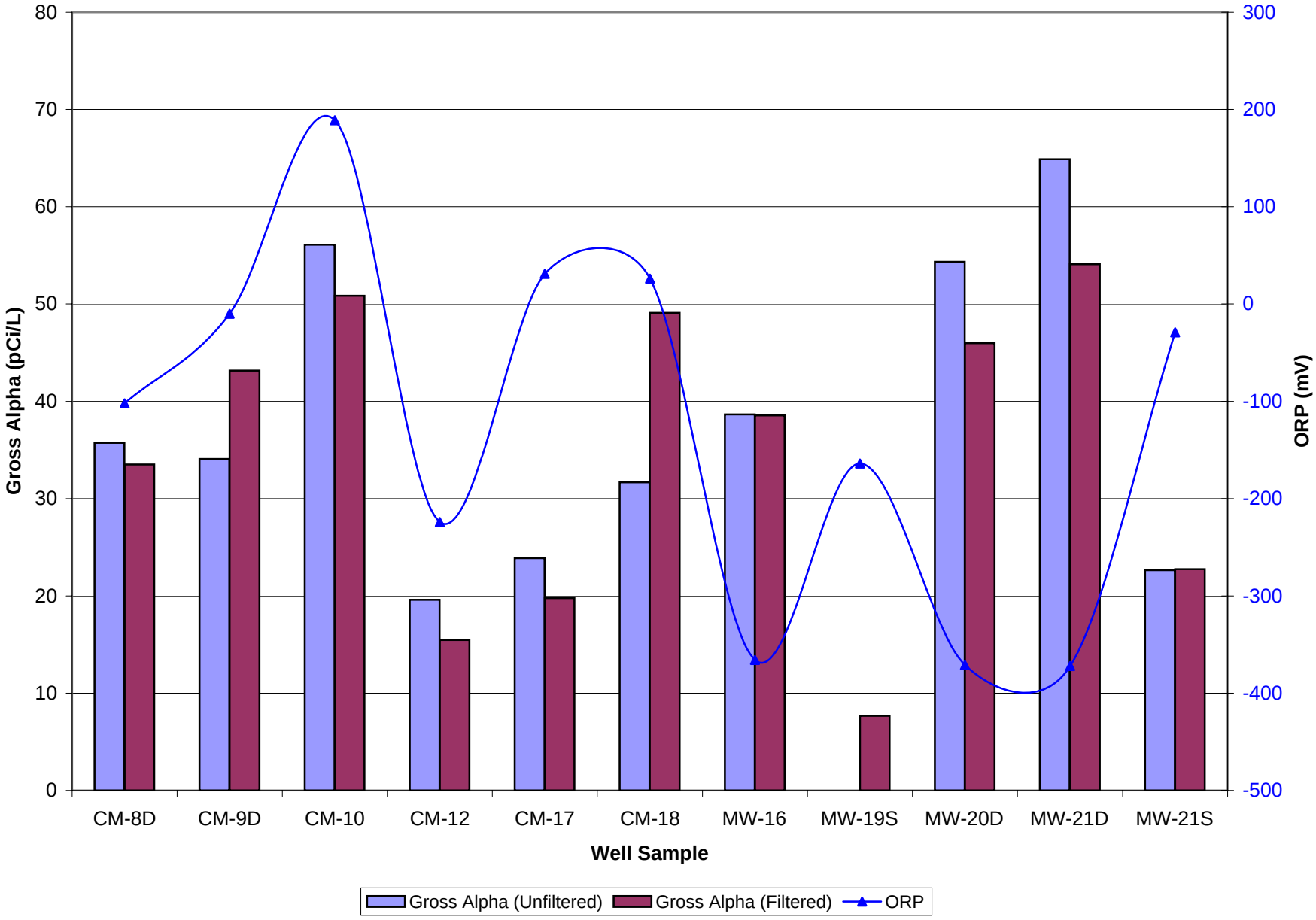
OTIE

Graph 5c
Gross Alpha and Turbidity
Former Canoga Park Facility, Canoga Park, California



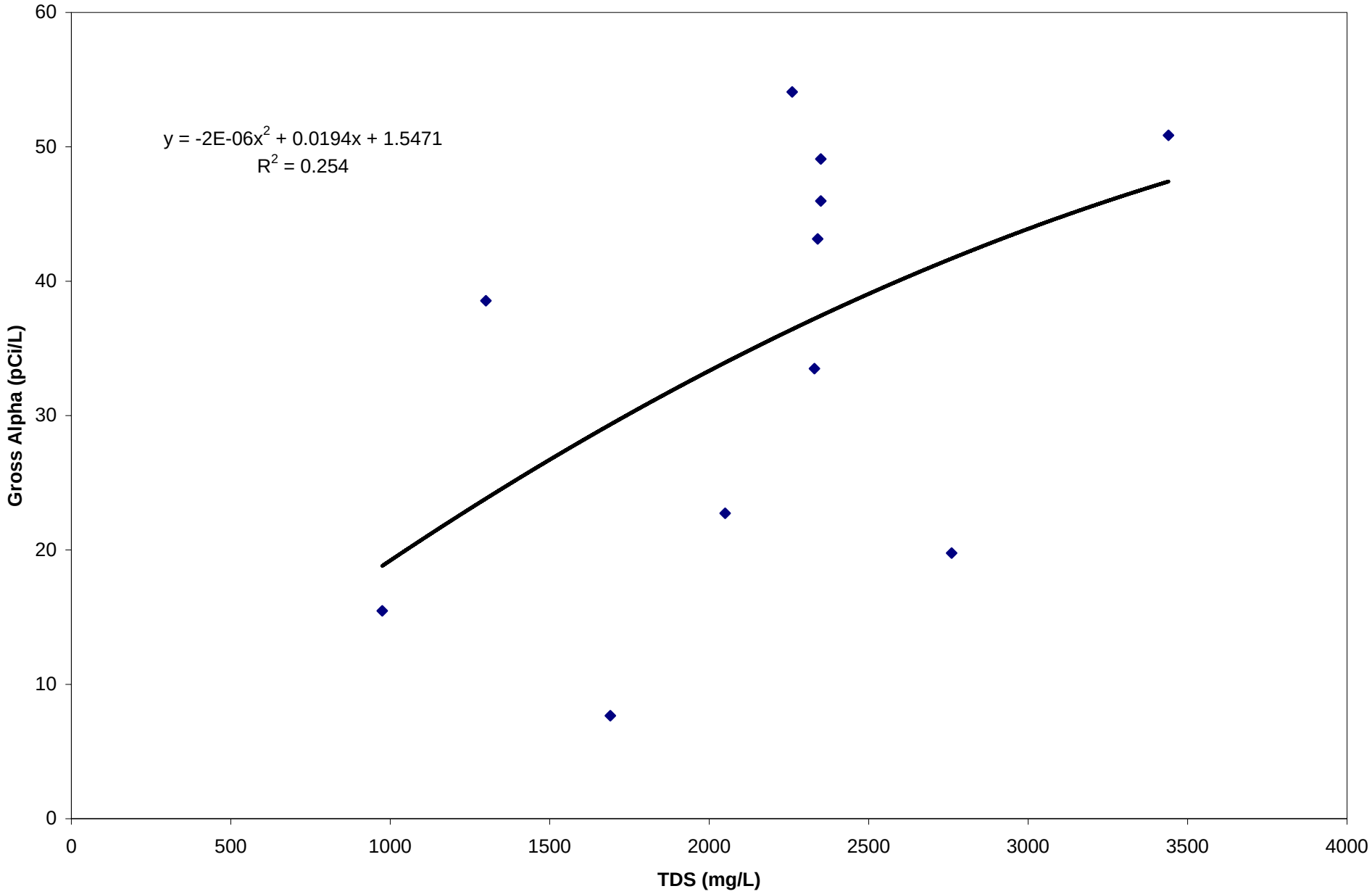
OTIE

Graph 5d
Gross Alpha and Oxidation Reduction Potential (ORP)
Former Canoga Park Facility, Canoga Park, California



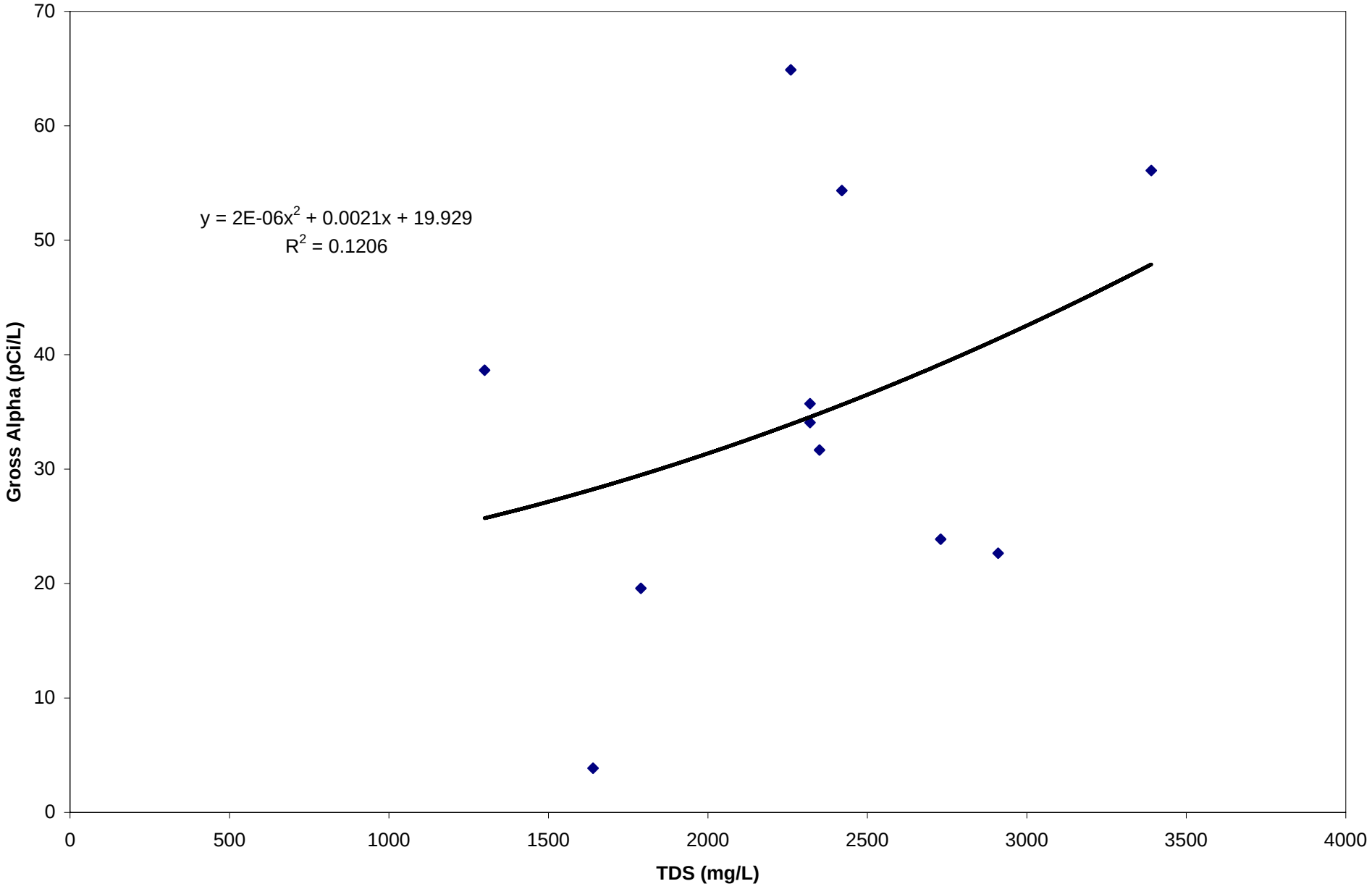
OTIE

Graph 5e
TDS vs Gross Alpha, Filtered Samples
Former Canoga Park Facility, Canoga Park, California



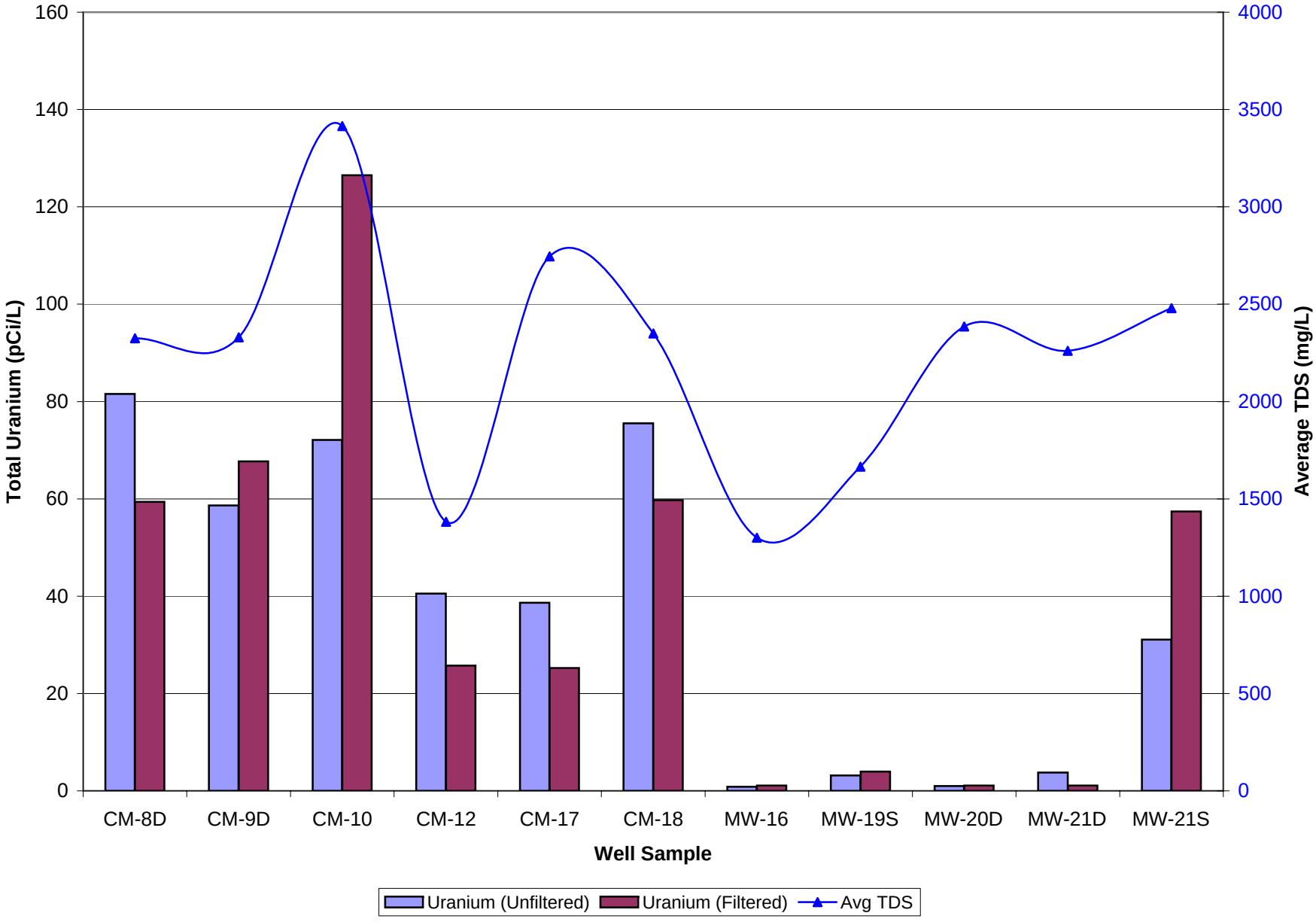
OTIE

Graph 5f
TDS vs Gross Alpha, Unfiltered Samples
Former Canoga Park Facility, Canoga Park, California



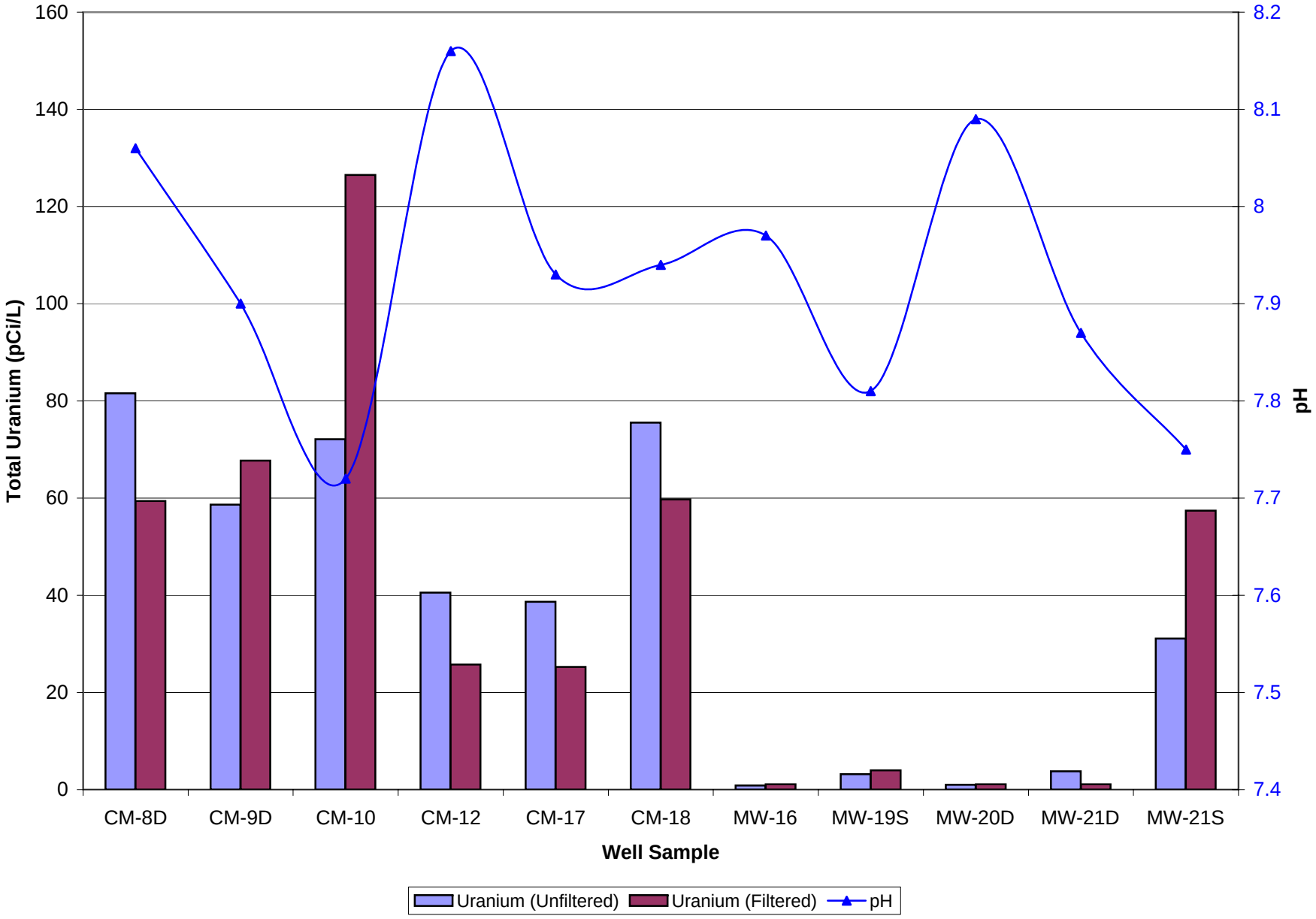
OTIE

Graph 6a
Total Uranium and Average TDS
Former Canoga Park Facility, Canoga Park, California



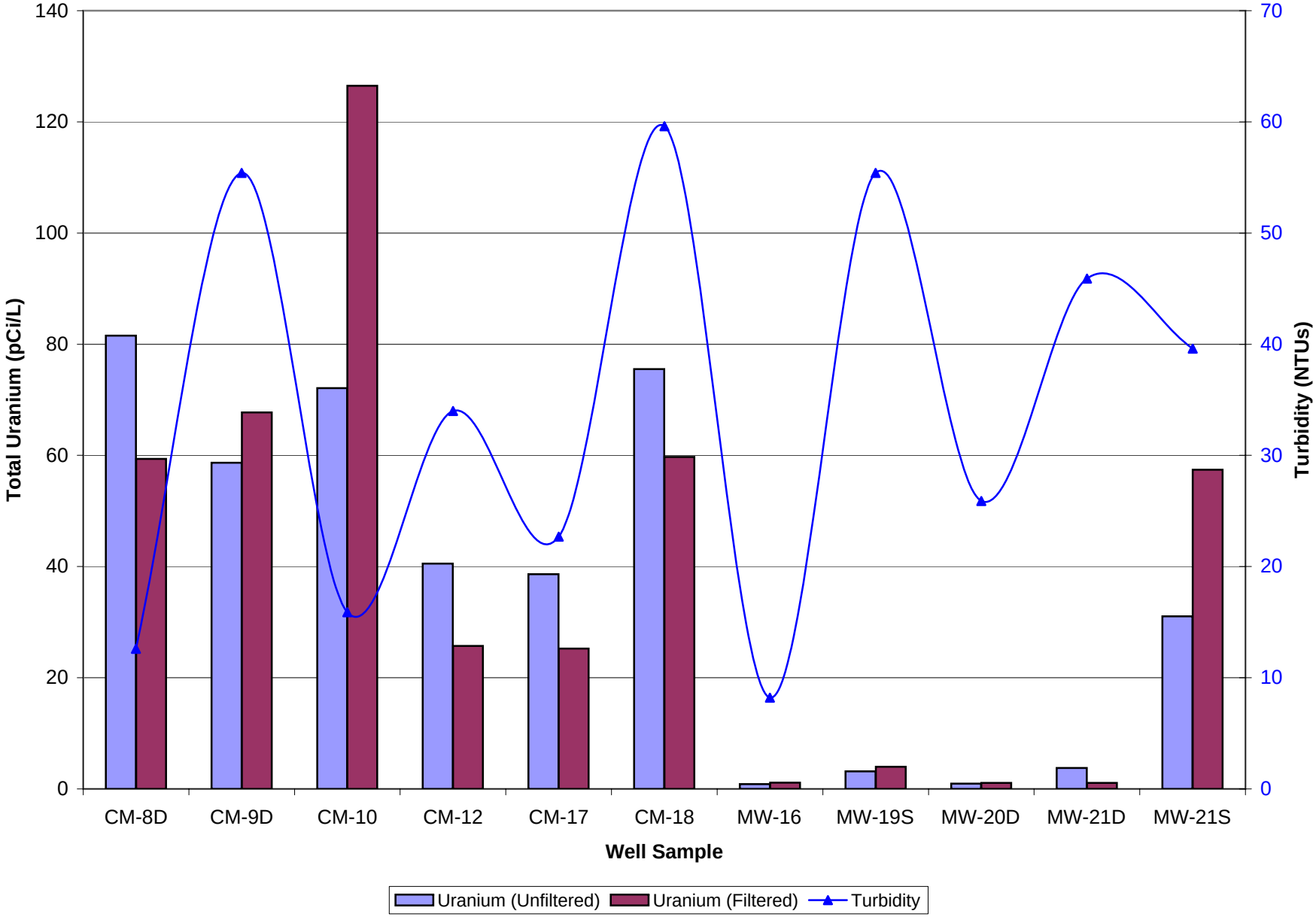
OTIE

Graph 6b
Total Uranium and pH
Former Canoga Park Facility, Canoga Park, California



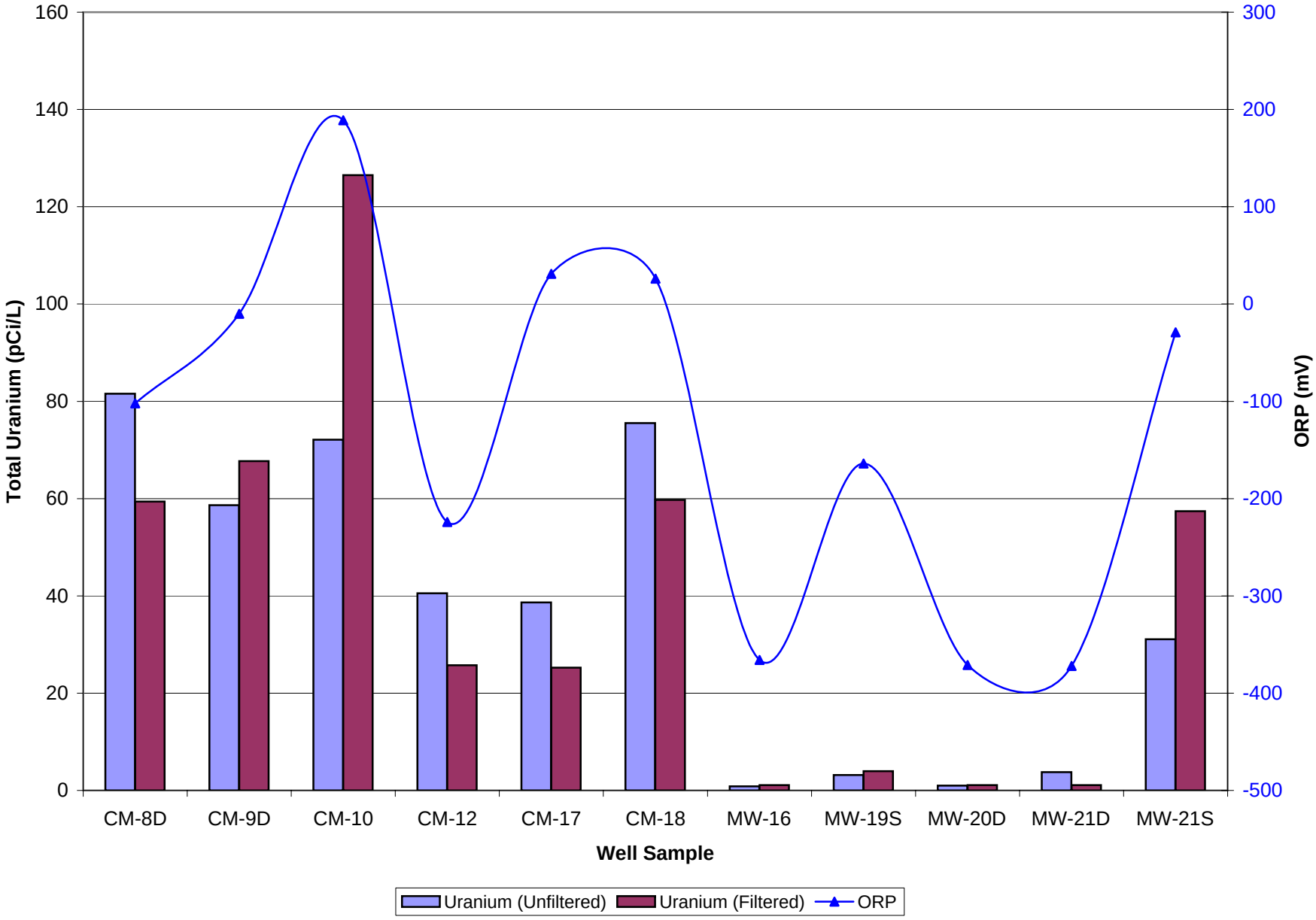
OTIE

Graph 6c
Total Uranium and Turbidity
Former Canoga Park Facility, Canoga Park, California



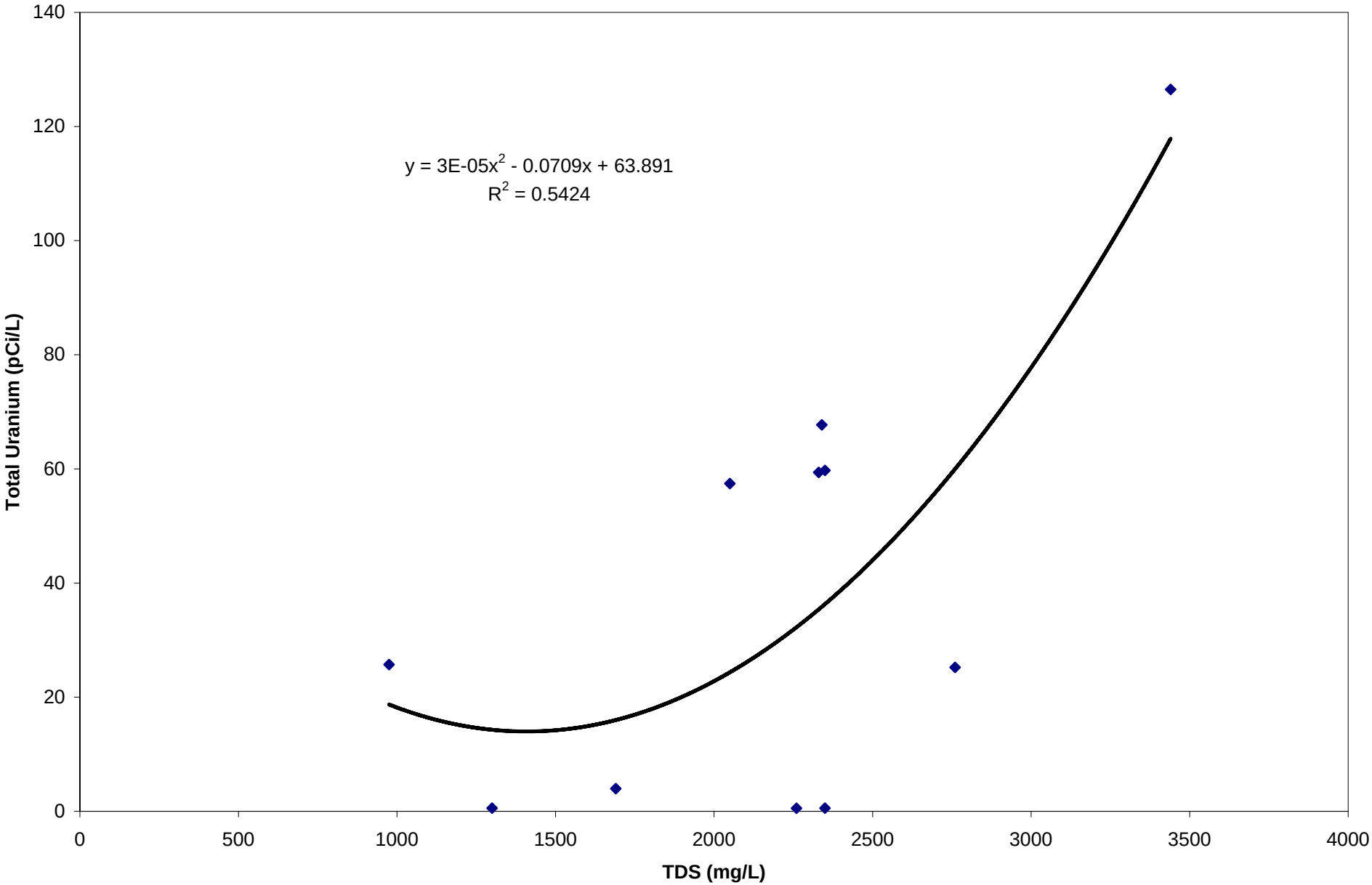
OTIE

Graph 6d
Total Uranium and Oxidation Reduction Potential (ORP)
Former Canoga Park Facility, Canoga Park, California



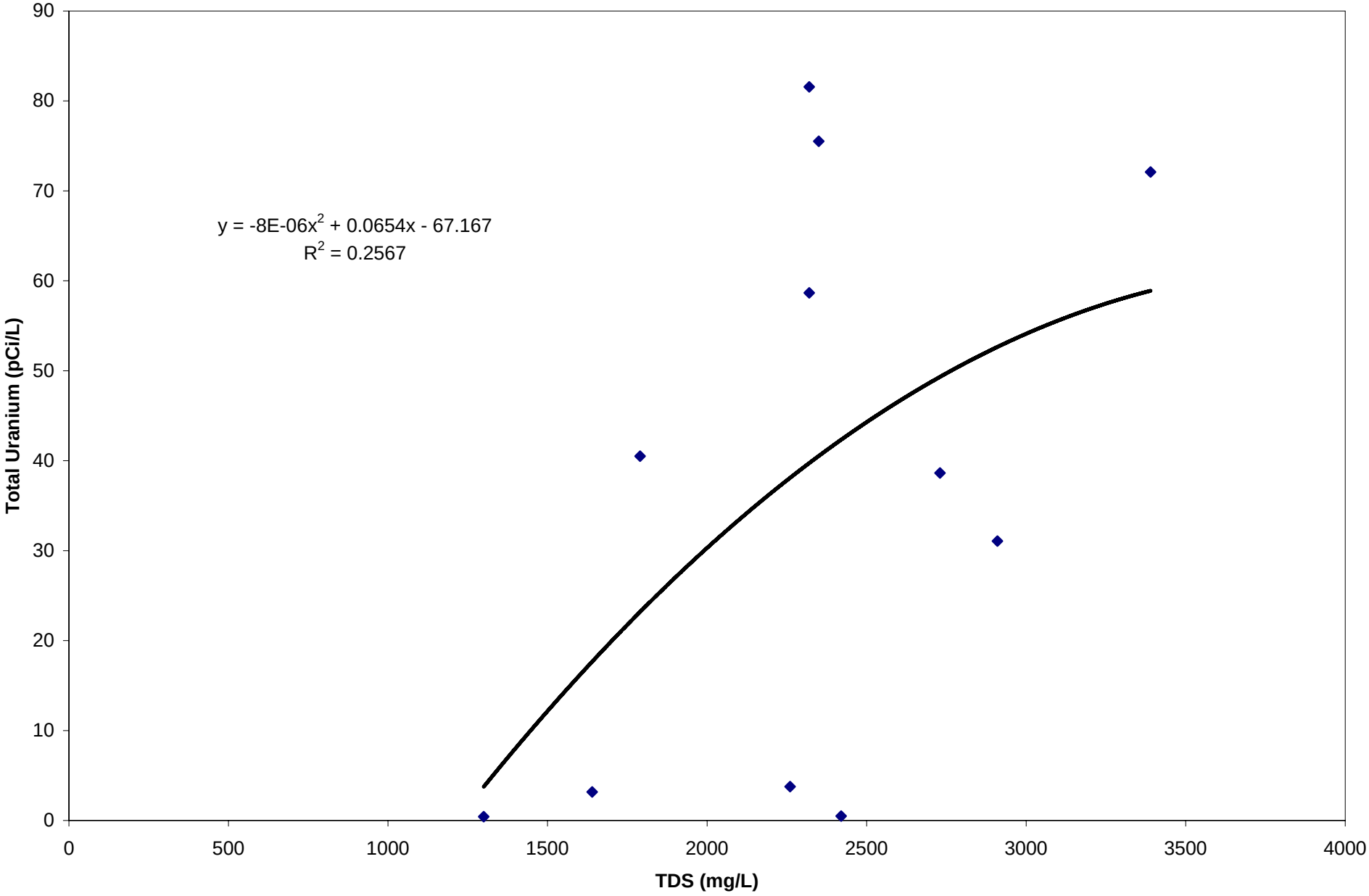
OTIE

Graph 6e
TDS vs Total Uranium, Filtered Samples
Former Canoga Park Facility, Canoga Park, California



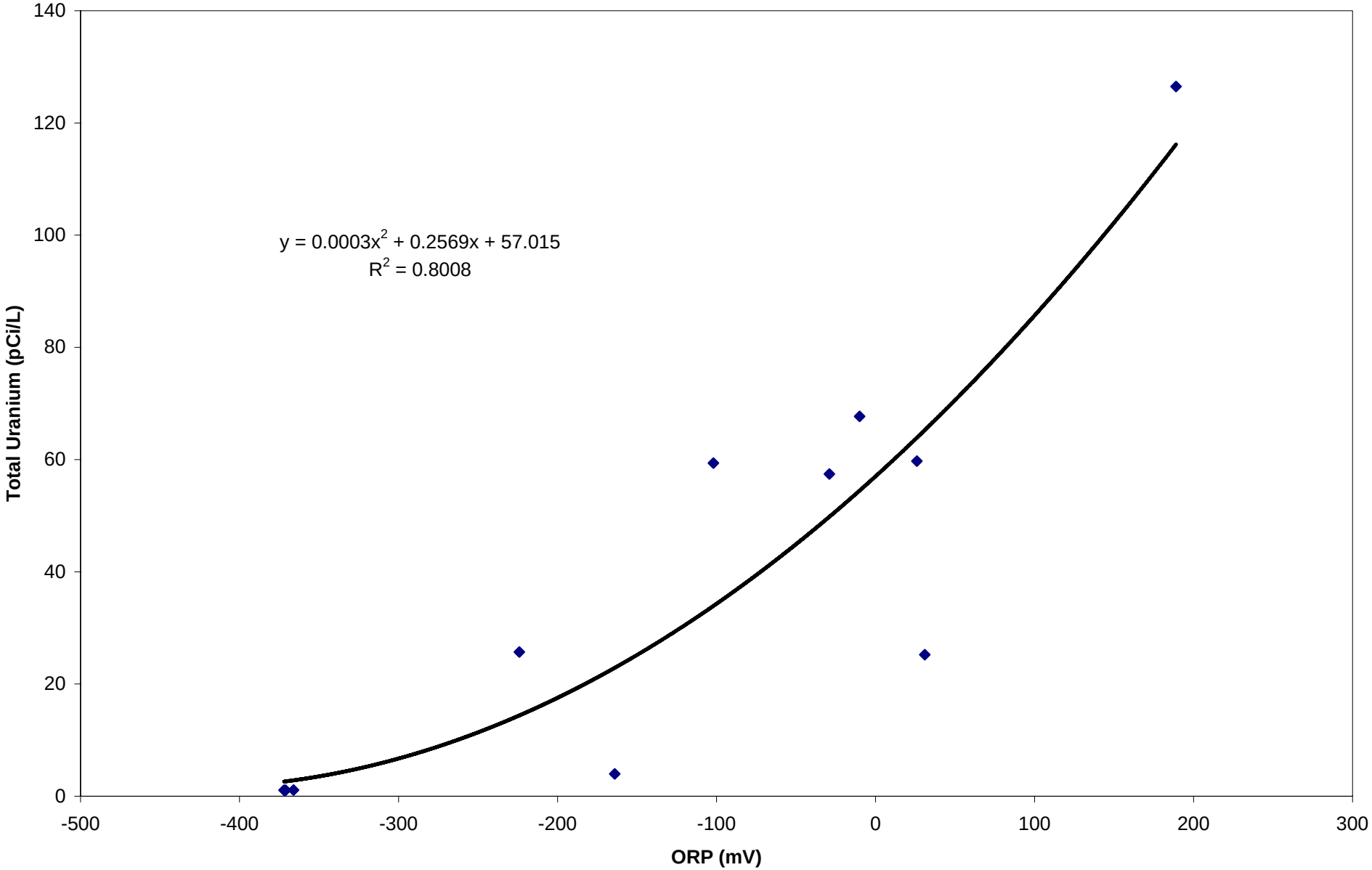
OTIE

Graph 6f
TDS vs Total Uranium, Unfiltered Samples
Former Canoga Park Facility, Canoga Park, California



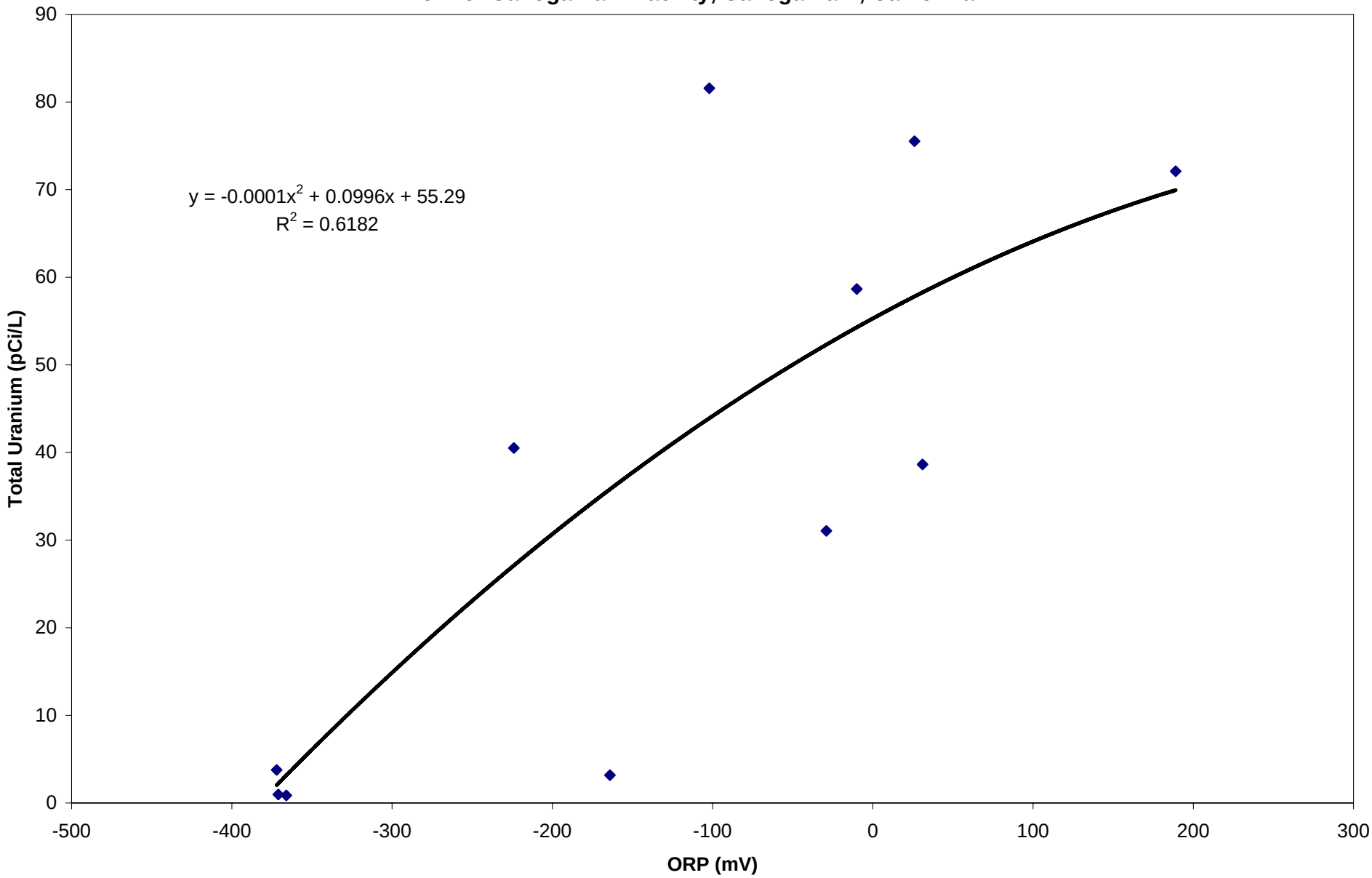
OTIE

Graph 6g
Oxidation Reduction Potential (ORP) vs Total Uranium, Filtered Samples
Former Canoga Park Facility, Canoga Park, California



OTIE

Graph 6h
Oxidation Reduction Potential (ORP) vs Total Uranium, Unfiltered Samples
Former Canoga Park Facility, Canoga Park, California



OTIE

Appendix A

Regulatory Correspondence

California Regional Water Quality Control Board

Los Angeles Region

Recipient of the 2001 *Environmental Leadership Award* from Keep California Beautiful

Linda S. Adams
Cal/EPA Secretary

320 W. 4th Street, Suite 200, Los Angeles, California 90013
Phone (213) 576-6600 FAX (213) 576-6640 - Internet Address: http://www.waterboards.ca.gov/losangeles

Arnold Schwarzenegger
Governor

March 5, 2008

Ms. Jean Roberts, Manager
Safety, Health, Environmental Affairs
Raytheon Company
P.O. Box 11337
Tucson, AZ 85834-1337

CALIFORNIA WATER CODE (CWC) SECTION 13267 – ORDER REQUIRING A GROUNDWATER INVESTIGATION WORK PLAN TO VERIFY CURRENT RADIOACTIVITY CONDITIONS – RAYTHEON SYSTEMS COMPANY (FORMER HUGHES MISSILE SYSTEM COMPANY), 8433 FALLBROOK AVENUE, CANOGA PARK, CALIFORNIA (WDR NO. 95-012, SLIC NO. 0693, SITE ID NO. 2043T00)

Dear Ms. Roberts:

In response to public concerns regarding radioactivity sampling results from the on-site groundwater monitoring wells, the Los Angeles Regional Water Quality Control Board (Regional Board) staff have reviewed the following reports, prepared by Groundwater Resources Consultants, Inc., for the referenced site:

- *Investigation of Radioactivity in Groundwater, October 1991*, dated January 23, 1992, and
- *Results of Radiological Sampling of Monitoring Wells, December 1991*, dated March 27, 1992

The referenced site was 86 acres and operated as an aerospace research and development facility from approximately 1959 to 1996. Hughes Missile System Company operated/owned the entire facility since the mid 1970's through 1996. Raytheon merged with Hughes in 1997 and since then the site has been known as the "Former Raytheon Facility, Canoga Park". Numerous site investigations and remedial activities have been conducted since the early 1990's. Volatile organic compounds (VOCs), mainly 1,1-dichoroethene (1,1-DCE), have been detected in groundwater across the site. A groundwater remediation program has been implemented at the site since 1995 to progress towards achieving cleanup criteria established in the Corrective Action Plan (1992) for the site. Remediation techniques used at the site include groundwater recovery and treatment, soil vapor extraction, and air sparging.

To assess the radioactivity conditions at the site, the groundwater monitoring wells were sampled for radioactivity. Based on review of the two reports submitted, the Regional Board staff have the following comments:

1. For both reports, please correct the remarks for adjusted gross alpha emitters and revise the California Maximum Contaminant Levels (MCLs) for uranium (with correct unit) and combined radium - 226+228 in tables titled EPA Proposed Maximum Contaminant Levels. See attachment titled Maximum Contaminant Levels and Regulatory Dates for Drinking Water.

2. For both reports, please revise tables titled Summary of Alpha Emitters and Adjusted Gross Alpha Levels corresponding with Comment 1.

3. The reports summarized that total dissolved solids (TDS) concentrations ranging from three to five times the drinking water secondary MCL of 500 mg/L at the facility. Please provide TDS groundwater concentrations throughout the site.

4. The reports summarized that an analysis of the isotopic mass percentages of the samples with elevated uranium levels indicates that the percentages conform to the U.S. EPA definition of naturally occurring uranium. Please provide a copy of the U.S. EPA documentation, a copy of the cited source, and detailed calculations of the activity/mass equivalents.

5. Upon review of the summary tables, Regional Board staff conclude that the following wells have radioactive contaminant levels in excess of the California MCLs.

	California MCL	October 1991, 22 wells sampled	December 1991, 28 wells sampled
Gross Alpha particle activity (excluding radon & uranium)	15 pCi/L	MW-20D	none
Uranium	20 pCi/L	MW-19S, MW-21S, CM-8D, CM-9D, CM-10	CM-8D, CM-10, CM-12, CM-17, CM-18
Combined Radium - 226+228	5 pCi/L	MW-16, MW-20D, MW-21D	MW-16, MW-21D

Pursuant to Section 13267 of the CWC, you are required to submit a work plan for groundwater investigation to verify current radioactivity conditions. The groundwater monitoring wells shall be sampled for radioactivity analyses including gross alpha particle activity, uranium, combined radium - 226+228, and gross beta particle activity. At a minimum, the work plan shall contain those groundwater monitoring wells with radioactive contaminant levels in excess of the MCLs (see attachment of Excel Spread Sheets) and be submitted to the Regional Board by **May 1, 2008**.

Pursuant to Section 13268 of the CWC, failure to submit the required work plan by the due dates may result in civil liability administratively imposed by the Regional Board in an amount up to one thousand dollars ($1,000) for each day the work plan is not received.

Should you have any questions, please contact Dr. Ann Chang at (213) 620-6070, or Ms. Su Han at (213) 576-6735.

Sincerely,

Tracy J. Egoscue
Executive Officer

Attachment: Maximum Contaminant Levels and Regulatory Dates for Drinking Water
Excel Spread Sheets – summary of October 1991 and December 1991 radioactivity sampling results

cc: Ms. Heather Collins – California Department of Health Services
Mr. Chris Nagler, WaterMaster, California Department of Water Resources
Mr. Bernard Franklin, Los Angeles County, Department of Public Health
Mr. Hoover Ng, Water Replenishment District- Southern California
Mr. James Pappas, Department of Toxic Substances Control
Mr. Martin Herrmann, Department of Toxic Substances Control
Mr. Timothy Garvey, TN & Associates, Inc.
Mr. Jacques Marcillac, TN & Associates, Inc.

MAXIMUM CONTAMINANT LEVELS AND REGULATORY DATES FOR DRINKING WATER U.S. EPA VS CALIFORNIA

SEPTEMBER 2007

Contaminant	U.S. EPA		California	
	MCL (mg/L)	Date[a]	MCL (mg/L)	Effective Date
Inorganics				
Aluminum	0.05 to 2[b]	1/91	1 0.2[b]	2/25/89 9/8/94
Antimony	0.006	7/92	0.006	9/8/94
Arsenic	0.05 0.010	eff: 6/24/77 eff: 1/23/06	0.05	77
Asbestos	7 MFL[c]	1/91	7 MFL[c]	9/8/94
Barium	1 2	eff: 6/24/77 1/91	1	77
Beryllium	0.004	7/92	0.004	9/8/94
Cadmium	0.010 0.005	eff: 6/24/77 1/91	0.010 0.005	77 9/8/94
Chromium	0.05 0.1	eff: 6/24/77 1/91	0.05	77
Copper	1.3[d]	6/91	1[b] 1.3[d]	77 12/11/95
Cyanide	0.2	7/92	0.2 0.15	9/8/94 6/12/03
Fluoride	4 2[b]	4/86 4/86	2	4/98
Lead	0.05[e] 0.015[d]	eff: 6/24/77 6/91	0.05[e] 0.015[d]	77 12/11/95
Mercury	0.002	eff: 6/24/77	0.002	77
Nickel	Remanded		0.1	9/8/94
Nitrate	(as N) 10	eff: 6/24/77	(as N03) 45	77
Nitrite (as N)	1	1/91	1	9/8/94
Total Nitrate/Nitrite (as N)	10	1/91	10	9/8/94
Perchlorate	-	-	0.006	10/18/07
Selenium	0.01 0.05	eff: 6/24/77 1/91	0.01 0.05	77 9/8/94
Thallium	0.002	7/92	0.002	9/8/94
Radionuclides				
Uranium	30 ug/L	12/7/00	20 pCi/L 20 pCi/L	1/1/89 6/11/06
Combined Radium - 226+228	5 pCi/L	eff: 6/24/77	5 pCi/L 5 pCi/L	77 6/11/06
Gross Alpha particle activity (excluding radon & uranium)	15 pCi/L	eff: 6/24/77	15 pCi/L 15 pCi/L	77 6/11/06
Gross Beta particle activity	4 millirem/yr	eff: 6/24/77	50 pCi/L[f] 4 millirem/yr	77 6/11/06
Strontium-90	8 pCi/L	eff: 6/24/77 now covered by Gross Beta	8 pCi/L[f] 8 pCi/L[f]	77 6/11/06
Tritium	20,000 pCi/L	eff: 6/24/77 now covered by Gross Beta	20,000 pCi/L[f] 20,000 pCi/L[f]	77 6/11/06

October 1991, Radioactivity Sampling Results in the Groundwater

	Gross Alpha	U-234	U-235	U-238	R-226	R-228	Uranium	Adjust Gross Alpha	Radium
	pCi/L	**pCi/L**	**pCi/L**	**pCi/L**	**pCi/L**	**pCi/L**	**pCi/L**	**pCi/L**	**pCi/L**
MW-16	5.3	<0.6	<0.6	<0.6	5.2	1.7		5.3	**6.9**
MW-17	14.2	9.1	<0.6	9.5	<1.0	<1.0	18.6	-4.4	
MW-19S	12.5	15.2	0.7	12.1	<1.0	<1.0	**28.0**	-15.5	
MW-19D	2.8	<0.6	<0.6	<0.6	<1.0	<1.0		2.8	
MW-20S	1.7	<0.6	<0.6	<0.6	1.4	2.4		1.7	3.8
MW-20D	15.7	<0.6	<0.6	<0.6	5.3	1.6		**15.7**	**6.9**
MW-20D	7.2	<0.6	<0.6	<0.6	5.3			7.2	**5.3**
MW-21S	16.2	11.8	<0.6	10.8	<1.0	<1.0	**22.6**	-6.4	
MW-21D	7.6	<0.6	<0.6	<0.6	8.2	1.8		7.6	**10.0**
MW-22S	1.9	1.7	<0.6	1.6	<1.0	<1.0	3.3	-1.4	
MW-22D	7.8	3.0	<0.6	2.7	<1.0	<1.0	5.7	2.1	
M-1	7.4	6.4	<0.6	6.9	1.3	<1.0	13.3	-5.9	1.3
CM-4D	1.4	4.9	<0.6	4.3	<1.0	<1.0	9.2	-7.8	
CM-6D	<1.0	0.6	<0.6	<0.6	<1.0	<1.0	0.6	-0.6	
CM-7	7.4	<0.6	<0.6	<0.6	<1.0	1.3		7.4	1.3
CM-8D	37.8	27.3	1.0	25.9	<1.0	<1.0	**54.2**	-16.4	
CM-9D	28.3	20.2	0.7	18.8	<1.0	<1.0	**39.7**	-11.4	
CM-10	60.2	26.0	1.1	26.3	<1.0	<1.0	**53.4**	6.8	
CM-11	1.0	2.2	<0.6	2.1	<1.0	<1.0	4.3	-3.3	
CM-12	15.6	3.6	<0.6	4.8	<1.0	<1.0	8.4	7.2	
CM-13	6.3	4.4	<0.6	4.1	1.1	<1.0	8.5	-2.2	1.1
CM-14	3.2	2.7	<0.6	2.2	<1.0	<1.0	4.9	-1.7	
MW-15	2.3	<0.6	<0.6	<0.6	2.6	<1.0		2.3	2.6
MCL							**20 pCi/L**	**15 pCi/L**	**5 pCi/L**
22 wells							5 exceed	1 exceed	3 exceed

December 1991, Radioactivity Sampling Results in the Groundwater

	Gross Alpha	U-234	U-235	U-238	R-226	R-228	Uranium	Adjust Gross Alpha	Radium
	pCi/L	**pCi/L**	**pCi/L**	**pCi/L**	**pCi/L**	**pCi/L**	**pCi/L**	**pCi/L**	**pCi/L**
M-1	7.7	5.1	0.2	5.4	1.2	<1.0	10.7	-3.0	1.2
MW-15	<4.0	<0.1	<0.1	<0.1					
MW-16	9.0	1.5	<0.1	1.1	4.8	1.8	2.6	6.4	**6.6**
MW-17	12.4	9.5	0.4	9.6	<0.5	<1.0	19.5	-7.1	
MW-19S	16.0	10.3	0.3	8.6	<0.5	<1.0	19.2	-3.2	
MW-19D	<4.0	0.4	<0.1	0.2			0.6	-0.6	
MW-20S	<4.0	<0.1	<0.1	0.1					
MW-20D	<4.0	0.2	<0.1	0.2			0.4	-0.4	
MW-21S	7.3	7.3	0.2	7.0	<0.5	<1.0	14.5	-7.2	
MW-21D	7.4	0.3	<0.1	0.3	11.3	1.6	0.6	6.8	**12.9**
MW-22S	2.3	1.7	<0.1	1.6			3.3	-1.0	
MW-22D	4.5	3.0	0.1	2.8			5.9	-1.4	
MW-23	5.3	5.7	0.2	5.3	<0.5	<1.0	11.2	-5.9	
CM-4D	<4.0	5.1	0.2	4.8			10.1	-10.1	
CM-6D	4.5	0.4	<0.1	0.3			0.7	3.8	
CM-7	<4.0	0.5	<0.1	0.4			0.9	-0.9	
CM-8D	50.1	25.1	1.0	23.7	0.9	<1.0	**49.8**	0.3	0.9
CM-9D	NA	NA	NA	NA	NA	NA			
CM-10	48.9	25.8	1.0	26.5	<0.5	<1.0	**53.3**	-4.4	
CM-11	<4.0	3.5	0.1	3.3			6.9	-6.9	
CM-12	25.7	13.6	0.7	12.7	<0.5	<1.0	**27.0**	-1.3	
CM-13	11.5	4.4	0.2	4.0	1.5	<1.0	8.6	2.9	1.5
CM-14	6.3	2.4	<0.1	2.0	<0.5	<1.0	4.4	1.9	
CM-15	3.7	2.5	<0.1	1.4			3.9	-0.2	
CM-16	1.7	3.9	<0.1	2.3			6.2	-4.5	
CM-17	13.0	13.4	0.4	12.6	<0.5	<1.0	**26.4**	-13.4	
CM-18	59.2	46.5	2.0	43.9	1.0	<1.0	**92.4**	-33.2	1.0
CM-19	5.2	5.8	0.1	4.3	<0.5	<1.0	10.2	-5.0	
MCL							**20 pCi/L**	**15 pCi/L**	**5 pCi/L**
28 wells							5 exceed	0 exceed	2 exceed

Raytheon

Missile Systems
PO Box 11337
Tucson, Arizona
85734-1337 USA
520.794.3000

In reply refer to:
11105/dss/9733

April 30, 2008

Certified Mail - 7005 2570 0000 6418 2058

Tracy J. Egoscue
Executive Office
California Regional Water Control Board
Los Angeles Region
320 W 4th Street, Suite 200
Los Angeles, CA 90013

Subject: Response to Request for Investigation Work Plan to Verify Current Radioactivity Conditions at the Former Canoga Park Facility
8433 Fallbrook Avenue
Canoga Park, California

Dear Ms. Egoscue:

Raytheon is in receipt of the letter dated March 19, 2008 requesting a work plan pursuant to Section 13267 of the California Water Code to investigate the current radioactive conditions of groundwater at the Former Canoga Park Facility. On January 15, 1992, Raytheon submitted a work plan to Hank H. Yacoub of the California Regional Water Quality Control Board (RWQCB) to investigate the radioactivity of groundwater at the Former Canoga Park Facility. The results of the investigation were summarized to the RWQCB in *Investigation of Radioactivity in Groundwater at the Hughes Aircraft Company Canoga Park Facility, Canoga Park, California* (GRC Inc., January 23, 1992). Eight sampling events were performed and the analytical results submitted to E.G. Soloman of the RWQCB on June 18, 1992. The investigation and follow-on sampling events consistently determined that the levels of radioisotopes were attributable to naturally occurring sources in the underlying native soils and bedrock.

The data set produced by the eight sampling events and the evaluation of these data submitted to the RWQCB were conclusive to indicate that radioactivity in groundwater at the site is naturally occurring. For your convenience, data previously transmitted to the RWQCB are enclosed. In addition, a copy of the USEPA reference documentation (Federal Register, Vol. 56, No. 138, pp. 33050 - 33127, July18, 1991) used to prepare the reports is enclosed.

Raytheon

Missile Systems
PO Box 11337
Tucson, Arizona
85734-1337 USA
520.794.3000

The letter also requests Raytheon provide data on Total Dissolved Solids (TDS) and correct the tables in the two referenced reports for adjusted gross alpha and uranium units. The corrected tables and reference documents are enclosed

We trust the enclosed historical data, revised tables, and revised recalculations allow the RWQCB to evaluate the radioactivity condition of groundwater and concur with the results of the investigation. Should the RWQCB have any questions, Raytheon would be pleased to respond, either in writing or at a meeting. Please feel to contact Mr. Daniel Samorano of my staff at (520) 794-9026 with any questions.

Sincerely,

Joseph H. Johnson
Director
Environmental, Health, and Safety

Enclosure:

Compact Disc

- Work Plan for Investigation of Radioactivity in Groundwater at the Hughes Aircraft Company Canoga Park Facility, Canoga Park California, Groundwater Resource, Inc., December 19, 1991.
- Investigation of Radioactivity in Groundwater At the Hughes Aircraft Company Canoga Park Facility, Canoga Park California, Groundwater Resource, Inc., January 23, 1992.
- Radioisotope Review and Comparison for Hughes Missile Systems Group Facility, Canoga Park, California, McLaren/Hart Environmental Engineering Corporation, October 28,1991.
- Former Canoga Park Facility Total Dissolved Solids (TDS) Data
- Data Transmittal: Hughes Aircraft Company- Missile Systems Group to E.G. Soloman Regional Water Quality Control Board Los Angeles Region, June 18, 1992, Summary of Groundwater Radiological Investigation,
- References:
    - Federal Register, Vol. 56, No. 138, pp. 33050 - 33127, July18, 1991
    - Guide of Good Practices for Occupational Radiological Protection in Uranium Facilities, Department of Energy, DOE-STD-1136-2004, December 2004.
    - Energy Citations Database – Bibliographic Citation Document # 5854591, Nuclear and Radiochemistry, Friedlander, G., Kennedy ,T.W., Macias, E.S., Miller, T.M., www.osti.gov/energycitations/product.biblio.jsp?osti_id=5854591, (4/29/2008)

Raytheon

Missile Systems
PO Box 11337
Tucson, Arizona
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520.794.3000

- Revised Tables
    - Revised Table 3 Maximum Contaminant Levels (January 23 and March 27, 1992 GRC Report)
    - Revised Table 4 Summary of Alpha Emitters and Adjusted Gross Alpha Levels (January 23, 1992 GRC Report)
    - Revised Table 5 Relative Mass Ratios of Uranium Isotopes, Uranium in Groundwater Data (January 23, 1992 GRC Report)
    - Revised Table 3 Summary of Alpha Emitters and Adjusted Gross Alpha Levels (March 27, 1992 GRC Report)
    - Revised Table 5 Relative Mass Ratios of Uranium Isotopes, Uranium in Groundwater Data (March 27, 1992 GRC Report)

Copy: Dr. Ann Chang, LARWQCB (w/ attachments)
Carmen Marriott, Raytheon
Daniel Samorano, Raytheon
Jacques Marcillac, TN&A

Raytheon

Missile Systems
PO Box 11337
Tucson, Arizona
85734-1337 USA
520.794.3000

In reply refer to:
11105/dss/9743

June 3, 2008 Certified Mail - 7005 1820 0001 2635 6958

Dr. Ann Chang
Project Manager
California Regional Water Control Board (RWQCB)
Los Angeles Region
320 W 4th Street, Suite 200
Los Angeles, CA 90013

Subject: Additional Information Regarding Request for Investigation Work Plan to Verify Current Radioactivity Conditions
Former Canoga Park Facility
8433 Fallbrook Avenue
Canoga Park, California

Dear Dr. Chang:

On April 30, 2008, Raytheon responded to the California Regional Water Quality Control Board's request for a groundwater investigation work plan to verify current radioactivity conditions at the Former Canoga Park Facility. Per our telephone on May 21, 2008, Raytheon is providing hard copy of the response enclosures. A table of contents has been provided with the three ring binder as well as the comment/response section below to guide the RWQCB to the appropriate enclosures.

Comment No. 1 – For both reports, please correct the remarks for adjusted gross alpha emitters and revise the California Maximum Contaminant Levels (MCLs) for uranium (with correct unit) and combined radium – 226+228 in tables titled EPA Proposed Maximum Contaminant Levels. See attached titled Maximum Contaminant Levels and Regulatory Dates for Drinking Water.

Response No.1: The tables titled "EPA Proposed Maximum Contaminant Levels" for both the January 23 and March 27, 1992 reports have been revised to include MCLs for both EPA and California. The revised Tables 2 and 3 are provided in the tab labeled "Revised Tables GRC Reports."

Raytheon

Missile Systems
PO Box 11337
Tucson, Arizona
85734-1337 USA
520.794.3000

Comment No. 2 – For both reports, please revise tables titled Summary of Alpha Emitters and Adjusted Gross Alpha Levels corresponding with Comment 1.

Response No.2 – The tables titled, "Summary of Alpha Emitters and Adjusted Gross Alpha Levels" for both the January 23 and March 27, 1992 reports have been revised to meet current regulations. The revised tables are provided in the tab labeled "Revised Tables GRC Reports."

Comment No. 3 – The reports summarized that total dissolved solids (TDS) concentrations ranging from three to five times the drinking water secondary MCL of 500 mg/L at the facility. Please provide TDS groundwater concentrations throughout the site.

Response No. 3 – TDS data has been collected at several wells throughout the site in the last few years. The average site-wide TDS value is approximately 1,500 mg/L. As requested, per our telephone conversion, TDS data (Table 3) from the Third Quarter 1991 Groundwater Monitoring Report (GRC, November 1991) is provided. These data are summarized in the tab labeled "Canoga Park TDS."

Comment No. 4 – The reports summarized that an analysis of the isotopic mass percentages of the samples with elevated uranium levels indicates that the percentages conform to the U.S. EPA definition of naturally occurring uranium. Please provide a copy of the U.S. EPA documentation, a copy of the cited source, and detailed calculations of the activity/mass equivalents.

Response No. 4 – Both reports reference the "Federal Register, Notice of Proposed Rule Making, National Primary Drinking Water Regulations: Radionuclides (Vol. 56, No. 138, pp. 33050 – 33127, July 18, 1991. This document states that uranium as a combination of uranium-234 plus uranium-235 plus uranium-238 has a varying isotopic composition, but typically is 0.006% uranium-234, 0.7% uranium-235, and 99.27% uranium-238. This ratio is further referenced on the EPA's website: http://www.epa.gov/radiation/radionuclides/uranium.html. The attached DOE Standard 1136-2004 dated December 2004 and titled "Guide of Good Practices for Occupational Radiological Protection in Uranium Facilities further support this information. Copies of the referenced documents and calculations are provided in the tabs labeled "56 Federal Register 138_33050-33127," "DOE-STD-1136-2004," and "Friedlander Reference."

The updated calculations for the activity/mass equivalents are provided in the tab labeled "Relative Mass U Isotopes."

Raytheon

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520.794.3000

Comment No. 5 – Upon review of the summary tables, Regional Board staff concludes that the following wells have radioactive contaminants levels in excess of the California MCL.

Response No. 5 – As stated in the Raytheon response dated April 30, 2008, investigation and follow-on sampling events at the former Canoga Park Facility consistently determined that the levels of radioisotopes were attributable to naturally occurring sources in the underlying native soils and bedrock. The data set produced by the eight sampling events and the evaluation of these data submitted to the RWQCB were conclusive to indicate that radioactivity in groundwater at the site is naturally occurring. These reports and data sets are provided in the tabs labeled "Radioisotope Work Plan", Radioisotope Work Plan Results", and "McLaren Hart Isotope Report 10-28/-91."

Should the RWQCB have any questions please do not hesitate to contact me at (520) 794-9026.

Sincerely,

Daniel S. Samorano, P.E.
Project Manager
Environmental, Health, and Safety

Enclosure:

Raytheon Response (April 30, 2008) Enclosures

- Three Binder of Requested Hard Copies

Copy: Tracy J. Egoscue, LARWQCB (w/o attachments)
Carmen Marriott, Raytheon (w/o attachments)
Joseph H. Johnson, Raytheon (w/o attachments)
Jacques Marcillac, TN&A (w/o attachments)
Project File: Former Canoga Park RWQCB Correspondence

California Regional Water Quality Control Board
Los Angeles Region

320 W. 4th Street, Suite 200, Los Angeles, California 90013
Phone (213) 576-6600 FAX (213) 576-6640 - Internet Address: http://www.waterboards.ca.gov/losangeles

Linda S. Adams
Cal/EPA Secretary

Arnold Schwarzenegger
Governor

July 15, 2008

Mr. Daniel S. Samorano, P.E.
Project Manager
Raytheon Company
1151 East Hermans Road
TU, Bldg 826
Tucson, AZ 85706

Certified Mail
Return Receipt Requested
Claim No. 7006 3450 0002 4641 8206

CALIFORNIA WATER CODE SECTION 13267 ORDER: REQUIRING A GROUNDWATER INVESTIGATION WORK PLAN TO VERIFY CURRENT RADIOACTIVITY CONDITIONS – RAYTHEON SYSTEMS COMPANY (FORMER HUGHES MISSILE SYSTEM COMPANY), 8433 FALLBROOK AVENUE, CANOGA PARK, CALIFORNIA (WDR NO. 95-012, SLIC NO. 0693, SITE ID NO. 2043T00)

Dear Mr. Samorano:

The California Regional Water Quality Control Board (Regional Board) staff have reviewed Raytheon's response to the Regional Board's Order dated March 19, 2008 requiring a groundwater investigation work plan to verify current radioactivity conditions at the Former Canoga Park Facility. The response presents additional information including historical data, revised tables, and recalculations for the Regional Board to evaluate the radioactivity condition of groundwater at the site. Based on review of the additional information submitted, the Regional Board staff have the following comments:

1. The Work Plan dated December 19, 1991 indicated that concentration of radioisotopes in groundwater may not be directly related to concentrations in the host rock or soil, but rather to water attributes such as pH, total dissolved solids, concentration of dissolved carbonate, oxidation/reduction potential, etc. On the contrary, the Raytheon response dated June 3, 2008, stated that investigation and follow-on sampling events at the former Canoga Facility consistently determined that the levels of radioisotopes were attributable to naturally occurring sources in the underlying native soils and bedrock. There is inconsistence between these two statements. In addition, the measurements of uranium did not indicate the elevated uranium levels in excess of the Maximum Contaminant Levels (MCLs) across the entire Facility.

2. Groundwater monitoring was conducted at the site by McLaren/Hart between March 1990 and June 1991. A total of 22 wells were sampled for gross alpha, gross beta, total uranium, and radium-226. Additionally, radium-228 was analyzed for samples with radium-226 exceeding 3 picocuries per liter (pCi/L). As indicated in the McLaren/Hart report dated October 28, 1991, gross alpha and gross beta radioisotope levels in groundwater beneath the Facility were generally consistent with those levels identified at other sites located in the San Fernando Valley area. However, uranium and radium-226 levels were broader in range and were elevated in comparison.

3. Two groundwater sampling events with isotopic analyses of uranium and radium were performed by GRC during October and December 1991. GRC recommended that no additional radionuclide sampling is warranted based on the USEPA 1991 proposed MCLs, which were different from the current USEPA MCLs and California MCLs. In addition, the documentation only indicated that the associated isotopic mass percentages fell within the range expected for naturally occurring uranium.

4. The uranium activity data presented in the two referenced GRC groundwater reports have been recalculated using conversion factors based on the specific activities referenced in the U.S. Department of Energy document. The site data are compared to the published values of typical isotopic abundances. The data indicates the isotopic mass percentages of the samples with elevated uranium levels support the USEPA definition of naturally occurring uranium.

Relative Abundance of Uranium Isotopes

Isotope	**U-238**	**U-235**	**U-234**
Natural Abundance (%)	99.27	0.72	0.0055

5. The Raytheon response dated June 3, 2008, stated that radioactivity in groundwater at the site was concluded to be naturally occurring based on the results of eight sampling events. However, there were only two sampling events (October 1991 and December 1991) with isotopic analysis of uranium to demonstrate the percentage of natural abundance of each natural uranium isotope for confirming its natural origin. In addition, there were only two sampling events with isotopic analysis of radium for measurements of radium-226 and radium-228 separately, to meet monitoring requirements for radium-228.

6. Upon review of the revised summary tables, Regional Board staff conclude that the following wells have radioactive contaminant levels in excess of the California MCLs.

	California MCL	October 1991, 22 wells sampled	December 1991, 28 wells sampled
Gross alpha particle activity (excluding radon & uranium)	15 pCi/L	MW-20D	none
Uranium	20 pCi/L	MW-19S, MW-21S, CM-8D, CM-9D, CM-10	CM-8D, CM-10, CM-12, CM-17, CM-18
Combined radium - 226+228	5 pCi/L	MW-16, MW-20D, MW-21D	MW-16, MW-21D

Pursuant to Section 13267 of the CWC, you are required to submit a work plan for a site-wide groundwater investigation to verify current radioactivity conditions. The groundwater monitoring wells shall be sampled for radioactivity including gross alpha particle activity, uranium, combined radium - 226+228, and gross beta particle activity. At a minimum, the work plan shall address those groundwater monitoring wells with radioactive contaminant levels in excess of the MCLs. The work plan must be submitted to the Regional Board by **September 15, 2008**.

Pursuant to Section 13268 of the CWC, failure to submit the required work plan by the due dates may result in civil liability administratively imposed by the Regional Board in an amount up to one thousand dollars ($1,000) for each day the work plan is not received.

Should you have any questions, please contact Dr. Ann Chang at (213) 620-6070, or Ms. Su Han at (213) 576-6735.

Sincerely,

David A. Bacharowski, AEO

Tracy J. Egoscue
Executive Officer

cc: Ms. Heather Collins, California Department of Health Services
Mr. Chris Nagler, Watermaster, California Department of Water Resources
Mr. Bernard Franklin, Los Angeles County, Department of Public Health
Mr. Hoover Ng, Water Replenishment District- Southern California
Mr. James Pappas, Department of Toxic Substances Control
Mr. Martin Herrmann, Department of Toxic Substances Control
Mr. Timothy Garvey, TN & Associates, Inc.
Mr. Jacques Marcillac, TN & Associates, Inc.

California Regional Water Quality Control Board
Los Angeles Region

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Linda S. Adams
Cal/EPA Secretary

Arnold Schwarzenegger
Governor

October 21, 2008

Mr. Daniel S. Samorano, P.E.
Project Manager
Raytheon Company
1151 East Hermans Road
TU, Bldg 826
Tucson, AZ 85706

Certified Mail
Return Receipt Requested
Claim No. 7005 1820 0001 2683 6986

COMMENTS ON DEFICIENT TECHNICAL REPORT – WORK PLAN FOR GROUNDWATER INVESTIGATION TO VERIFY CURRENT RADIOACTIVITY CONDITIONS PURSUANT TO CALIFORNIA WATER CODE SECTION 13267 ORDER – FORMER RAYTHEON FACILITY (HUGHES MISSILE SYSTEMS COMPANY), 8433 FALLBROOK AVENUE, CANOGA PARK, CALIFORNIA (WDR NO. 95-012, SLIC NO. 0693, SITE ID NO. 2043T00)

Dear Mr. Samorano:

Los Angeles Regional Water Quality Control Board (Regional Board) staff received and reviewed the *Work Plan for Groundwater Investigation to Verify Current Radioactivity Conditions* (Work Plan), dated September 12, 2008, prepared by TN & Associates, Inc. for the referenced site. This Work Plan was required by the Regional Board in the July 15, 2008 California Water Code (CWC) Section 13267 order.

Based on review of the information submitted, Regional Board staff have the following comments which shall be addressed in a revised work plan:

1. The groundwater samples shall be submitted to a state certified laboratory with Field of Testing in Radiochemistry of Drinking Water. Provide proof of Environmental Laboratory Certification when the investigation report is submitted to the Regional Board.

2. The groundwater samples shall be analyzed for:

   - Total dissolved solids (TDS) by EPA Method 160.1
   - Gross alpha by EPA Method 900.0 or 900.1
   - Radium-226 by EPA Method 903.0 or 903.1
   - Radium-228 by EPA Method 904.0
   - Uranium by EPA Method 908.0
   - Gross beta by EPA Method 900.0

3. In EPA Method 900.0 for gross alpha and gross beta measurement, the solids concentration is very much a limiting factor in the sensitivity of the method for any given groundwater sample because the radioactivity of the sample is not separated from the solids of the sample. For groundwater samples with solids content greater than 500 milligrams per liter (mg/L), EPA Method 900.1 is recommended.

4. EPA Method 903.0 covers the measurement of the total soluble alpha emitting radioisotopes of radium, namely radium-223, radium-224, and radium-226. When the total radium alpha activity of a groundwater sample is greater than 5 picocuries per liter (pCi/L), then the radium-226 analysis by EPA Method 903.1 is required.

5. Include a table containing information on container types, sample volumes, preservatives, special handling, and analytical holding times for each analysis.

6. Because adjusted gross alpha activity is calculated by subtraction of the uranium measurement from the gross alpha measurement, specify which standard will be used for gross alpha measurement.

7. EPA Method 908.0 only covers the measurements of total uranium alpha particle activity. Specify the EPA approved method for isotopic analysis of uranium.

8. Collect both filtered and unfiltered groundwater samples for the purpose of comparison in order to determine whether the suspended sediments could affect analytical results.

9. Specify field QA/QC program for radioactivity analyses of groundwater samples and provide supporting documentation. However, equipment (rinsate) blanks should be collected as field QA/QC samples and field duplicates should be at least 10% of total samples per event for QA/QC purposes.

10. Specify laboratory QA/QC program for radioactivity analyses of groundwater samples and provide supporting documentation.

11. Specify data validation procedures for radioactivity analyses of groundwater samples and provide supporting documentation.

12. Explain why all liquid Investigation-Derived Wastes will be transferred from the storage tank to the on-site groundwater remediation system. It is our understanding that the groundwater recovery and treatment system was shut down in April 2006.

13. Provide documentation of all analytical methods.

14. Provide a Statement of Qualifications for professionals who will be responsible for preparing a revised work plan, indicating project experience related to chemical and radiochemical analyses of environmental samples.

Please adequately address the aforementioned comments and submit a revised work plan to the Regional Board by **November 17, 2008.** In addition, the Regional Board staff will meet with the representatives of the Raytheon Company and TN & Associates to further discuss the content of the revised work plan on November 4, 2008.

Pursuant to CWC Section 13268, failure to submit the required technical reports/documents by the due date specified may result in civil liability penalties administratively imposed by the Regional Board in an amount up to one thousand dollars ($1,000) for each day the technical reports/documents are not received.

Should you have any questions, please contact Dr. Ann Chang at (213) 620-6070, or Ms. Su Han at (213) 576-6735.

Sincerely,

for David A. Boehmke, AEO
Tracy J. Egoscue
Executive Officer

cc: Mr. Stefan Cajina – California Department of Public Health
Mr. Chris Nagler, Watermaster, California Department of Water Resources
Mr. Bernard Franklin, Los Angeles County, Department of Public Health
Mr. Hoover Ng, Water Replenishment District- Southern California
Mr. James Pappas, Department of Toxic Substances Control
Mr. Rod Collins, Department of Toxic Substances Control
Mr. Jacques Marcillac, TN & Associates, Inc.

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Linda S. Adams
Cal/EPA Secretary

Arnold Schwarzenegger
Governor

January 29, 2009

Mr. Daniel S. Samorano, P.E.
Project Manager
Raytheon Company
1151 East Hermans Road
TU, Bldg 826
Tucson, AZ 85706

CONDITIONAL APPROVAL OF WORK PLAN REVISION FOR GROUNDWATER INVESTIGATION TO VERIFY CURRENT RADIOACTIVITY CONDITIONS PURSUANT TO CALIFORNIA WATER CODE SECTION 13267 ORDER – FORMER RAYTHEON FACILITY (HUGHES MISSILE SYSTEMS COMPANY), 8433 FALLBROOK AVENUE, CANOGA PARK, CALIFORNIA (SCP NO. 0693, SITE ID NO. 2043T00)

Dear Mr. Samorano:

Los Angeles Regional Water Quality Control Board (Regional Board) staff received and reviewed the *Work Plan Revision for Groundwater Investigation to Verify Current Radioactivity Conditions* (Work Plan), dated December 2008, prepared by TN & Associates, Inc. on behalf of Raytheon Company for the referenced site. The Work Plan proposes groundwater sampling and analysis for 11 site wells that had detected concentrations exceeding the current California Maximum Contaminant Levels (MCLs) for either gross alpha particle activity, uranium, and/or combined radium. The Work Plan was submitted in response to the Regional Board Order dated July 15, 2008 pursuant to California Water Code (CWC) Section 13267.

The Work Plan is approved with the following conditions:

- A site-specific Health and Safety Plan shall be available at the site and implemented during all field activities.
- All contaminated groundwater generated during well purging shall be managed in accordance with appropriate regulations.
- Pending the results of the proposed groundwater sampling and analysis, all wastes generated during field activities shall be properly manifested and disposed of in conformation with the State and Federal regulations.
- Please notify Regional Board staff at least 1 week before you start the proposed fieldwork.
- Following the completion of the groundwater sampling and analysis, a report summarizing the results of this investigation shall be submitted to the Regional Board by **May 30, 2009**. The report shall include the conclusions from this investigation and recommendations for additional assessments, as needed.

Pursuant to CWC section 13268, failure to submit the required technical report by the due date specified may result in civil liability penalties administratively imposed by the Regional Board in an amount up to one thousand dollars ($1,000) for each day the technical report is not received.

Should you have any questions, please contact Dr. Ann Chang at (213) 620-6070.

Sincerely,

Tracy J. Egoscue
Executive Officer

cc: Mr. Stefan Cajina, California Department of Public Health
Mr. Chris Nagler, Watermaster, California Department of Water Resources
Mr. Bernard Franklin, Los Angeles County, Department of Public Health
Mr. Hoover Ng, Water Replenishment District- Southern California
Mr. James Pappas, Department of Toxic Substances Control
Mr. Rod Collins, Department of Toxic Substances Control
Mr. Jacques Marcillac, TN & Associates, Inc.
Mr. William Preston Bowling, Aerospace Cancer Museum and Education
Ms. Christina Walsh, Cleanuprocketdyne.org
Ms. Bonnie Klea
Ms. Chris Rowe

T N & Associates, Inc.
Engineering and Science

TECHNICAL MEMORANDUM

Date: June 27th, 2006

Prepared For: Thizar-Tintut Williams
Los Angeles Regional Water Quality Control Board

Prepared By: T N & Associates, Inc.
Jacques Marcillac, R.G.
Project Geologist

Re: Request for Interim Shutdown of the Groundwater Recovery and Treatment System (GRTS), Modification to M&RP No. 7483 and Request for No Further Action for Southern Parcels
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, California
Compliance File No. CI-8567

Dear Ms. Williams,

This memorandum has been prepared on behalf of Raytheon Company (Raytheon) as a follow up to our April 20th, 2006 e-mail correspondence regarding operation of the groundwater recovery and treatment system (GRTS). In addition, this memorandum serves as a formal request to modify Monitoring and Reporting Program (MRP) No. 7483, which was originally implemented in December 1994 (associated with WDR Permit No. 95-012) and to request no further action status for areas of the former Raytheon facility where no groundwater impacts above MCLs have been well established. The following sections give an overview of the remedial activities at the site, summarize the requests and gives the rationale for each.

Remedial Activities Summary

Since the early 1990s, Raytheon has performed numerous remedial excavations at each of the areas were releases to soil were identified. Each excavation was completed to regulatory satisfaction thus removing a significant portion of the source material resultant from historical site operations. The most substantial remedial effort has been the installation of a site-wide soil and groundwater clean-up system that has been in operation since 1995 and continued to operate through 2006. The system consisted of an air sparge (AS) component, a soil vapor extraction (SVE) component and the GRTS. In 2005, the AS and SVE were shut down due to asymptotic and non-detect levels in the influent stream and to accommodate the implementation of an enhanced in-situ bioremediation program (EISB) where anaerobic conditions are necessary (AS/SVE is counter-productive for EISB activities). The GRTS system continued operation through 2005, but was scaled down to 2 of the original 17 extraction wells as approved in a March 21st, 2005 LARWQCB letter. Wells RW-01 and RW-02 continuously operated until April 2006 until the effluent sampling indicated that the naturally occurring sulfate levels exceeded the

waste discharge limit of 300 mg/L (effluent was 360 mg/L). A re-sampling event confirmed the elevated sulfate levels from these two wells at a concentration of 570 mg/L. The GRTS has remained shut down since April 2006 due to the sulfate issue.

The full scale EISB program for the northwest plume area at the site was implemented in two phases in October 2005 and May 2006 (see Figure 1). The second phase included treatment of the area directly upgradient to RW-01 and RW-02. RW-01 also serves as one of the 15 EISB monitoring points that is sampled quarterly to track remedial progress.

Request for Interim Shutdown of GRTS

Raytheon requests approval for interim shut down of the GRTS system be granted for the following reasons:

1) Recent EISB injection activities in the downgradient portion of the main plume. These activities will treat the leading edge of the groundwater plume

2) High sulfate levels. The sulfate levels for RW-01 and RW-02 exceed the WDR limits and cannot be feasibly treated to below the WDR limits.

3) Continued pumping in this area may adversely effect the EISB activities. This is due to the cyclic nature of the pumping were cascading well screens can aerate the groundwater causing localized aerobic conditions. Also, continued pumping will eventually extract the electron donating substrate in this area greatly reducing the effectiveness and longevity of the dechlorinating process.

4) Data from offsite wells CM-14, MW-19S, MW-19D, MW-20S and MW-20D have quantified that no significant offsite migration has ever occurred prior to the GRTS operation, during the GRTS operation and during sampling when the GRTS was shut down for approximately 1 year. This is likely due to plume stabilization from natural attenuation as well as the native state groundwater gradient in this area, which is very flat and often has a southward component, even when no pumping is occurring. This is consistent with the transition in geologic material from Modelo formation to alluvial sediments for this portion of the site.

5) The GRTS system has reached asymptotic influent levels since 2002 as illustrated in Graph 1.

The GRTS system will remain in operational condition to be used as a contingency measure if it is found that the EISB program in not effective.

Request for Modification to MRP No. 7483 and No Further Action for Southern Parcels

MRP No. 7483 was initiated in 1994 and included quarterly sampling of all site monitoring and extraction wells. This MRP was amended in an August 26th, 1997 LARWQCB letter reducing the sampling frequency to semi-annual for 10 selected wells (CM-7D, CM-8D, CM-10, CM-12, CM-16, MW-15, MW-16, MW-19S, MW-19D and MW-20S) and annual monitoring of wells M-1, CM-2D, CM-4D, CM-9D, CM-11A, CM-13, CM-14, CM-15, CM-17, CM-18, CM-19, MW-17, and

MW-23 through MW-31 and all recovery wells (RW-01 through RW-17) for VOCs by EPA Method 8260B. This program has been maintained consistently since September 1997 through the present. Monitoring data has indicated that several wells have been consistently below Maximum Contaminant Levels (MCLs) or non-detect for several years per the following:

Well ID	**Most Recent Date of Sample Above MCLs**
CM-7D	Always below MCLs
CM-9D	1998
CM-10	**1995**
CM-11A	**Always Non Detect**
CM-12	**2002**
CM-15	**Always below MCLs**
CM-16	Always below MCLs
CM-17	**2001**
CM-18	Always below MCLs
MW-15	Always below MCLs
MW-16	2002
MW-19S	Always below MCLs
MW-19D	Always Non Detect
MW-20S	Always Non Detect
MW-24	1998
MW-25	Always below MCLs
MW-26	1996
MW-27	Always below MCLs
MW-28	**1998**
MW-29	**1998**
MW-30	**Always below MCLs**
MW-31	**1999**

Thirteen of these wells (CM-7D, CM-9D, CM-16, CM-18, MW-15, MW-16, MW-19S, MW-19D, MW-20S, MW-24, MW-25, MW-26, MW-27) retain monitoring value as they are located in upgradient or downgradient positions from areas with on-going remediation, such as the northwest portion of the site and the "D Treatment Area" in the central-east portion of the site (Figure 1). However, nine of these wells (CM-10, CM-11A, CM-12, CM-15, CM-17, MW-28, MW-29, MW-30, MW-31) have served their purpose as to quantify that natural attenuation mechanisms have successfully addressed the residual contaminant concentrations. These wells are all located in the southern parcels of the site. Wells CM-12 and CM-15 were originally installed as distal down gradient sentry wells. According to the monitoring data, these wells are not downgradient from any of the identified groundwater plumes and have always been non-detect for all constituents of concern (COCs), except for one anomalous detection from a CM-12 sample in 2002 (see Appendix A). This was likely laboratory cross contamination as other anomalous detections in wells MW-16 and CM-18 were detected during the same event The other wells (CM-10, CM-11A, CM-17, MW-28, MW-29, MW-30, MW-31) were originally installed to delineate/monitor concentrations of trichlorofluoromethane (TCFM or "Freon 11") in groundwater resultant from maintenance activities of cooling units that was performed in the parking lot adjacent to MW-31. TCFM concentrations in wells CM-10 and MW-31 were slightly above the MCL of 150 µg/L in 1995 and 1999, respectively, but since this time have shown a

consistent decrease over the last 6 years (see Graphs 14 and 39, Appendix A). Samples from all the other wells surrounding the MW-31 area (CM-11A, CM-17, MW-28, MW-29, MW-30) have consistently been non-detect.

Figure 2 illustrates the well locations referenced above and Figure 3 illustrates the parcel locations (APN's 2005-002-011 and 2005-002-901). In light of this data, it is requested that these wells be removed from the monitoring program and these parcels receive no further action status as no groundwater impacts above MCLs exist in these areas.

It is also requested that the quarterly site-wide gauging program be reduced to semi-annual. All other provisions of MRP No. 7483 will remain as well as the remedial monitoring progress program as specified by MRP CI 8947.

Request for Well Abandonment

If the above modifications to the MRP are approved, the wells listed above will be abandoned in accordance with state and local regulations as funding becomes available. In addition to these wells, there are several other wells that are not in the current MRP because they either were installed too shallow and are always dry, were installed offsite at distal locations not downgradient from any existing plumes or were pilot test wells. These are as follows:

Well ID	Abandonment Rationale
CM-2	Always Dry (screened above 20' bg)
CM-3	Always Dry (screened above 20' bg)
CM-4	Always Dry (screened above 20' bg)
CM-7	Always Dry (screened above 20' bg)
CM-8	Always Dry (screened above 20' bg)
CM-9	Always Dry (screened above 20' bg)
MW-21S	Offsite Downgradient from Southern Parcels
MW-21D	Offsite Downgradient from Southern Parcels
MW-22S	Offsite Downgradient from Southern Parcels
MW-22D	Offsite Downgradient from Southern Parcels
VE-2	Pilot Test Well Not Used
VE-3	Pilot Test Well Not Used

Figure 2 illustrates the well locations.

Due to the rationale listed above, Raytheon requests approval for these wells to be abandoned in accordance with state and local regulations upon available funding.

For your convenience, all historical data for each monitoring well is provided in tabular and graphical format in Appendix A. For any other groundwater related data, please refer to the Annual 2005 groundwater monitoring report for the site, which was submitted in March 2006.

Please contact me with any questions at (805) 585-6382.

Sincerely,

Jacques Marcillac, P.G.
Project Manager

Attachments:

Figure 1 – Site Plan Showing Conceptual Design for EISB Implementation

Figure 2 – Site Plan Showing Wells and Remediation System Components

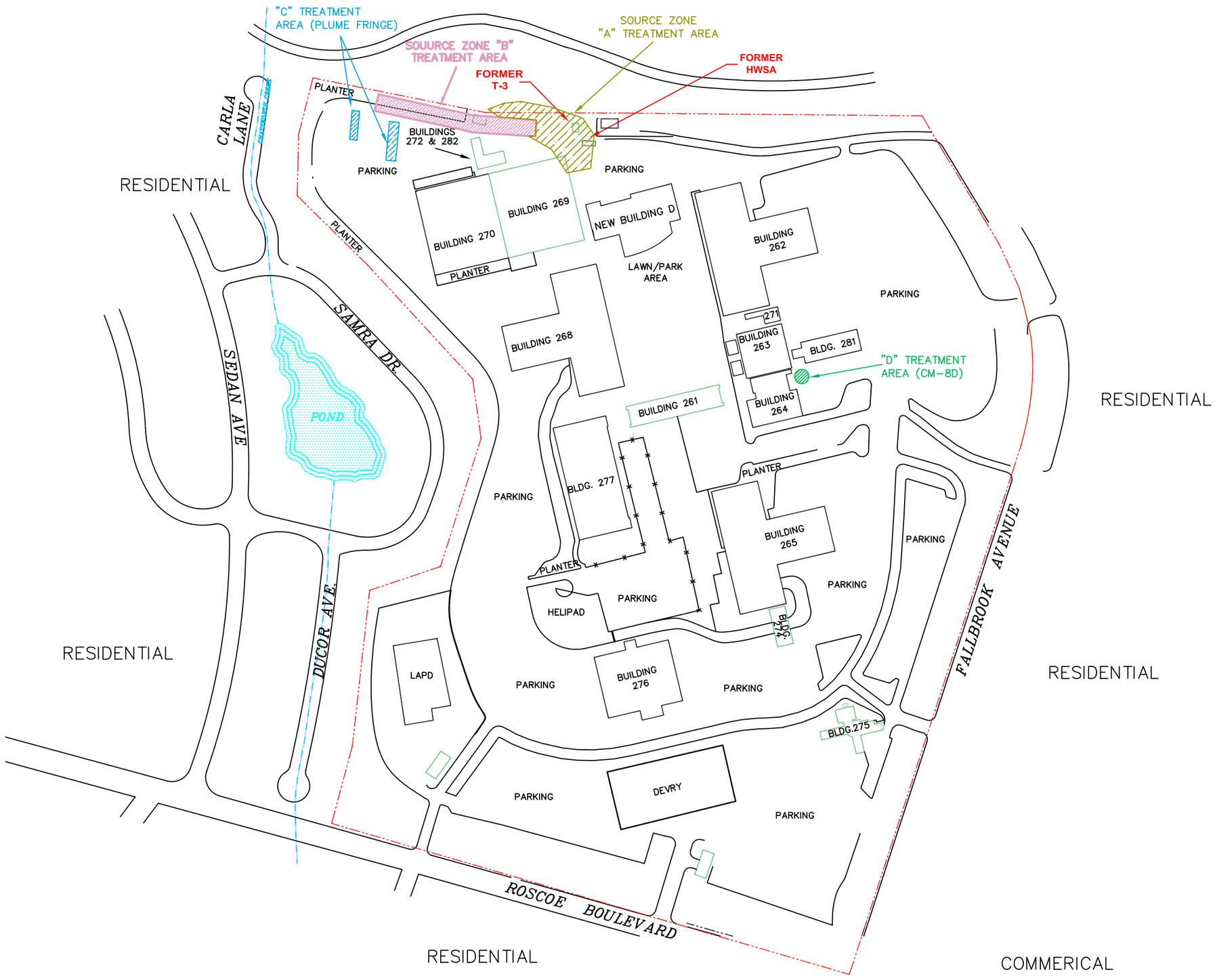
Figure 3 – Map Showing Southern Parcels

Graph 1 – Cumulative Graph of Treated Groundwater

Appendix A – Historical Groundwater Monitoring Data.

FIGURES

LOS ANGELES DEPARTMENT OF WATER AND POWER (OPEN SPACE)



LEGEND

- PROPERTY LINE
- FORMER CREEK TREND
- FORMER BUILDING
- CURRENT BUILDING

EISB SYSTEM TREATMENT AREAS

- SOURCE ZONE "A" TREATMENT AREA COMPLETED OCTOBER 2005
- SOURCE ZONE "B" TREATMENT AREA COMPLETED OCTOBER 2005 AND MAY 2006
- "C" TREATMENT AREA (CM-13) COMPLETED MAY 2006
- "D" TREATMENT AREA (CM-8D) SCHEDULED FOR 2007

N

SCALE IN FEET
0 140 280 420

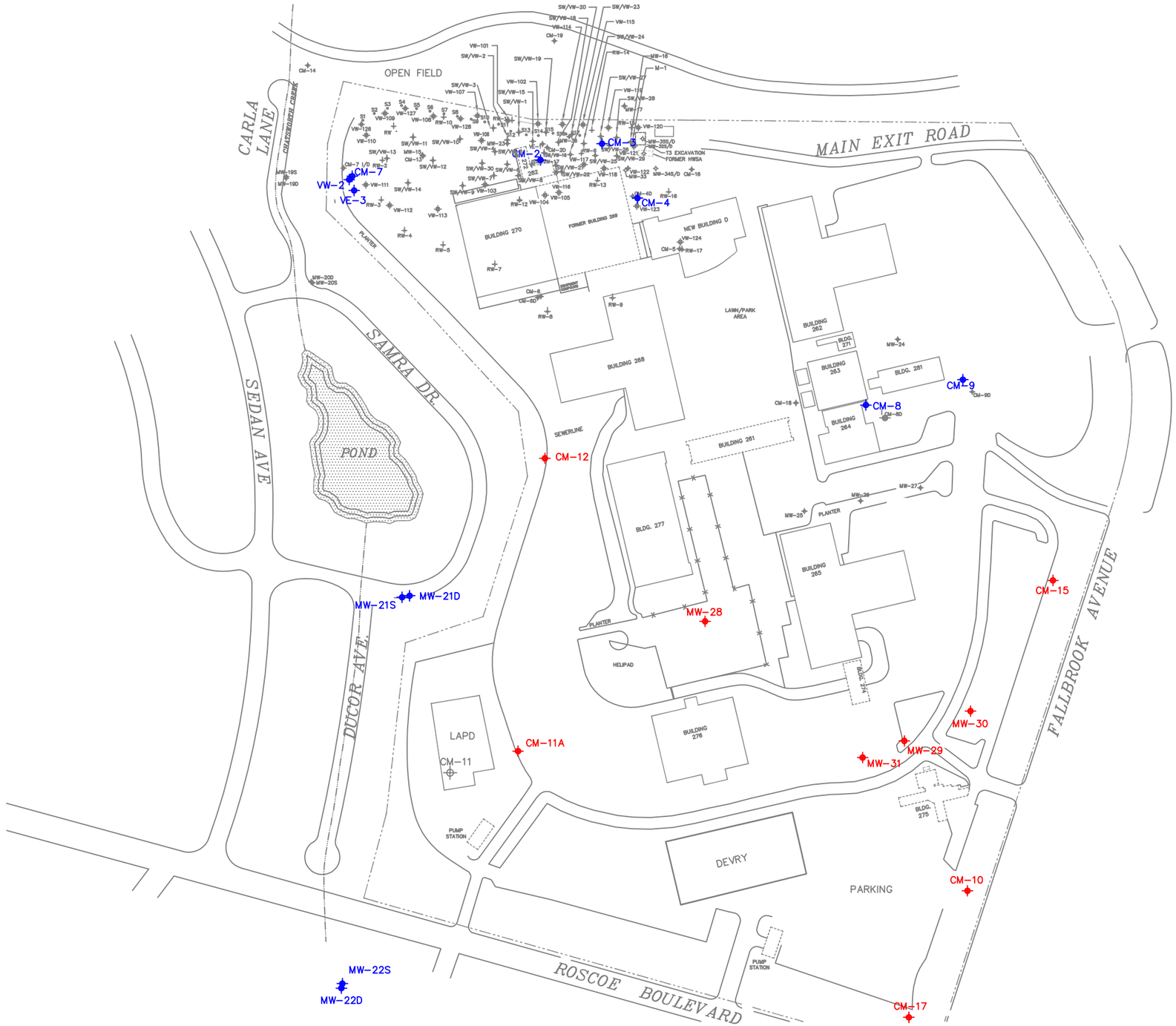
DATE:	FILE NAME:	APPROVED BY:
07/12/2004	RC-DATA-Q4.DWG	

SITE PLAN SHOWING CONCEPTUAL DESIGN FOR EISB IMPLEMENTATION

FORMER RAYTHEON FACILITY
8433 FALLBROOK AVENUE
CANOGA PARK, CALIFORNIA

T N & Associates, Inc.
Engineering and Science

FIGURE 1



LEGEND

- PROPERTY LINE
- FORMER CREEK TREND
- RW– : GROUNDWATER RECOVERY WELL LOCATION
- CM– / MW– : GROUNDWATER MONITORING WELL LOCATION
- CM– / MW– : WELLS TO BE REMOVED FROM MONITORING PROGRAM AND ABANDONED
- CM– / MW– : WELLS TO BE ABANDONED
- CM–11 : ABANDONED GROUNDWATER MONITORING WELL LOCATION
- RW– : ABONDONED RECOVERY WELL
- MW–32S/D : FORMER HAZARDOUS WASTE STORAGE AREA MONITORING WELL LOCATION
- S2 : TRIPLE NESTED SPARGE WELL
- SW/VW– : VAPOR EXTRACTION (/SPARGE) WELL LOCATION
- VW– : VAPOR EXTRACTION WELL LOCATION
- SPARGE (/VAPOR EXTRACTION) WELL LOCATION
- DIRECTIONALLY DRILLED WELL LOCATION
- CURRENT BUILDING
- FORMER BUILDING

SCALE IN FEET
0 140 280 420

DATE:	FILE NAME:	APPROVED BY:
06/23/2005	RC–DATA–Q4.DWG	

SITE PLAN SHOWING ALL WELLS AND REMEDIATION SYSTEM COMPONENTS

FORMER RAYTHEON FACILITY
8433 FALLBROOK AVENUE
CANOGA PARK, CALIFORNIA

TN & A — T N & Associates, Inc. Engineering and Science

FIGURE 2

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County of Los Angeles: Rick Auerbach, Assessor

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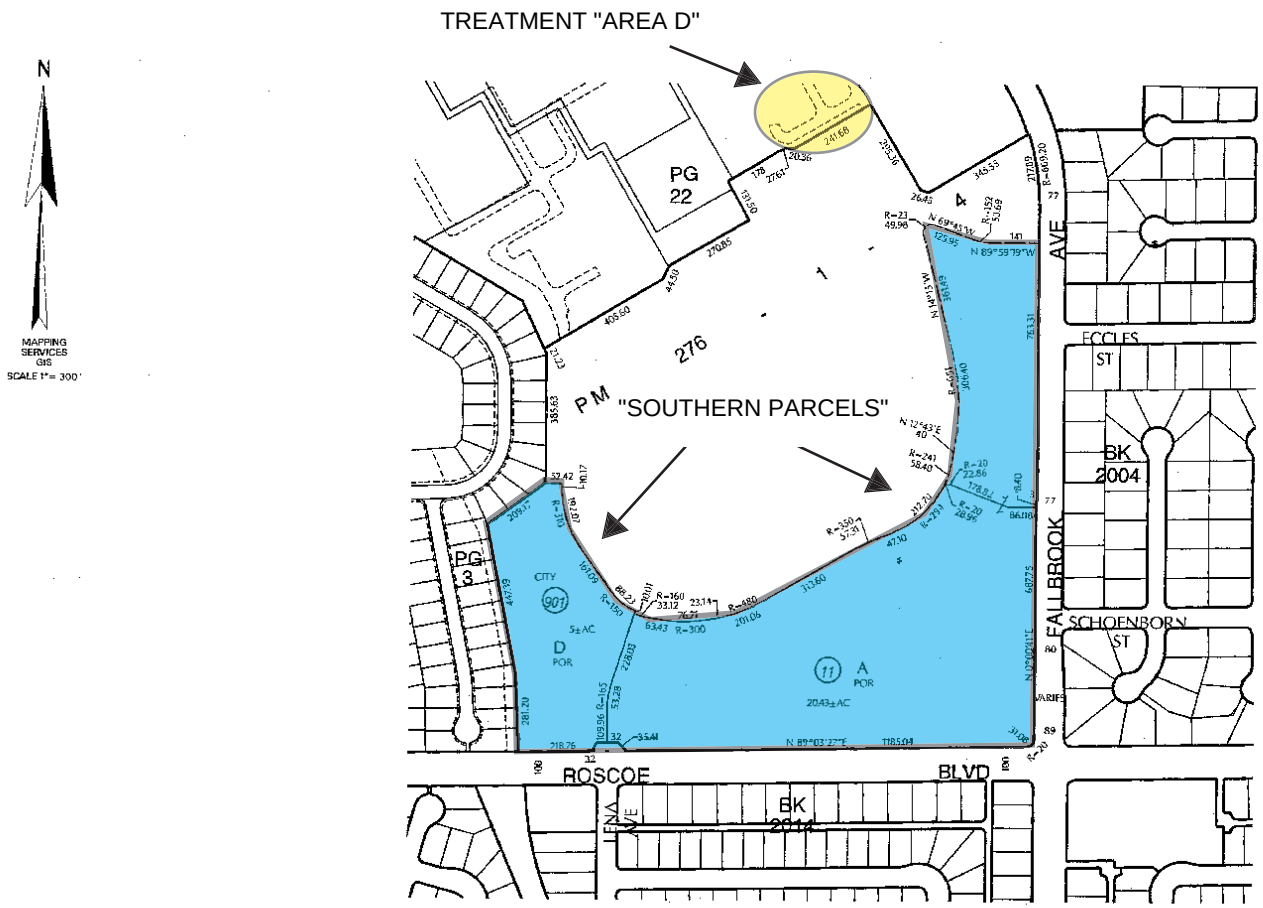


Reference:

Parcel map from Los Angeles County Office of the Assessor:

http://assessormap.co.la.ca.us/mapping/viewer.asp

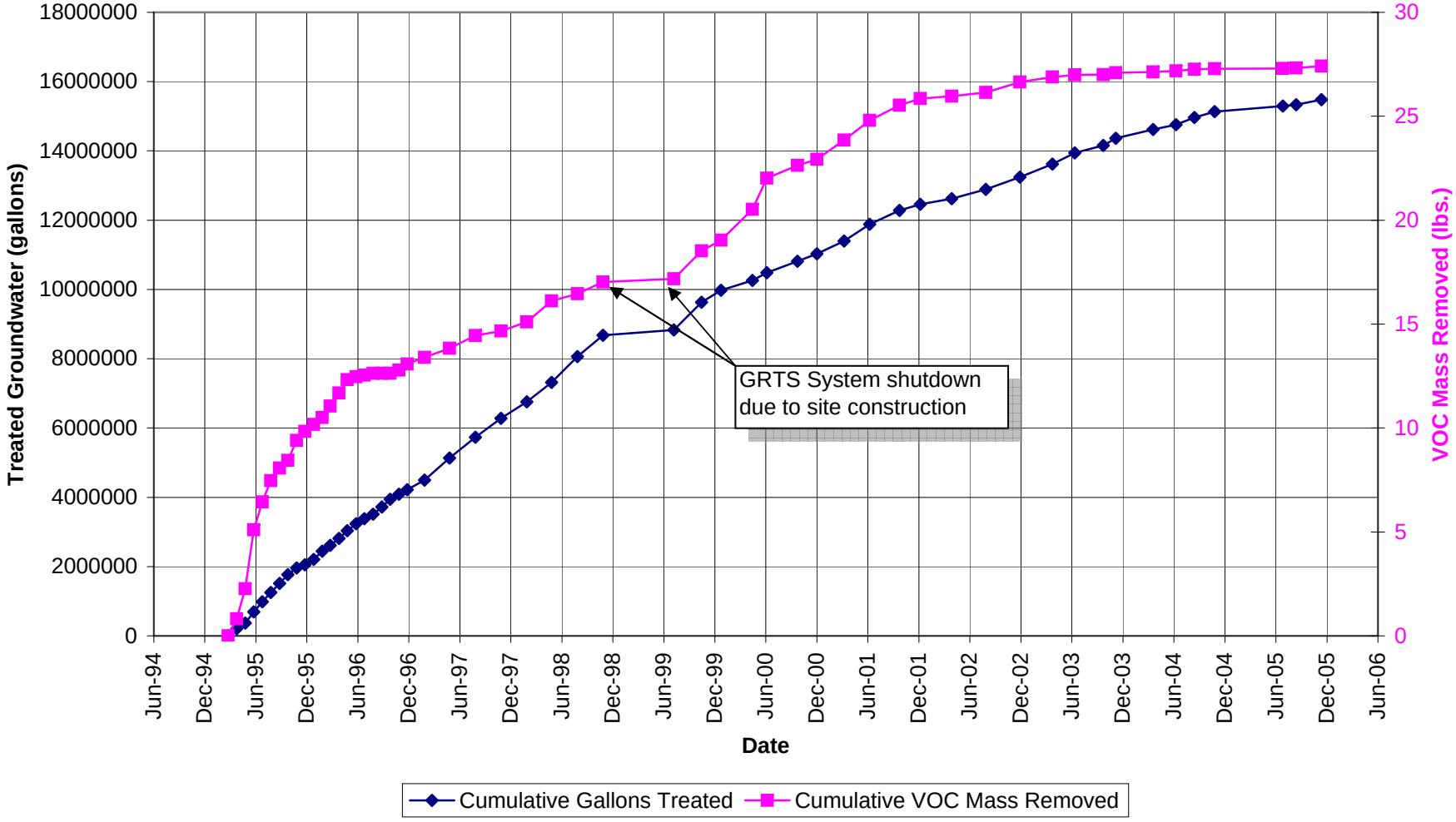
FIGURE 3

MAP SHOWING SOUTHERN PARCELS
FORMER RAYTHEON FACILITY
8433 FALLBROOK AVENUE, CANOGA PARK

GRAPHS

Graph 1 - Cumulative Graph of Treated Groundwater

Former Raytheon Facility
8433 Fallbrook Avenue
Canoga Park, California



APPENDIX A

HISTORICAL GROUNDWATER DATA

TABLE 5
DETECTABLE CONCENTRATIONS IN GROUNDWATER MONITORING WELLS - 1995-Present
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	BDM	Carbon Disulfide	Chloroform	DCA	1,2-DCA	DCE	1,2-DCE	Ethylbenzene	PCE	Toluene	TCA	TCE	TCFM	Total Xylenes
M-1	03/08/95	<10	<10	<40	<10	**30**	<10	**2,000**	<10	<10	<10	<10	**26**	**30**	<10	<20
	05/12/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**180**[B]	<5.0	<5.0	<5.0	<5.0	<5.0	**5.9**	<5.0	<15
	11/12/98	<2.0	<2.0	--	<2.0	**5.9**	**2.3**	**710**	<2.0	<2.0	**2.0**	<2.0	**3.8**	**18**	<5.0	<4.0
	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**19**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<15
	08/04/99	<0.5	<5.0	<5.0	<5.0	**7.1**	<5.0	**780**	<5.0	<5.0	**7.6**	<5.0	<5.0	**29**	<5.0	<15
	12/29/99	<5.0	<5.0	<5.0	<5.0	**7.0**	<5.0	**970**	<5.0	<5.0	**8.0**	<5.0	<5.0	**36**	<5.0	<15
	12/05/00	<0.5	<0.5	<0.5	0.69	**4.7**	**0.87**	**1,000**	<0.5	<0.5	**5.0**	<0.5	**1.4**	**21**	**1.3**	<1.5
	11/6/01[D]	<5.0	<5.0	<5.0	<5.0	**5.0**	<5.0	**680**	<5.0	<5.0	<5.0	<5.0	<5.0	**20**	<5.0	<15
	11/10/02	<0.5	<0.5	<0.5	**1.4**	**3.9**	<0.5	**810**	<0.5	<0.5	**9.4**	<0.5	**1.1**	**39**	**2.9**	<1.5
	11/09/03	<0.5	<0.5	<0.5	<0.5	**4.0**	<0.5	**620**	<0.5	<0.5	**6.9**	<0.5	**0.90**	**26**	<0.5	<1.5
	10/25/04	<1.0	<1.0	<1.0	<1.0	**2.9**	<1.0	**450**	<1.0	<1.0	**9.4**	<1.0	<1.0	**2.3**	<1.0	<3.0
	11/14/05	<2.5	<2.5	<2.5	<2.5	**3.4**	<2.5	**470**	<2.5	<2.5	**5.0**	<2.5	**5.0**	**22**	<2.5	<7.5
CM-2D	03/08/95	**290**	<10	<40	<10	<10	<10	**22**	<10	<10	<10	**630**	<10	<10	<10	<20
	05/12/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**69**	<5.0	<5.0	<5.0	<5.0	<5.0	**5.5**	<5.0	<15
	12/29/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**47**	<5.0	<5.0	<5.0	<5.0	<5.0	**17**	<5.0	<15
	12/05/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**42**	<0.5	<0.5	**2.6**	<0.5	<0.5	**13**	<0.5	<1.5
	11/06/01	<0.5	<0.5	<0.5	**0.53**	**0.55**	<0.5	**110**	<0.5	<0.5	**5.7**	<0.5	<0.5	**23**	<0.5	<1.5
	11/10/02	<0.5	<0.5	<0.5	**0.6**	<0.5	<0.5	**30**	**0.66**	<0.5	**4.0**	<0.5	<0.5	**15**	<0.5	<1.5
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**64**	<0.5	<0.5	**6.2**	<0.5	<0.5	**23**	<0.5	<1.5
	10/24/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**19**	<0.5	<0.5	**4.1**	<0.5	<0.5	**9.5**	<0.5	<1.5
	11/13/05	<0.5	<0.5	<0.5	<0.5	**0.61**	<0.5	**89**	<0.5	<0.5	**3.3**	<0.5	<0.5	**12**	<0.5	<1.5
CM-4D	03/08/95	<5.0	<5.0	<20	<5.0	<5.0	<5.0	**1,400**	<5.0	<5.0	**51**	<5.0	<5.0	**130**	<5.0	<15
	11/12/98	<2.0	<2.0	--	<2.0	<2.0	<2.0	**220**	<2.0	<2.0	**21**	<2.0	<2.0	**120**	<5.0	<4.0
	12/05/00	<0.5	<0.5	<0.5	**5.0**	**8.1**	**5.1**	**1,300**	<0.5	<0.5	**5.8**	<0.5	<0.5	**30**	<0.5	<1.5
	11/6/01[D]	<5.0	<5.0	<5.0	**5.1**	**6.7**	<5.0	**970**	<5.0	<5.0	**8**	<5.0	<5.0	**45**	<5.0	<15
	11/10/02	<0.5	<0.5	<0.5	**8.0**	**12**	**8.8**	**1,400**	<0.5	<0.5	**6.4**	<0.5	<0.5	**75**	<0.5	<1.5
	11/09/03	<0.5	<0.5	<0.5	**1.9**	**1.6**	**2.5**	**51**	<0.5	<0.5	**1.9**	<0.5	<0.5	**12**	<0.5	<1.5
	10/25/04	<0.5	<0.5	<0.5	**0.5**	<0.5	<0.5	**41**	<0.5	<0.5	**3.5**	<0.5	<0.5	**8.4**	<0.5	<1.5
	11/13/05	<0.5	<0.5	<0.5	**3.7**	**5.1**	**4.0**	**250**	<0.5	<0.5	**9.5**	<0.5	<0.5	**70**	<0.5	<1.5
CM-7	03/07/95	<3.0	<3.0	<10	<3.0	**9.4**	<3.0	**400**	**7.0**	<3.0	<3.0	<3.0	<3.0	**9.0**	<3.0	<6.0
	11/17/05	<0.5	<0.5	**0.52**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
CM-7D	03/07/95	<0.5	<0.5	**3.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	06/06/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**82**	<0.5	<0.5	<0.5	<1.0
	09/18/95	<0.5	<0.5	**3.4**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**3.8**	<0.5	<0.5	<0.5	<1.0
	12/04/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.62**	<0.5	<0.5	<0.5	<1.0
	02/13/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	05/14/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	08/13/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	11/11/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	05/13/97	<2.0	<2.0	--	--	--	--	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	12/17/97	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0

TABLE 5
DETECTABLE CONCENTRATIONS IN GROUNDWATER MONITORING WELLS - 1995-Present
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	BDM	Carbon Disulfide	Chloroform	DCA	1,2-DCA	DCE	1,2-DCE	Ethylbenzene	PCE	Toluene	TCA	TCE	TCFM	Total Xylenes
CM-7D	05/12/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<15
(cont'd)	11/12/98	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<10
	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<15
	12/28/99[C]	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<500
	05/11/00	**0.73**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.4**	<0.5	**1.5**	<0.5	<0.5	<0.5	**5.9**
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**2.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	06/26/01	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/07/01	<0.5	<0.5	**1.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	05/22/02	<0.5	<0.5	**0.59**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/10/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	06/15/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/10/03	<0.5	<0.5	**14**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	10/23/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	6/29/05	<0.5	<0.5	**0.91**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
CM-8D	03/08/95	<3.0	<3.0	<10	<3.0	**14**	<3.0	**270**	<3.0	<3.0	<3.0	<3.0	**5.4**	**45**	**54**	<6.0
	06/05/95	<1.0	<1.0	<4.0	**4.0**	**6.9**	<1.0	**190**	<1.0	<1.0	<1.0	**4.4**	**2.3**	**43**	**12**	<2.0
	09/19/95	<0.5	<0.5	<2.0	**3.4**	**4.7**	<0.5	**93**	<0.5	<0.5	**0.86**	<0.5	**1.7**	**41**	**8.4**	<1.0
	12/04/95	<0.5	<0.5	<2.0	**4.6**	**5.6**	<0.5	**110**	<0.5	<0.5	**0.69**	<0.5	**1.6**	**47**	**11**	<1.0
	2/13/96[A]	<10	<10	--	<10	**20**	<10	**440**	<10	<10	<10	<10	<10	**64**	<25	<20
	5/14/96[A]	<10	<10	--	<10	**20**	<10	**460**	<10	<10	<10	<10	<10	**63**	**49**	<20
	8/13/96	<2.0	<2.0	--	**3.2**	**4.8**	<2.0	**110**	<2.0	<2.0	<2.0	<2.0	<2.0	**32**	**18**	<4.0
	11/11/96	<2.0	<2.0	--	**3.6**	**5.3**	<2.0	**100**	<2.0	<2.0	<2.0	<2.0	<2.0	**31**	**17**	<4.0
	05/12/97	<2.0	<2.0	--	**3.0**	**3.8**	<2.0	**58**	<2.0	<2.0	<2.0	<2.0	<2.0	**29**	**24**	<4.0
	12/16/97	<2.0	<2.0	--	**2.5**	**2.7**	<2.0	**46**	<2.0	<2.0	<2.0	<2.0	<2.0	**23**	**30**	<4.0
	05/12/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**55**	<5.0	<5.0	<5.0	<5.0	<5.0	**18**	**19**	<15
	11/11/98	<2.0	<2.0	--	**2.6**	**3.9**	<2.0	**63**	<2.0	<2.0	<2.0	<2.0	<2.0	**24**	**18**	<4.0
	06/25/99	<5.0	<5.0	<5.0	**8.0**	**10**	<5.0	**200**	<5.0	<5.0	<5.0	<5.0	<5.0	**87**	**69**	<15
	10/19/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**60**	<5.0	<5.0	<5.0	<5.0	<5.0	**24**	**17**	<15
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**46**	<5.0	<5.0	<5.0	<5.0	<5.0	**23**	**14**	<15
	05/11/00	<0.5	<0.5	<0.5	**4.1**	**5.7**	<5.0	**110**	<0.5	<5.0	<5.0	<5.0	<5.0	**24**	**22**	<1.5
	12/07/00	<0.5	<0.5	<0.5	**3.8**	**8.1**	**0.79**	**140**	<0.5	<0.5	**0.85**	<0.5	**0.9**	**36**	**5.3**	<1.5
	06/26/01	<0.5	<0.5	--	**4.9**	**15**	<0.5	**230**	**1.3**	<0.5	**2.6**	<0.5	0.5	**55**	**35**	<1.5
	11/08/01	<0.5	<0.5	<0.5	**5.2**	**18**	**1.7**	**340**	**1.9**	<0.5	**2.2**	<0.5	<0.5	**62**	**58**	<1.5
	05/22/02	<0.5	<0.5	<0.5	**4.2**	**10**	**1.6**	**230**	**1.6**	<0.5	<0.5	<0.5	<0.5	**27**	**11**	<1.5
	11/12/02	<2.5	<2.5	<2.5	**5.4**	**18**	<2.5	**510**	<2.5	<2.5	<2.5	<2.5	<2.5	**62**	**56**	<7.5
	06/16/03	<0.5	<0.5	<0.5	**4.6**	**10**	<0.5	**200**	<0.5	<0.5	<0.5	<0.5	<0.5	**31**	**14**	<1.5

TABLE 5
DETECTABLE CONCENTRATIONS IN GROUNDWATER MONITORING WELLS - 1995-Present
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	BDM	Carbon Disulfide	Chloroform	DCA	1,2-DCA	DCE	1,2-DCE	Ethylbenzene	PCE	Toluene	TCA	TCE	TCFM	Total Xylenes
CM-8D	11/10/03	<1.0	<1.0	<1.0	**4.8**	**11**	<1.0	**220**	<1.0	<1.0	<1.0	<1.0	<1.0	**34**	**6.3**	<3.0
(cont'd)	06/12/04	<1.0	<1.0	<1.0	**3.8**	**6.7**	<1.0	**140**	**0.54**	<1.0	<1.0	<1.0	<1.0	**27**	**6.5**	<3.0
	10/21/04	<0.5	<0.5	<0.5	**3.1**	**9.4**	**0.95**	**200**	**1.1**	<0.5	**2.7**	<0.5	<0.5	**24**	**9.3**	<1.5
	06/29/05	<0.5	<0.5	<0.5	**4.7**	**11**	**1.5**	**170**	**1.2**	<0.5	<0.5	<0.5	<0.5	**42**	**10**	<1.5
	11/14/05	<0.5	<0.5	<0.5	**4.3**	**9.9**	**1.3**	**130**	**0.98**	<0.5	**0.91**	<0.5	<0.5	**34**	**7.6**	<1.5
CM-9D	03/07/95	<0.5	<0.5	<2.0	<0.5	**2.8**	<0.5	**22**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	12/15/97	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	11/11/98	<2.0	<2.0	--	<2.0	<2.0	<2.0	**12**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<15
	12/07/00	<0.5	<0.5	<0.5	**0.65**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.82**	<1.5
	11/08/01	<0.5	<0.5	<0.5	**0.74**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.3**	<1.5
	11/12/02	<0.5	<0.5	<0.5	**0.64**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	10/21/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.4**	<1.5
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.7**	<1.5
CM-10	03/08/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**190**	<4.0
	06/07/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.58**	<0.5	<0.5	**93**	<4.0
	09/18/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**100**	<4.0
	12/04/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**120**	<4.0
	2/13/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<20	<2.0	**39**	<4.0
	5/14/96[A]	<10	<10	--	<10	<10	<10	<25	<10	<10	<10	<10	<10	<10	**110**	<20
	8/12/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**88**	<4.0
	11/11/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<10	<2.0	<2.0	<2.0	<2.0	<2.0	**120**	<4.0
	5/13/97	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**93**	<4.0
	12/15/97	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**100**	<4.0
	05/12/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**120**	<15
	12/04/98	<5.0	<5.0	--	<5.0	<2.0	<2.0	<5.0	<5.0	<2.0	<2.0	<5.0	<5.0	<2.0	**110**	<15
	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<15
	08/04/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**93**	<15
	10/19/99	<5.0	<5.0	<5.0	<5.0	<.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**74**	<15
	12/27/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**82**	<15
	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**80**	<1.5
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**55**	<1.5
	06/26/01	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**56**	<1.5
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**55**	<1.5
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**29**	<1.5
	11/13/02	<0.5	<0.5	<0.5	**2.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	06/16/03	<0.5	<0.5	**0.58**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5

TABLE 5
DETECTABLE CONCENTRATIONS IN GROUNDWATER MONITORING WELLS - 1995-Present
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	BDM	Carbon Disulfide	Chloroform	DCA	1,2-DCA	DCE	1,2-DCE	Ethylbenzene	PCE	Toluene	TCA	TCE	TCFM	Total Xylenes
CM-10	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**56**	<1.5
(cont'd)	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**47**	<1.5
	6/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**40**	<1.5
	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**40**	<1.5
CM-11	03/07/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	**3.0**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.3**	<0.5	<1.0
Well abandoned	12/17/97	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
CM-11A	08/11/98	<1.0	<1.0	--	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0
	11/12/98	<2.0	<2.0	--	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<0.5	<4.0
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<15
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	01/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/11/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	10/21/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
CM-12	03/07/95	<0.5	<0.5	<2.0	**1.4**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	06/06/95	<0.5	<0.5	<2.0	**1.0**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**9.3**	<0.5	<0.5	<5.0	<4.0
	09/19/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<4.0
	12/04/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<4.0
	12/16/97	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<15
	05/11/00	<0.5	<0.5	**1.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	06/26/01	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.58**	<0.5	<0.5	<0.5	<0.5	<1.5
	11/07/01	<0.5	<0.5	**1.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/10/02	<0.5	<0.5	<0.5	**1.2**	<0.5	<0.5	<0.5	**7.2**	<0.5	**4.0**	<0.5	<0.5	**27**	<0.5	<1.5
	06/15/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	6/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
CM-13	03/08/95	**6.0**	<0.5	<10	<0.5	**7.6**	<3.0	**230**	<3.0	<0.5	<0.5	<0.5	<0.5	**31**	<0.5	<1.0
	12/17/97	<2.0	<2.0	--	<2.0	**3.2**	<2.0	**94**	<2.0	<2.0	<2.0	<2.0	<2.0	**9.4**	<5.0	<4.0
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<15
	12/06/00	<0.5	<0.5	<0.5	<0.5	**2**	<0.5	**75**	**1.9**	<0.5	<0.5	<0.5	<0.5	**4.8**	<0.5	<1.5
	11/07/01	**0.69**	<0.5	<0.5	<0.5	**6.4**	**1.0**	**310**	**1.2**	<0.5	**1.2**	<0.5	<0.5	**14**	<0.5	<1.5
	11/12/02	<1.0	<1.0	<1.0	<1.0	**4.4**	<1.0	**310**	<1.0	<1.0	<1.0	<1.0	<1.0	**8.1**	<1.0	<1.5
	11/10/03	<0.5	<0.5	<0.5	<0.5	**4.9**	<0.5	**240**	<0.5	<0.5	**0.56**	<0.5	<0.5	**7.5**	<0.5	<1.5
	10/23/04	<0.5	<0.5	<0.5	<0.5	**5.0**	<0.5	**250**	**0.77**	<0.5	**2.4**	<0.5	<0.5	**9.3**	<0.5	<1.5
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5

TABLE 5
DETECTABLE CONCENTRATIONS IN GROUNDWATER MONITORING WELLS - 1995-Present
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	BDM	Carbon Disulfide	Chloroform	DCA	1,2-DCA	DCE	1,2-DCE	Ethylbenzene	PCE	Toluene	TCA	TCE	TCFM	Total Xylenes
CM-14	06/06/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<4.0
	09/19/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	12/04/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	02/13/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	05/14/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	08/13/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	11/11/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	12/16/97	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	11/12/98	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	12/29/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<15
	12/05/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	10/24/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
CM-15	03/08/95	<0.5	<0.5	**2.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	06/06/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**34**	<0.5	<0.5	<0.5	<1.0
	09/18/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	12/04/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	02/13/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	05/14/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	08/13/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	11/11/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	12/15/97	<2.0	<2.0	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	11/11/98	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	12/27/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<15
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/13/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
CM-16	03/08/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	05/13/97	<2.0	<2.0	--	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	12/17/97	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	05/12/98	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<15
	11/12/98	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<15
	12/29/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<15
	05/11/00	<0.5	**0.65**	**0.62**	**1.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5

TABLE 5
DETECTABLE CONCENTRATIONS IN GROUNDWATER MONITORING WELLS - 1995-Present
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	BDM	Carbon Disulfide	Chloroform	DCA	1,2-DCA	DCE	1,2-DCE	Ethylbenzene	PCE	Toluene	TCA	TCE	TCFM	Total Xylenes
CM-16	12/05/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
cont'd	06/26/01	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/06/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/10/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	06/15/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/09/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	06/13/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	10/25/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	6/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
CM-17	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
CM-18	03/08/95	<0.5	<0.5	<2.0	**2.0**	<0.5	<0.5	**2.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	12/16/97	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**59**	<4.0
	11/12/98	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**12**	<4.0
	12/07/00	<0.5	<0.5	<0.5	**1.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**11**	<1.5
	11/07/01	<0.5	<0.5	<0.5	**2.7**	<0.5	<0.5	**1.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**2.5**	<1.5
	11/10/02	<0.5	<0.5	<0.5	**1.9**	<0.5	<0.5	**4.4**	**1.2**	<0.5	**0.91**	<0.5	<0.5	**4.5**	**5.2**	<1.5
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**10**	<1.5
	10/21/04	<0.5	<0.5	<0.5	**0.76**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.3**	<1.5
	11/16/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**6.1**	<1.5
CM-19	03/07/95	<0.5	<0.5	<0.5	--	--	<0.5	**6.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	06/06/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**7.6**	<0.5	<0.5	<0.5	**5.5**	<0.5	<0.5	<0.5	<1.0
	09/19/95	<0.5	<0.5	<2.0	--	--	<0.5	**2.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	12/04/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	**1.4**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	02/13/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	05/14/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	08/13/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	11/11/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	12/16/97	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	11/12/98	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	12/29/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<15
	12/05/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**5.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**5.0**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/09/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**4.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	10/24/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**3.0**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**6.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5

TABLE 5
DETECTABLE CONCENTRATIONS IN GROUNDWATER MONITORING WELLS - 1995-Present
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	BDM	Carbon Disulfide	Chloroform	DCA	1,2-DCA	DCE	1,2-DCE	Ethylbenzene	PCE	Toluene	TCA	TCE	TCFM	Total Xylenes
MW-15	03/08/95	<0.5	<0.5	**8.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	06/06/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.79**	<0.5	<0.5	<0.5	<1.0
	09/19/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	12/04/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	2/13/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	5/14/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	**14**	<2.0	<2.0	<5.0	<4.0
	8/13/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	11/11/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	5/13/97	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	12/17/97	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	,5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<15
	05/11/00	**0.73**	**1.0**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.9**	<0.5	<0.5	<0.5	**5.8**
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**4.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	06/26/01	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.95**	<0.5	<0.5	<0.5	<1.5
	11/07/01	<0.5	<0.5	**0.56**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	05/22/02	<0.5	<0.5	**1.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	06/15/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.5**	<0.5	<0.5	<0.5	<1.5
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	06/13/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	10/23/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.5**	<0.5	<0.5	<0.5	<1.5
	6/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.7**	<0.5	<0.5	<0.5	<1.5
MW-16	03/08/95	<0.5	<0.5	**2.4**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	06/06/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.5**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	09/19/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	12/04/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	02/13/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	05/14/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	08/13/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	11/11/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	05/13/97	<2.0	<2.0	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	12/17/97	<2.0	<2.0	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	11/12/98	<2.0	<2.0	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	11/06/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/10/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**5.9**	**6.9**	<0.5	**8.3**	<0.5	<0.5	**280**	<0.5	<1.5
	06/15/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/09/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<1.5

TABLE 5
DETECTABLE CONCENTRATIONS IN GROUNDWATER MONITORING WELLS - 1995-Present
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	BDM	Carbon Disulfide	Chloroform	DCA	1,2-DCA	DCE	1,2-DCE	Ethylbenzene	PCE	Toluene	TCA	TCE	TCFM	Total Xylenes
MW-16	06/13/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<1.5
(cont'd)	10/25/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	6/29/05	<0.5	<0.5	**0.53**	<0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/13/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<1.5
MW-17	03/07/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	**48**	<0.5	<0.5	**2.4**	<0.5	**13**	**4.4**	**0.7**	<1.0
	12/16/97	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	11/12/98	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<15
	12/29/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**12**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<15
	12/05/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**7.7**	<0.5	<0.5	**0.7**	<0.5	<0.5	**1.1**	<0.5	<1.5
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**13**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**11**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/09/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**5.2**	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	10/25/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**2.6**	< 0.5	<0.5	**2.4**	<0.5	<0.5	**0.59**	<0.5	<1.5
	11/13/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
MW-19S	03/07/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	06/07/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**6.4**	<0.5	<0.5	<0.5	<1.0
	09/18/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	12/03/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	02/13/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	05/14/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	08/13/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	11/11/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	12/16/97	<2.0	<2.0	--	**2.9**	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	05/12/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<15
	11/10/98	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<15
	12/27/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<15
	05/11/00	<0.5	<0.5	**1.0**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	06/26/01	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/08/01	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.5
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	06/16/03	<0.5	<0.5	<0.5	**2.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/13/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	06/13/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	10/23/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	6/29/05	<0.5	<0.5	**1.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/16/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5

TABLE 5
DETECTABLE CONCENTRATIONS IN GROUNDWATER MONITORING WELLS - 1995-Present
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	BDM	Carbon Disulfide	Chloroform	DCA	1,2-DCA	DCE	1,2-DCE	Ethylbenzene	PCE	Toluene	TCA	TCE	TCFM	Total Xylenes
MW-19D	03/07/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	06/07/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**84**	<0.5	<0.5	<0.5	<1.0
	09/18/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	12/03/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	02/13/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	05/14/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	08/13/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	11/11/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	12/16/97	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	11/10/98	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<15
	12/27/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<15
	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	06/16/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/13/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	06/13/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	10/23/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	6/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/16/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
MW-20S	03/07/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	06/07/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	09/18/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	12/03/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	02/13/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	05/14/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	08/13/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	11/11/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	05/13/97	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	12/16/97	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	05/12/98	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<15
	11/10/98	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<15

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Well ID	Date Sampled	Benzene	BDM	Carbon Disulfide	Chloroform	DCA	1,2-DCA	DCE	1,2-DCE	Ethylbenzene	PCE	Toluene	TCA	TCE	TCFM	Total Xylenes
MW-20S	12/27/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.00.	<5.0	<5.0	<5.0	<15
cont'd	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	06/26/01	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/08/01	<0.5	<0.5	**0.58**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	05/22/02	<0.5	<0.5	**1.5**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	06/16/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/13/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	06/13/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	10/23/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	6/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/16/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
MW-21S	03/07/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	**0.6**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.0**	<0.5	<1.0
	09/18/95	<0.5	<0.5	**23**	<0.5	<0.5	<0.5	**0.87**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.1**	<0.5	<1.0
	12/04/95	<0.5	<0.5	**2.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	02/13/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	05/14/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	08/13/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	11/11/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
MW-22S	03/07/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	**1.7**	<0.5	<0.5	**1.1**	<0.5	<0.5	<0.5	<0.5	<1.0
MW-23	03/08/95	<5.0	<5.0	<20	<5.0	**61**	<5.0	**2,000**	<5.0	<5.0	**14**	**5.4**	**99**	**68**	<5.0	<1.0
	05/12/98	<5.0	<5.0	<5	<5.0	<5.0	<5.0	**7.8**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<15
	12/29/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**85**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<15
	12/06/00	**0.64**	<0.5	<0.5	<0.5	**1.8**	**0.64**	**63**	<0.5	<0.5	<0.5	**0.63**	<0.5	**3.9**	<0.5	<1.5
	11/08/01	<0.5	<0.5	<0.5	<0.5	**1.2**	<0.5	**73**	<0.5	<0.5	**0.97**	<0.5	<0.5	**3.8**	<0.5	<1.5
	11/10/02	**0.74**	<0.5	<0.5	<0.5	**0.97**	<0.5	**82**	**1.9**	<0.5	<0.5	<0.5	<0.5	**2.1**	<0.5	<1.5
	11/10/03	<0.5	<0.5	<0.5	<0.5	**1.1**	<0.5	**60**	<0.5	<0.5	**0.53**	<0.5	<0.5	**3.1**	<0.5	<1.5
	10/23/04	<0.5	<0.5	<0.5	<0.5	**1.2**	<0.5	**33**	<0.5	<0.5	<0.5	<0.5	<0.5	**2.1**	<0.5	<1.5
	11/13/05	**0.51**	<0.5	<0.5	<0.5	**1.4**	**0.7**	**120**	<0.5	<0.5	<0.5	<0.5	<0.5	**2.5**	<0.5	<1.5
MW-24	11/11/98	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	<2.0	<5.0	<4.0
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/08/01	<0.5	<0.5	<0.5	**0.51**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	10/21/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/16/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5

TABLE 5
DETECTABLE CONCENTRATIONS IN GROUNDWATER MONITORING WELLS - 1995-Present
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	BDM	Carbon Disulfide	Chloroform	DCA	1,2-DCA	DCE	1,2-DCE	Ethylbenzene	PCE	Toluene	TCA	TCE	TCFM	Total Xylenes
MW-25	03/08/95	<0.5	<0.5	**5.3**	**22**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	12/15/97	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	11/11/98	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	<2.0	<5.0	<4.0
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<15
	12/07/00	<0.5	<0.5	<0.5	**1.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/07/01	<0.5	<0.5	<0.5	**1.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/12/02	<0.5	<0.5	<0.5	**1.4**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/12/03	<0.5	<0.5	<0.5	**0.95**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	10/21/04	<0.5	<0.5	<0.5	**1.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/16/05	<0.5	<0.5	<0.5	**0.71**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
MW-26	03/07/95	<0.5	<0.5	<2.0	**1.4**	<0.5	<0.5	**0.8**	<0.5	<0.5	<0.5	<0.5	**0.6**	<0.5	<0.5	<1.0
	06/07/95	<0.5	<0.5	<2.0	**0.87**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**24**	<0.5	<0.5	<0.5	<1.0
	09/18/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	12/04/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	2/13/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	5/13/96	<2.0	<2.0	--	**2.3**	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	8/13/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	11/11/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	12/16/97	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	11/11/98	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<15
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.64**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	10/22/04	<0.5	<0.5	<0.5	**0.67**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/16/05	<0.5	<0.5	<0.5	**0.76**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
MW-27	03/07/95	<0.5	<0.5	<2.0	**0.7**	<0.5	<0.5	**1.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	06/06/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	**1.8**	<0.5	<0.5	<0.5	**2.8**	<0.5	<0.5	<0.5	<1.0
	09/19/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	**0.81**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	12/04/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	**0.61**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	02/13/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	05/14/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	08/13/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	11/11/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	12/16/97	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	11/11/98	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<15

TABLE 5
DETECTABLE CONCENTRATIONS IN GROUNDWATER MONITORING WELLS - 1995-Present
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	BDM	Carbon Disulfide	Chloroform	DCA	1,2-DCA	DCE	1,2-DCE	Ethylbenzene	PCE	Toluene	TCA	TCE	TCFM	Total Xylenes
MW-27	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.54**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
(cont'd)	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.5**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
MW-28	11/11/98	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/11/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	10/25/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
MW-29	11/11/98	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<15
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	10/21/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.66**	<1.5
MW-30	03/07/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	06/05/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	**21**	<0.5	<0.5	<0.5	<1.0
	09/19/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	**3.8**	<0.5	<0.5	<0.5	<1.0
	12/04/95	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
	02/13/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	05/14/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	08/13/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	11/11/96	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	12/15/97	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	11/11/98	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	12/27/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.5
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/13/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5
	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5

TABLE 5
DETECTABLE CONCENTRATIONS IN GROUNDWATER MONITORING WELLS - 1995-Present
Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	BDM	Carbon Disulfide	Chloroform	DCA	1,2-DCA	DCE	1,2-DCE	Ethylbenzene	PCE	Toluene	TCA	TCE	TCFM	Total Xylenes
MW-31	08/11/98	<1.0	<1.0	--	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**160**	<2.0
	11/11/98	<2.0	<2.0	--	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0
	12/04/98	<5.0	<5.0	--	<5.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0	**190**	<4.0
	08/04/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<15
	10/19/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**160**	<15
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**130**	<15
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.53**	<0.5	<0.5	<0.5	**130**	<1.5
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**110**	<1.5
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**120**	<1.5
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**120**	<1.5
	10/21/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**92**	<1.5
	11/14/05	<0.5	<0.5	**0.51**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**81**	<1.5
MW-36	09/30/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**3.1**	<0.5	<0.5	<0.5	<0.5	<0.5	**2.7**	<0.5	<0.5
	11/14/05	<0.5	<0.5	**0.79**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Notes:

1.) All concentrations in µg/L.

2.) All analyses done by EPA Method 8260, 8260B or 8021B.

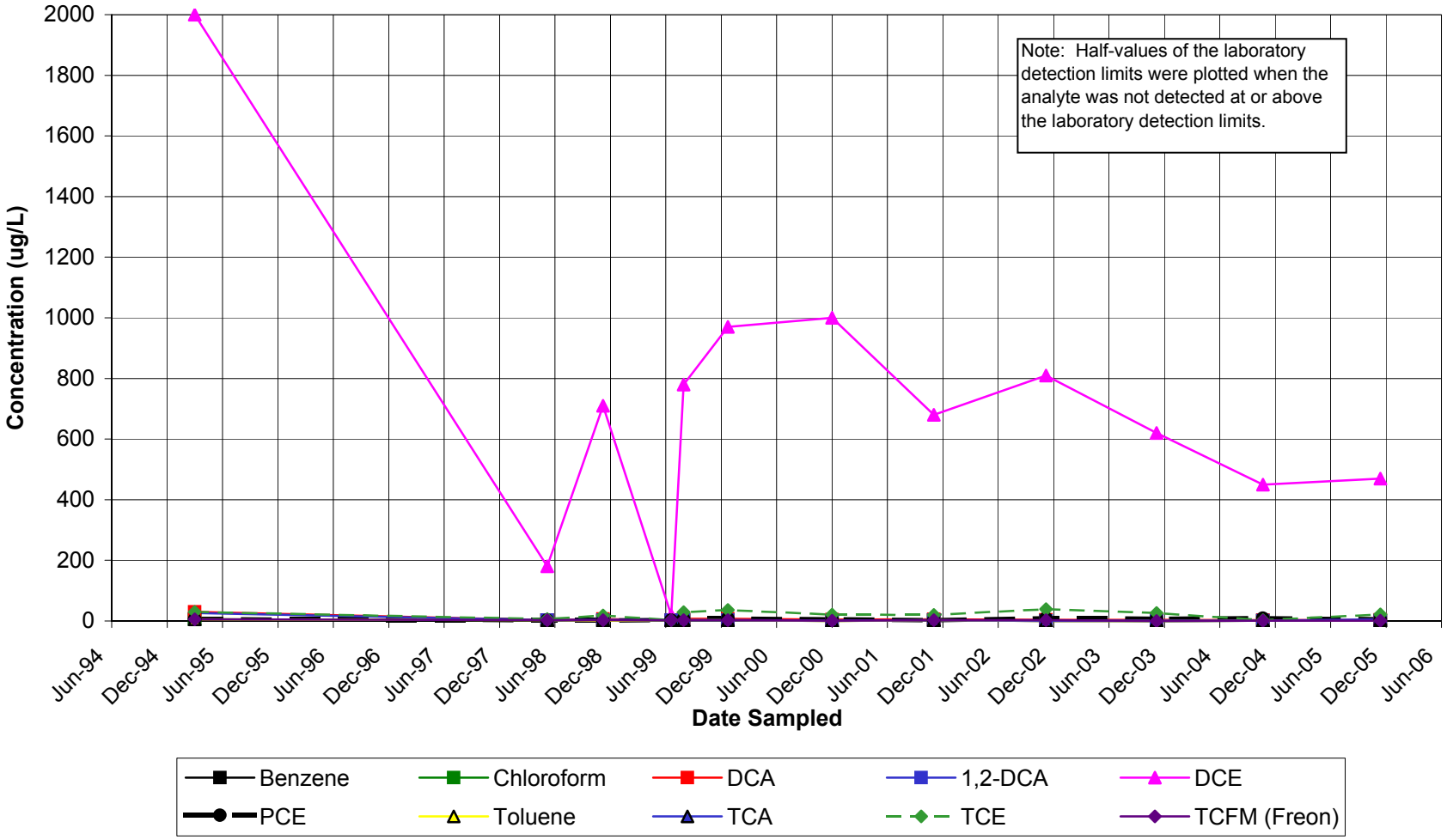
3.) -- = not analyzed for parameter

4.) Only wells with detectable concentrations of constituents of concern since March 1995 are shown.

5.) BDM = Bromodichloromethane; 1,2-DCA = 1,2-Dichloroethane; DCA = 1,1-Dichloroethane; DCE = 1,1-Dichloroethene; 1,2-DCE = 1,2-Dichloroethene-(cis); PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

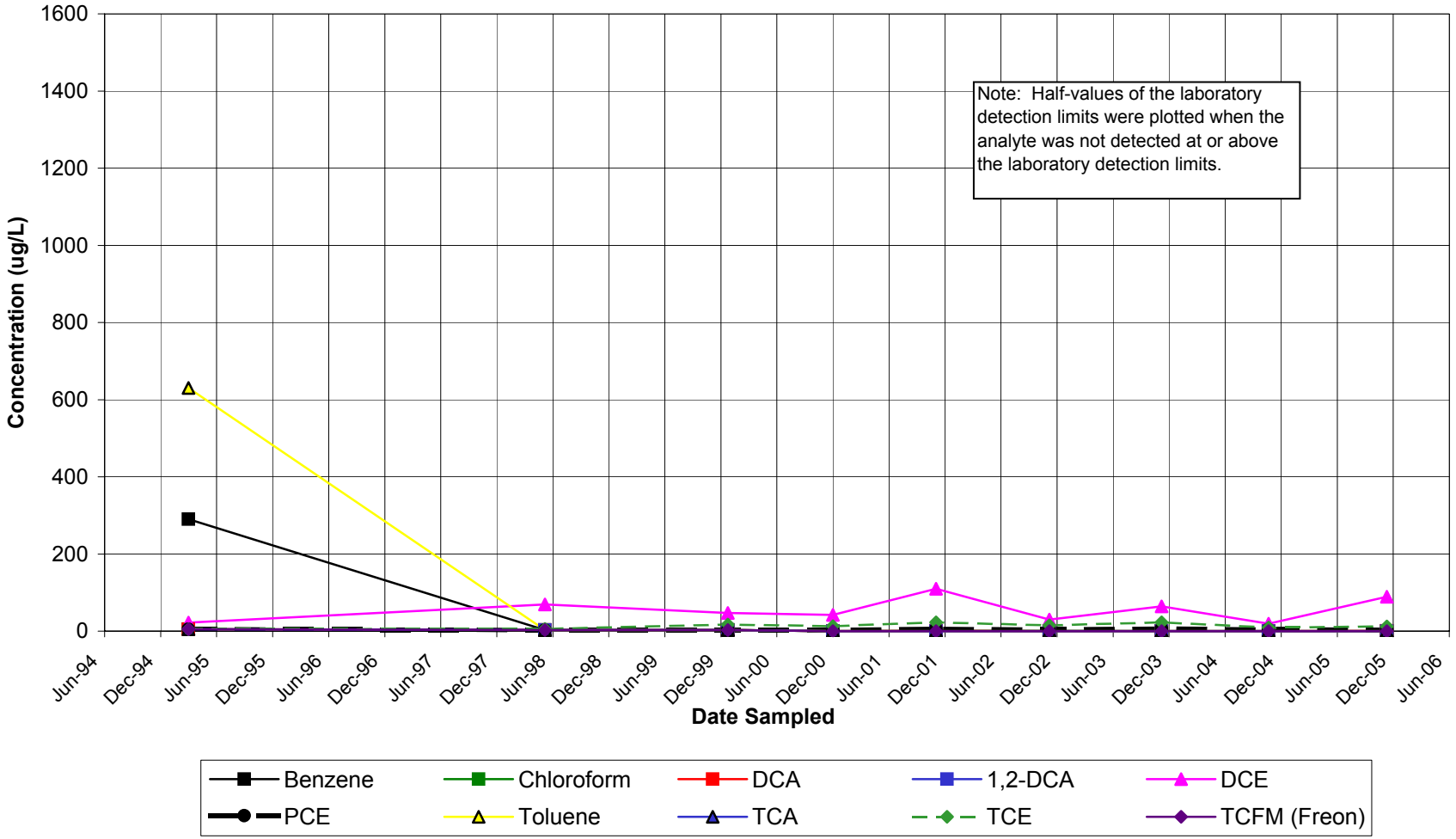
6.) Due to matrix effects and/or other factors, detection limits for these samples have been raised by a factor of ^{A}=5, ^{B}=4, ^{C}=50, ^{D}=10.

Graph 7: Volatile Organic Compounds vs. Time
Monitoring Well M-1
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California



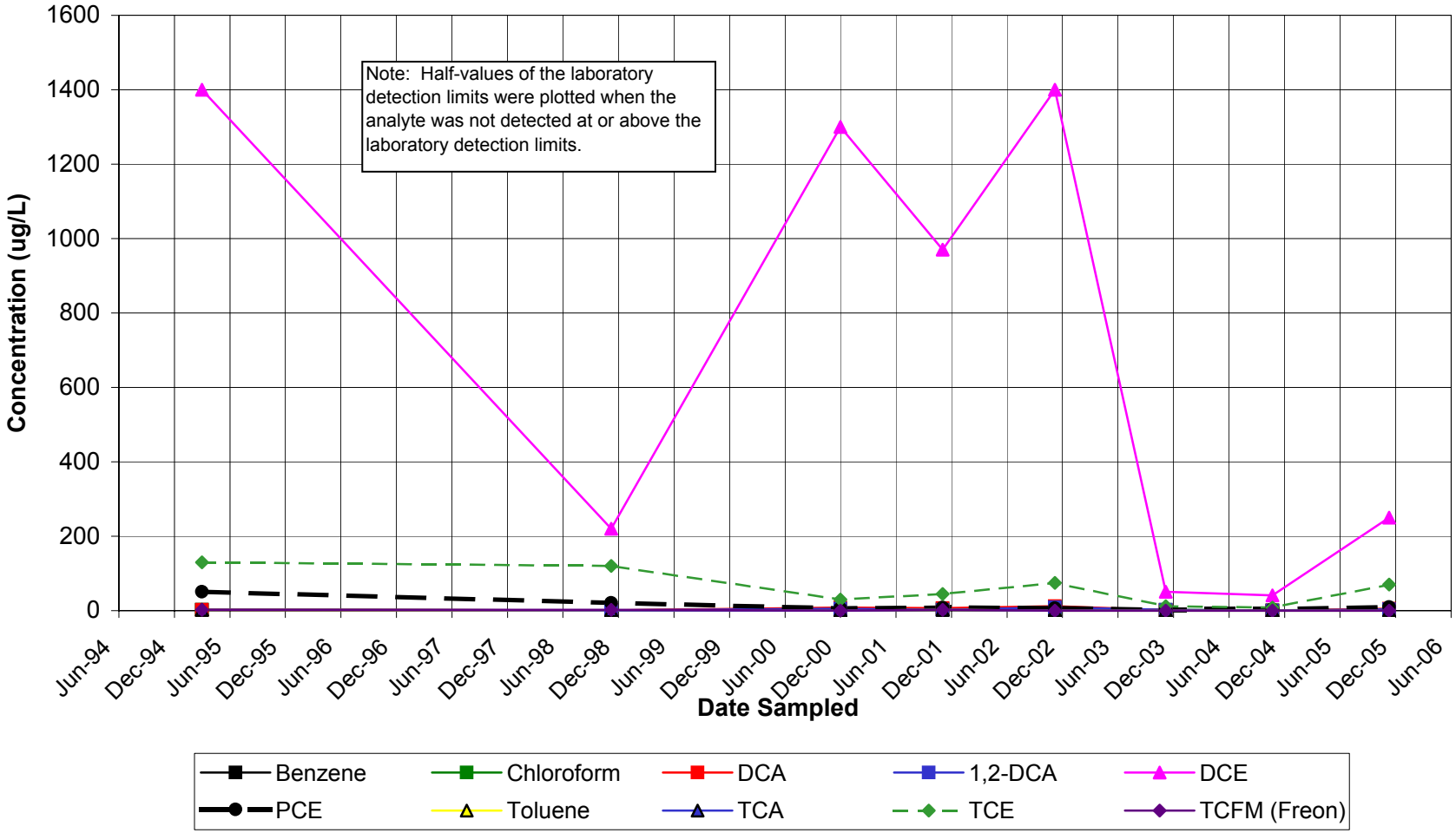
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 8: Volatile Organic Compounds vs. Time
Monitoring Well CM-2D
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California



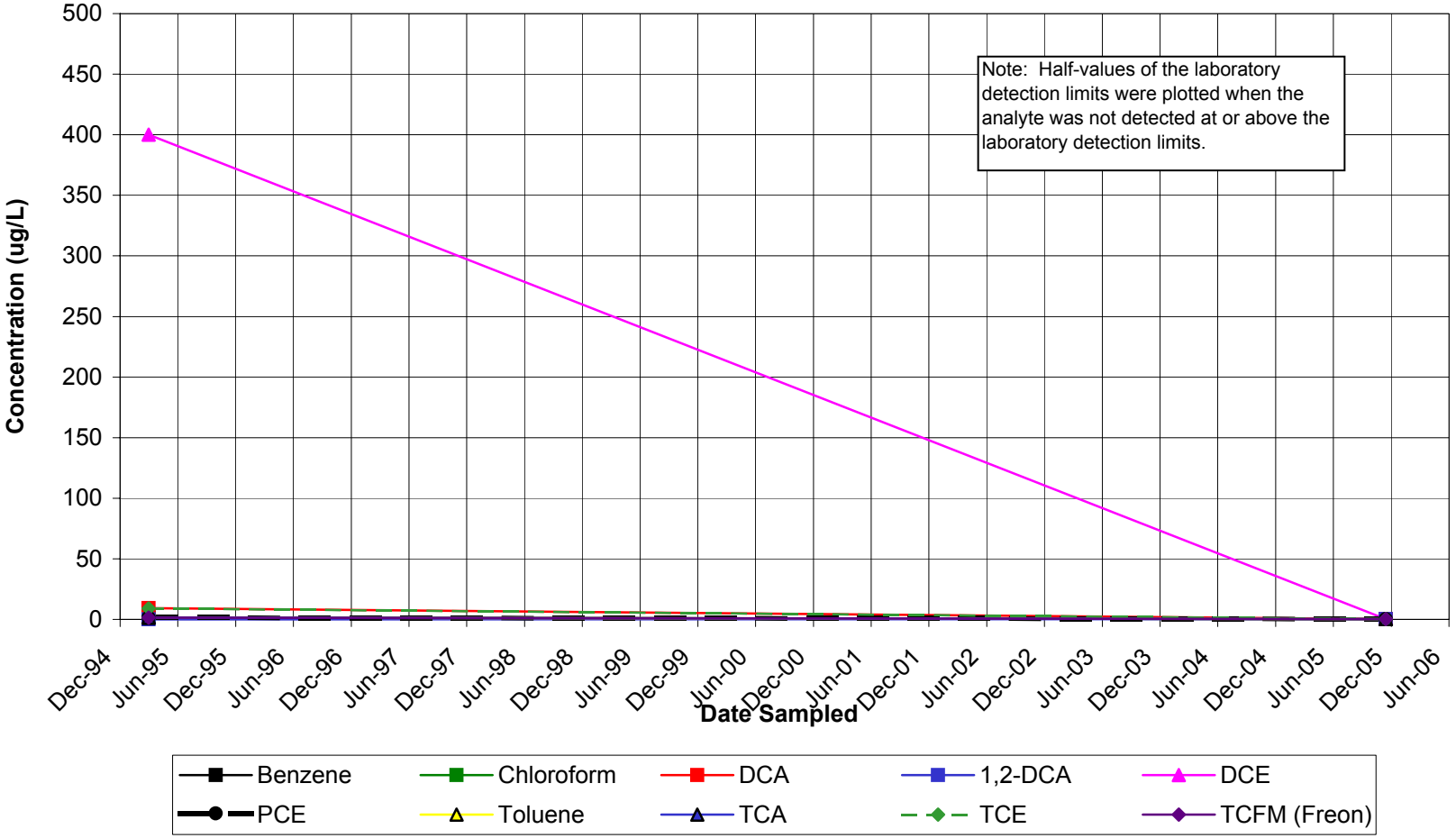
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 9: Volatile Organic Compounds vs. Time
Monitoring Well CM-4D
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California



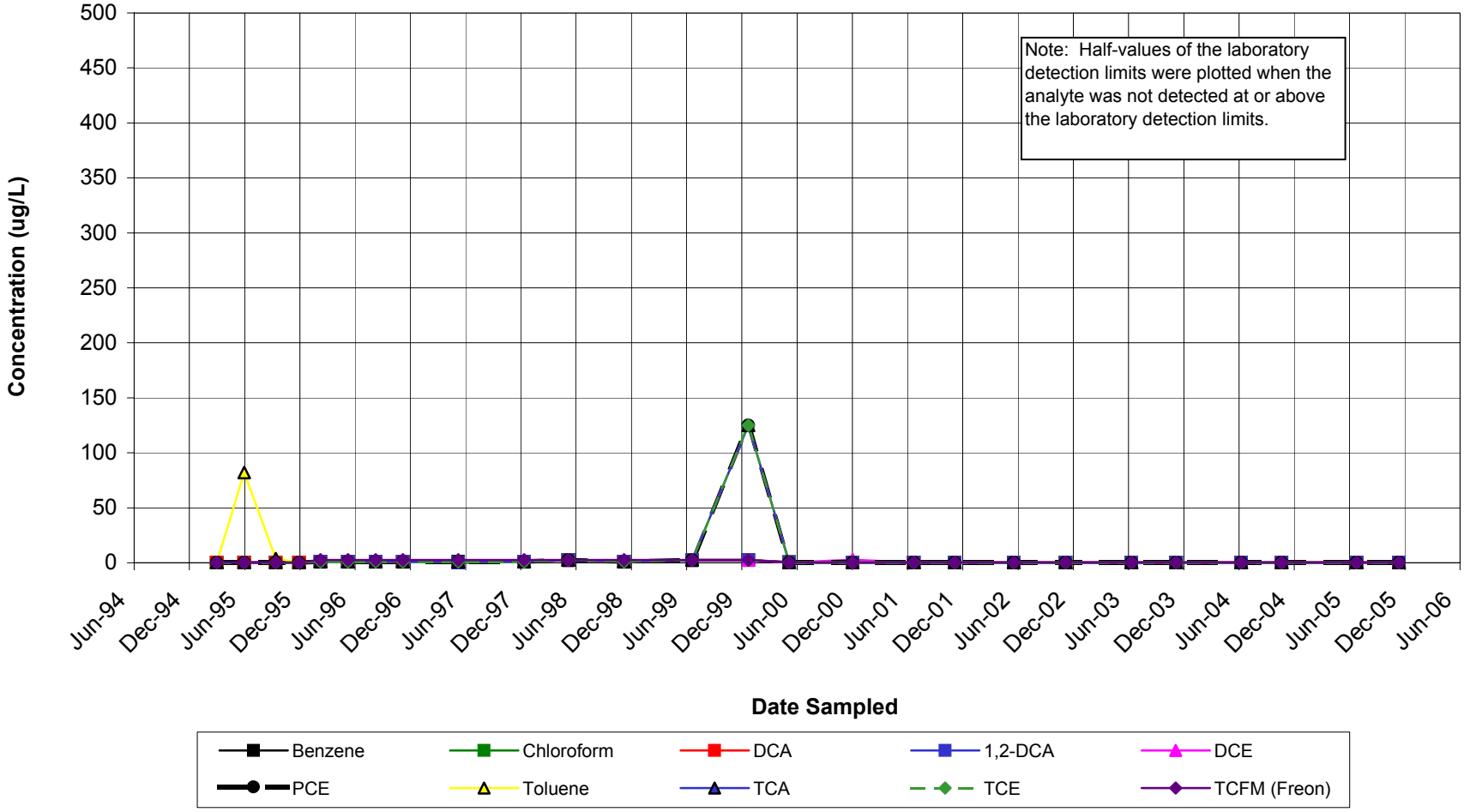
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 10: Volatile Organic Compounds vs. Time
Monitoring Well CM-7
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA



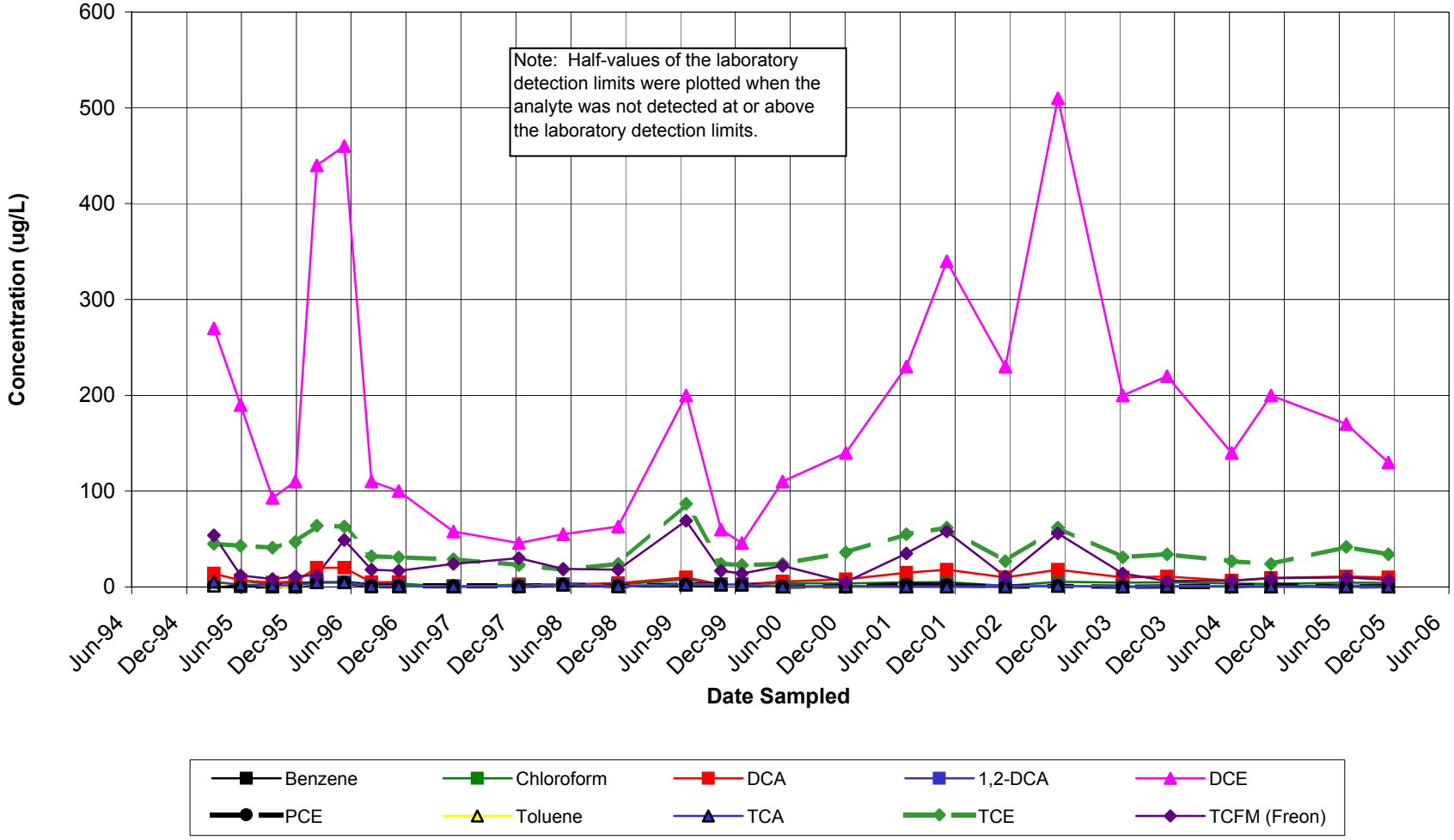
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 11: Volatile Organic Compounds vs. Time
Monitoring Well CM-7D
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California



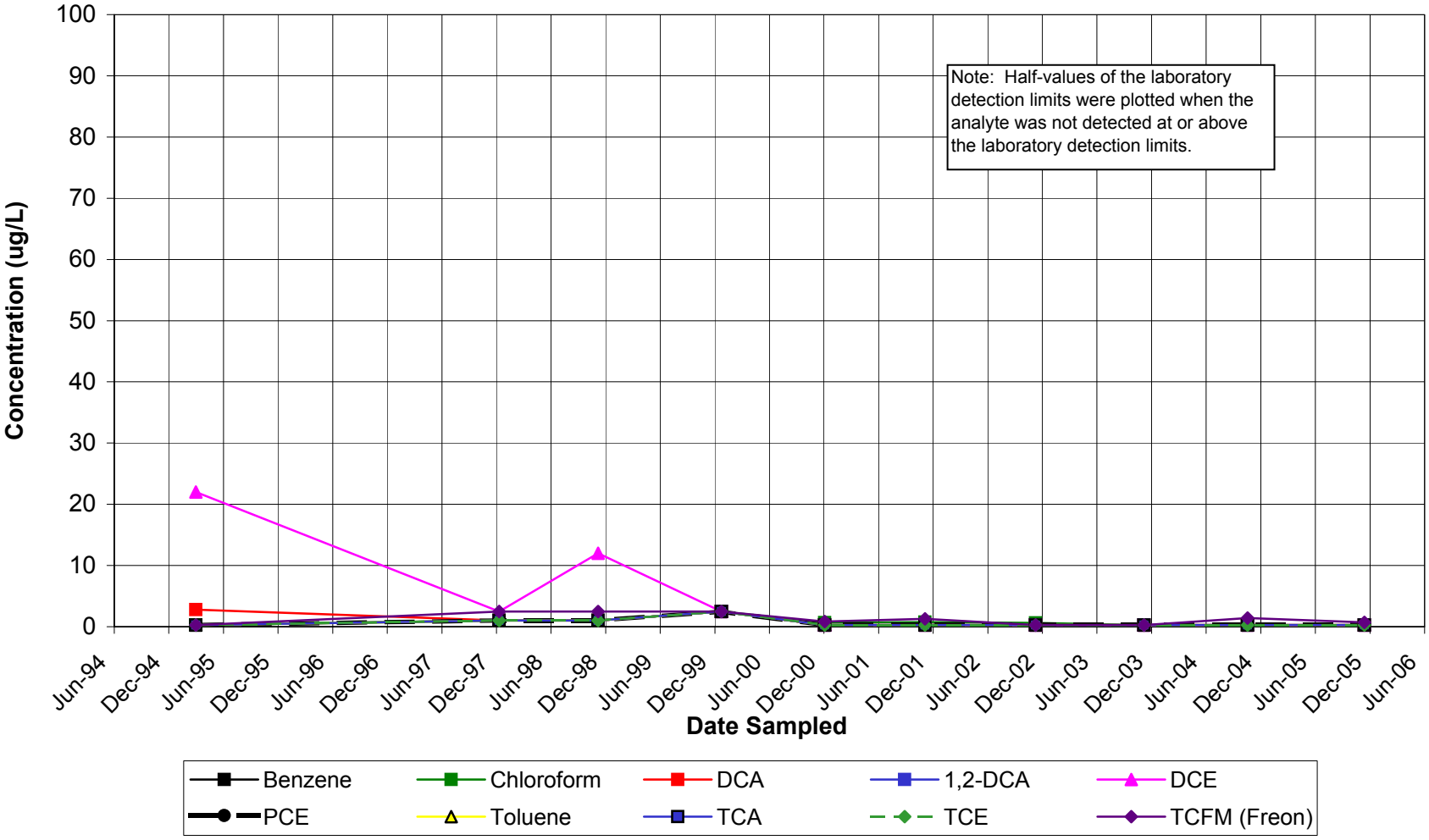
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 12: Volatile Organic Compounds vs. Time
Monitoring Well CM-8D
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California



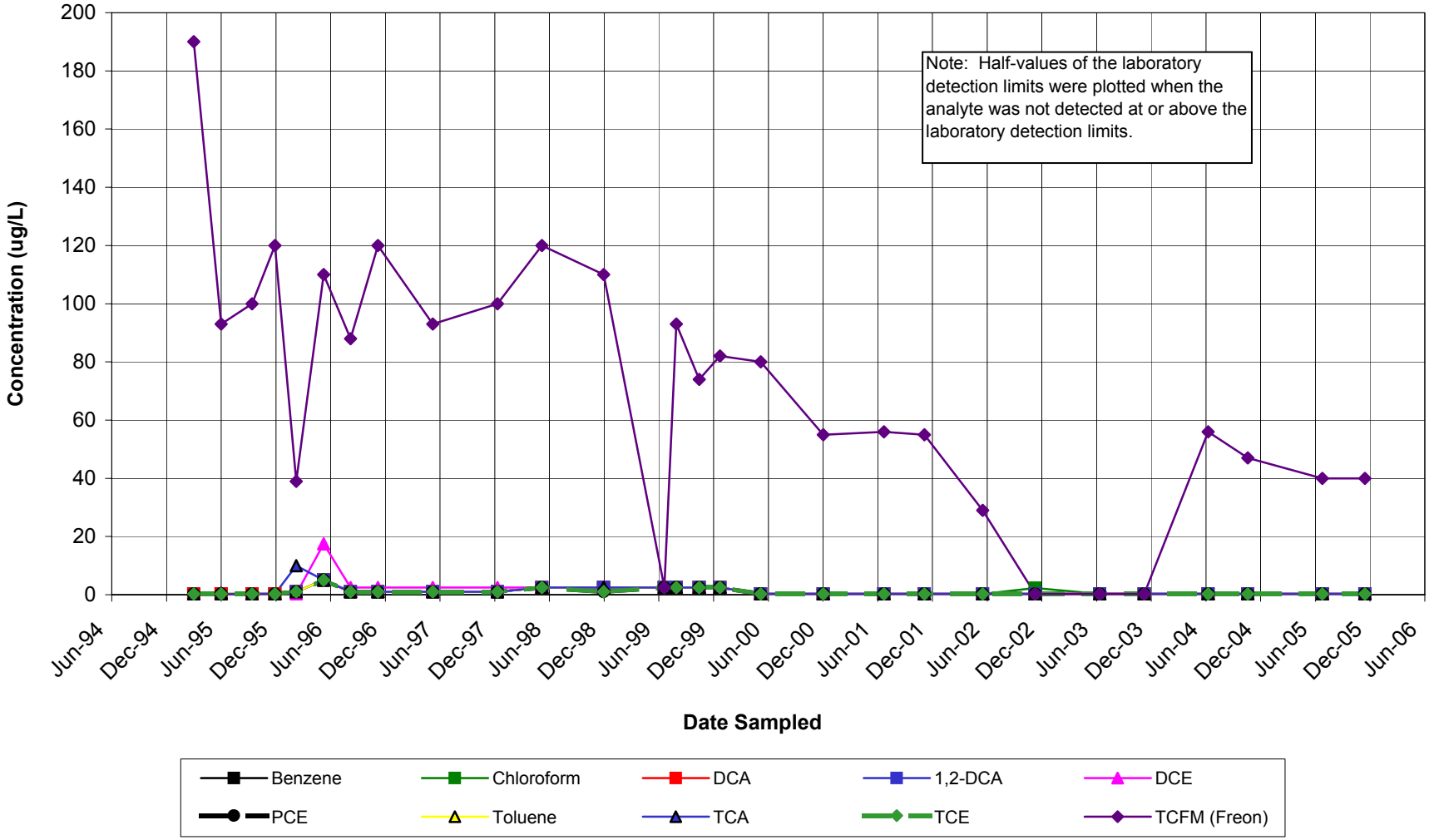
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 13: Volatile Organic Compounds vs. Time
Monitoring Well CM-9D
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California



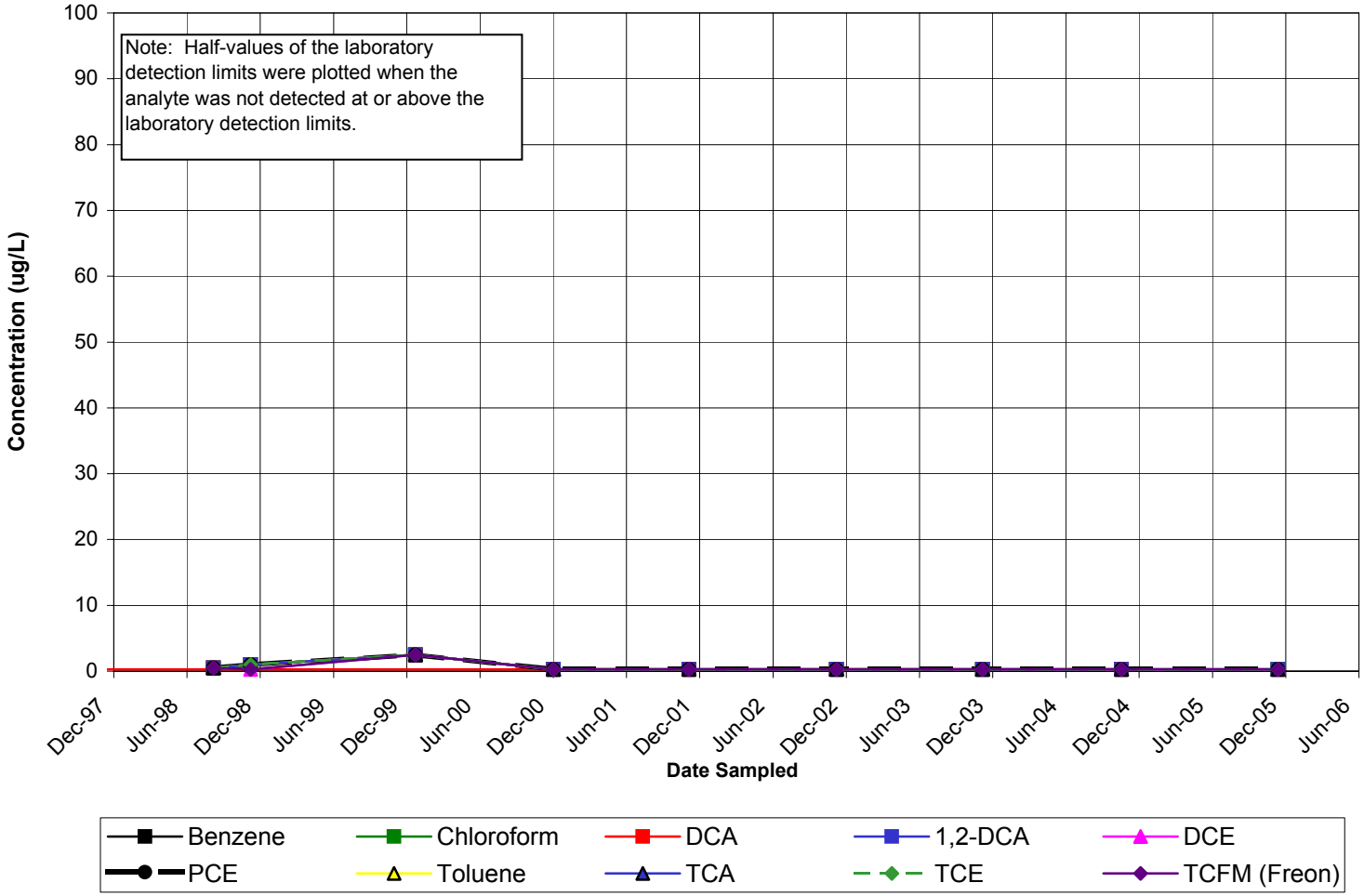
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 14: Volatile Organic Compounds vs. Time
Monitoring Well CM-10
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California



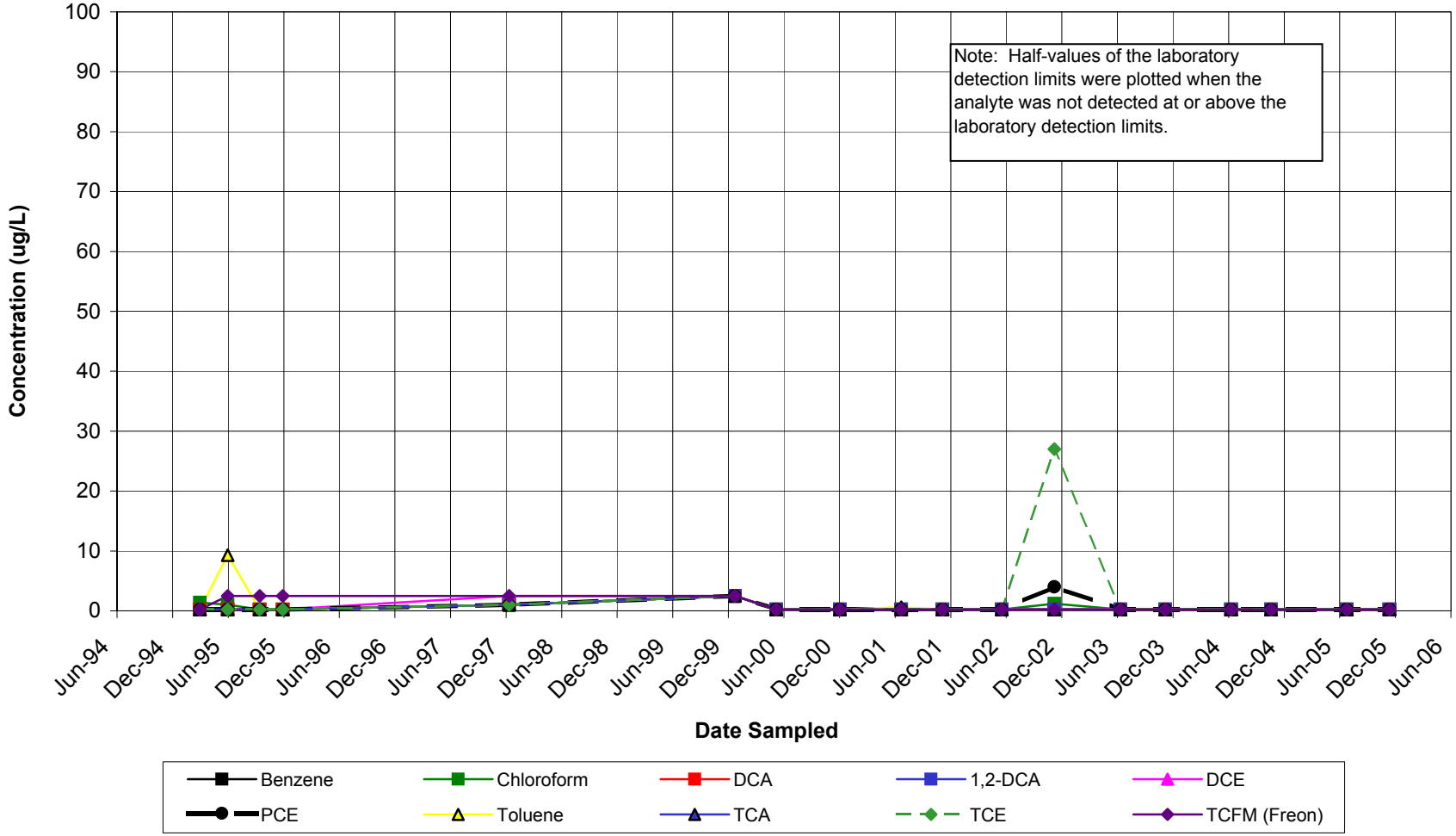
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 15: Volatile Organic Compounds vs. Time
Monitoring Well CM-11A
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California



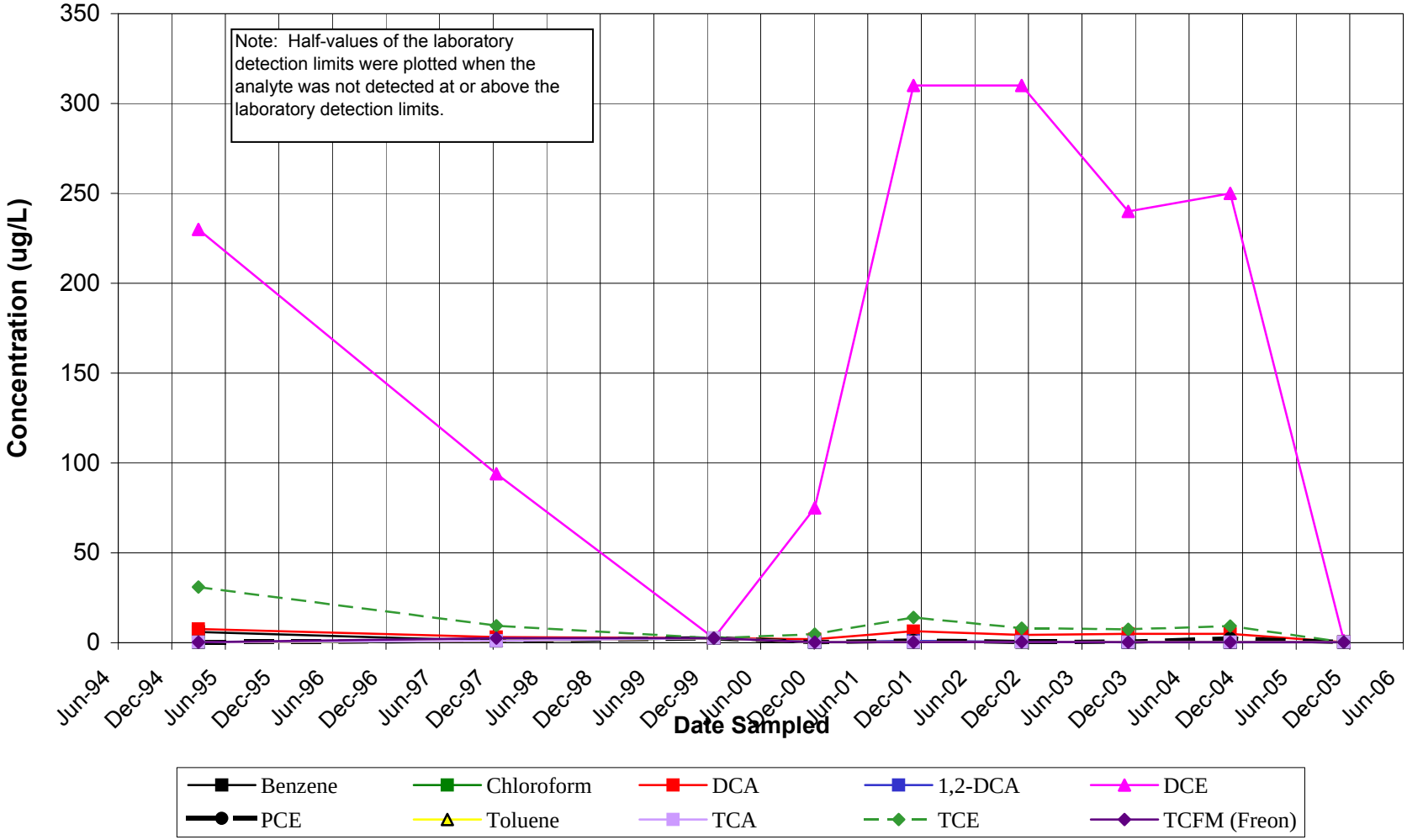
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 16: Volatile Organic Compounds vs. Time
Monitoring Well CM-12
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, Califorina



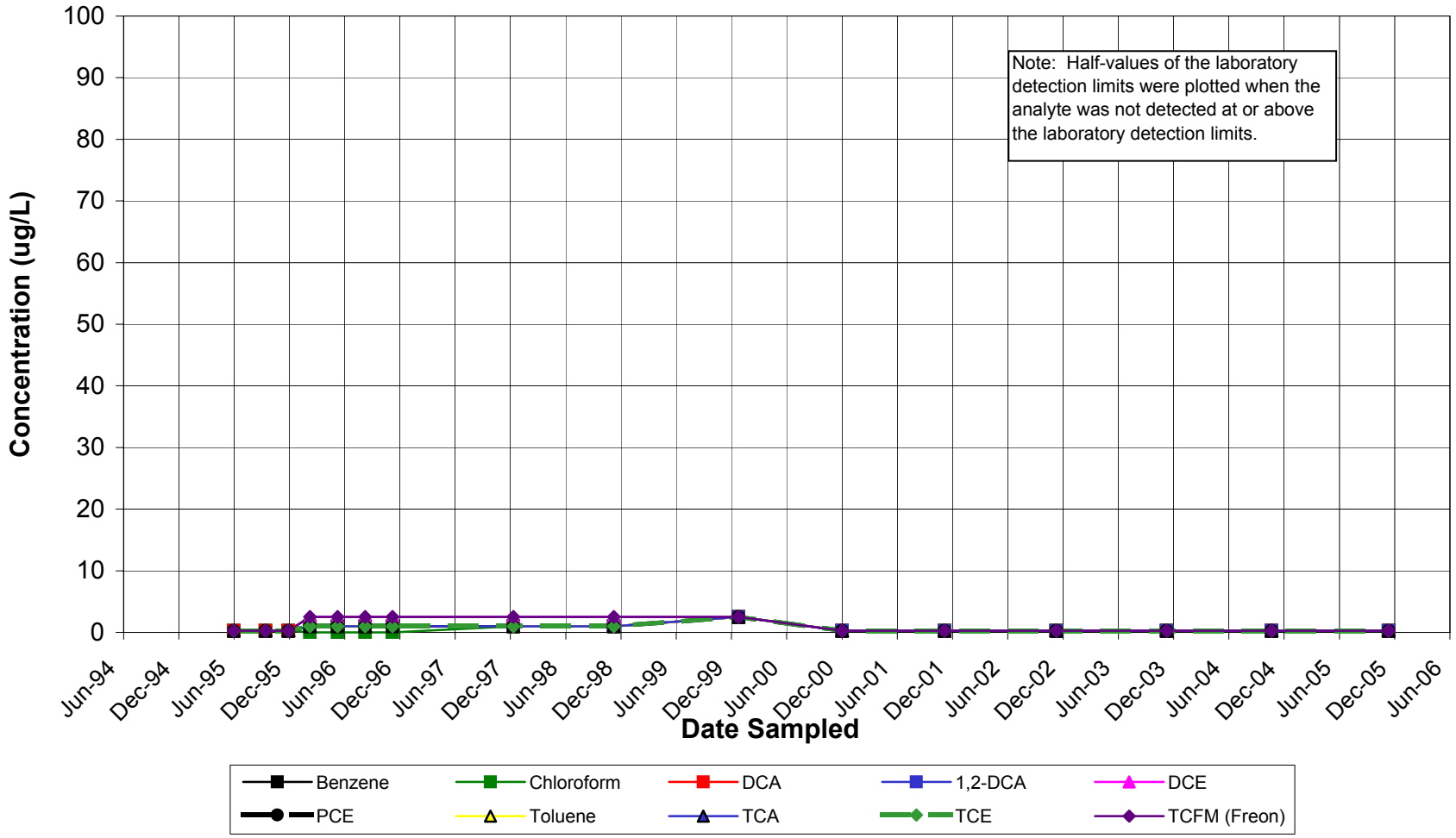
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 17: Volatile Organic Compounds vs. Time
Monitoring Well CM-13
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California



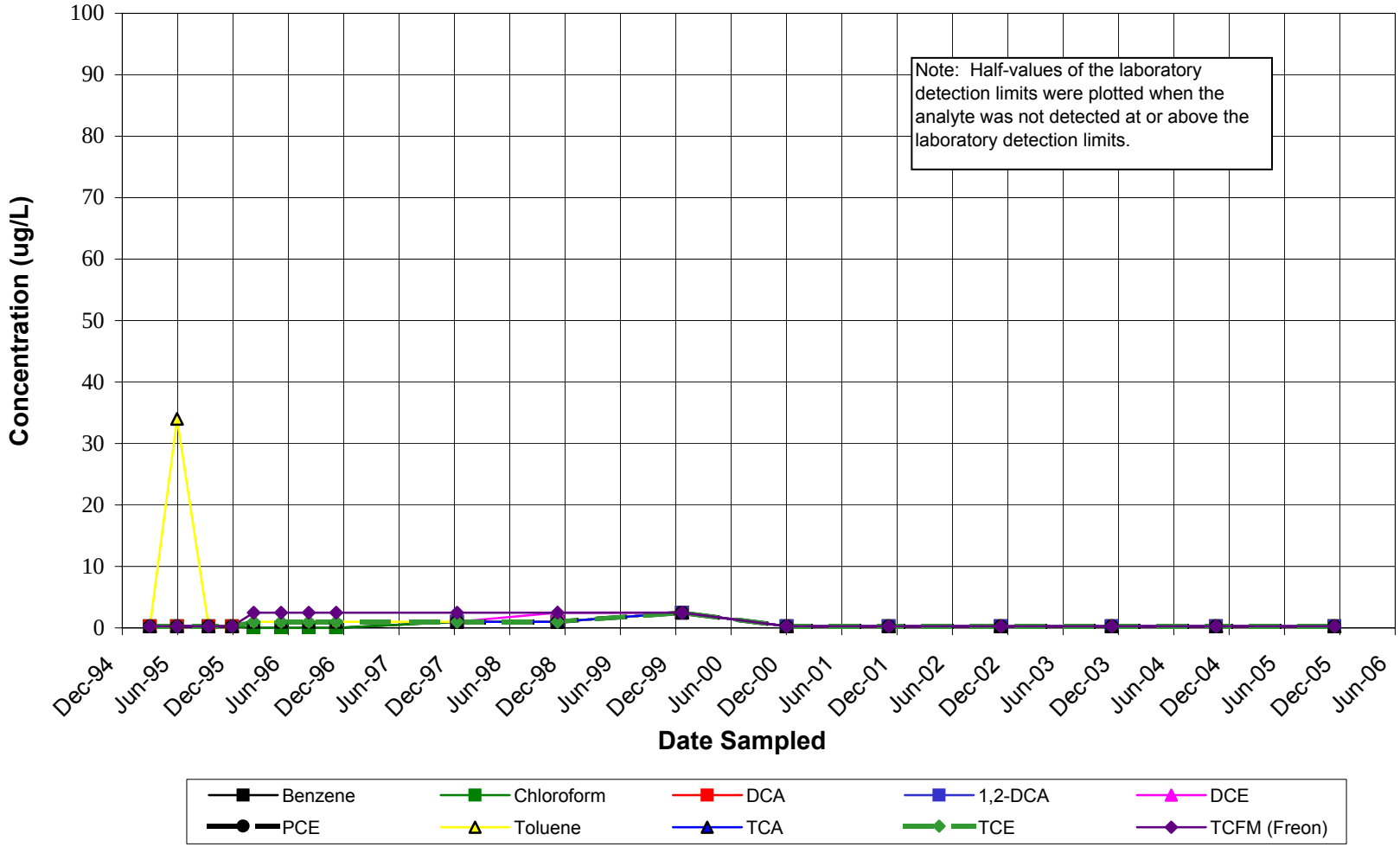
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 18: Volatile Organic Compounds vs. Time
Monitoring Well CM-14
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California



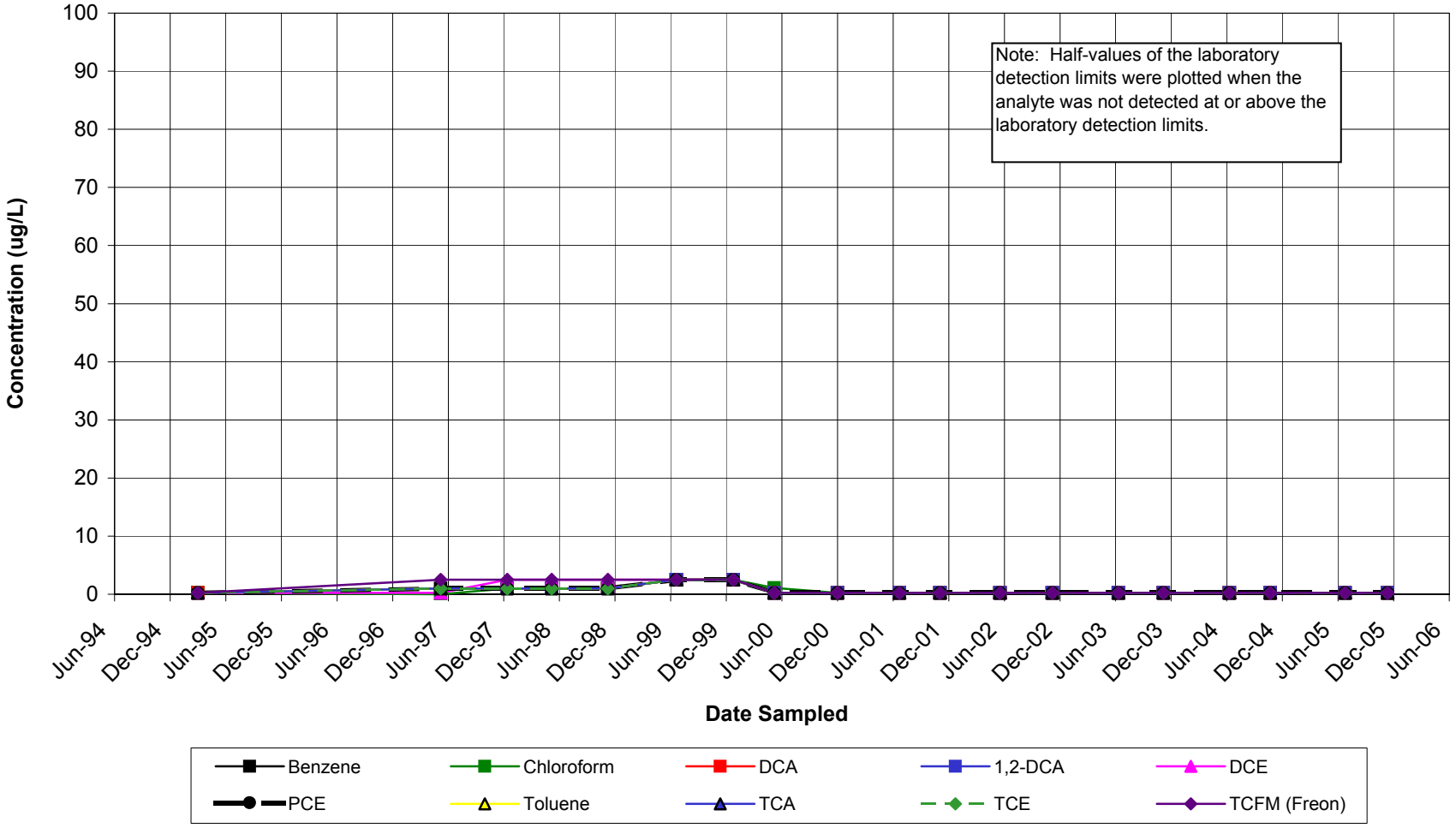
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 19: Volatile Organic Compounds vs. Time
Monitoring Well CM-15
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California



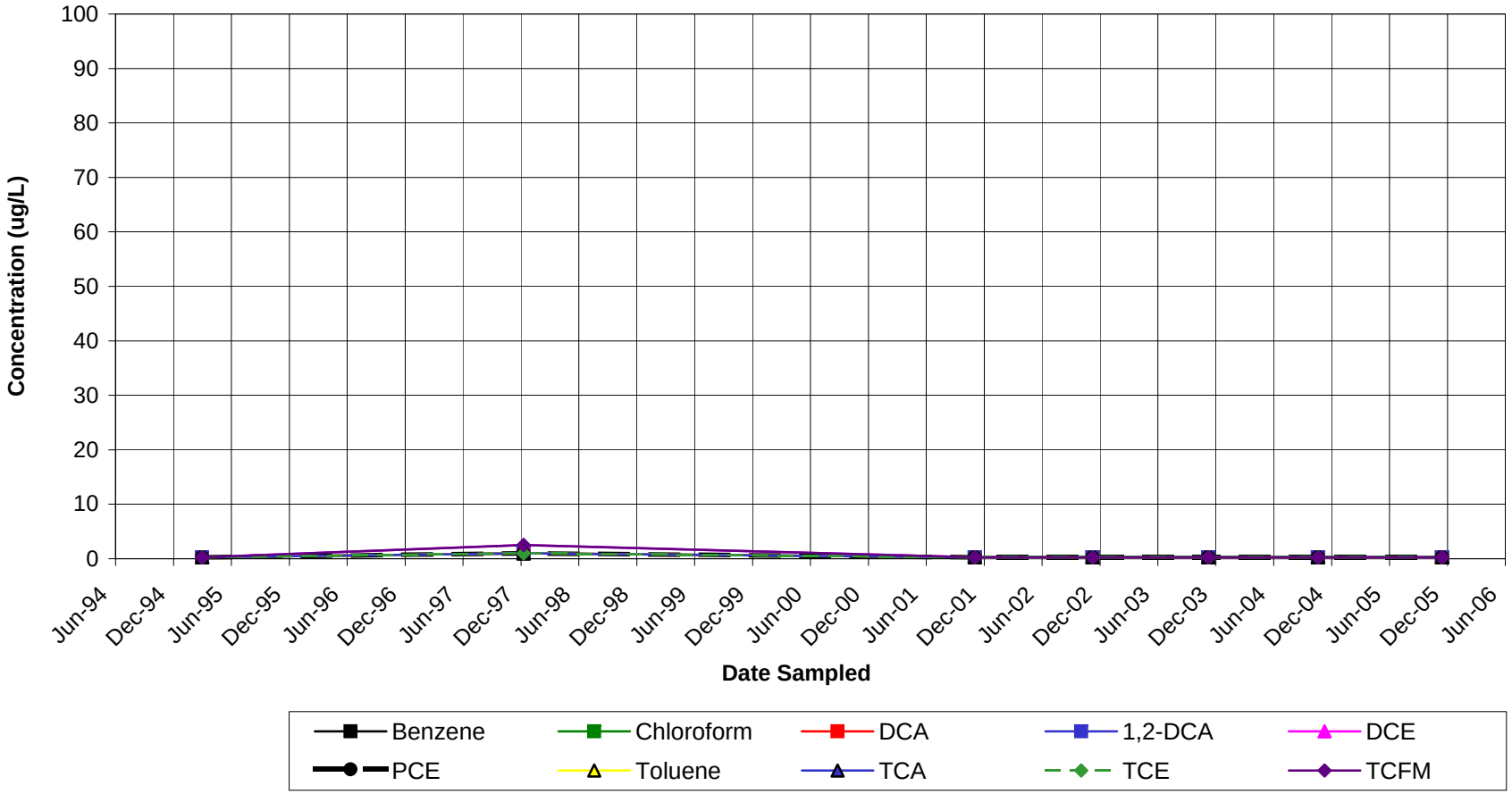
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 20: Detectable Compounds vs. Time
Monitoring Well CM-16
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California



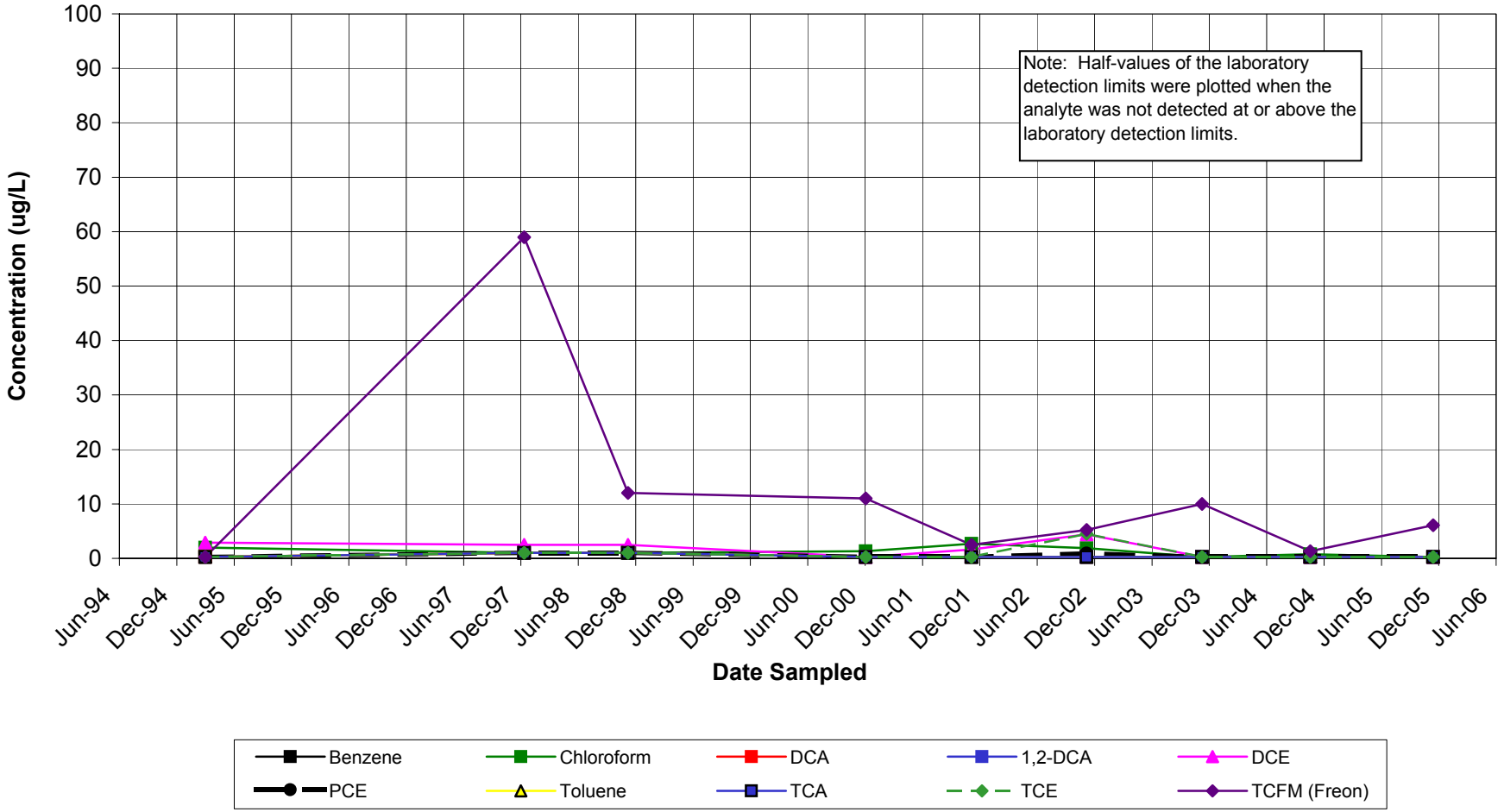
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 20A: Volatile Organic Compounds vs. Time
Monitoring Well CM-17
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California



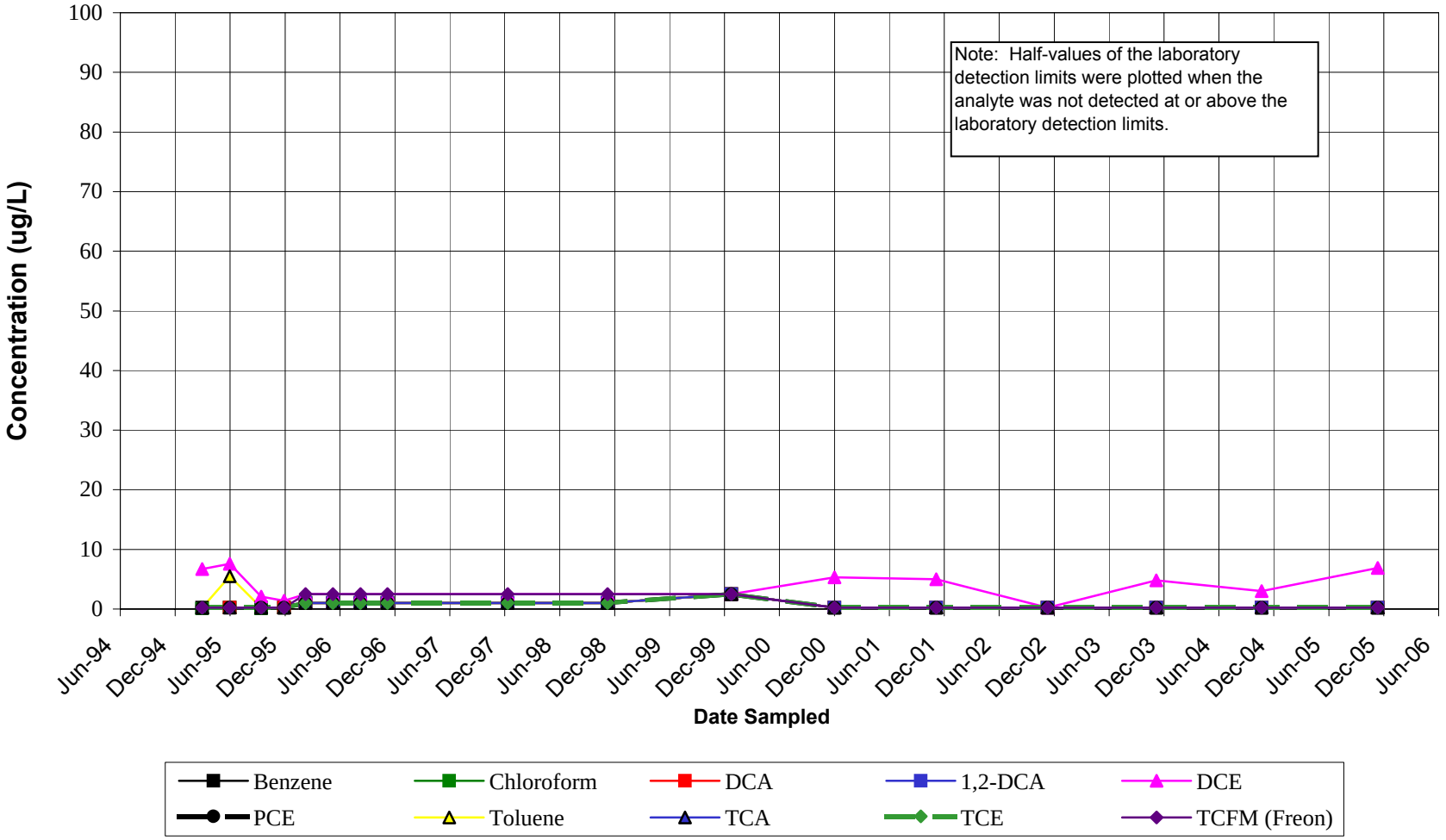
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 21: Volatile Organic Compounds vs. Time
Monitoring Well CM-18
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California



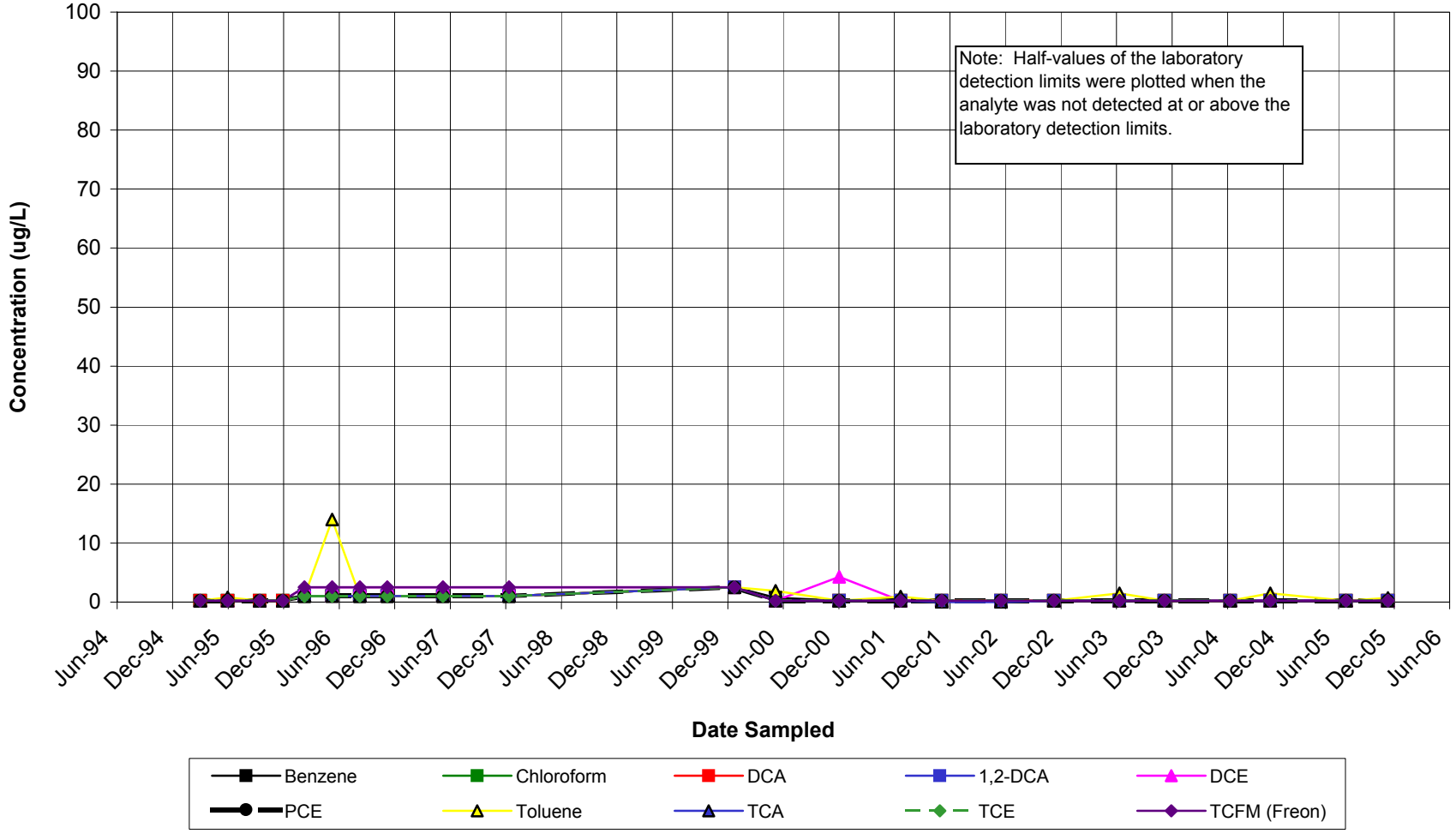
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 22: Volatile Organic Compounds vs. Time
Monitoring Well CM-19
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California



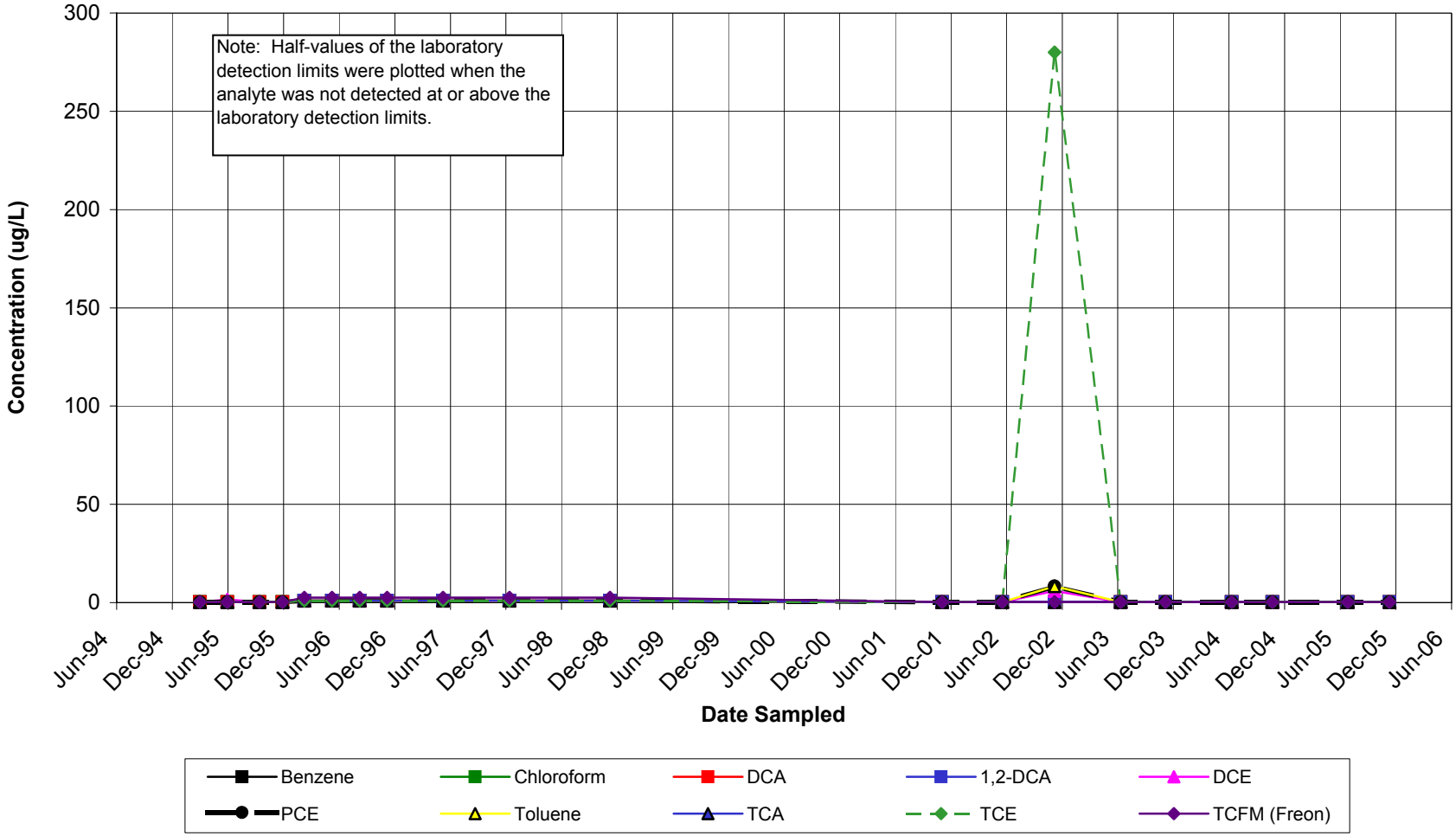
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 23: Volatile Organic Compounds vs. Time
Monitoring Well MW-15
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California



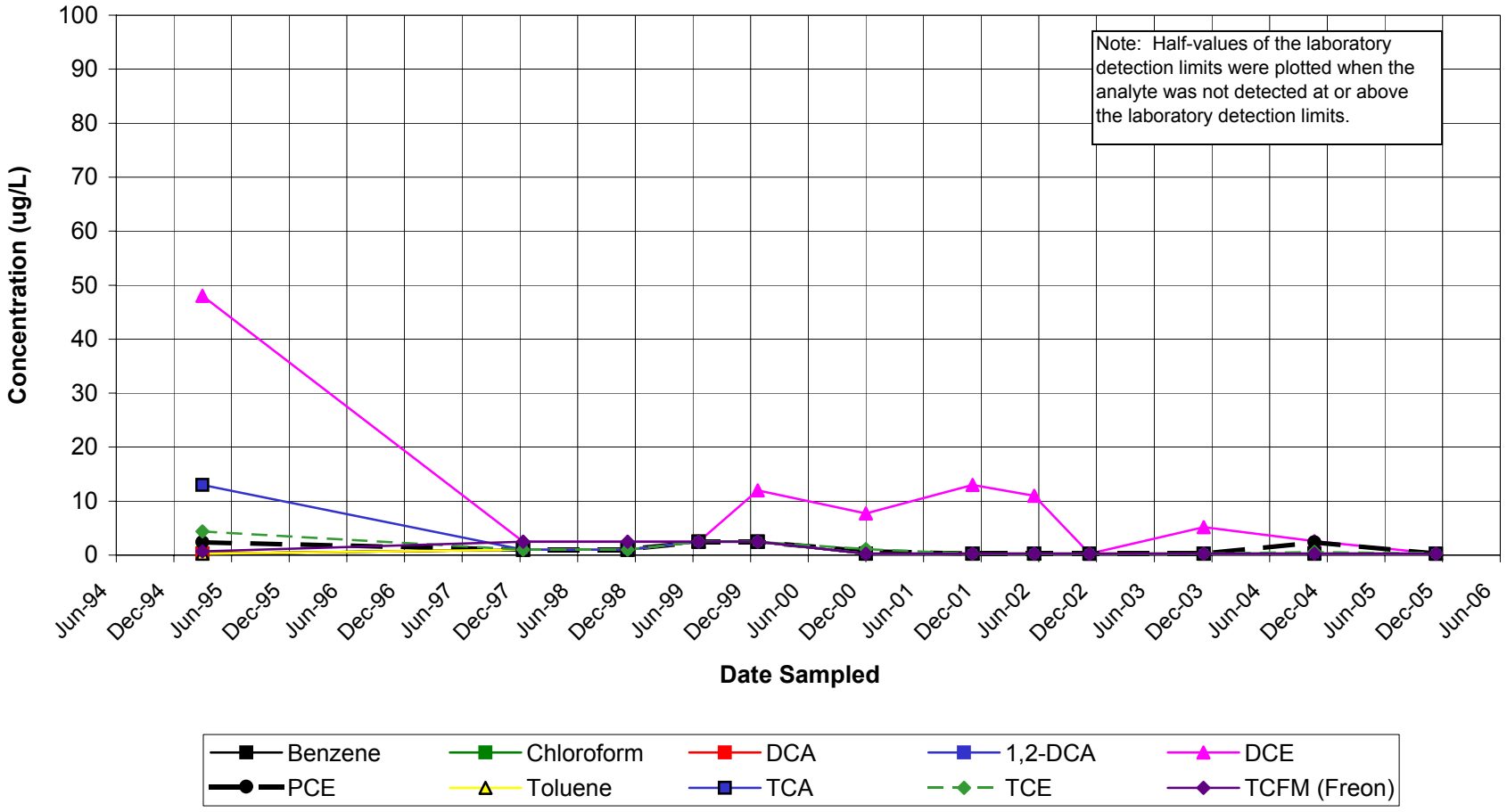
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 24: Volatile Organic Compounds vs. Time
Monitoring Well MW-16
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California



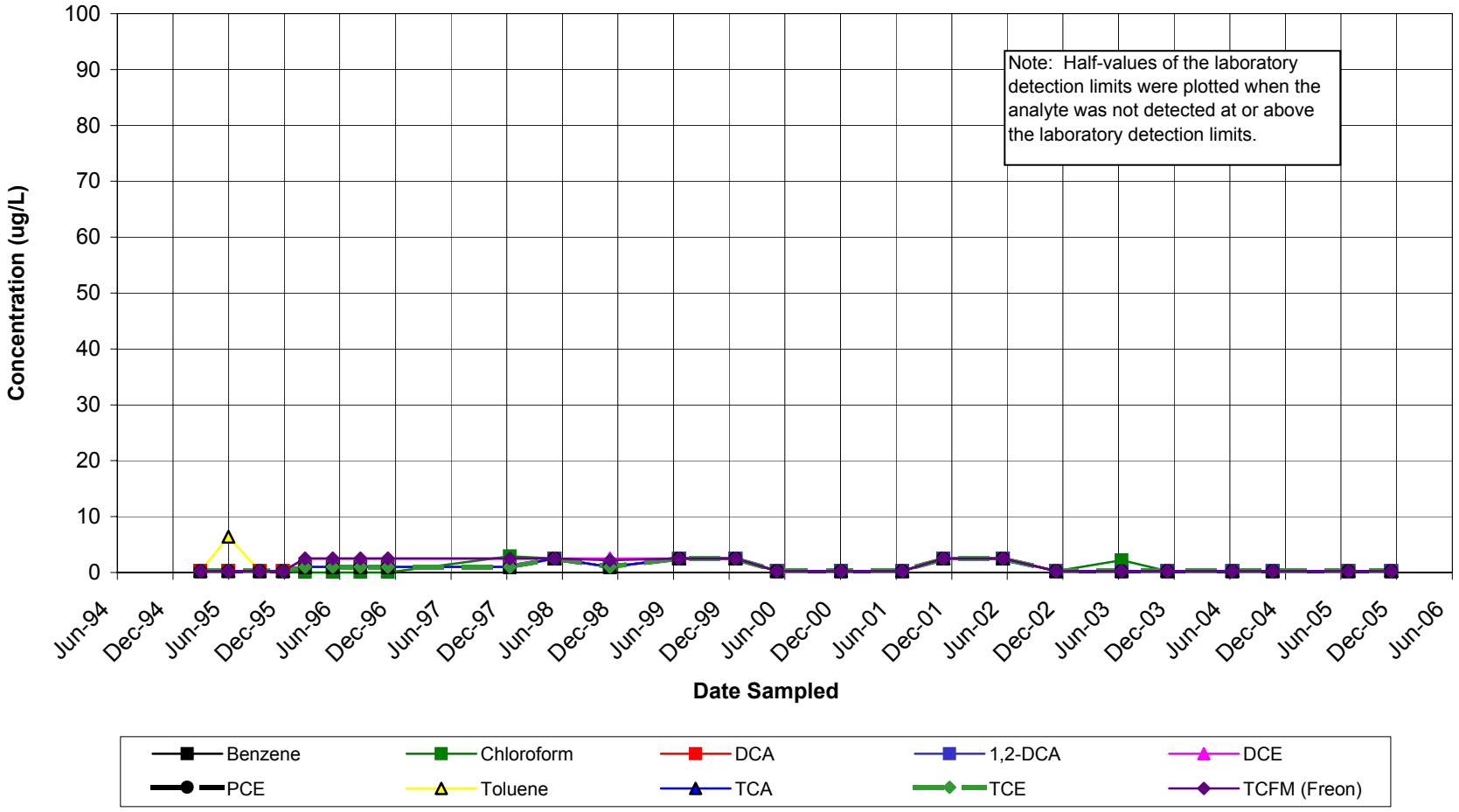
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 25: Volatile Organic Compounds vs. Time
Monitoring Well MW-17
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California



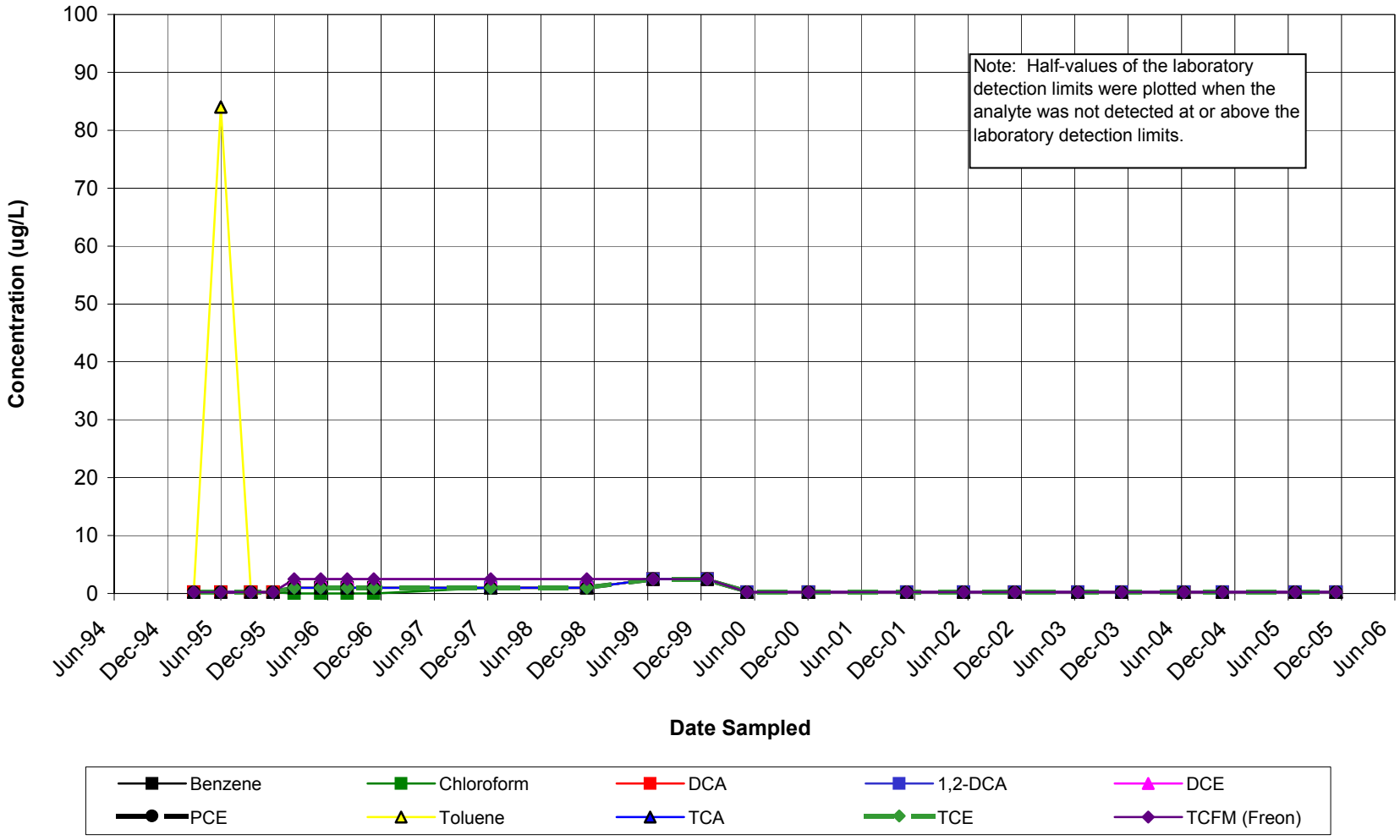
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 26: Volatile Organic Compounds vs. Time
Monitoring Well MW-19S
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California



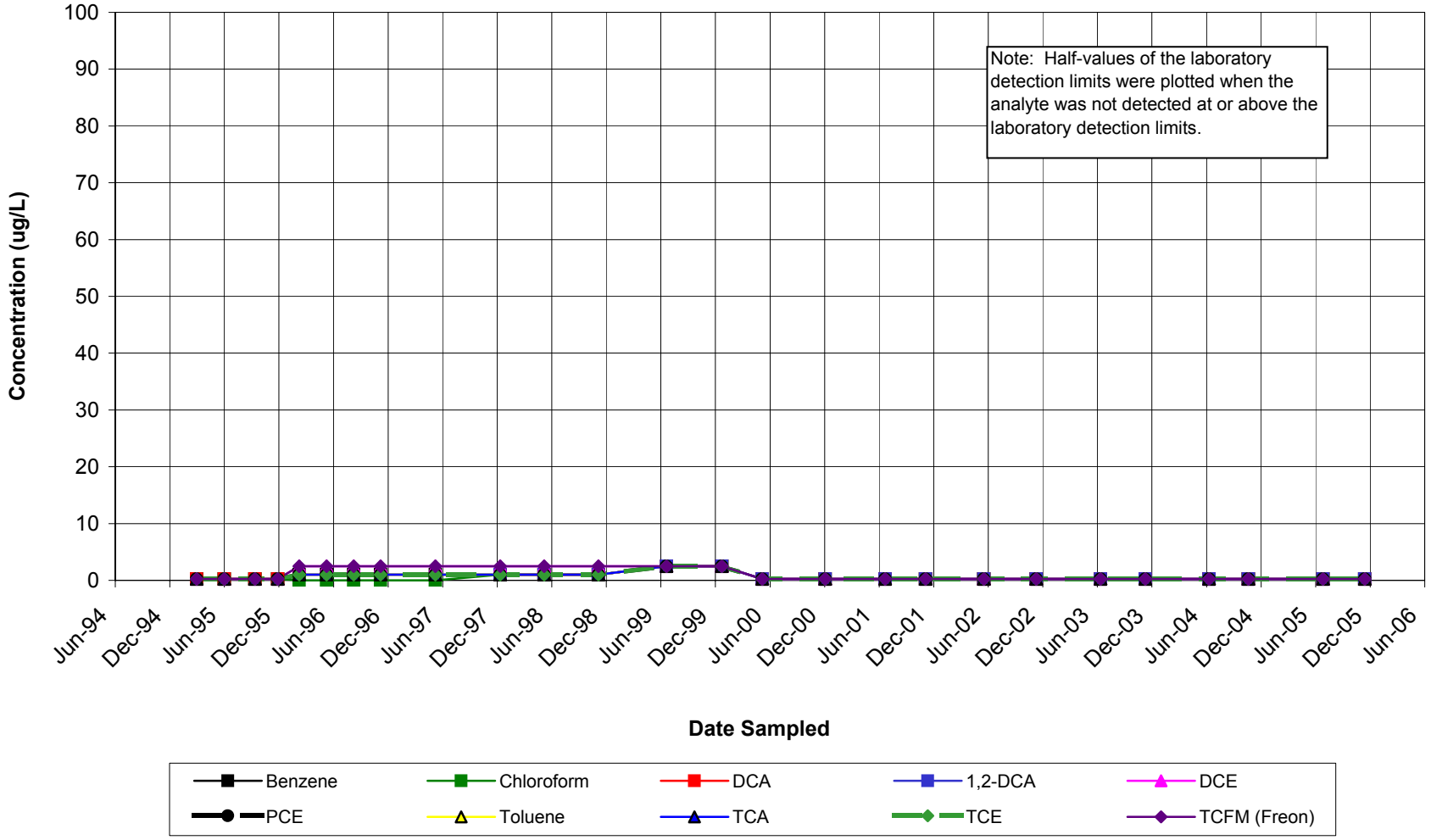
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 27: Volatile Organic Compounds vs. Time
Monitoring Well MW-19D
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California



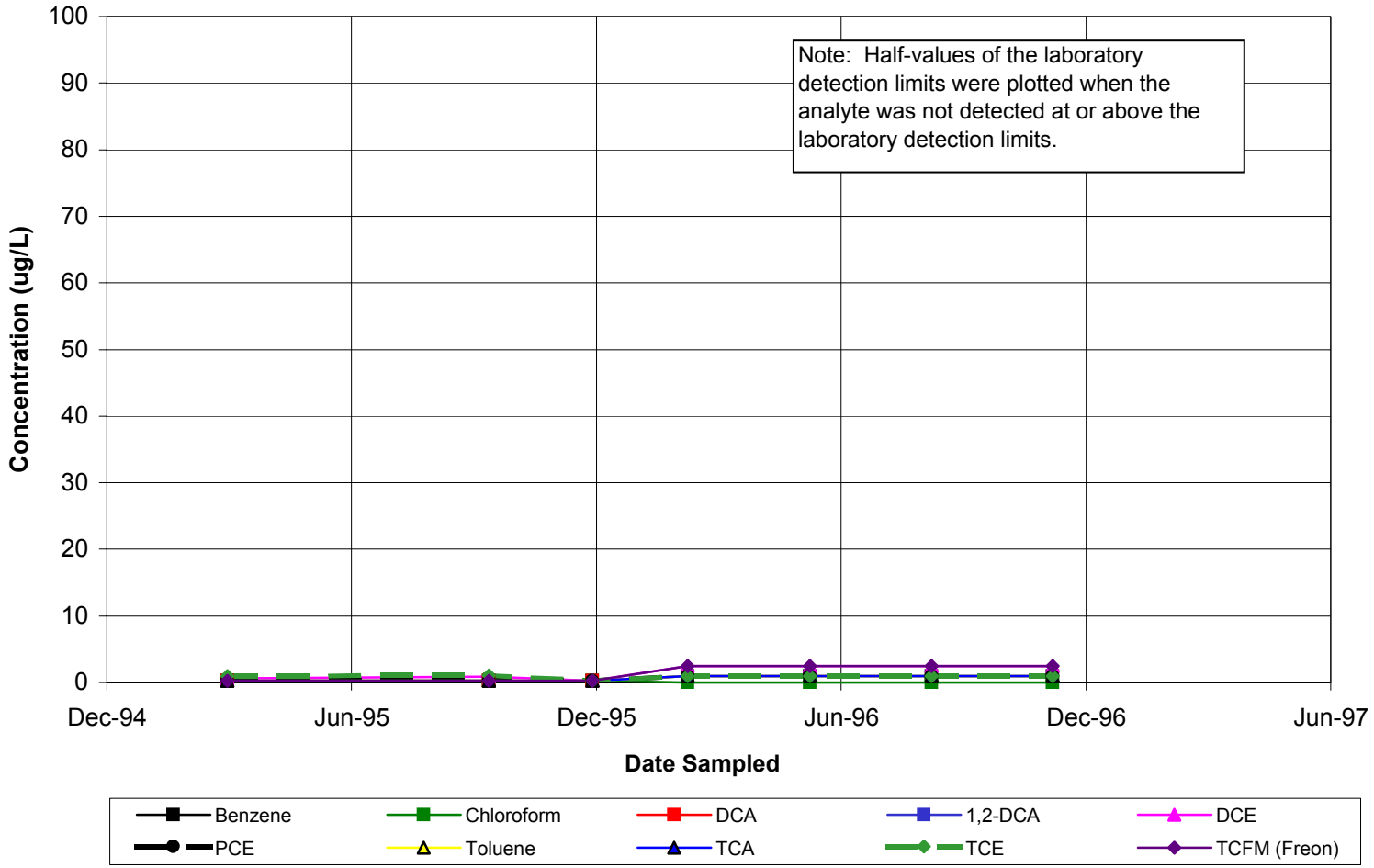
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 28: Volatile Organic Compounds vs. Time
Monitoring Well MW-20S
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California



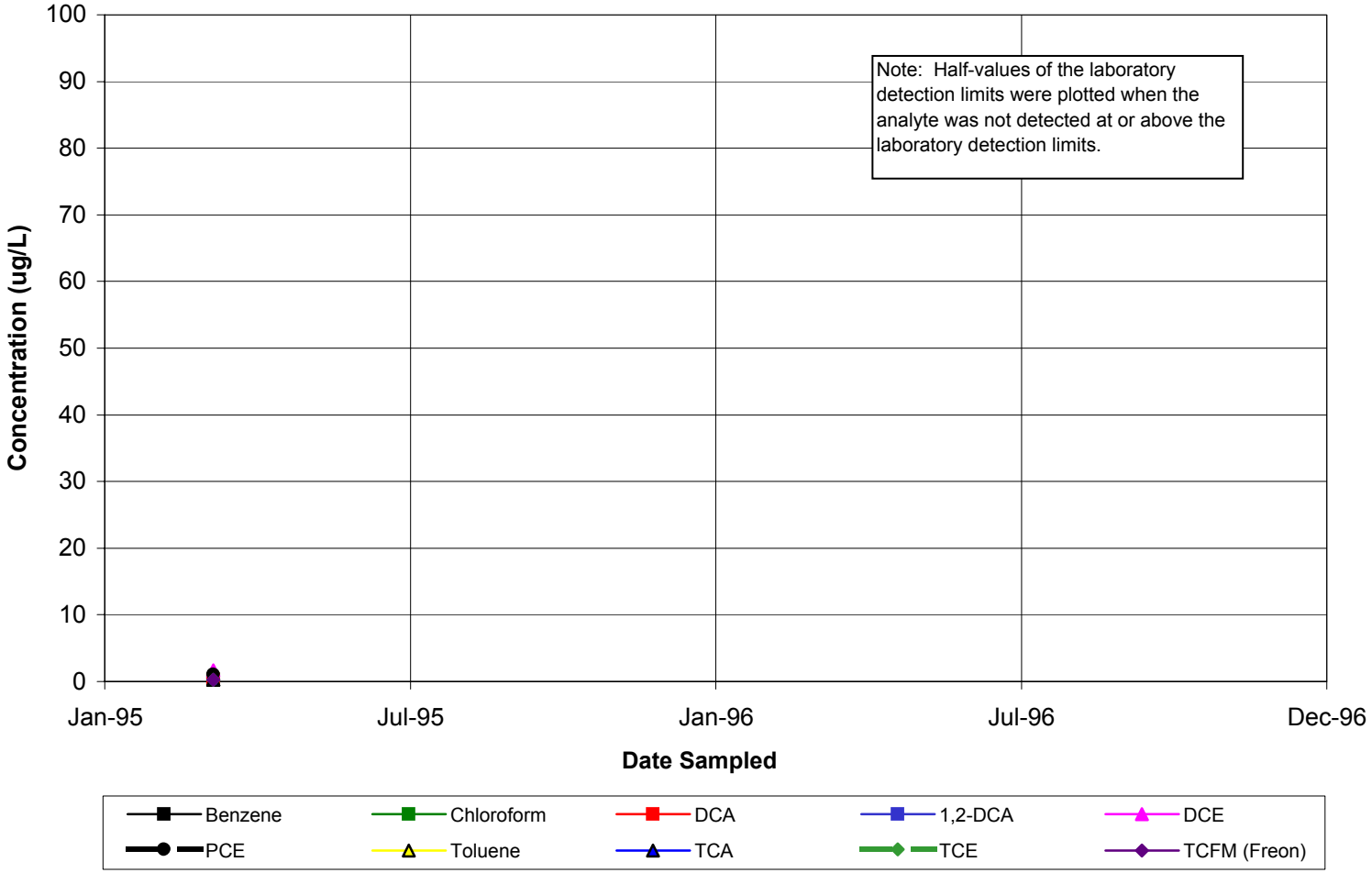
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 29: Volatile Organic Compounds vs. Time
Monitoring Well MW-21S
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California



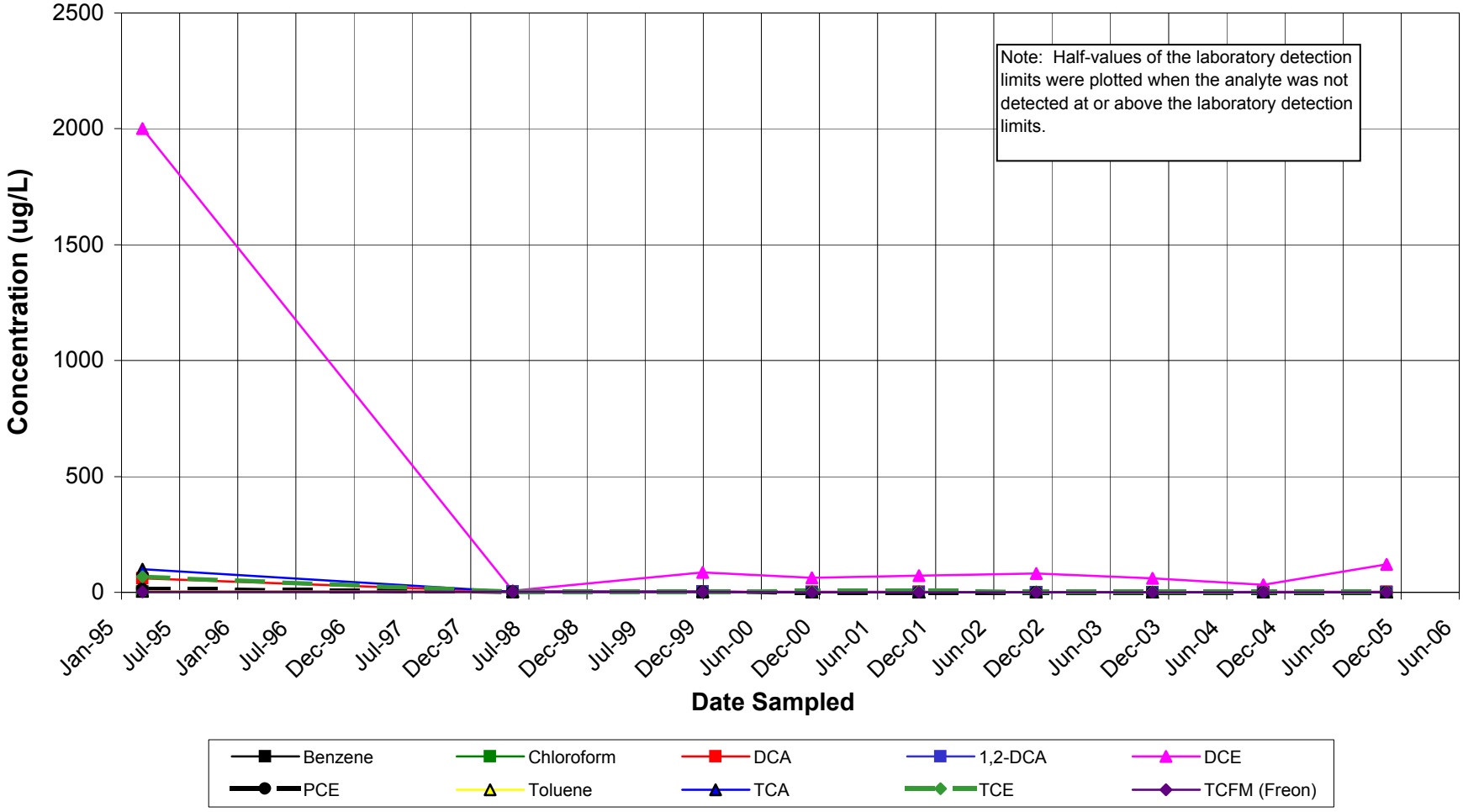
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 30: Volatile Organic Compounds vs. Time
Monitoring Well MW-22S
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California



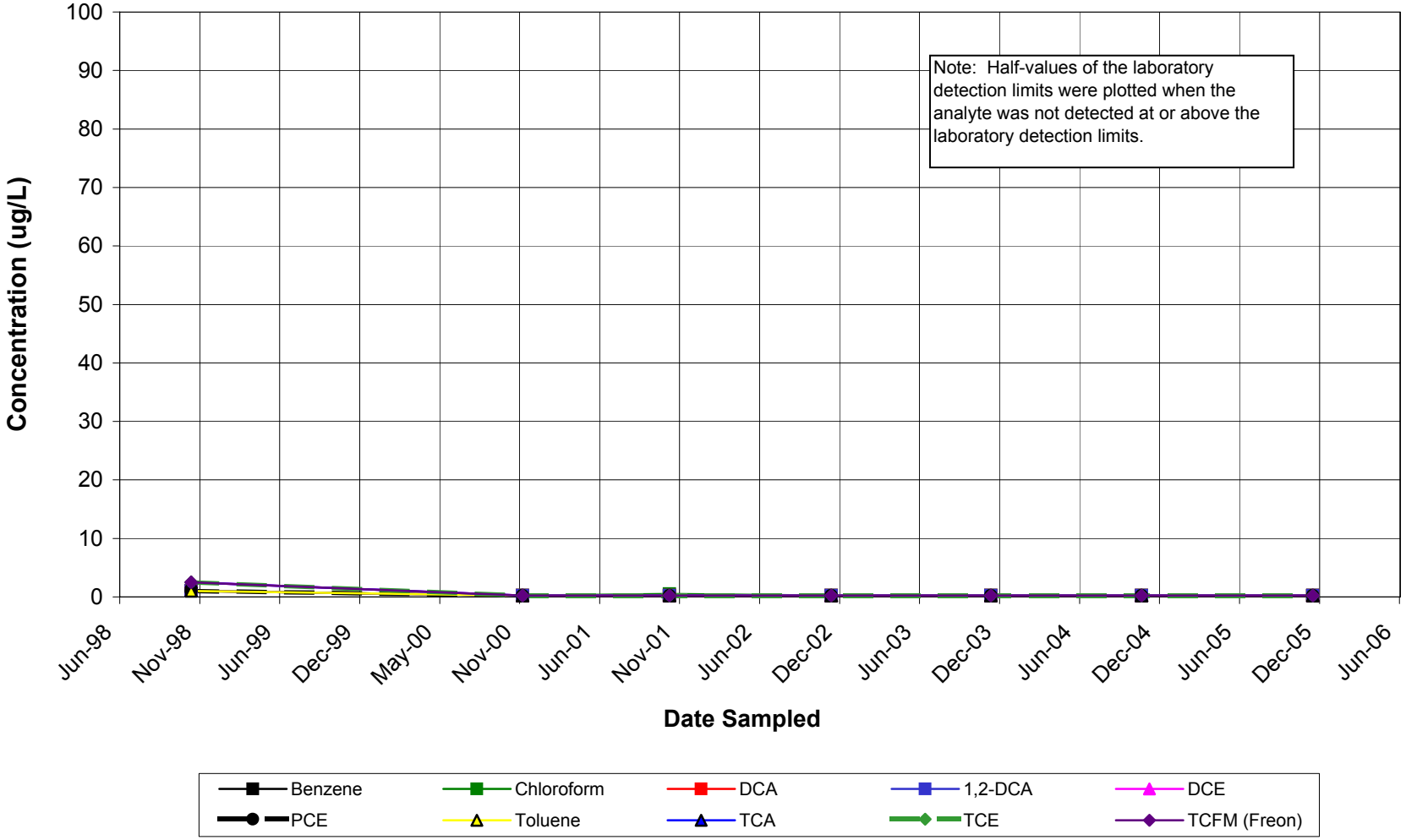
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 31: Volatile Organic Compounds vs. Time
Monitoring Well MW-23
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California



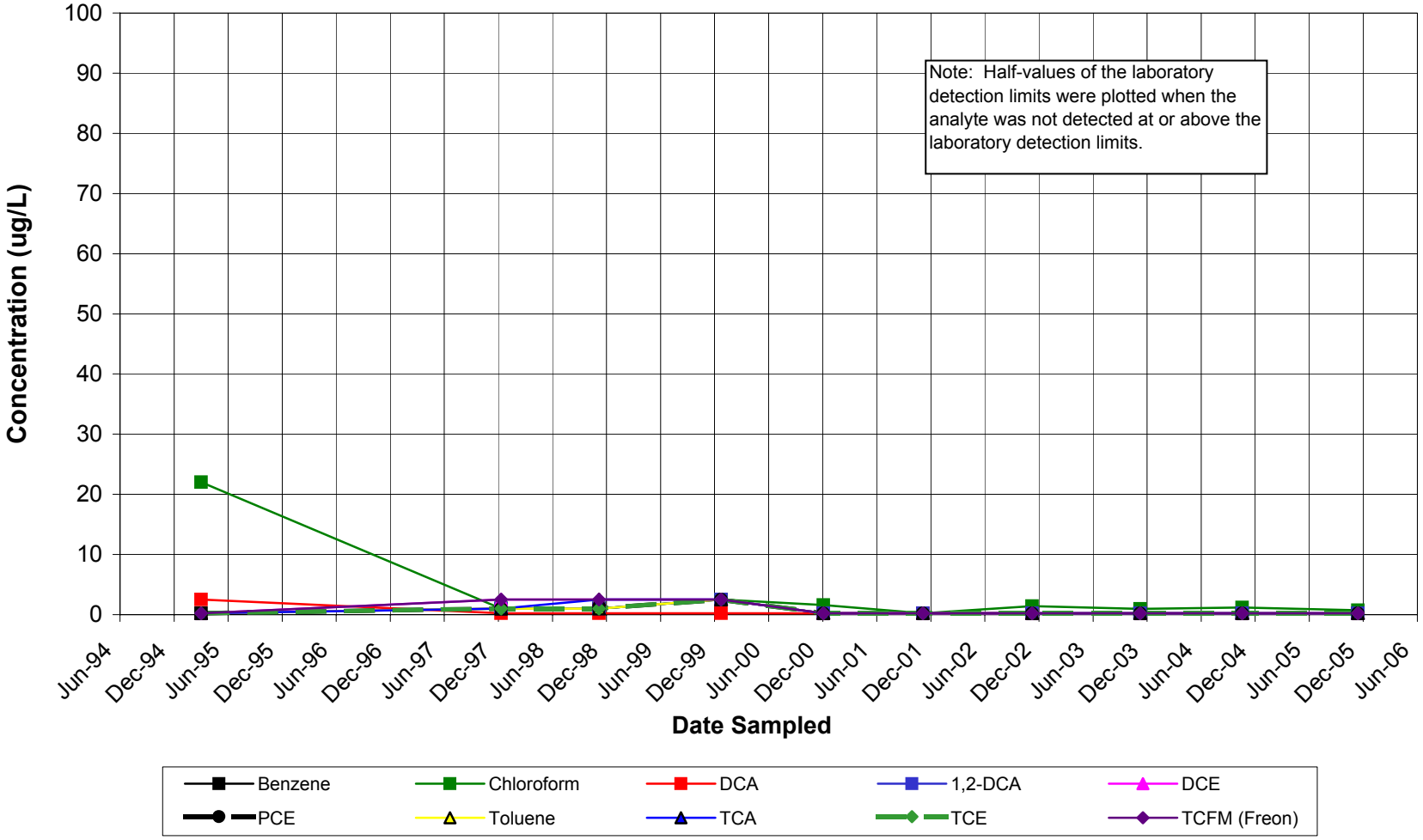
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 32: Volatile Organic Compounds vs. Time
Monitoring Well MW-24
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California



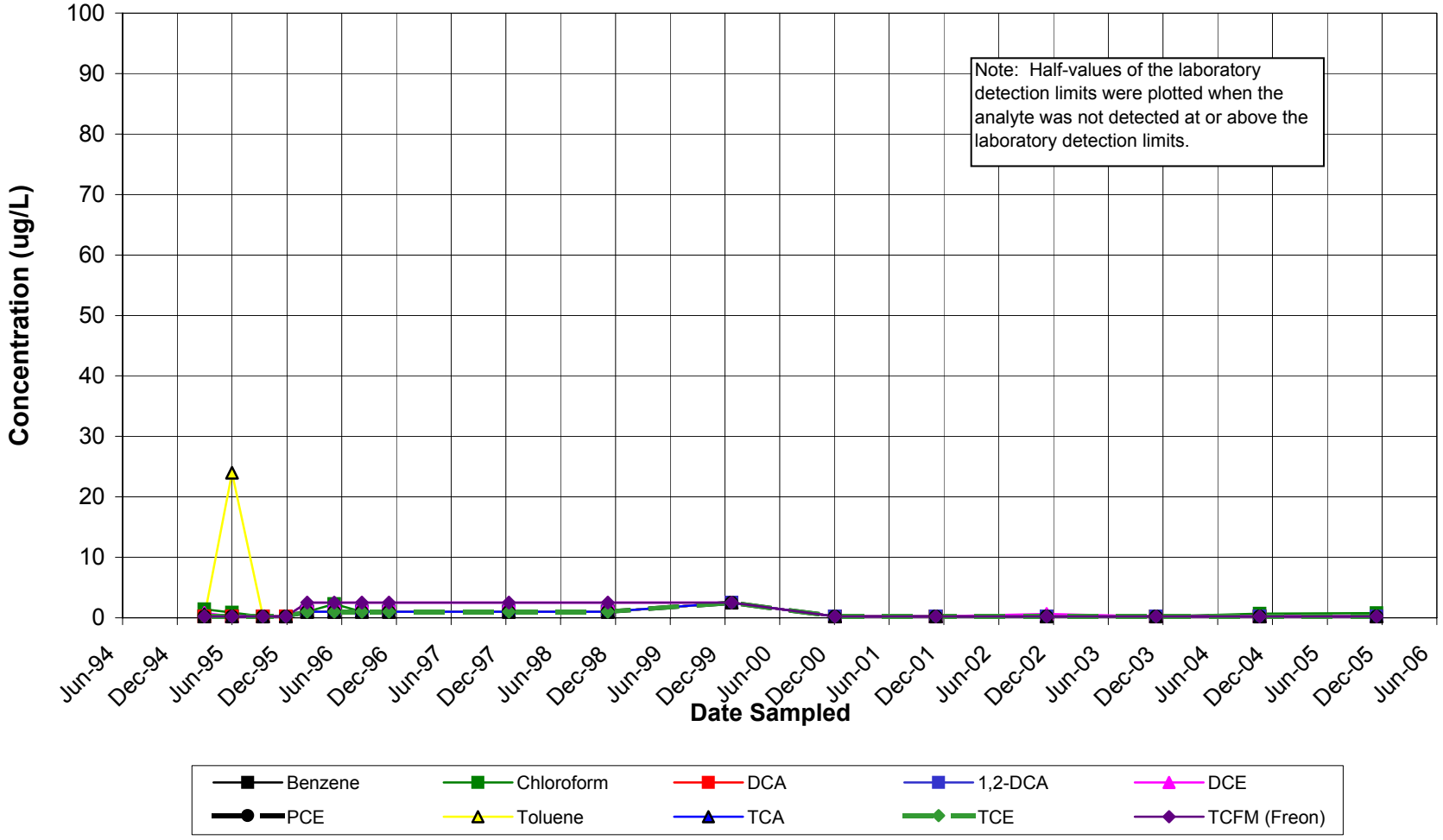
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 33: Volatile Organic Compounds vs. Time
Monitoring Well MW-25
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California



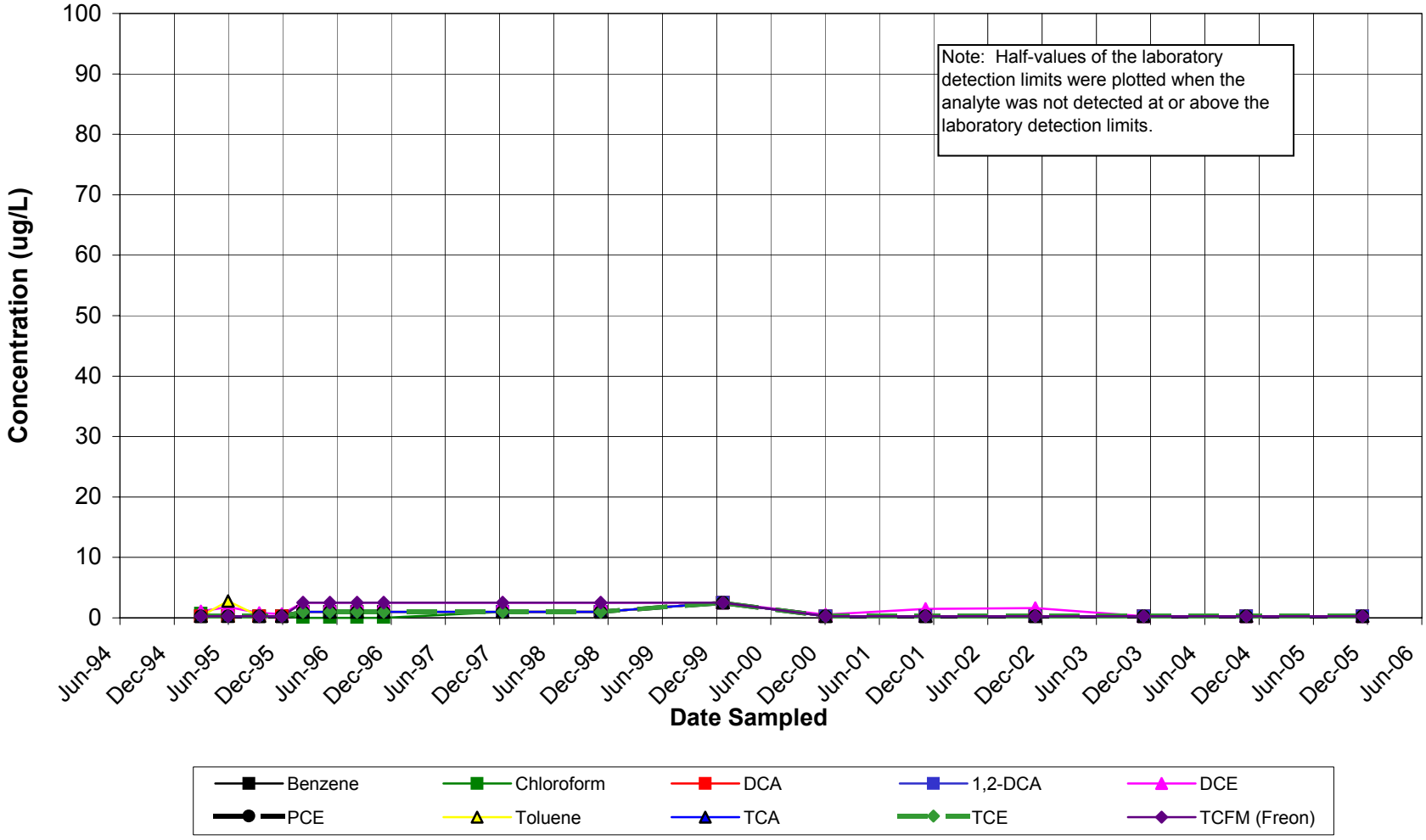
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 34: Volatile Organic Compounds vs. Time
Monitoring Well MW-26
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California



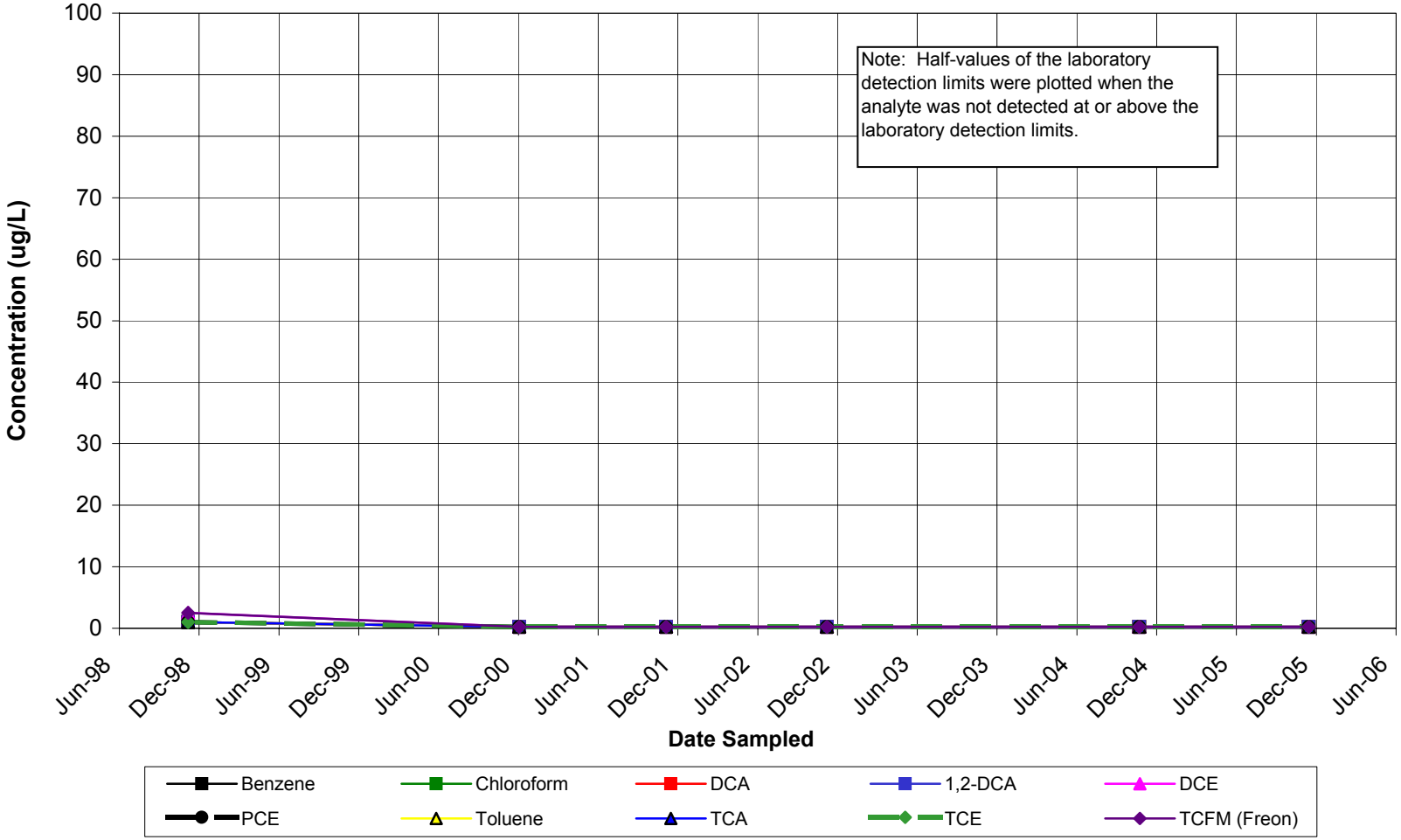
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 35: Volatile Organic Compounds vs. Time
Monitoring Well MW-27
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA



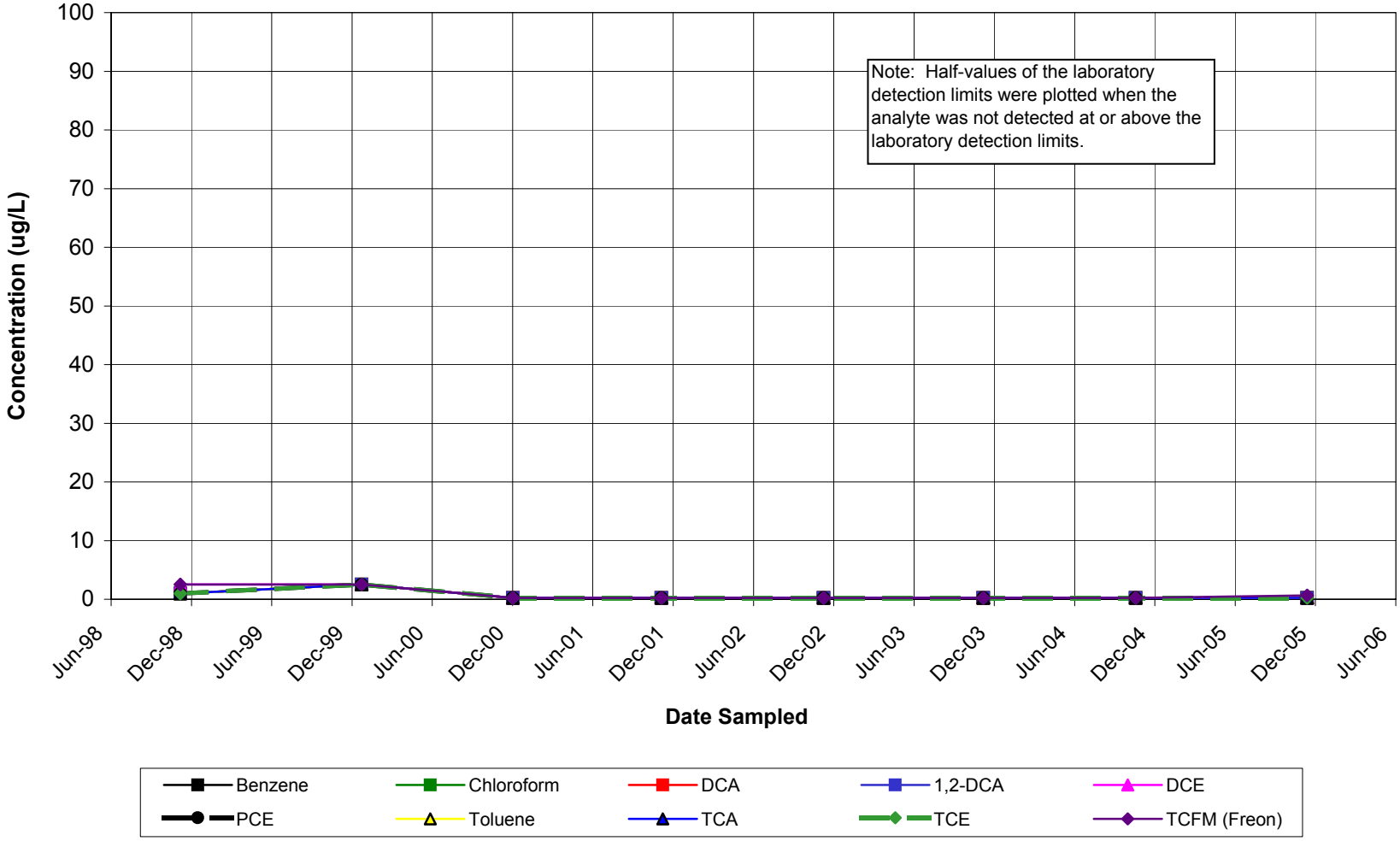
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 36: Volatile Organic Compounds vs. Time
Monitoring Well MW-28
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA



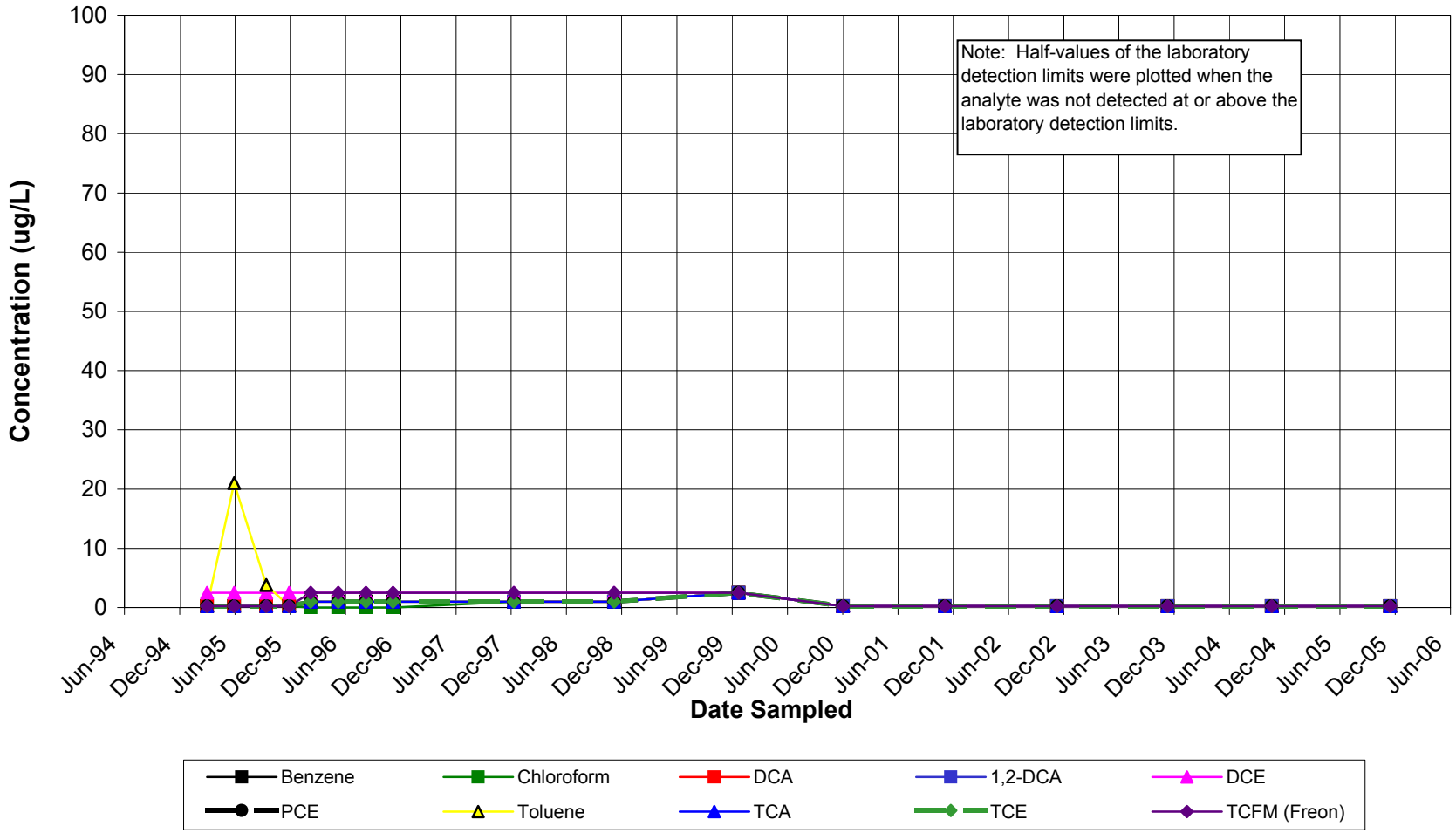
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 37: Volatile Organic Compounds vs. Time
Monitoring Well MW-29
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA



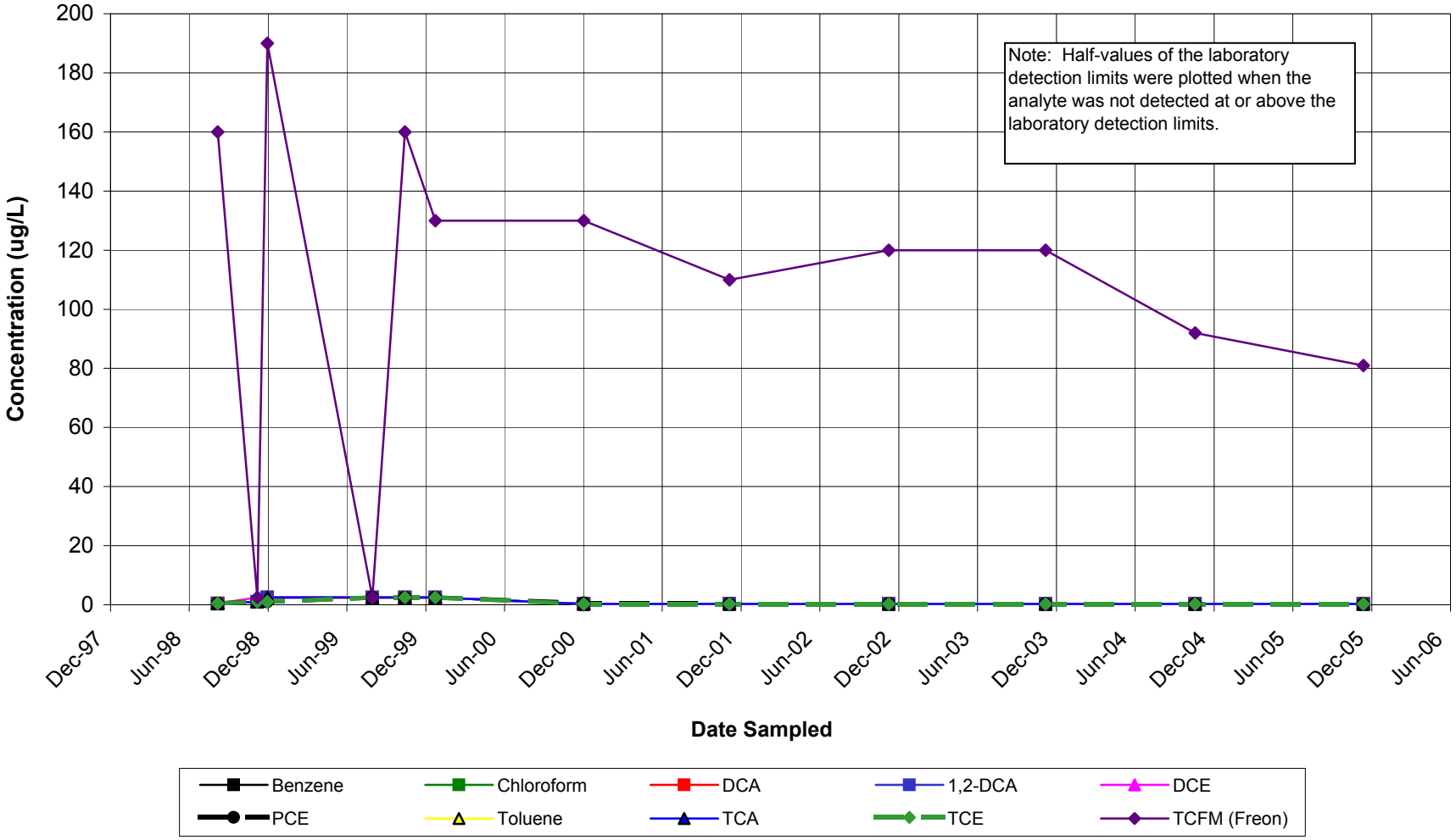
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 38: Volatile Organic Compounds vs. Time
Monitoring Well MW-30
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA



DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 39: Volatile Organic Compounds vs. Time
Monitoring Well MW-31
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA



DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Appendix B

Groundwater Sampling Field Sheets

DEPTH TO WATER DATA (1SA 2009 EVENT)

Former Raytheon Facility
8433 Fallbrook Avenue, Canoga Park, CA

Date: 5-26-09
Time: 0700
Technician: BJ

Well I.D.	Depth to Water (ft)	Depth to Bottom (ft)	Gauging Frequency	Comments
M-1	38.55	? ~~204~~ 504	oil SA in	well. Not accurate?
CM-2D	28.91		SA	
CM-4D	37.93		SA	
CM-7D	15.58		SA	
CM-8D	49.88		SA	Trammel modified well, correct to original TOC
CM-9D	31.36		SA	
CM-10	42.65		SA	
CM-11A	34.77		SA	
CM-12	35.09		SA	
CM-13	26.34		SA	
CM-14	15.62	—	SA	
CM-15	29.33		SA	
CM-16	~~26.40~~	42.21	SA	
CM-17	38.45		SA	
CM-18	47.62		SA	
CM-19	61.67	—	SA	
MW-15	25.58		SA	
MW-16	38.18		SA	
MW-17	34.16	—	SA	
MW-19S	18.41		SA	
MW-19D	8.39		SA	
MW-20S	15.47		SA	
MW-23	28.41		SA	
MW-24	37.84		SA	
MW-25	51.05		SA	
MW-26	46.39		SA	
MW-27	38.88		SA	
MW-36	31.03		SA	
MW-37	50.47		SA	Trammel modified well, correct to original TOC

Note: SA=semiannual; A=annual; NS=not sampled

RW-1 = 19.80
RW-11 = 24.51
RW-10 = 21.79

RW-12 = 50.05 closed

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☐	☐

Well Number: CMBA Date: 5-27-09 Project No: 2009025

A. Depth to water 49.88 feet Location: Raytheon Canoga

B. Total depth of well _____ feet Event: _____

C. Standing water in casing _____ feet Sampler: (BJ) JC Other: _____

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs Dupe

Inlet Timer____sec Discharge Timer____sec Pressure: _____psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			8.07	.251	14.0	1.94	22.8	.1	1.6	-93
/			8.07	.251	13.1	1.72		.2	1.6	-99
/			8.06	.251	12.9	1.71		.2	1.6	-101
3 / gals	unfilter	11:45	8.06	.251	12.6	1.70		.2	1.6	-102
/	Filter	12:00								
/										
/										
/										
/										
/										
Stabilization Readings										

Purging Device: Dedicated Bladder Pump (QED P1150) / Other 12V monsoon Pump inlet depth: 66 ft

Sampling Device: Dedicated Bladder Pump (QED P1150) / Other same Sample depth 66 ft

QA/QC Sample Collected Here? ☒ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: 5-27-09 1330 hrs. Sample ID: Dup-3

Water Meter Used:
U-22-TN-01 ☐
U-22-TN-02 ☑
U-10 ☐
Other: _____

Additional Comments:

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: CM-9A **Date:** 5-27-09 **Project No:** 2009025

A. Depth to water 31.36 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** _____

C. Standing water in casing _____ feet **Sampler:** BJ JC **Other:** _____

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer____sec Discharge Timer____sec Pressure: _____psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			7.94	.244	62.9	2.22	22.2	.1	1.6	-12
/			7.91	.244	58.6	2.15		.1	1.6	-11
/			7.90	.244	56.8	2.06		.1	1.6	-11
3 gals	unFilter	11:00	7.90	.244	55.4	2.05		.1	1.6	-10
/	Filter	11:15								
/										
/										
/										
/										
/										
Stabilization Readings										

Purging Device: Dedicated Bladder Pump (QED P1150) / Other 12V monsoon **Pump inlet depth:** 56 ft

Sampling Device: Dedicated Bladder Pump (QED P1150) / Other same **Sample depth** 56 ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Water Meter Used:
U-22-TN-01 ☐
U-22-TN-02 ☑
U-10 ☐
Other: _____

Additional Comments: _____

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: CM-10 **Date:** 5-26-09 **Project No:** 2009025

A. Depth to water 42.65 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** _____

C. Standing water in casing _____ feet **Sampler:** (BJ) JC Other: _____

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer _____ sec Discharge Timer _____ sec Pressure: _____ psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			7.73	.368	17.3	2.33	22.4	.2	2.4	+190
/			7.73	.369	16.7	2.26		.2	2.5	+189
/			7.73	.370	16.1	2.25		.2	2.5	+189
/	unfiltered	8:30	7.72	.369	15.9	2.25		.2	2.5	+189
4 / 9gls	filtered	8:45								
/	BJ						↓			
/										
/										
/										
/										
Stabilization Readings										

Purging Device: Dedicated Bladder Pump (QED P1150) / Other 12V monsoon **Pump inlet depth:** 48 ft

Sampling Device: Dedicated Bladder Pump (QED P1150) / Other same **Sample depth** 48 ft

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☑
U-10	☐
Other: _____	

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Additional Comments: _____

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: CM-12 Date: 5-27-09 Project No: 2009025

A. Depth to water 35.09 feet Location: Raytheon Canoga

B. Total depth of well _____ feet Event: _____

C. Standing water in casing _____ feet Sampler: (BJ) JC Other: _____

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer ____ sec Discharge Timer ____ sec Pressure: ____ psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, (S/m) or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or (g/L))	ORP (+/- mV)
			8.18	.144	35.5	2.19	22.1	.1	1.0	-225
/			8.16	.148	35.1	1.89	↓	.1	.9	-225
/	unFilter	0930	8.15	.147	34.6	1.86	↓	.1	.9	-224
3 gals /	Filter	0945	8.16	.147	34.0	1.85	↓	.1	.9	-224
/							↓			
/										
/										
/										
/										
/										
Stabilization Readings										

Purging Device: Dedicated Bladder Pump (QED P1150) / Other 12V monsoon Pump inlet depth: 62 ft

Sampling Device: Dedicated Bladder Pump (QED P1150) / Other same Sample depth 62 ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ Sample ID: _____

Water Meter Used:
- U-22-TN-01 ☐
- U-22-TN-02 ☑
- U-10 ☐
- Other: _____

Additional Comments: _____

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☒	☐
Vault Cover	☒	☐
Vault Seal	☒	☐
Bolts	☒	☐
Vault Lock	☒	☐
Concrete Completion	☒	☐
Well Lock/Seal	☒	☐

Well Number: CM-17 **Date:** 5-26-09 **Project No:** 2009025

A. Depth to water 38.45 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** _____

C. Standing water in casing _____ feet **Sampler:** (BJ) JC Other: _____

D. PID _____ ppm Dupe ←

Screened Interval _____ to _____ ft bgs

Inlet Timer _____ sec **Discharge Timer** _____ sec **Pressure:** _____ psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, (S/m) or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (~~mg/L~~ or g/L)	ORP (+/- mV)
			7.94	.332	24.3	1.87	21.6	.2	2.1	+35
/			7.94	.332	23.5	1.86	↓	.2	2.1	+33
/			7.94	.332	23.0	1.84		.2	2.1	+31
4 / gals	unfiltered 0930		7.93	.332	22.7	1.85		.2	2.1	+31
/	filtered 0945									
/										
/										
/										
/										
/										
Stabilization Readings										

Purging Device: Dedicated Bladder Pump (QED P1150) / Other 12V monsoon **Pump inlet depth:** 67 ft

Sampling Device: Dedicated Bladder Pump (QED P1150) / Other same **Sample depth** 67 ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: 10:00 unfiltered CP-090502S

Date/Time of QC Sample: 5-26-09 10:15 filtered **Sample ID:** CP-090502D

Water Meter Used:

U-22-TN-01	☐
U-22-TN-02	☒
U-10	☐
Other:	_____

Additional Comments: _____

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: CM-18 **Date:** 5-27-09 **Project No:** 2009025

A. Depth to water 47.62 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:**

C. Standing water in casing _____ feet **Sampler:** (BJ) JC Other:

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer_____sec Discharge Timer_____sec Pressure: _____psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			8.01	.251	63.0	3.10	21.4	.1	1.6	+23
/			7.99	.250	61.6	3.03	↓	.1	1.6	+25
/			7.95	.250	60.2	3.01		.1	1.6	+26
3.5 gals	w/in filter	12:30	7.94	.250	59.6	3.00		.1	1.6	+26
/	filter	12:45								
/										
/										
/										
/										
/										
Stabilization Readings										

Purging Device: Dedicated Bladder Pump (QED P1150) / Other 12V monsoon **Pump inlet depth:** 66 ft

Sampling Device: Dedicated Bladder Pump (QED P1150) / Other **Sample depth** 66 ft

Water Meter Used:
- U-22-TN-01 ☐
- U-22-TN-02 ☑
- U-10 ☐
- Other: _____

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Additional Comments:

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: MW-16 **Date:** 5-27-09 **Project No:** 2009025

A. Depth to water 38.18 feet **Location:** RAYTHEON CANOGA

B. Total depth of well _____ feet **Event:** _____

C. Standing water in casing _____ feet **Sampler:** BJ JC **Other:**

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs Dupe

Inlet Timer____sec Discharge Timer____sec Pressure: _____psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			7.96	.196	10.1	1.23	21.9	.1	1.3	-365
/			7.97	.198	8.7	1.22		.1	1.3	-365
/			7.97	.198	8.6	1.21		.1	1.3	-366
4 / gals	unFilter	0800	7.97	.198	8.2	1.21		.1	1.3	-366
/	Filter	0815								
/										
/										
/										
/										
/										
Stabilization Readings										

Purging Device: Dedicated Bladder Pump (QED P1150) / Other 12V monsoon **Pump inlet depth:** 108 ft

Sampling Device: Dedicated Bladder Pump (QED P1150) / Other Same **Sample depth** 108 ft

QA/QC Sample Collected Here? ☒ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: 5-27-09 0845 **Sample ID:** 0830 unfilter CP-0905023, filtered CP-0905024

Water Meter Used:
- U-22-TN-01 ☐
- U-22-TN-02 ☑
- U-10 ☐
- Other: _____

Additional Comments: _____

T N & Associates, Inc.
Engineering and Science

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: MW19S **Date:** 5-26-09 **Project No:** 2009025

A. Depth to water 18.41 feet **Location:** RAYTHEON CANOGA

B. Total depth of well _____ feet **Event:** _____

C. Standing water in casing _____ feet **Sampler:** (BJ) JC Other: _____

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer ____ sec Discharge Timer ____ sec Pressure: ____ psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, (S/m) or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			7.84	.203	62.6	2.87	18.4	.1	1.3	-163
/			7.82	.199	56.9	2.41	"	.1	1.3	-163
/			7.81	.199	55.7	2.39	"	.1	1.3	-164
2.25 gals	unfiltered	11:45	7.81	.199	55.4	2.38	↓	.1	1.3	-164
/	filtered	12:00								
/										
/										
/										
/										
/										
Stabilization Readings										

Purging Device: Dedicated Bladder Pump (QED P1150) / Other 12V monsoon **Pump inlet depth:** 26 ft

Sampling Device: Dedicated Bladder Pump (QED P1150) / Other Same **Sample depth** 26 ft

Water Meter Used:
- U-22-TN-01 ☐
- U-22-TN-02 ☑
- U-10 ☐
- Other: _____

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Additional Comments: _____

TN & Associates, Inc.
Engineering and Science

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: MW-20D **Date:** 5-26-09 **Project No:** 2009025

A. Depth to water 14.66 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** _____

C. Standing water in casing _____ feet **Sampler:** (BJ) JC Other: _____

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer____sec Discharge Timer____sec Pressure: _____psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (~~mg/L~~ or g/L)	ORP (+/- mV)
			8.08	.347	27.4	2.16	20.3	.2	2.2	-369
/			8.09	.347	27.2	2.14	↓	.2	2.2	-370
/			8.09	.347	26.8	2.13		.2	2.2	-371
3 / gals	unfiltered	11:00	8.09	.347	25.9	2.12		.2	2.2	-371
/	filtered	11:15								
/										
/										
/										
/										
/										
Stabilization Readings										

Purging Device: Dedicated Bladder Pump (QED P1150) / Other 12V. monsoon **Pump inlet depth:** 70 ft

Sampling Device: Dedicated Bladder Pump (QED P1150) / Other Same **Sample depth** 70 ft

Water Meter Used:
U-22-TN-01 ☐
U-22-TN-02 ☑
U-10 ☐
Other: _____

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Additional Comments: _____

T N & Associates, Inc.
Engineering and Science

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: MW-21S **Date:** 5-26-09 **Project No:** 2009025

A. Depth to water 11.36 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:**

C. Standing water in casing _____ feet **Sampler:** (BJ) JC Other:

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer____sec Discharge Timer____sec Pressure: _____psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			7.68	.374	54.6	2.68	20.5	.2	2.4	-25
/			7.72	.375	43.5	2.64		.2	2.4	-28
/	non-filter		7.75	.374	40.1	2.64		.2	2.4	-29
/	1345	~~1345~~	7.75	.374	39.6	2.63		.2	2.4	-29
2.75 / gal.	Filtered	→1400								
/										
/										
/										
/										
/										
Stabilization Readings										

Purging Device: Dedicated Bladder Pump (QED P1150) / Other 12V. monsoon **Pump inlet depth:** 36 ft

Sampling Device: Dedicated Bladder Pump (QED P1150) / Other Same **Sample depth** 36 ft

Water Meter Used:
U-22-TN-01 ☐
U-22-TN-02 ☑
U-10 ☐
Other: _____

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Additional Comments:

T N & Associates, Inc.
Engineering and Science

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☐	☐
Vault Seal	☐	☐
Bolts	☐	☐
Vault Lock	☐	☐
Concrete Completion	☐	☐
Well Lock/Seal	☐	☐

Well Number: MW-21D Date: 5-26-09 Project No: 2009025

A. Depth to water 9.37 feet Location: Raytheon Canoga

B. Total depth of well _____ feet Event: _____

C. Standing water in casing _____ feet Sampler: (BJ) JC Other: _____

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer____sec Discharge Timer____sec Pressure: _____psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, (S/m) or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or (g/L))	ORP (+/- mV)
			7.87	.349	47.9	2.41	21.6	.2	2.1	-370
/			7.87	.351	46.6	2.32	↓	.2	2.2	-371
/			7.87	.350	46.3	2.29		.2	2.2	-372
350 / gals	non-filtered	1445	7.87	.350	45.9	2.27		.2	2.2	-372
/	filtered	1500								
/										
/										
/										
/										
/										
Stabilization Readings										

Purging Device: Dedicated Bladder Pump (QED P1150) / Other 12V monsoon Pump inlet depth: 75 ft

Sampling Device: Dedicated Bladder Pump (QED P1150) / Other some Sample depth 75 ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ Sample ID: _____

Water Meter Used:
U-22-TN-01 ☐
U-22-TN-02 ☑
U-10 ☐
Other: _____

Additional Comments: water black/silty. Did not clean up.

T N & Associates, Inc.
Engineering and Science

Appendix C

Laboratory Reports

Calscience Environmental Laboratories, Inc.

June 02, 2009

Ewelina Mutkowska
OTIE
317 East Main Street
Ventura, CA 93001-2624

Subject: **Calscience Work Order No.: 09-05-2222**
Client Reference: Former Raytheon Site, Canaga Park / 2009025

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 5/26/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Virendra R Patel

Calscience Environmental
Laboratories, Inc.
Virendra Patel
Project Manager

Calscience Environmental Laboratories, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Case Narrative for 09-05-2222

Sample Condition on Receipt

Fifteen (15) samples were received as part of this Work Order on May 26, 2009. All samples were transferred to the laboratory in an ice-chest following strict chain-of-custody procedures. The temperature (4.5 °C) of the samples was measured upon arrival in the laboratory and was within acceptable limits. The samples were logged into the Laboratory Information Management System (LIMS), given laboratory identification numbers, and stored in refrigeration units pending analysis.

Data Summary

The samples included in this report were analyzed in accordance with the attached chain-of custody records.

Holding Times
All holding time requirements were met.

Calibration
Frequency and control criteria for initial and continuing calibration verifications were met.

Blanks
The method blank data showed non-detectable levels for Solids, Total Dissolved.

Sample Duplicate
A sample duplicate has been provided as part of the QC deliverables package. The RPD on the duplicate sample was within acceptable limits.

Matrix Spikes
Matrix Spikes (MS) and Matrix Spike Duplicates (MSD) analyses are not performed for this method.

Laboratory Control Samples
The Laboratory Control Sample (LCS) and LCS Duplicate analyses are not performed for this method.

Surrogates
Surrogate recoveries are not performed for this method.

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
Sample Summary Report

WORK ORDER #: 09-05-2222 **QAPP:** 0130

#	Client Sample ID	Matrix	Date Collected	NoC	Comment
1	CP-0905015	W	05/26/2009	1	
2	CP-0905016	W	05/26/2009	1	
3	CP-0905019	W	05/26/2009	1	
4	CP-0905020	W	05/26/2009	1	
5	CP-0905025	W	05/26/2009	1	
6	CP-0905026	W	05/26/2009	1	
7	CP-0905007	W	05/26/2009	1	
8	CP-0905008	W	05/26/2009	1	
9	CP-0905003	W	05/26/2009	1	
10	CP-0905004	W	05/26/2009	1	
11	CP-0905009	W	05/26/2009	1	
12	CP-0905010	W	05/26/2009	1	
13	CP-0905011	W	05/26/2009	1	
14	CP-0905012	W	05/26/2009	1	
15	CP-0905027	W	05/26/2009	1	

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-05-2223

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: OTIE - INEA

DATE: 5/26/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 4.7 °C - 0.2 °C (CF) = 4.5 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** _____

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** _____

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** YL

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s** ☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☑1PB ☐500PB ☐500PB**na** ☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PB ☐100PB**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____ **Other:** ☐_____ **Checked/Labeled by:** YL

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar (Wide-mouth) **B:** Bottle (Narrow-mouth) **Reviewed by:** _____

Preservative: **h:** HCL **n:** HNO3 **na$_2$:**$Na_2S_2O_3$ **Na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **znna:** $ZnAc_2$+NaOH **f:** Field-filtered **Scanned by:** _____

Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

☐ SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

Date 5/26/09

LABORATORY CLIENT: OTIE-TN&A

ADDRESS: 317 E. Main street

CITY: Ventura STATE: CA ZIP: 93001

TEL: (805) 585-2110 E-MAIL:

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☑ OTIE-TN&A Specific EDDs

SPECIAL INSTRUCTIONS:
* Level III Data Packages on samples.
* Level ~~III~~ Data Packages on samples (CP-0905001 & CP-0905002)

CLIENT PROJECT NAME / NUMBER: former Raytheon site, Canoga Park

P.O. NO.: 2009025

PROJECT CONTACT: Ewelina M.

LAB USE ONLY: 05-2222

SAMPLER(S): (PRINT) BOB Johnson

COELT LOG CODE: ☐☐☐☐

COOLER RECEIPT: TEMP= °C

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260B) or ( )	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+	TDS (SM 2540C)		
1	CP-0905015		5/26/09	8:30	GW	1																X		
2	CP-0905016			8:45																		X		
3	CP-0905019			9:30																		X		
4	CP-0905020			9:45																		X		
5	CP-0905025			10:00																		X		
6	CP-0905026			10:15																		X		
7	CP-0905007			11:00																		X		
8	CP-0905008			11:15																		X		
9	CP-0905003			11:45																		X		
10	CP-0905004			12:06																		X		

Relinquished by: (Signature) Bob Johnson	Received by: (Signature/Affiliation)	Date: 5-26-09	Time: 1525
Relinquished by: (Signature)	Received by: (Signature/Affiliation) Dannyle CEL	Date: 5/26/09	Time: 17:35
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
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05/01/07 Revision

Q&Q Graphic 714-898-9702

Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Date 5/26/09

Page 2 of 2

☐ SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

LABORATORY CLIENT: OTIE-TN & A

ADDRESS: 317 E. Main St

CITY: Ventura STATE: CA ZIP: 93001

TEL: 805-585-2110 E-MAIL:

CLIENT PROJECT NAME / NUMBER: Canoga Park

P.O. NO.: 2009025

PROJECT CONTACT: Eweling M.

LAB USE ONLY: 05-2222

SAMPLER(S): (PRINT) BOB Johnson

COELT LOG CODE: ☐☐☐☐

COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ OTIE-TN&A Specific EDDs

SPECIAL INSTRUCTIONS:
x Level III Data Packages on all samples
x Level III Data Packages on (CP-0905001 & CP-0905002)

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260B) or ( )	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+	TDS (SM 2540C)		
11	CP-0905009		5/26/09	13:45	H2O	1																X		
12	CP-0905010		5/26/09	14:00		1																X		
13	CP-0905011		5/26/09	14:45		1																X		
14	CP-0905012		5/26/09	15:00		1																X		
15	CP-0905027		5/26/09	15:15		1																X		

Relinquished by: (Signature) Bob Johnson	Received by: (Signature/Affiliation)	Date: 5-26-09	Time: 1525
Relinquished by: (Signature)	Received by: (Signature/Affiliation) Dannyle / CEL	Date: 5/26/09	Time: 17:35
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

05/01/07 Revision

Calscience Environmental Laboratories, Inc.

Analytical Report

OTIE		Date Received:	05/26/09
317 East Main Street		Work Order No:	09-05-2222
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	SM 2540 C

Project: Former Raytheon Site, Canaga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905015	**09-05-2222-1-A**	**05/26/09 08:30**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	3390	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905016	**09-05-2222-2-A**	**05/26/09 08:45**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	3440	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905019	**09-05-2222-3-A**	**05/26/09 09:30**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2730	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905020	**09-05-2222-4-A**	**05/26/09 09:45**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2760	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905025	**09-05-2222-5-A**	**05/26/09 10:00**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2680	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905026	**09-05-2222-6-A**	**05/26/09 10:15**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2720	10	1.0	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

OTIE		Date Received:	05/26/09
317 East Main Street		Work Order No:	09-05-2222
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	SM 2540 C

Project: Former Raytheon Site, Canaga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905007	**09-05-2222-7-A**	**05/26/09 11:00**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2420	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905008	**09-05-2222-8-A**	**05/26/09 11:15**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2350	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905003	**09-05-2222-9-A**	**05/26/09 11:45**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	1640	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905004	**09-05-2222-10-A**	**05/26/09 12:06**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	1690	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905009	**09-05-2222-11-A**	**05/26/09 13:45**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2910	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905010	**09-05-2222-12-A**	**05/26/09 14:00**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2050	10	1.0	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

OTIE		Date Received:	05/26/09
317 East Main Street		Work Order No:	09-05-2222
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	SM 2540 C

Project: Former Raytheon Site, Canaga Park / 2009025 Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905011	**09-05-2222-13-A**	**05/26/09 14:45**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2260	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905012	**09-05-2222-14-A**	**05/26/09 15:00**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2260	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905027	**09-05-2222-15-A**	**05/26/09 15:15**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	14	1.0	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-180-1,405**	**N/A**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	ND	1.0	1.0	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

OTIE		Date Received:	05/26/09
317 East Main Street		Work Order No:	09-05-2222
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	SM 2540 C

Project: Former Raytheon Site, Canaga Park / 2009025

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
09-05-2306-1	**Aqueous**	**N/A**	**05/29/09**	**05/29/09**	**90529TDSD1**

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	795	793	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-05-2222

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

Level III Data Package

Work Order#: 09-05-2222

Client: OTIE - TN & A

Former Raytheonsite, Canaga Park / 2009025

SM 2540 C

Total Dissolved Solids

Gravimetric Logbook

MB DUP

Analyte: ☒ Total Dissolved Solids (TDS), ☐ Total Suspended Solids (TSS)

METHOD	MATRIX	DATE	ANALYST(S)	BATCH NUMBER	CONC UNIT
☒ SM 2540 C ☐ EPA 160.1 ☐ SM 2540 D ☐ EPA 160.2	Aqueous	Preparation: 5/29/09 Analysis: ↓	MS	MB: 90529 TDSB1 Sample Duplicate: 90529 TDSD1	☒ mg/L ☐ mg/kg

CEL ID #	CONC	RPD	CONTROL LIMIT	COMMENTS
Sample 09-05-2306-1-A	795	0	0 – 20	
Duplicate ↓	793			

Instruction:
Cel ID consists of Work ~~Order Number and Bottle/Vial ID~~.

BATCH TIME
Time (24 Hr): 1930
Initials: MS

CEL ID #	TIME START	TIME END	CONTAINER ID #	SAMPLE INITIAL W (g) / V (mL)	MASS (g) CONTAINER	MASS (g) CONTAINER + DRIED RESIDUE	MASS (g) DRIED RESIDUE	CONC	RL	BALANCE ID #	COMMENTS
09-05-2222-1-A	NA	NA	46	20	29.3481	29.4158	0.0677	3390	10	14	5200
-2			111		29.4473	29.5161	0.0688	3440			5240
-3			3B		29.5016	29.5562	0.0546	2730			4250
-4			90		28.4238	28.4790	0.0552	2760			4150
-5			AF		29.6777	29.7312	0.0535	2680			4300
-6			62		28.7097	28.7641	0.0544	2720			4500
-7			HAB		28.8384	28.8868	0.0484	2420			3550
-8			51	↓	28.9370	28.9839	0.0469	2350			3520
-9			BFA	30	28.9507	28.9998	0.0491	1640			2110
-10			A4A	30	29.0104	29.0612	0.0508	1690			2160
-11			T16	20	29.3634	29.4215	0.0581	2910			3600
-12			S24	30	29.3487	29.4101	0.0614	2050			2600
-13			57	20	29.4154	29.4606	0.0452	2260			3500
-14			W5	20	29.7251	29.7703	0.0452	2260	↓		3520
↓ -15 ↓			9	50	29.2530	29.2537	0.0007	14	1.0		2.0
-2230-1-G			25	40	30.7319	30.7779	0.0460	1150	10		1930
-2-F			TKN		29.5546	29.5929	0.0383	958	1.0		1580
-2285-6-H			H4		29.7404	29.7772	0.0368	920	↓		1430
↓ -2306-1-A	↓	↓	26	↓	29.4998	29.5316	0.0318	795	↓	↓	1110
MB	NA	NA	2BB	200	29.7465	29.7466	0.0001	ND	1.0	14	
Duplicate 09-05-2306-1-A	NA	NA	HA	40	28.9049	28.9366	0.0317	793	1.0	14	

Page 13 of 13

Calscience Environmental Laboratories, Inc.

June 04, 2009

Ewelina Mutkowska
OTIE
317 East Main Street
Ventura, CA 93001-2624

Subject: **Calscience Work Order No.: 09-05-2305**
Client Reference: Raytheon Canoga / 2009025

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 5/27/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Virendra Patel
Project Manager

Calscience Environmental Laboratories, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Case Narrative for 09-05-2305

Sample Condition on Receipt

Thirteen (13) aqueous samples were received as part of this Work Order on May 27, 2009. The samples were transferred to the laboratory in an ice-chest following strict chain-of-custody procedures. The temperature (2.4°C) of the samples was measured upon arrival in the laboratory and was within acceptable limits. The samples were logged into the Laboratory Information Management System (LIMS), given laboratory identification numbers, and stored in refrigeration units pending analysis.

Data Summary
The samples included in this report were analyzed in accordance with the attached chain-of-custody (COC) record.

Holding Times
All holding time requirements were met.

Calibration
Frequency and control criteria for initial and continuing calibration verifications were met.

Blanks
The method blank data showed non-detectable levels for Total Dissolved Solids.

Sample Duplicate
A sample duplicate has been provided as part of the QC deliverables package. The RPD on the duplicate sample was within acceptable limits.

Matrix Spikes
Matrix Spikes (MS) and Matrix Spike Duplicates (MSD) were not performed for this method.

Laboratory Control Samples
The Laboratory Control Sample (LCS) and LCS Duplicate analyses were not performed for this method.

Surrogates
Surrogate recoveries were not performed for this method.

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
Sample Summary Report

WORK ORDER #: **09-05-2305** **QAPP:** **0130**

#	*Client Sample ID*	*Matrix*	*Date Collected*	*NoC*	*Comment*
1	CP-0905005	W	05/27/2009	1	
2	CP-0905006	W	05/27/2009	1	
3	CP-0905001	W	05/27/2009	1	
4	CP-0905002	W	05/27/2009	1	
5	CP-0905013	W	05/27/2009	1	
6	CP-0905014	W	05/27/2009	1	
7	CP-0905017	W	05/27/2009	1	
8	CP-0905018	W	05/27/2009	1	
9	CP-0905021	W	05/27/2009	1	
10	CP-0905022	W	05/27/2009	1	
11	CP-0905028	W	05/27/2009	1	
12	CP-0905023	W	05/27/2009	1	
13	CP-0905024	W	05/27/2009	1	

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-05- 2 3 0 5

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: OTE-TNSA DATE: 05/27/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.6 °C - 0.2 °C (CF) = 2.4 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☑ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** KG

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** KG

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** SM

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s** ☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☑1PB ☐500PB ☐500PB**na** ☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PB ☐100PB**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____ **Other:** ☐_____ **Checked/Labeled by:** SM

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar (Wide-mouth) **B:** Bottle (Narrow-mouth) **Reviewed by:** DL

Preservative: **h:** HCL **n:** HNO3 **na$_2$:** $Na_2S_2O_3$ **Na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **znna:** $ZnAc_2$+NaOH **f:** Field-filtered **Scanned by:** DL

Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

☐ SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

Date 5-27-09

Page 1 of 2

LABORATORY CLIENT: OTIE - TN&A		CLIENT PROJECT NAME / NUMBER: Raytheon Canoga 2009025	P.O. NO.:
ADDRESS: 317 E Main St.		PROJECT CONTACT: Ewelina Mutkowska	LAB USE ONLY 05-2305
CITY: Ventura	STATE: CA. ZIP: 93001	SAMPLER(S): (PRINT) Bob Johnson	COELT LOG CODE ☐☐☐☐
TEL: 805-585-2110	E-MAIL:		COOLER RECEIPT TEMP= °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ OTIE TNA Specific EDD's

SPECIAL INSTRUCTIONS:
Level III Data Packages on all samples
Level III Data Packages on samples CP-0905001 & CP-0905002

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260B) or ( )	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+	TDS (SM 2540C)		
1	CP-0905005		5-27-09	11:45	GW	1																X		
2	CP-0905006			12:00																		X		
3	CP-0905001			0800																		X		
4	CP-0905002			0815																		X		
5	CP-0905013	~~11:00~~ BJ		11:00																		X		
6	CP-0905014	~~11:15~~ BJ		11:15																		X		
7	CP-0905017	~~0930~~ BJ		0930																		X		
8	CP-0905018	~~0945~~ BJ		0945																		X		
9	CP-0905021			1230																		X		
10	CP-0905022			1245																		X		

Relinquished by: (Signature) Bob Johnson	Received by: (Signature/Affiliation) CR	Date: 05/27/09	Time: 14:10
Relinquished by: (Signature)	Received by: (Signature/Affiliation) CR	Date: 05/27/09	Time: 1600
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

05/01/07 Revision

Calscience Environmental Laboratories, Inc.

☐ SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

CHAIN OF CUSTODY RECORD

Date 5-27-09

Page 2 of 2

LABORATORY CLIENT: OTIE-TN&A	CLIENT PROJECT NAME / NUMBER: Raytheon Canoga 2009025
ADDRESS: 317 E. Main St.	PROJECT CONTACT: Ewelina Mutkowska
CITY: Ventura, STATE: CA. ZIP: 93001	SAMPLER(S): (PRINT) Bob Johnson
TEL: 805-585-2110 E-MAIL:	COELT LOG CODE: ☐☐☐☐
P.O. NO.:	LAB USE ONLY: 05-2305
COOLER RECEIPT TEMP= °C	

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ OTIE-TNA specific EDD's

SPECIAL INSTRUCTIONS:
Level III Data Packages on all samples
Level IV Data Packages on CP-0905001
CP-0905002

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C44)	TPH ( )	BTEX / MTBE (8260B) or ( )	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+	TDS (SM2540C)		
	~~CP-0905027~~ BJ		5-27-09		GW	1																X		
11	CP-0905028		5-27-09	1315		1																X		
12	CP-0905023		5-27-09	0830		1																X		
13	CP-0905024		5-27-09	0845		1																X		

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 05/27/09	Time: 1410
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 05/27/09	Time: 1600
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

05/01/07 Revision

Calscience Environmental Laboratories, Inc.

Analytical Report

OTIE		Date Received:	05/27/09
317 East Main Street		Work Order No:	09-05-2305
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	SM 2540 C

Project: Raytheon Canoga / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905005	**09-05-2305-1-A**	**05/27/09 11:45**	**Aqueous**	**N/A**	**06/01/09**	**06/01/09 20:10**	**90601TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2320	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905006	**09-05-2305-2-A**	**05/27/09 12:00**	**Aqueous**	**N/A**	**06/01/09**	**06/01/09 20:10**	**90601TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2330	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905001	**09-05-2305-3-A**	**05/27/09 08:00**	**Aqueous**	**N/A**	**06/01/09**	**06/01/09 20:10**	**90601TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	1300	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905002	**09-05-2305-4-A**	**05/27/09 08:15**	**Aqueous**	**N/A**	**06/01/09**	**06/01/09 20:10**	**90601TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	1300	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905013	**09-05-2305-5-A**	**05/27/09 11:00**	**Aqueous**	**N/A**	**06/01/09**	**06/01/09 20:10**	**90601TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2320	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905014	**09-05-2305-6-A**	**05/27/09 11:15**	**Aqueous**	**N/A**	**06/01/09**	**06/01/09 20:10**	**90601TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2340	10	1.0	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

OTIE		Date Received:	05/27/09
317 East Main Street		Work Order No:	09-05-2305
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	SM 2540 C

Project: Raytheon Canoga / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905017	**09-05-2305-7-A**	**05/27/09 09:30**	**Aqueous**	**N/A**	**06/01/09**	**06/01/09 20:10**	**90601TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	1790	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905018	**09-05-2305-8-A**	**05/27/09 09:45**	**Aqueous**	**N/A**	**06/01/09**	**06/01/09 20:10**	**90601TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	975	1.0	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905021	**09-05-2305-9-A**	**05/27/09 12:30**	**Aqueous**	**N/A**	**06/01/09**	**06/01/09 20:10**	**90601TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2350	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905022	**09-05-2305-10-A**	**05/27/09 12:45**	**Aqueous**	**N/A**	**06/01/09**	**06/01/09 20:10**	**90601TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2330	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905028	**09-05-2305-11-A**	**05/27/09 13:15**	**Aqueous**	**N/A**	**06/01/09**	**06/01/09 20:10**	**90601TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	14	1.0	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905023	**09-05-2305-12-A**	**05/27/09 08:30**	**Aqueous**	**N/A**	**06/01/09**	**06/01/09 20:10**	**90601TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	1330	10	1.0	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

OTIE		Date Received:	05/27/09
317 East Main Street		Work Order No:	09-05-2305
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	SM 2540 C

Project: Raytheon Canoga / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905024	**09-05-2305-13-A**	**05/27/09 08:45**	**Aqueous**	**N/A**	**06/01/09**	**06/01/09 20:10**	**90601TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	1290	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-180-1,404**	**N/A**	**Aqueous**	**N/A**	**06/01/09**	**06/01/09 20:10**	**90601TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	ND	1.0	1.0	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE	Date Received:	05/27/09
317 East Main Street	Work Order No:	09-05-2305
Ventura, CA 93001-2624	Preparation:	N/A
	Method:	SM 2540 C

Project: Raytheon Canoga / 2009025

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
09-06-0005-1	**Aqueous**	**N/A**	**06/01/09**	**06/01/09**	**90601TDSD1**

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	1010	1010	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-05-2305

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

Level III Data Package

Work Order#: 09-05-2305

Client: OTIE - TN & A

Raytheon Canoga / 2009025

SM 2540 C

Total Dissolved Solids

Gravimetric Logbook

MB DUP

Analyte: ☑ Total Dissolved Solids (TDS), ☐ Total Suspended Solids (TSS)

METHOD	MATRIX	DATE	ANALYST(S)	BATCH NUMBER	CONC UNIT
☒ SM 2540 C ☐ EPA 160.1 ☐ SM 2540 D ☐ EPA 160.2	Aqueous	Preparation: 6/1/09 Analysis: ↓	MS LN	MB: 90601TDSB1 Sample Duplicate: 90601TDSD1	☒ mg/L ☐ mg/kg

Time (24 hr): 2010
Initials: LN

CEL ID #	CONC	RPD	CONTROL LIMIT	COMMENTS
Sample 09-06-0005-1-H	1010	0	0 - 20	
Duplicate ↓	1010			

Instruction:
Cel ID consists of Work Order Number and Bottle/Vial ID.

CEL ID #	TIME START	TIME END	CONTAINER ID #	SAMPLE INITIAL W (g) / V (mL)	MASS (g) CONTAINER	MASS (g) CONTAINER + DRIED RESIDUE	MASS (g) DRIED RESIDUE	CONC	RL	BALANCE ID #	COMMENTS
09-06-0005-1-H	NA	NA	22	40	29.2210	29.2615	0.0405	1010	10	14	1530
09-05-2305-1-A			BR		29.4494	29.5423	0.0929	2320			2550
-2			WD		29.4213	29.5145	0.0932	2330			2500
-3			B51		29.0965	29.1484	0.0519	1300			2010
-4			B12		29.5756	29.6275	0.0519	1300			1960
-5			80		29.1160	29.2086	0.0926	2320			2490
-6			51		29.5867	29.6801	0.0934	2340			2430
-7			R1		30.6182	30.6899	0.0717	1790	↓		2050
-8			I10		29.6580	29.6970	0.0390	975	1.0		1190
-9			G23		29.2836	29.3774	0.0938	2350	10		2480
-10			39	↓	28.9105	29.0036	0.0931	2330	10		2490
-11			50	50	29.6179	29.6186	0.0007	14	1.0		2.5
-12			A15 ~~B1~~	40	29.2534	29.4873	0.0530	1330	10		2020
↓ -13 ↓	↓	↓	DT	40	29.2699	29.3205	0.0514	1290	10	↓	2010
MB			86	200	29.5903	29.5903	0.0000	ND	1.0	14	
Duplicate 09-06-0005-1-H	NA	NA	T1	40	29.4843	29.5247	0.0404	1010	10	↓	

GPL
LABORATORIES

June 30, 2009

Ms. Ewelina Mutkowska
OTIE-TN&A
317 E. Main St.
Ventura, CA 93001

Dear Ms. Mutkowska:

On May 27, 2009, 15 water samples were received for analysis at the GPL Laboratories Alabama, LLC. The samples were assigned Laboratory Report Identification Code 9067_9115. Enclosed is the Sample Data Package containing the radioanalytical results of the sample.

If you have any questions please do not hesitate to call.

Sincerely,

Richard Turner
Laboratory Director

1000 Monticello Court ✦ Montgomery, Alabama ✦6117 ✦334.272.2234 ✦Fax 334.213.0407

COVER PAGE

GPL Laboratories Alabama, LLC
1000 Monticello Court
Montgomery, Alabama 36117

NELAC Certification ID: NLC080001 (AL001)

Laboratory Report Identification Code: 9067

Sample Matrix: Water

Site Sample Number	Laboratory Sample Number
CP-0905019	OTI09-9067-01 OTI09-9085-01
CP-0905016	OTI09-9067-02 OTI09-9085-02
CP-0905019	OTI09-9067-03 OTI09-9085-03
CP-0905020	OTI09-9067-04 OTI-09-9085-04
CP-0905025	OTI09-9067-05 OTI09-9085-05
CP-0905026	OTI09-9067-06 OTI09-9085-06
CP-0905007	OTI09-9067-07 OTI09-9085-07
CP-0905008	OTI09-9067-08 OTI09-9085-08
CP-0905003	OTI09-9067-09 OTI09-9085-09
CP-0905004	OTI09-9067-10 OTI09-9085-10
CP-0905009	OTI09-9067-11 OTI09-9085-11 OTI09-9115-01
CP-0905010	OTI09-9067-12 OTI09-9085-12 OTI09-9115-02
CP-0905011	OTI09-9067-13 OTI09-9085-13
CP-0905012	OTI09-9067-14 OTI09-9085-14
CP-0905027	OTI09-9067-15 OTI09-9085-15

COVER PAGE(continued)

GPL Laboratories Alabama, LLC
1000 Monticello Court
Montgomery, Alabama 36117

NELAC Certification ID: NLC080001 (AL001)

Laboratory Report Identification Code: 9067_9115

Comments: There were no problems encountered during sample receiving.

"I certify that this sample data package is in compliance with contract requirements, both technically and for completeness. Release of the data contained in this hard-copy sample data package has been authorized by the Laboratory Director or the Laboratory Director designee, as verified by the following signature."

Signature

Richard Turner	Laboratory Director	06/30/2009
Name	Title	Date

CASE NARRATIVE

Laboratory Report Identification Number: 9067_9115

NELAC Certification ID: NLC080001 (AL001)

June 30, 2009

I. Introduction

On May 27, 2009, 15 water samples were received for analysis at the GPL Laboratories Alabama, LLC located in Montgomery, Alabama. The samples were analyzed in accordance with the GPL Laboratory Quality Assurance Plan.

The data in this report meets all NELAC requirements unless otherwise stated.

II. Analytical Methodology

The radioanalytical results reported for the sample include the site and laboratory sample identification numbers, collection date, method of analysis, and the quality control samples that were analyzed concurrently. The samples were analyzed by the following methods.

Radionuclide	Method Number	Method Name	Counting Method
Co-Precipitation	SM711C	Gross Alpha Radioactivity	Gas Proportional Counting
Gross Alpha (U)	EPA 900.0	Gross Alpha Radioactivity	Gas Proportional Counting
Gross Beta	EPA 900.0	Gross Beta Radioactivity	Gas Proportional Counting
Ra-226	EPA 903.1	Radium-226 Radon Emanation Technique	Radon Flask/Scaler
Ra-228	EPA 904.0	Radium-228	Gas Proportional Counting
Uranium	ACW03	Eichrom Industries Extraction Chromatography	Alpha Spectrometry

III. Analytical Results

Deficiencies

See *"Re-analysis"* section.

Matrix Interferences

There were no indications of matrix interference.

Detection Limits

The required detection limits (RDLs) were met for all sample analyses.

Re-analysis

Samples OTI09-9067-11 and OTI09-9067-12 exhibited low tracer recovery due to method error during chemistry process. The samples were reanalyzed as OTI09-9115-01 and OTI09-9115-02 with new QC. The re-analyses produced acceptable results and are reported in this document.

Upon further review of the package, the gross alpha detection limits were not met for some of the samples. Those samples were recounted at longer times to achieve detection limits.

Deviations from Protocols

There were no deviations from the written protocols and analytical methods.

Contacts with the Technical Representative

There was no contact with the Technical Representative regarding these samples.

IV. Quality Control

The analytical results of all quality control samples met the acceptance criteria specified in the GPL Laboratory Quality Assurance Plan.

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905015			
Other Sample ID:	Collection Date: 5/26/2009 8:30:00 AM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9067	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9067-01C	06/26/09 16:03	-4.16	1.86	2.24	2.77
ACW03	U-233/234	OTI09-9067-01	06/24/09 16:57	35.4	4.12	8.19	0.087
ACW03	U-235	OTI09-9067-01	06/24/09 16:57	1.59	0.526	0.710	0.108
ACW03	U-238	OTI09-9067-01	06/24/09 16:57	37.6	4.33	8.67	0.153
EPA 903.1	RA-226	OTI09-9067-01	06/03/09 13:37	0.083	0.284	0.285	0.488
EPA 904.0	RA-228	OTI09-9067-01	06/02/09 16:11	0.517	0.406	0.434	0.619

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905016			
Other Sample ID:	Collection Date: 5/26/2009 8:45:00 AM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9067	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9067-02B	06/25/09 17:00	30.5	3.71	9.88	4.40
ACW03	U-233/234	OTI09-9067-02	06/24/09 16:57	36.0	4.16	8.32	0.201
ACW03	U-235	OTI09-9067-02	06/24/09 16:57	1.93	0.582	0.820	0.106
ACW03	U-238	OTI09-9067-02	06/24/09 16:57	36.4	4.20	8.41	0.086
EPA 903.1	RA-226	OTI09-9067-02	06/03/09 13:37	0.209	0.279	0.286	0.461
EPA 904.0	RA-228	OTI09-9067-02	06/02/09 16:13	0.166	0.358	0.362	0.618

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905019			
Other Sample ID:	Collection Date: 5/26/2009 9:30:00 AM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9067	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9067-03B	06/25/09 17:01	18.5	2.00	5.91	2.31
ACW03	U-233/234	OTI09-9067-03	06/24/09 16:57	12.2	1.91	3.11	0.106
ACW03	U-235	OTI09-9067-03	06/24/09 16:57	0.481	0.309	0.341	0.130
ACW03	U-238	OTI09-9067-03	06/24/09 16:57	11.7	1.85	2.99	0.105
EPA 903.1	RA-226	OTI09-9067-03	06/03/09 15:05	1.27	0.394	0.548	0.535
EPA 904.0	RA-228	OTI09-9067-03	06/02/09 16:14	0.633	0.449	0.488	0.675

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905020			
Other Sample ID:	Collection Date: 5/26/2009 9:45:00 AM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9067	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9067-04B	06/25/09 17:01	11.0	2.30	4.02	3.09
ACW03	U-233/234	OTI09-9067-04	06/24/09 16:57	12.0	1.40	2.78	0.058
ACW03	U-235	OTI09-9067-04	06/24/09 16:57	0.584	0.254	0.308	0.072
ACW03	U-238	OTI09-9067-04	06/24/09 16:57	12.4	1.43	2.86	0.103
EPA 903.1	RA-226	OTI09-9067-04	06/03/09 15:05	0.414	0.293	0.318	0.455
EPA 904.0	RA-228	OTI09-9067-04	06/02/09 16:14	0.567	0.407	0.441	0.603

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905025			
Other Sample ID:	Collection Date: 5/26/2009 10:00:00 AM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9067	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9067-05B	06/26/09 13:28	22.9	3.65	7.77	2.90
ACW03	U-233/234	OTI09-9067-05	06/24/09 16:58	12.0	1.52	2.83	0.069
ACW03	U-235	OTI09-9067-05	06/24/09 16:58	0.657	0.293	0.353	0.085
ACW03	U-238	OTI09-9067-05	06/24/09 16:58	11.8	1.50	2.79	0.068
EPA 903.1	RA-226	OTI09-9067-05	06/03/09 15:05	0.615	0.322	0.371	0.484
EPA 904.0	RA-228	OTI09-9067-05	06/02/09 16:14	1.08	0.468	0.569	0.608

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905026			
Other Sample ID:	Collection Date: 5/26/2009 10:15:00 AM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9067	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9067-06B	06/26/09 13:28	8.32	2.65	3.64	3.04
ACW03	U-233/234	OTI09-9067-06	06/24/09 16:58	12.3	1.67	2.98	0.141
ACW03	U-235	OTI09-9067-06	06/24/09 16:58	0.362	0.232	0.256	0.098
ACW03	U-238	OTI09-9067-06	06/24/09 16:58	11.5	1.58	2.78	0.079
EPA 903.1	RA-226	OTI09-9067-06	06/03/09 15:05	0.328	0.251	0.270	0.393
EPA 904.0	RA-228	OTI09-9067-06	06/02/09 16:23	-0.090	0.331	0.332	0.642

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905007			
Other Sample ID:	Collection Date: 5/26/2009 11:00:00 AM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9067	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9067-07B	06/26/09 13:28	7.22	2.51	3.31	3.03
EPA 903.1	RA-226	OTI09-9067-07	06/03/09 16:12	9.61	0.734	2.98	0.346
EPA 904.0	RA-228	OTI09-9067-07	06/02/09 16:23	1.04	0.495	0.584	0.669

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB

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Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905008			
Other Sample ID:	Collection Date: 5/26/2009 11:15:00 AM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9067	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9067-08B	06/26/09 13:29	7.99	2.75	3.65	3.01
EPA 903.1	RA-226	OTI09-9067-08	06/03/09 16:12	9.98	0.752	3.09	0.401
EPA 904.0	RA-228	OTI09-9067-08	06/03/09 13:06	0.978	0.460	0.546	0.620

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905003			
Other Sample ID:	Collection Date: 5/26/2009 11:45:00 AM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9067	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9067-09B	06/26/09 13:29	3.30	1.75	2.01	2.33
EPA 903.1	RA-226	OTI09-9067-09	06/03/09 16:12	0.296	0.312	0.324	0.508
EPA 904.0	RA-228	OTI09-9067-09	06/03/09 13:06	2.31	0.598	0.915	0.609

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905004			
Other Sample ID:	Collection Date: 5/26/2009 12:00:00 PM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9067	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9067-10B	06/26/09 13:29	5.73	2.25	2.83	2.91
EPA 903.1	RA-226	OTI09-9067-10	06/03/09 16:12	0.222	0.287	0.295	0.474
EPA 904.0	RA-228	OTI09-9067-10	06/03/09 13:06	0.369	0.409	0.424	0.662

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB

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Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905009			
Other Sample ID:	Collection Date: 5/26/2009 1:45:00 PM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9067	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9067-11B	06/26/09 13:30	14.1	3.59	5.56	3.86
ACW03	U-233/234	OTI09-9067-11	06/24/09 16:58	0.000	0.000	0.090	14.3
ACW03	U-235	OTI09-9067-11	06/24/09 16:58	0.000	0.000	0.135	17.7
ACW03	U-238	OTI09-9067-11	06/24/09 16:58	0.000	0.000	0.090	33.2
EPA 903.1	RA-226	OTI09-9067-11	06/03/09 17:30	0.148	0.246	0.250	0.413
EPA 904.0	RA-228	OTI09-9067-11	06/03/09 13:06	0.116	0.316	0.318	0.556

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

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Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905010			
Other Sample ID:	Collection Date: 5/26/2009 2:00:00 PM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9067	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9067-12B	06/26/09 13:30	11.4	2.29	4.10	2.14
ACW03	U-233/234	OTI09-9067-12	06/24/09 16:58	-2.11	4.88	4.90	25.3
ACW03	U-235	OTI09-9067-12	06/24/09 16:58	-2.61	6.02	6.08	31.2
ACW03	U-238	OTI09-9067-12	06/24/09 16:58	1.05	12.2	12.2	29.8
EPA 903.1	RA-226	OTI09-9067-12	06/04/09 16:58	0.182	0.250	0.256	0.414
EPA 904.0	RA-228	OTI09-9067-12	06/03/09 13:06	0.931	0.450	0.530	0.613

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

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Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905011			
Other Sample ID:	Collection Date: 5/26/2009 2:45:00 PM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9067	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9067-13B	06/26/09 13:30	6.86	3.00	3.64	3.95
EPA 903.1	RA-226	OTI09-9067-13	06/04/09 16:58	15.4	0.852	4.69	0.469
EPA 904.0	RA-228	OTI09-9067-13	06/03/09 13:07	2.03	0.565	0.831	0.617

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905012			
Other Sample ID:	Collection Date: 5/26/2009 3:00:00 PM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9067	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9067-14B	06/26/09 13:32	7.28	3.17	3.85	4.05
EPA 903.1	RA-226	OTI09-9067-14	06/04/09 16:58	7.31	0.574	2.27	0.348
EPA 904.0	RA-228	OTI09-9067-14	06/03/09 13:07	0.710	0.418	0.469	0.596

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB

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Radioanalytical Results

Report Identification Number: S9067_9115

Project Name:	OTIE - TN&A	Chain-of-Custody Number:		Matrix:	Water
Site Sample ID:	CP-0905027				
Other Sample ID:		Collection Date:	5/26/2009 3:15:00 PM	Date Received:	5/27/2009 11:15:00
		Batch Number:	9067	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	ALPHA	OTI09-9067-15	06/21/09 08:44	0.046	0.773	0.773	1.50
EPA 900.0	BETA	OTI09-9067-15B	06/26/09 13:32	0.590	0.680	0.703	1.04
EPA 903.1	RA-226	OTI09-9067-15	06/04/09 16:58	0.063	0.256	0.257	0.441
EPA 904.0	RA-228	OTI09-9067-15	06/03/09 13:07	0.092	0.345	0.346	0.614

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha		SCAQC-9067-LD1		SCAQC-9067-PB1
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name:	OTIE - TN&A	Chain-of-Custody Number:		Matrix:	Water
Site Sample ID:	CP-0905015				
Other Sample ID:		Collection Date:	5/26/2009 8:30:00 AM	Date Received:	5/27/2009 11:15:00
		Batch Number:	9085	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9085-01	06/19/09 17:15	51.6	5.35	26.4	1.98

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCB	SCAQC-9085-LD1		SCAQC-9085-PB1

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Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905016			
Other Sample ID:	Collection Date: 5/26/2009 8:45:00 AM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9085	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9085-02	06/19/09 19:01	46.3	5.43	23.8	2.49

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCB	SCAQC-9085-LD1		SCAQC-9085-PB1

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Radioanalytical Results

Report Identification Number: S9067_9115

Project Name:	OTIE - TN&A	Chain-of-Custody Number:		Matrix:	Water
Site Sample ID:	CP-0905019				
Other Sample ID:		Collection Date:	5/26/2009 9:30:00 AM	Date Received:	5/27/2009 11:15:00
		Batch Number:	9085	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9085-03	06/19/09 17:15	20.9	3.54	11.1	1.85

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCB	SCAQC-9085-LD1		SCAQC-9085-PB1

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Radioanalytical Results

Report Identification Number: S9067_9115

Project Name:	OTIE - TN&A	Chain-of-Custody Number:		Matrix:	Water
Site Sample ID:	CP-0905020				
Other Sample ID:		Collection Date:	5/26/2009 9:45:00 AM	Date Received:	5/27/2009 11:15:00
		Batch Number:	9085	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9085-04	06/19/09 19:01	17.2	3.06	9.12	1.87

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCB	SCAQC-9085-LD1		SCAQC-9085-PB1

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Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905025			
Other Sample ID:	Collection Date: 5/26/2009 10:00:00 AM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9085	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9085-05	06/19/09 19:01	26.9	4.06	14.1	2.25

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCB	SCAQC-9085-LD1		SCAQC-9085-PB1

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Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905026			
Other Sample ID:	Collection Date: 5/26/2009 10:15:00 AM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9085	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9085-06	06/19/09 19:01	20.1	3.31	10.6	1.69

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCB	SCAQC-9085-LD1		SCAQC-9085-PB1

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905007			
Other Sample ID:	Collection Date: 5/26/2009 11:00:00 AM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9085	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9085-07	06/19/09 20:49	49.6	5.65	25.4	2.52

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCB	SCAQC-9085-LD1		SCAQC-9085-PB1

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Radioanalytical Results

Report Identification Number: S9067_9115

Project Name:	OTIE - TN&A	Chain-of-Custody Number:		Matrix:	Water
Site Sample ID:	CP-0905008				
Other Sample ID:		Collection Date:	5/26/2009 11:15:00 AM	Date Received:	5/27/2009 11:15:00
		Batch Number:	9085	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9085-08	06/19/09 20:49	42.0	4.73	21.5	1.90

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCB	SCAQC-9085-LD1		SCAQC-9085-PB1

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Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905003			
Other Sample ID:	Collection Date: 5/26/2009 11:45:00 AM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9085	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9085-09	06/19/09 20:49	2.48	1.66	2.08	2.31

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCB	SCAQC-9085-LD1		SCAQC-9085-PB1

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Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905004			
Other Sample ID:	Collection Date: 5/26/2009 12:00:00 PM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9085	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9085-10	06/19/09 20:49	6.04	1.94	3.59	1.70

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCB	SCAQC-9085-LD1		SCAQC-9085-PB1

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905009			
Other Sample ID:	Collection Date: 5/26/2009 1:45:00 PM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9085	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9085-11	07/01/09 15:07	19.7	3.51	10.5	1.82

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCB	SCAQC-9085-LD1		SCAQC-9085-PB1

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905010			
Other Sample ID:	Collection Date: 5/26/2009 2:00:00 PM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9085	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9085-12	07/01/09 15:07	20.0	3.25	10.5	1.49

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCB	SCAQC-9085-LD1		SCAQC-9085-PB1

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905011			
Other Sample ID:	Collection Date: 5/26/2009 2:45:00 PM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9085	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9085-13	07/01/09 15:07	59.8	6.06	30.5	1.68

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCB	SCAQC-9085-LD1		SCAQC-9085-PB1

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905012			
Other Sample ID:	Collection Date: 5/26/2009 3:00:00 PM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9085	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9085-14	07/01/09 16:48	49.4	5.58	25.3	1.86

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCB	SCAQC-9085-LD1		SCAQC-9085-PB1

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905009			
Other Sample ID:	Collection Date: 5/26/2009 1:45:00 PM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9115	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7500-U C(m)	U-233/234	OTI09-9115-01	06/26/09 16:46	24.6	2.56	5.55	0.057
SM 7500-U C(m)	U-235	OTI09-9115-01	06/26/09 16:46	1.34	0.391	0.560	0.124
SM 7500-U C(m)	U-238	OTI09-9115-01	06/26/09 16:46	25.4	2.63	5.71	0.057

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
U	SCAQC-9115-LC1	SCAQC-9115-LD1		SCAQC-9115-PB1

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905010			
Other Sample ID:	Collection Date: 5/26/2009 2:00:00 PM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9115	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7500-U C(m)	U-233/234	OTI09-9115-02	06/26/09 16:44	19.0	1.94	4.27	0.093
SM 7500-U C(m)	U-235	OTI09-9115-02	06/26/09 16:44	0.745	0.274	0.354	0.065
SM 7500-U C(m)	U-238	OTI09-9115-02	06/26/09 16:44	19.1	1.94	4.28	0.053

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
U	SCAQC-9115-LC1	SCAQC-9115-LD1		SCAQC-9115-PB1

Radioanalytical Results

Quality Control Sample
Laboratory Control (LC1)

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number: None		Matrix: Water
Site Sample ID: N/A			
Other Sample ID: LC1	Collection Date: 5/27/2009 11:15:00 AM	Date Received:	5/27/2009 11:15:00
		Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	SCAQC-9067-LC1B	06/26/09 15:59	14.6	1.70	4.70	1.00
ACW03	U-233/234	SCAQC-9067-LC1	06/24/09 16:56	4.80	0.694	1.18	0.050
ACW03	U-238	SCAQC-9067-LC1	06/24/09 16:56	4.82	0.696	1.19	0.028
EPA 903.1	RA-226	SCAQC-9067-LC1	06/03/09 17:30	12.1	0.754	3.72	0.371
EPA 904.0	RA-228	SCAQC-9067-LC1	06/02/09 17:28	6.89	1.00	2.30	0.704

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

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Radioanalytical Results

Quality Control Sample
Laboratory Control (LC1)

Report Identification Number: S9067_9115

Project Name:	OTIE - TN&A	Chain-of-Custody Number:	None	Matrix:	Water
Site Sample ID:	N/A				
Other Sample ID:	LC1	Collection Date:	5/27/2009 11:15:00 AM	Date Received:	5/27/2009 11:15:00
				Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	SCAQC-9085-LCB	06/10/09 09:52	14.7	3.01	7.95	1.80

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCB	SCAQC-9085-LD1		SCAQC-9085-PB1

Radioanalytical Results

Quality Control Sample
Laboratory Control (LC1)

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number: None	Matrix: Water	
Site Sample ID: N/A			
Other Sample ID: LC1	Collection Date: 5/27/2009 11:15:00 AM	Date Received:	5/27/2009 11:15:00
		Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7500-U C(m)	U-233/234	SCAQC-9115-LC1	06/26/09 16:46	3.93	0.424	0.893	0.014
SM 7500-U C(m)	U-238	SCAQC-9115-LC1	06/26/09 16:46	3.98	0.428	0.903	0.014

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
U	SCAQC-9115-LC1	SCAQC-9115-LD1		SCAQC-9115-PB1

Radioanalytical Results

Quality Control Sample Duplicate (LD1)

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A
Site Sample ID: CP-0905016
Other Sample ID: LD1
Chain-of-Custody Number:
Collection Date: 5/26/2009 8:45:00 AM
Matrix: Water
Date Received: 5/27/2009 11:15:00
Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 903.1	RA-226	SCAQC-9067-LD1	06/03/09 13:37	0.287	0.265	0.278	0.423
EPA 904.0	RA-228	SCAQC-9067-LD1	06/02/09 16:13	0.432	0.392	0.413	0.615

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
RA-226	SCAQC-9067-LD1	OTI09-9067-02
RA-228	SCAQC-9067-LD1	OTI09-9067-02

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB

Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905019			
Other Sample ID: LD1	Collection Date: 5/26/2009 9:30:00 AM	Date Received:	5/27/2009 11:15:00
		Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	SCAQC-9085-LD1	06/19/09 17:15	24.8	4.03	13.0	2.39

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
ALPHA	SCAQC-9085-LD1	OTI09-9085-03

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCB	SCAQC-9085-LD1		SCAQC-9085-PB1

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Radioanalytical Results

Quality Control Sample Duplicate (LD1)

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905027			
Other Sample ID: LD1	Collection Date: 5/26/2009 3:15:00 PM	Date Received:	5/27/2009 11:15:00
		Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	ALPHA	SCAQC-9067-LD1	06/21/09 08:43	-0.041	0.800	0.800	1.58
EPA 900.0	BETA	SCAQC-9067-LD1	06/26/09 13:32	-0.075	0.590	0.590	1.06

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
ALPHA	SCAQC-9067-LD1	OTI09-9067-15
BETA	SCAQC-9067-LD1	OTI09-9067-15B

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha		SCAQC-9067-LD1		SCAQC-9067-PB1
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B

Radioanalytical Results

Quality Control Sample Duplicate (LD1)

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A
Chain-of-Custody Number:
Matrix: Water
Site Sample ID: CP-0905015
Other Sample ID: LD1
Collection Date: 5/26/2009 8:30:00 AM
Date Received: 5/27/2009 11:15:00
Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
ACW03	U-233/234	SCAQC-9067-LD1	06/24/09 16:56	38.6	4.60	8.99	0.090
ACW03	U-235	SCAQC-9067-LD1	06/24/09 16:56	1.67	0.550	0.745	0.110
ACW03	U-238	SCAQC-9067-LD1	06/24/09 16:56	36.5	4.38	8.51	0.089

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
U-234	SCAQC-9067-LD1	OTI09-9067-01
U-235	SCAQC-9067-LD1	OTI09-9067-01
U-238	SCAQC-9067-LD1	OTI09-9067-01

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:	Matrix: Water	
Site Sample ID: CP-0905009			
Other Sample ID: LD1	Collection Date: 5/26/2009 1:45:00 PM	Date Received:	5/27/2009 11:15:00
		Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7500-U C(m)	U-233/234	SCAQC-9115-LD1	06/26/09 16:45	23.9	2.48	5.38	0.058
SM 7500-U C(m)	U-235	SCAQC-9115-LD1	06/26/09 16:45	1.36	0.396	0.568	0.072
SM 7500-U C(m)	U-238	SCAQC-9115-LD1	06/26/09 16:45	24.6	2.54	5.53	0.103

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
U-234	SCAQC-9115-LD1	OTI09-9115-01
U-235	SCAQC-9115-LD1	OTI09-9115-01
U-238	SCAQC-9115-LD1	OTI09-9115-01

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
U	SCAQC-9115-LC1	SCAQC-9115-LD1		SCAQC-9115-PB1

Radioanalytical Results

Quality Control Sample
Matrix Spike (MS1)

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number: None		Matrix: Water
Site Sample ID: CP-0905019			
Other Sample ID: MS1	Collection Date: 5/26/2009 9:30:00 AM	Date Received:	5/27/2009 11:15:00
		Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 903.1	RA-226	SCAQC-9067-MS1	06/03/09 17:30	12.7	0.788	3.90	0.376
EPA 904.0	RA-228	SCAQC-9067-MS1	06/02/09 16:13	7.15	0.908	2.33	0.597

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB

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Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number: None		Matrix: Water
Site Sample ID: N/A			
Other Sample ID: PB	Collection Date: 5/27/2009 11:15:00 AM	Date Received:	5/27/2009 11:15:00
		Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	ALPHA	SCAQC-9067-PB1	06/21/09 08:43	-0.147	0.886	0.889	1.67
EPA 900.0	BETA	SCAQC-9067-PB1B	06/25/09 16:52	-0.147	0.255	0.259	0.415
ACW03	U-233/234	SCAQC-9067-PB1	06/24/09 16:56	0.060	0.085	0.086	0.081
ACW03	U-235	SCAQC-9067-PB1	06/24/09 16:56	0.000	0.000	0.135	0.100
ACW03	U-238	SCAQC-9067-PB1	06/24/09 16:56	0.060	0.084	0.085	0.081
EPA 903.1	RA-226	SCAQC-9067-PB	06/03/09 13:37	0.118	0.266	0.269	0.451
EPA 904.0	RA-228	SCAQC-9067-PB	06/02/09 16:12	0.394	0.358	0.377	0.557

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha		SCAQC-9067-LD1		SCAQC-9067-PB1
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

GPL Laboratories Alabama, LLC

Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S9067_9115

Project Name:	OTIE - TN&A	Chain-of-Custody Number:	None	Matrix:	Water
Site Sample ID:	N/A				
Other Sample ID:	PB	Collection Date:	5/27/2009 11:15:00 AM	Date Received:	5/27/2009 11:15:00
				Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	SCAQC-9085-PB1	06/19/09 17:14	0.760	1.37	1.42	2.36

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCB	SCAQC-9085-LD1		SCAQC-9085-PB1

Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number: None	Matrix: Water	
Site Sample ID: N/A			
Other Sample ID: PB	Collection Date: 5/27/2009 11:15:00 AM	Date Received:	5/27/2009 11:15:00
		Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7500-U C(m)	U-233/234	SCAQC-9115-PB1	06/26/09 16:45	0.045	0.063	0.064	0.061
SM 7500-U C(m)	U-235	SCAQC-9115-PB1	06/26/09 16:45	0.000	0.000	0.135	0.075
SM 7500-U C(m)	U-238	SCAQC-9115-PB1	06/26/09 16:45	0.067	0.077	0.078	0.060

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
U	SCAQC-9115-LC1	SCAQC-9115-LD1		SCAQC-9115-PB1

Radioanalytical Results

Quality Control Sample Evaluation

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A
Matrix: Water
Laboratory Code: SCA

Laboratory Contol Sample (LC1) Evaluation

Method Number	Radionuclide	Laboratory Sample ID	(CV) Decay Corrected Activity of Spike Added (pCi/L)	(OV) Laboratory Control Sample Activity (pCi/L)	Laboratory Control Sample % Recovery (Accuracy)	Number of σ Between CV and OV
SM 7110C	ALPHA	SCAQC-9085-LCB	15.0 ± 0.450	14.7 ± 7.95	98.2	0.049
EPA 900.0	BETA	SCAQC-9067-LC1B	17.3 ± 0.399	14.6 ± 4.70	84.2	0.846
ACW03	U-233/234	SCAQC-9067-LC1	4.09 ± 0.025	4.80 ± 1.18	117	0.929
ACW03	U-238	SCAQC-9067-LC1	4.09 ± 0.025	4.82 ± 1.19	118	0.957
SM 7500-U C(m)	U-233/234	SCAQC-9115-LC1	4.09 ± 0.025	3.93 ± 0.893	96.0	0.275
SM 7500-U C(m)	U-238	SCAQC-9115-LC1	4.09 ± 0.025	3.98 ± 0.903	97.2	0.191
EPA 903.1	RA-226	SCAQC-9067-LC1	11.2 ± 0.134	12.1 ± 3.72	108	0.358
EPA 904.0	RA-228	SCAQC-9067-LC1	7.19 ± 0.288	6.89 ± 2.30	95.8	0.194

Matrix Spike Sample (MS1) Evaluation

Method Number	Radionuclide	Laboratory Sample ID	(CV) Decay Corrected Activity of Spike Added (pCi/L)	Matrix Spike Sample Activity (pCi/L)	(OV) Native Sample Activity (pCi/L)	Matrix Spike Sample % Recovery (Accuracy)	Number of σ Between CV and OV
EPA 903.1	RA-226	SCAQC-9067-MS1	11.2 ± 0.134	12.7 ± 3.90	1.27 ± 0.548	102	0.560
EPA 904.0	RA-228	SCAQC-9067-MS1	7.19 ± 0.288	7.15 ± 2.33	0.633 ± 0.488	90.5	0.029

Laboratory Duplicate Sample (LD1) Evaluation

Method Number	Radionuclide	Laboratory Sample ID	Original Sample Activity (pCi/L)	Duplicate Sample Activity (pCi/L)	Difference Between Original Activity and Duplicate Sample Activity (F)	Ratio of the Difference Between the Sample Activity and the Propagated Measurement at 1 σ (F/E)
SM 7110C	ALPHA	SCAQC-9085-LD1	20.9 ± 11.1	24.8 ± 13.0	3.82	0.448
EPA 900.0	ALPHA	SCAQC-9067-LD1	0.046 ± 0.773	-0.041 ± 0.800	0.087	0.157
EPA 900.0	BETA	SCAQC-9067-LD1	0.590 ± 0.703	-0.075 ± 0.590	0.665	1.45
ACW03	U-233/234	SCAQC-9067-LD1	35.4 ± 8.19	38.6 ± 8.99	3.24	0.533
ACW03	U-235	SCAQC-9067-LD1	1.59 ± 0.710	1.67 ± 0.745	0.085	0.165
ACW03	U-238	SCAQC-9067-LD1	37.6 ± 8.67	36.5 ± 8.51	1.08	0.178
SM 7500-U C(	U-233/234	SCAQC-9115-LD1	24.6 ± 5.55	23.9 ± 5.38	0.730	0.189
SM 7500-U C(	U-235	SCAQC-9115-LD1	1.34 ± 0.560	1.36 ± 0.568	0.019	0.048
SM 7500-U C(	U-238	SCAQC-9115-LD1	25.4 ± 5.71	24.6 ± 5.53	0.780	0.196
EPA 903.1	RA-226	SCAQC-9067-LD1	0.209 ± 0.286	0.287 ± 0.278	0.078	0.392
EPA 904.0	RA-228	SCAQC-9067-LD1	0.166 ± 0.362	0.432 ± 0.413	0.265	0.967

GPL Laboratories Alabama, LLC

Radioanalytical Results

Quality Control Tracer Yield

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A

Laboratory Code: SCA

Laboratory Sample ID	U-232
OTI09-9067-01	90.68
OTI09-9067-01C	90.68
OTI09-9067-02	86.38
OTI09-9067-02B	86.38
OTI09-9067-03	72.19
OTI09-9067-03B	72.19
OTI09-9067-04	75.90
OTI09-9067-04B	75.90
OTI09-9067-05	69.28
OTI09-9067-05B	69.28
OTI09-9067-06	67.75
OTI09-9067-06B	67.75
OTI09-9067-11	0.33
OTI09-9067-11B	0.33
OTI09-9067-12	0.35
OTI09-9067-12B	0.35
OTI09-9115-01	85.48
OTI09-9115-02	102.08
SCAQC-9067-LC1	72.45
SCAQC-9067-LC1	72.45
SCAQC-9067-LD1	83.04
SCAQC-9067-PB	93.12
SCAQC-9067-PB1	93.12
SCAQC-9067-PB1	93.12
SCAQC-9115-LC1	87.41
SCAQC-9115-LD1	85.58
SCAQC-9115-PB1	85.40

Radioanalytical Results

Quality Control Chemical Recovery

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A

Laboratory Code: SCA

Laboratory Sample ID	Ra-228
OTI09-9067-01	129.51
OTI09-9067-01C	129.51
OTI09-9067-02	129.51
OTI09-9067-02B	129.51
OTI09-9067-03	129.51
OTI09-9067-03B	129.51
OTI09-9067-04	129.51
OTI09-9067-04B	129.51
OTI09-9067-05	129.51
OTI09-9067-05B	129.51
OTI09-9067-06	129.51
OTI09-9067-06B	129.51
OTI09-9067-07	129.51
OTI09-9067-07B	129.51
OTI09-9067-08	129.51
OTI09-9067-08B	129.51
OTI09-9067-09	129.51
OTI09-9067-09B	129.51
OTI09-9067-10	129.51
OTI09-9067-10B	129.51
OTI09-9067-11	129.51
OTI09-9067-11B	129.51
OTI09-9067-12	129.51
OTI09-9067-12B	129.51
OTI09-9067-13	129.51
OTI09-9067-13B	129.51
OTI09-9067-14	129.51
OTI09-9067-14B	129.51
OTI09-9067-15	129.51
OTI09-9067-15B	129.51
SCAQC-9067-LC1	129.51
SCAQC-9067-LC1	129.51

Radioanalytical Results

Quality Control Chemical Recovery

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A

Laboratory Code: SCA

Laboratory Sample ID	Ra-228
SCAQC-9067-LD1	129.51
SCAQC-9067-MS1	129.51
SCAQC-9067-PB	129.51
SCAQC-9067-PB1	129.51
SCAQC-9067-PB1	129.51

GPL
LABORATORIES

July 1, 2009

Ms. Ewelina Mutkowska
OTIE- TN&A
317 E. Main St
Ventura, CA 93001

Dear Ms. Mutkowska:

On May 28, 2009, 13 water samples were received for analysis at the GPL Laboratories Alabama, LLC. The samples were assigned Laboratory Report Identification Code 9068_9089. Enclosed is the Sample Data Package containing the radioanalytical results of the sample.

If you have any questions please do not hesitate to call.

Sincerely,

Richard Turner
Laboratory Director

1000 Monticello Court ✦ Montgomery, Alabama ✦6117 ✦334.272.2234 ✦Fax 334.213.0407

COVER PAGE

GPL Laboratories Alabama, LLC
1000 Monticello Court
Montgomery, Alabama 36117

NELAC Certification ID: NLC080001 (AL001)

Laboratory Report Identification Code: 9068

Sample Matrix: Water

Site Sample Number	Laboratory Sample Number
CP-0905005	OTI09-9068-01 OTI09-9089-01
CP-0905006	OTI09-9068-02 OTI09-9089-02
CP-0905001	OTI09-9068-03 OTI09-9089-03
CP-0905002	OTI09-9068-04 OTI09-9089-04
CP-0905023	OTI09-9068-05 OTI09-9089-05
CP-0905024	OTI09-9068-06 OTI09-9089-06
CP-0905013	OTI09-9068-07 OTI09-9089-07
CP-0905014	OTI09-9068-08 OTI09-9089-08
CP-0905017	OTI09-9068-09 OTI09-9089-09
CP-0905018	OTI09-9068-10 OTI09-9089-10
CP-0905021	OTI09-9068-11 OTI09-9089-11
CP-0905022	OTI09-9068-12 OTI09-9089-12
CP-0905028	OTI09-9068-13 OTI09-9089-13

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GPL Laboratories Alabama, LLC
1000 Monticello Court
Montgomery, Alabama 36117

NELAC Certification ID: NLC080001 (AL001)

Laboratory Report Identification Code: 9068_9089

Comments: There were no problems encountered during sample receiving.

"I certify that this sample data package is in compliance with contract requirements, both technically and for completeness. Release of the data contained in this hard-copy sample data package has been authorized by the Laboratory Director or the Laboratory Director designee, as verified by the following signature."



Signature

Richard Turner	Laboratory Director	07/01/2009
Name	Title	Date

CASE NARRATIVE

Laboratory Report Identification Number: 9068_9089

NELAC Certification ID: NLC080001 (AL001)

July 1, 2009

I. Introduction

On May 28, 2009, 13 water samples were received for analysis at the GPL Laboratories Alabama, LLC located in Montgomery, Alabama. The samples were analyzed in accordance with the GPL Laboratory Quality Assurance Plan.

The data in this report meets all NELAC requirements unless otherwise stated.

II. Analytical Methodology

The radioanalytical results reported for the sample include the site and laboratory sample identification numbers, collection date, method of analysis, and the quality control samples that were analyzed concurrently. The samples were analyzed by the following methods.

Radionuclide	Method Number	Method Name	Counting Method
Co-Precipitation	SM711C	Gross Alpha Radioactivity	Gas Proportional Counting
Gross Alpha (U)	EPA 900.0	Gross Alpha Radioactivity	Gas Proportional Counting
Gross Beta	EPA 900.0	Gross Beta Radioactivity	Gas Proportional Counting
Ra-226	EPA 903.1	Radium-226 Radon Emanation Technique	Radon Flask/Scaler
Ra-228	EPA 904.0	Radium-228	Gas Proportional Counting
Uranium	ACW03	Eichrom Industries Extraction Chromatography	Alpha Spectrometry

III. Analytical Results

Deficiencies

See *"Re-analysis"* section.

Matrix Interferences

There were no indications of matrix interference.

Detection Limits

The required detection limits (RDLs) were met for all sample analyses.

Re-analysis

Upon further review of the package, the gross alpha detection limits were not met for some of the samples. Those samples were recounted at longer times to achieve detection limits.

Deviations from Protocols

There were no deviations from the written protocols and analytical methods.

Contacts with the Technical Representative

There was no contact with the Technical Representative regarding these samples.

IV. Quality Control

The analytical results of all quality control samples met the acceptance criteria specified in the GPL Laboratory Quality Assurance Plan.

Radioanalytical Results

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905005			
Other Sample ID:	Collection Date: 5/27/2009 11:45:00 AM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9068	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9068-01B	06/24/09 18:19	21.6	1.52	6.67	1.37
ACW03	U-233/234	OTI09-9068-01	06/24/09 16:59	29.2	2.77	6.46	0.110
ACW03	U-235	OTI09-9068-01	06/24/09 16:59	1.23	0.362	0.517	0.136
ACW03	U-238	OTI09-9068-01	06/24/09 16:59	28.0	2.68	6.20	0.053
EPA 903.1	RA-226	OTI09-9068-01	06/09/09 18:35	2.04	0.383	0.722	0.420
EPA 904.0	RA-228	OTI09-9068-01	06/03/09 17:40	0.547	0.378	0.412	0.562

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9068-LCB	SCAQC-9068-LD1		SCAQC-9068-PB1
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905006			
Other Sample ID:	Collection Date: 5/27/2009 12:00:00 PM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9068	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9068-02B	06/24/09 18:19	12.2	1.61	4.00	1.92
ACW03	U-233/234	OTI09-9068-02	06/24/09 17:00	30.1	3.05	6.74	0.062
ACW03	U-235	OTI09-9068-02	06/24/09 17:00	1.24	0.387	0.536	0.076
ACW03	U-238	OTI09-9068-02	06/24/09 17:00	28.9	2.94	6.49	0.061
EPA 903.1	RA-226	OTI09-9068-02	06/09/09 18:35	4.44	0.504	1.42	0.431
EPA 904.0	RA-228	OTI09-9068-02	06/03/09 17:41	0.293	0.345	0.356	0.561

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9068-LCB	SCAQC-9068-LD1		SCAQC-9068-PB1
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905001			
Other Sample ID:	Collection Date: 5/27/2009 8:00:00 AM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9068	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9068-03B	06/24/09 18:20	6.33	0.899	2.10	1.15
EPA 903.1	RA-226	OTI09-9068-03	06/09/09 20:07	4.88	0.524	1.56	0.446
EPA 904.0	RA-228	OTI09-9068-03	06/03/09 17:40	2.20	0.547	0.857	0.566

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9068-LCB	SCAQC-9068-LD1		SCAQC-9068-PB1
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905002			
Other Sample ID:	Collection Date: 5/27/2009 8:15:00 AM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9068	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9068-04B	06/24/09 18:20	6.52	0.858	2.14	1.06
EPA 903.1	RA-226	OTI09-9068-04	06/09/09 20:07	5.51	0.550	1.74	0.380
EPA 904.0	RA-228	OTI09-9068-04	06/04/09 13:25	4.46	0.738	1.53	0.599

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9068-LCB	SCAQC-9068-LD1		SCAQC-9068-PB1
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905023			
Other Sample ID:	Collection Date: 5/27/2009 8:30:00 AM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9068	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9068-05B	06/24/09 18:21	5.93	0.869	1.98	1.13
EPA 903.1	RA-226	OTI09-9068-05	06/10/09 13:46	5.55	0.550	1.75	0.424
EPA 904.0	RA-228	OTI09-9068-05	06/04/09 13:25	4.86	0.782	1.66	0.589

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9068-LCB	SCAQC-9068-LD1		SCAQC-9068-PB1
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905024			
Other Sample ID:	Collection Date: 5/27/2009 8:45:00 AM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9068	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9068-06B	06/23/09 18:18	5.03	0.787	1.70	1.04
EPA 903.1	RA-226	OTI09-9068-06	06/10/09 13:46	6.29	0.592	1.98	0.426
EPA 904.0	RA-228	OTI09-9068-06	06/04/09 13:25	4.07	0.722	1.42	0.639

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9068-LCB	SCAQC-9068-LD1		SCAQC-9068-PB1
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905013			
Other Sample ID:	Collection Date: 5/27/2009 11:00:00 AM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9068	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9068-07B	06/23/09 18:18	26.5	1.74	8.12	1.54
ACW03	U-233/234	OTI09-9068-07	06/24/09 17:00	28.8	2.83	6.42	0.057
ACW03	U-235	OTI09-9068-07	06/24/09 17:00	1.14	0.355	0.492	0.070
ACW03	U-238	OTI09-9068-07	06/24/09 17:00	25.5	2.55	5.70	0.118
EPA 903.1	RA-226	OTI09-9068-07	06/10/09 13:46	1.30	0.353	0.525	0.471
EPA 904.0	RA-228	OTI09-9068-07	06/04/09 13:26	1.60	0.489	0.685	0.538

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9068-LCB	SCAQC-9068-LD1		SCAQC-9068-PB1
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905014			
Other Sample ID:	Collection Date: 5/27/2009 11:15:00 AM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9068	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9068-08B	06/24/09 18:21	19.2	1.42	5.94	1.38
ACW03	U-233/234	OTI09-9068-08	06/24/09 17:00	29.9	2.78	6.59	0.054
ACW03	U-235	OTI09-9068-08	06/24/09 17:00	1.22	0.357	0.511	0.066
ACW03	U-238	OTI09-9068-08	06/24/09 17:00	27.1	2.56	5.99	0.053
EPA 903.1	RA-226	OTI09-9068-08	06/10/09 13:46	0.775	0.304	0.383	0.435
EPA 904.0	RA-228	OTI09-9068-08	06/04/09 13:26	2.14	0.556	0.849	0.593

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9068-LCB	SCAQC-9068-LD1		SCAQC-9068-PB1
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905017			
Other Sample ID:	Collection Date: 5/27/2009 9:30:00 AM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9068	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9068-09B	06/23/09 18:19	0.375	0.635	0.645	1.03
ACW03	U-233/234	OTI09-9068-09	06/24/09 17:00	20.5	2.22	4.67	0.062
ACW03	U-235	OTI09-9068-09	06/24/09 17:00	0.852	0.319	0.409	0.077
ACW03	U-238	OTI09-9068-09	06/24/09 17:00	17.8	1.98	4.07	0.062
EPA 903.1	RA-226	OTI09-9068-09	06/10/09 14:53	2.14	0.358	0.736	0.306
EPA 904.0	RA-228	OTI09-9068-09	06/04/09 13:27	2.51	0.594	0.960	0.597

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9068-LCB	SCAQC-9068-LD1		SCAQC-9068-PB1
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905018			
Other Sample ID:	Collection Date: 5/27/2009 9:45:00 AM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9068	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9068-10B	06/24/09 18:21	7.83	0.807	2.48	0.858
ACW03	U-233/234	OTI09-9068-10	06/24/09 17:00	12.7	1.48	2.93	0.058
ACW03	U-235	OTI09-9068-10	06/24/09 17:00	0.398	0.208	0.240	0.072
ACW03	U-238	OTI09-9068-10	06/24/09 17:00	11.7	1.39	2.72	0.058
EPA 903.1	RA-226	OTI09-9068-10	06/10/09 14:53	0.440	0.304	0.331	0.472
EPA 904.0	RA-228	OTI09-9068-10	06/04/09 13:27	1.64	0.506	0.706	0.577

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9068-LCB	SCAQC-9068-LD1		SCAQC-9068-PB1
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905021			
Other Sample ID:	Collection Date: 5/27/2009 12:30:00 PM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9068	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9068-11B	06/23/09 18:19	52.8	2.35	16.0	1.46
ACW03	U-233/234	OTI09-9068-11	06/24/09 17:01	23.5	2.45	5.30	0.061
ACW03	U-235	OTI09-9068-11	06/24/09 17:01	0.996	0.342	0.454	0.075
ACW03	U-238	OTI09-9068-11	06/24/09 17:01	24.1	2.51	5.44	0.060
EPA 903.1	RA-226	OTI09-9068-11	06/10/09 14:53	1.00	0.330	0.446	0.451
EPA 904.0	RA-228	OTI09-9068-11	06/04/09 13:27	2.51	0.592	0.957	0.595

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9068-LCB	SCAQC-9068-LD1		SCAQC-9068-PB1
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905022			
Other Sample ID:	Collection Date: 5/27/2009 12:45:00 PM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9068	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9068-12B	06/25/09 16:58	26.7	1.59	8.18	1.38
ACW03	U-233/234	OTI09-9068-12	06/24/09 17:01	18.2	1.94	4.13	0.055
ACW03	U-235	OTI09-9068-12	06/24/09 17:01	0.656	0.263	0.328	0.068
ACW03	U-238	OTI09-9068-12	06/24/09 17:01	18.7	1.98	4.23	0.098
EPA 903.1	RA-226	OTI09-9068-12	06/10/09 14:53	0.662	0.274	0.338	0.384
EPA 904.0	RA-228	OTI09-9068-12	06/04/09 14:00	1.37	0.522	0.664	0.648

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9068-LCB	SCAQC-9068-LD1		SCAQC-9068-PB1
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905028			
Other Sample ID:	Collection Date: 5/27/2009 1:15:00 PM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9068	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	ALPHA	OTI09-9068-13	06/22/09 17:39	-0.469	0.688	0.727	1.15
EPA 900.0	BETA	OTI09-9068-13	06/15/09 15:50	1.25	0.764	0.851	1.10
EPA 903.1	RA-226	OTI09-9068-13	06/10/09 15:50	1.83	0.371	0.662	0.431
EPA 904.0	RA-228	OTI09-9068-13	06/04/09 14:01	1.09	0.511	0.607	0.686

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha		SCAQC-9068-LD1		SCAQC-9068-PB1
Beta	SCAQC-9068-LCB	SCAQC-9068-LD1		SCAQC-9068-PB1
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A
Chain-of-Custody Number:
Matrix: Water
Site Sample ID: CP-0905015
Other Sample ID:
Collection Date: 5/26/2009 8:30:00 AM
Date Received: 5/28/2009 8:45:00
Batch Number: 9068
Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
ACW03	U-233/234	OTI09-9067-01	06/24/09 16:57	35.4	4.12	8.19	0.087
ACW03	U-235	OTI09-9067-01	06/24/09 16:57	1.59	0.526	0.710	0.108
ACW03	U-238	OTI09-9067-01	06/24/09 16:57	37.6	4.33	8.67	0.153

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905005			
Other Sample ID:	Collection Date: 5/27/2009 11:45:00 AM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9089	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9089-01	06/20/09 11:11	32.1	4.31	16.6	2.15

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9089-LCB	SCAQC-9089-LD1		SCAQC-9089-PB

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905006			
Other Sample ID:	Collection Date: 5/27/2009 12:00:00 PM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9089	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9089-02	06/20/09 11:11	30.1	4.04	15.6	1.70

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9089-LCB	SCAQC-9089-LD1		SCAQC-9089-PB

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905001			
Other Sample ID:	Collection Date: 5/27/2009 8:00:00 AM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9089	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9089-03	07/01/09 16:49	35.0	4.34	18.0	1.53

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9089-LCB	SCAQC-9089-LD1		SCAQC-9089-PB

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905002			
Other Sample ID:	Collection Date: 5/27/2009 8:15:00 AM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9089	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9089-04	07/01/09 16:49	34.9	4.34	18.0	1.48

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9089-LCB	SCAQC-9089-LD1		SCAQC-9089-PB

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905023			
Other Sample ID:	Collection Date: 5/27/2009 8:30:00 AM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9089	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9089-05	07/01/09 21:20	26.3	4.04	13.8	1.81

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9089-LCB	SCAQC-9089-LD1		SCAQC-9089-PB

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905024			
Other Sample ID:	Collection Date: 5/27/2009 8:45:00 AM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9089	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9089-06	07/01/09 19:37	32.7	4.52	17.0	1.84

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9089-LCB	SCAQC-9089-LD1		SCAQC-9089-PB

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905013			
Other Sample ID:	Collection Date: 5/27/2009 11:00:00 AM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9089	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9089-07	06/20/09 15:08	30.1	4.73	15.8	2.83

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9089-LCB	SCAQC-9089-LD1		SCAQC-9089-PB

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Radioanalytical Results

Report Identification Number: S9068_9089

Project Name:	OTIE - TN&A	Chain-of-Custody Number:		Matrix:	Water
Site Sample ID:	CP-0905014				
Other Sample ID:		Collection Date:	5/27/2009 11:15:00 AM	Date Received:	5/28/2009 8:45:00
		Batch Number:	9089	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9089-08	06/20/09 15:08	39.3	4.58	20.2	1.90

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9089-LCB	SCAQC-9089-LD1		SCAQC-9089-PB

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905017			
Other Sample ID:	Collection Date: 5/27/2009 9:30:00 AM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9089	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9089-09	06/20/09 15:09	16.9	3.20	9.05	2.14

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9089-LCB	SCAQC-9089-LD1		SCAQC-9089-PB

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Radioanalytical Results

Report Identification Number: S9068_9089

Project Name:	OTIE - TN&A	Chain-of-Custody Number:		Matrix:	Water
Site Sample ID:	CP-0905018				
Other Sample ID:		Collection Date:	5/27/2009 9:45:00 AM	Date Received:	5/28/2009 8:45:00
		Batch Number:	9089	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9089-10	06/20/09 15:09	13.2	2.70	7.14	1.66

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9089-LCB	SCAQC-9089-LD1		SCAQC-9089-PB

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Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905021			
Other Sample ID:	Collection Date: 5/27/2009 12:30:00 PM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9089	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9089-11	07/01/09 19:38	28.3	4.01	14.7	1.62

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9089-LCB	SCAQC-9089-LD1		SCAQC-9089-PB

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Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905022			
Other Sample ID:	Collection Date: 5/27/2009 12:45:00 PM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9089	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9089-12	07/01/09 19:38	45.0	4.88	23.0	1.45

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9089-LCB	SCAQC-9089-LD1		SCAQC-9089-PB

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Radioanalytical Results

Quality Control Sample
Laboratory Control (LC1)

Report Identification Number: S9068_9089

Project Name:	OTIE - TN&A	Chain-of-Custody Number:	None	Matrix:	Water
Site Sample ID:	N/A				
Other Sample ID:	LC1	Collection Date:	5/28/2009 8:45:00 AM	Date Received:	5/28/2009 8:45:00
				Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	SCAQC-9068-LCB	07/01/09 10:50	18.2	1.91	5.78	0.985
EPA 903.1	RA-226	SCAQC-9068-LC1	06/09/09 20:07	11.2	0.727	3.43	0.431
EPA 904.0	RA-228	SCAQC-9068-LC1	06/03/09 17:38	7.85	0.930	2.53	0.554

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9068-LCB	SCAQC-9068-LD1		SCAQC-9068-PB1
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB

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Radioanalytical Results

Quality Control Sample
Laboratory Control (LC1)

Report Identification Number: S9068_9089

Project Name:	OTIE - TN&A	Chain-of-Custody Number:	None	Matrix:	Water
Site Sample ID:	N/A				
Other Sample ID:	LC1	Collection Date:	5/28/2009 8:45:00 AM	Date Received:	5/28/2009 8:45:00
				Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	SCAQC-9089-LCB	06/11/09 21:57	17.2	3.13	9.16	1.38

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9089-LCB	SCAQC-9089-LD1		SCAQC-9089-PB

GPL Laboratories Alabama, LLC

Radioanalytical Results

Quality Control Sample
Laboratory Control (LC1)

Report Identification Number: S9068_9089

Project Name:	OTIE - TN&A	Chain-of-Custody Number:	None	Matrix:	Water
Site Sample ID:	N/A				
Other Sample ID:	LC1	Collection Date:	5/27/2009 11:15:00 AM	Date Received:	5/28/2009 8:45:00
				Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
ACW03	U-233/234	SCAQC-9067-LC1	06/24/09 16:56	4.80	0.694	1.18	0.050
ACW03	U-238	SCAQC-9067-LC1	06/24/09 16:56	4.82	0.696	1.19	0.028

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

GPL Laboratories Alabama, LLC

Radioanalytical Results

Quality Control Sample Duplicate (LD1)

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905005			
Other Sample ID: LD1	Collection Date: 5/27/2009 11:45:00 AM	Date Received:	5/28/2009 8:45:00
		Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 903.1	RA-226	SCAQC-9068-LD1	06/09/09 18:35	2.37	0.394	0.814	0.414
EPA 904.0	RA-228	SCAQC-9068-LD1	06/03/09 17:44	0.718	0.398	0.453	0.563

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
RA-226	SCAQC-9068-LD1	OTI09-9068-01
RA-228	SCAQC-9068-LD1	OTI09-9068-01

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB

GPL Laboratories Alabama, LLC

Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905028			
Other Sample ID: LD1	Collection Date: 5/27/2009 1:15:00 PM	Date Received:	5/28/2009 8:45:00
		Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	ALPHA	SCAQC-9068-LD1	06/22/09 17:20	-0.046	0.508	0.508	1.06
EPA 900.0	BETA	SCAQC-9068-LD1	06/15/09 15:49	0.127	0.616	0.617	1.09
EPA 900.0	BETA	SCAQC-9068-LD1	06/22/09 17:20	0.000	0.000	0.135	0.000

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
ALPHA	SCAQC-9068-LD1	OTI09-9068-13
BETA	SCAQC-9068-LD1	OTI09-9068-13

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha		SCAQC-9068-LD1		SCAQC-9068-PB1
Beta	SCAQC-9068-LCB	SCAQC-9068-LD1		SCAQC-9068-PB1

GPL Laboratories Alabama, LLC

Radioanalytical Results

Quality Control Sample Duplicate (LD1)

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905005			
Other Sample ID: LD1	Collection Date: 5/27/2009 11:45:00 AM	Date Received:	5/28/2009 8:45:00
		Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	SCAQC-9089-LD1	06/20/09 11:11	30.8	4.10	16.0	1.93

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
ALPHA	SCAQC-9089-LD1	OTI09-9089-01

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9089-LCB	SCAQC-9089-LD1		SCAQC-9089-PB

GPL Laboratories Alabama, LLC

Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S9068_9089

Project Name:	OTIE - TN&A	Chain-of-Custody Number:		Matrix:	Water
Site Sample ID:	CP-0905015				
Other Sample ID:	LD1	Collection Date:	5/26/2009 8:30:00 AM	Date Received:	5/28/2009 8:45:00
				Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
ACW03	U-233/234	SCAQC-9067-LD1	06/24/09 16:56	38.6	4.60	8.99	0.090
ACW03	U-235	SCAQC-9067-LD1	06/24/09 16:56	1.67	0.550	0.745	0.110
ACW03	U-238	SCAQC-9067-LD1	06/24/09 16:56	36.5	4.38	8.51	0.089

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
U-234	SCAQC-9067-LD1	OTI09-9067-01
U-235	SCAQC-9067-LD1	OTI09-9067-01
U-238	SCAQC-9067-LD1	OTI09-9067-01

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

GPL Laboratories Alabama, LLC

Radioanalytical Results

Quality Control Sample
Matrix Spike (MS1)

Report Identification Number: S9068_9089

Project Name:	OTIE - TN&A	Chain-of-Custody Number:	None	Matrix:	Water
Site Sample ID:	CP-0905006				
Other Sample ID:	MS1	Collection Date:	5/27/2009 12:00:00 PM	Date Received:	5/28/2009 8:45:00
				Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 903.1	RA-226	SCAQC-9068-MS1	06/09/09 20:07	12.5	0.804	3.84	0.442
EPA 904.0	RA-228	SCAQC-9068-MS1	06/03/09 17:39	5.64	0.776	1.86	0.542

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB

GPL Laboratories Alabama, LLC

Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S9068_9089

Project Name:	OTIE - TN&A	Chain-of-Custody Number:	None	Matrix:	Water
Site Sample ID:	N/A				
Other Sample ID:	PB	Collection Date:	5/28/2009 8:45:00 AM	Date Received:	5/28/2009 8:45:00
				Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	ALPHA	SCAQC-9068-PBB	06/30/09 11:07	-0.065	0.669	0.670	1.41
EPA 900.0	ALPHA	SCAQC-9068-PB1	06/22/09 17:20	0.196	0.706	0.713	1.33
EPA 900.0	ALPHA	SCAQC-9068-PB1	06/15/09 15:49	-0.190	0.550	0.559	1.04
EPA 900.0	BETA	SCAQC-9068-PBB	06/30/09 11:07	-0.077	0.578	0.578	1.04
EPA 900.0	BETA	SCAQC-9068-PB1	06/22/09 17:20	0.000	0.000	0.135	0.000
EPA 900.0	BETA	SCAQC-9068-PB1	06/15/09 15:49	-0.175	0.608	0.610	1.06
EPA 903.1	RA-226	SCAQC-9068-PB	06/09/09 18:35	0.103	0.250	0.252	0.425
EPA 904.0	RA-228	SCAQC-9068-PB	06/03/09 17:43	0.407	0.334	0.356	0.510

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha		SCAQC-9068-LD1		SCAQC-9068-PB1
Beta	SCAQC-9068-LCB	SCAQC-9068-LD1		SCAQC-9068-PB1
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB

GPL Laboratories Alabama, LLC

Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S9068_9089

Project Name:	OTIE - TN&A	Chain-of-Custody Number:	None	Matrix:	Water
Site Sample ID:	N/A				
Other Sample ID:	PB	Collection Date:	5/28/2009 8:45:00 AM	Date Received:	5/28/2009 8:45:00
				Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	SCAQC-9089-PB	06/20/09 11:11	0.068	1.21	1.21	2.33

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9089-LCB	SCAQC-9089-LD1		SCAQC-9089-PB

Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A
Chain-of-Custody Number: None
Matrix: Water
Site Sample ID: N/A
Collection Date: 5/27/2009 11:15:00 AM
Date Received: 5/28/2009 8:45:00
Other Sample ID: PB
Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
ACW03	U-233/234	SCAQC-9067-PB1	06/24/09 16:56	0.060	0.085	0.086	0.081
ACW03	U-235	SCAQC-9067-PB1	06/24/09 16:56	0.000	0.000	0.135	0.100
ACW03	U-238	SCAQC-9067-PB1	06/24/09 16:56	0.060	0.084	0.085	0.081

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

Radioanalytical Results

Quality Control Sample Evaluation

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A
Matrix: Water
Laboratory Code: SCA

Laboratory Contol Sample (LC1) Evaluation

Method Number	Radionuclide	Laboratory Sample ID	(CV) Decay Corrected Activity of Spike Added (pCi/L)	(OV) Laboratory Control Sample Activity (pCi/L)	Laboratory Control Sample % Recovery (Accuracy)	Number of σ Between CV and OV
SM 7110C	ALPHA	SCAQC-9089-LCB	15.0 ± 0.450	17.2 ± 9.16	115	0.353
EPA 900.0	BETA	SCAQC-9068-LCB	17.3 ± 0.399	18.2 ± 5.78	105	0.209
ACW03	U-233/234	SCAQC-9067-LC1	4.09 ± 0.025	4.80 ± 1.18	117	0.929
ACW03	U-238	SCAQC-9067-LC1	4.09 ± 0.025	4.82 ± 1.19	118	0.957
EPA 903.1	RA-226	SCAQC-9068-LC1	11.2 ± 0.134	11.2 ± 3.43	99.7	0.012
EPA 904.0	RA-228	SCAQC-9068-LC1	7.19 ± 0.288	7.85 ± 2.53	109	0.375

Matrix Spike Sample (MS1) Evaluation

Method Number	Radionuclide	Laboratory Sample ID	(CV) Decay Corrected Activity of Spike Added (pCi/L)	Matrix Spike Sample Activity (pCi/L)	(OV) Native Sample Activity (pCi/L)	Matrix Spike Sample % Recovery (Accuracy)	Number of σ Between CV and OV
EPA 903.1	RA-226	SCAQC-9068-MS1	11.2 ± 0.134	12.5 ± 3.84	4.44 ± 1.42	72.1	0.489
EPA 904.0	RA-228	SCAQC-9068-MS1	7.19 ± 0.288	5.64 ± 1.86	0.293 ± 0.356	74.4	1.20

Laboratory Duplicate Sample (LD1) Evaluation

Method Number	Radionuclide	Laboratory Sample ID	Original Sample Activity (pCi/L)	Duplicate Sample Activity (pCi/L)	Difference Between Original Activity and Duplicate Sample Activity (F)	Ratio of the Difference Between the Sample Activity and the Propagated Measurement at 1 σ (F/E)
SM 7110C	ALPHA	SCAQC-9089-LD1	32.1 ± 16.6	30.8 ± 16.0	1.25	0.108
EPA 900.0	ALPHA	SCAQC-9068-LD1	-0.469 ± 0.727	-0.046 ± 0.508	0.423	0.953
EPA 900.0	ALPHA	SCAQC-9068-LD1	-0.469 ± 0.727	-0.505 ± 0.733	0.036	0.070
EPA 900.0	BETA	SCAQC-9068-LD1	1.25 ± 0.851	0.127 ± 0.617	1.12	2.13
EPA 900.0	BETA	SCAQC-9068-LD1	1.25 ± 0.851	0.000 ± 0.135	1.25	2.90
ACW03	U-233/234	SCAQC-9067-LD1	35.4 ± 8.19	38.6 ± 8.99	3.24	0.533
ACW03	U-235	SCAQC-9067-LD1	1.59 ± 0.710	1.67 ± 0.745	0.085	0.165
ACW03	U-238	SCAQC-9067-LD1	37.6 ± 8.67	36.5 ± 8.51	1.08	0.178
EPA 903.1	RA-226	SCAQC-9068-LD1	2.04 ± 0.722	2.37 ± 0.814	0.334	0.614
EPA 904.0	RA-228	SCAQC-9068-LD1	0.547 ± 0.412	0.718 ± 0.453	0.170	0.556

Radioanalytical Results

Quality Control Tracer Yield

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A

Laboratory Code: SCA

Laboratory Sample ID	U-232
OTI09-9067-01	90.68
OTI09-9068-01	92.06
OTI09-9068-01B	92.06
OTI09-9068-02	82.67
OTI09-9068-02B	82.67
OTI09-9068-07	88.97
OTI09-9068-07B	88.97
OTI09-9068-08	84.64
OTI09-9068-08B	84.64
OTI09-9068-09	80.32
OTI09-9068-09B	80.32
OTI09-9068-10	87.26
OTI09-9068-10B	87.26
OTI09-9068-11	89.92
OTI09-9068-11B	89.92
OTI09-9068-12	90.18
OTI09-9068-12B	90.18
SCAQC-9067-LC1	72.45
SCAQC-9067-LD1	83.04
SCAQC-9067-PB1	93.12

GPL Laboratories Alabama, LLC

Radioanalytical Results

Quality Control Chemical Recovery

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A

Laboratory Code: SCA

Laboratory Sample ID	Ra-228
OTI09-9068-01	137.64
OTI09-9068-01B	137.64
OTI09-9068-02	137.64
OTI09-9068-02B	137.64
OTI09-9068-03	137.64
OTI09-9068-03B	137.64
OTI09-9068-04	137.64
OTI09-9068-04B	137.64
OTI09-9068-05	137.64
OTI09-9068-05B	137.64
OTI09-9068-06	137.64
OTI09-9068-06B	137.64
OTI09-9068-07	137.64
OTI09-9068-07B	137.64
OTI09-9068-08	137.64
OTI09-9068-08B	137.64
OTI09-9068-09	137.64
OTI09-9068-09B	137.64
OTI09-9068-10	137.64
OTI09-9068-10B	137.64
OTI09-9068-11	137.64
OTI09-9068-11B	137.64
OTI09-9068-12	137.64
OTI09-9068-12B	137.64
OTI09-9068-13	137.64
SCAQC-9068-LC1	137.64
SCAQC-9068-LCB	137.64
SCAQC-9068-LD1	137.64
SCAQC-9068-MS1	137.64
SCAQC-9068-PB	137.64
SCAQC-9068-PB1	137.64
SCAQC-9068-PBB	137.64

Appendix D

Data Validation Report

California Regional Water Quality Control Board

Los Angeles Region

Linda S. Adams
Cal/EPA Secretary

320 W. 4th Street, Suite 200, Los Angeles, California 90013
Phone (213) 576-6600 FAX (213) 576-6640 - Internet Address: http://www.waterboards.ca.gov/losangeles

Arnold Schwarzenegger
Governor

October 30, 2009

Mr. Daniel S. Samorano
Raytheon Company
1151 East Hermans Road
TU, Bldg 826
Tucson, AZ 85706

NO FURTHER ACTION FOR RADIOACTIVITY ANALYSES IN GROUNDWATER PURSUANT TO CALIFORNIA WATER CODE SECTION 13267 ORDER – RAYTHEON COMPANY (FORMER HUGHES MISSILE SYSTEMS COMPANY), 8433 FALLBROOK AVENUE, CANOGA PARK, CALIFORNIA 91304
(SCP NO. 0693, SITE ID NO. 2043T00)

Dear Mr. Samorano:

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) is the State regulatory agency responsible for protecting water quality in Los Angeles and Ventura Counties. To accomplish this, the Regional Board issues investigative orders authorized by the Porter-Cologne Water Quality Control Act (California Water Code [CWC], Division 7).

At the request of the Regional Board, Raytheon's predecessor, Hughes Missile Systems, Inc., conducted eight groundwater sampling events between March 1990 and December 1991 to determine radioactivity levels in groundwater at the site. The results were submitted to the Regional Board in 1992 and indicated that a subset of the well samples had radiological parameters exceeding California Maximum Contaminant Levels (MCLs), but that the concentrations were naturally occurring based on the relative abundances of the individual uranium isotopes.

In response to public concerns regarding radioactivity sampling results from the on-site groundwater monitoring wells, the Regional Board issued a CWC section 13267 Order on March 5, 2008, requiring submittal of a work plan for a site-wide groundwater investigation to verify current radioactivity conditions. The revised work plan was reviewed and conditionally approved by the Regional Board on January 29, 2009. Subsequently, Regional Board staff have received and reviewed the *Groundwater Investigation Report to Verify Current Radioactivity Conditions* (Report), dated August 2009, prepared by Oneida Total Integrated Enterprises (OTIE) on behalf of Raytheon Company for the referenced site.

The Report presents the results of the groundwater sampling from 11 site wells for radioactivity analyses in May 2009. Gross alpha particle activity, uranium, combined radium - 226+228, and gross beta particle activity were detected up to 61.12 pCi/L, 126.5 pCi/L, 18.62 pCi/L, and 54.77 pCi/L, respectively, which exceeded their California MCLs of 15 pCi/L, 20 pCi/L, 5 pCi/L, and 50pCi/L, respectively.

The data produced during 2009 groundwater investigation are consistent with previous results collected in 1990 and 1991. This current investigation and the 1990/1991 investigation work have demonstrated that the levels of radiological isotopes detected in groundwater at the former Raytheon facility are attributable to naturally occurring sources in the underlying aquifer matrix and geochemical system. OTIE recommends no further action for radioactivity analyses in groundwater at the site.

Based on review of the submitted information and radionuclides related documentation, Regional Board staff have the following findings:

1. **No Suspected Releases of Radioisotopes from Historical Operations at the Site**

   The Regional Board has jurisdiction for the investigation and remediation of groundwater contamination at the former Raytheon site, while the Department of Toxic Substances Control (DTSC) has jurisdiction to address environmental contamination in soil as a result of historic operations. On March 4, 2009, DTSC issued the following responses to public comments:

   > "DTSC has obtained records submitted by Raytheon which includes information on the types radioisotopes used at the site, and the buildings in which the radioisotopes were used. The records indicate that only small amounts of radioactive materials were present, primarily in measurement devices, and that licenses were properly terminated and materials were properly disposed of more than twenty (20) years ago."

   Regional Board staff has also reviewed the *Supporting Documentation for the Radioactive Materials Investigation at Hughes Aircraft Company-MSG-CP*, dated May 1992, documenting the information on radioactive materials being used at the site approximately from 1964 to 1992. Based on review of the information provided, Regional Board staff concurs with DTSC's statement. Following further consultation with DTSC, Regional Board staff concludes that there is no evidence suggesting that releases of radionuclides resulted from the historical operations at the former Raytheon facility.

2. **Naturally Occurring Uranium and Radium**

   During the 2009 groundwater investigation, isotopic uranium analyses were conducted to calculate the relative mass ratios in order to determine if the origin of the uranium was man-made (enriched or depleted) or was consistent with naturally occurring sources. The results of the 2009 groundwater investigation were compared to the published values of typical isotopic abundances. These values were obtained from both the United States Department of Energy's *Guide of Good Practices for Occupational Radiological Protection in Uranium Facilities* (USDOE, 2004) and the United States Environmental Protection Agency's *Depleted Uranium Technical Brief* (USEPA, 2006).

The isotopic analysis of uranium demonstrates that the isotopic mass percentages for the 2009 groundwater samples with elevated uranium levels fall within the range expected for naturally occurring uranium as shown in the table below. The same calculations were previously performed for the October 1991 and December 1991 analytical results and yielded similar ratios. The 2009 groundwater data strongly support the statement that naturally occurring uranium is encountered in groundwater at the site.

Relative Abundance of Uranium Isotopes

Isotope	**U-238**	**U-235**	**U-234**
Natural Abundance (%)	99.27	0.72	0.0055
October 1991 Sampling Results	99.10 to 99.42	0.57 to 0.88	0.0053 to 0.0067
December 1991 Sampling Results	99.14 to 99.55	0.44 to 0.84	0.0051 to 0.0064
May 2009 Sampling Results	99.13 to 99.50	0.48 to 0.85	0.0050 to 0.0062

Based on the information obtained from the USEPA website at: http://www.epa.gov/radiation/radionuclides/index.html, uranium and radium occur naturally in the environment. They are present in virtually all rock, soil, and water. Uranium, radium and their compounds are soluble in water. As a result, groundwater in areas where concentrations of uranium and radium are high in aquifer materials and in surrounding bedrock typically has relatively high uranium and radium content.

Based upon the information provided to the Regional Board, and with the provision that the information was accurate and representative of site conditions, the Regional Board finds that the May 2009 groundwater investigation for radioactivity analyses carried out at the site is in compliance with the requirements of the CWC section 13267 Order issued to Raytheon Company on March 5, 2008 and that no further action for radioactivity analyses in groundwater is required at the site at this time. However, if new information indicates potential releases of radionuclides from the former Raytheon facility, the Regional Board may require groundwater monitoring for radioactivity analyses at the site.

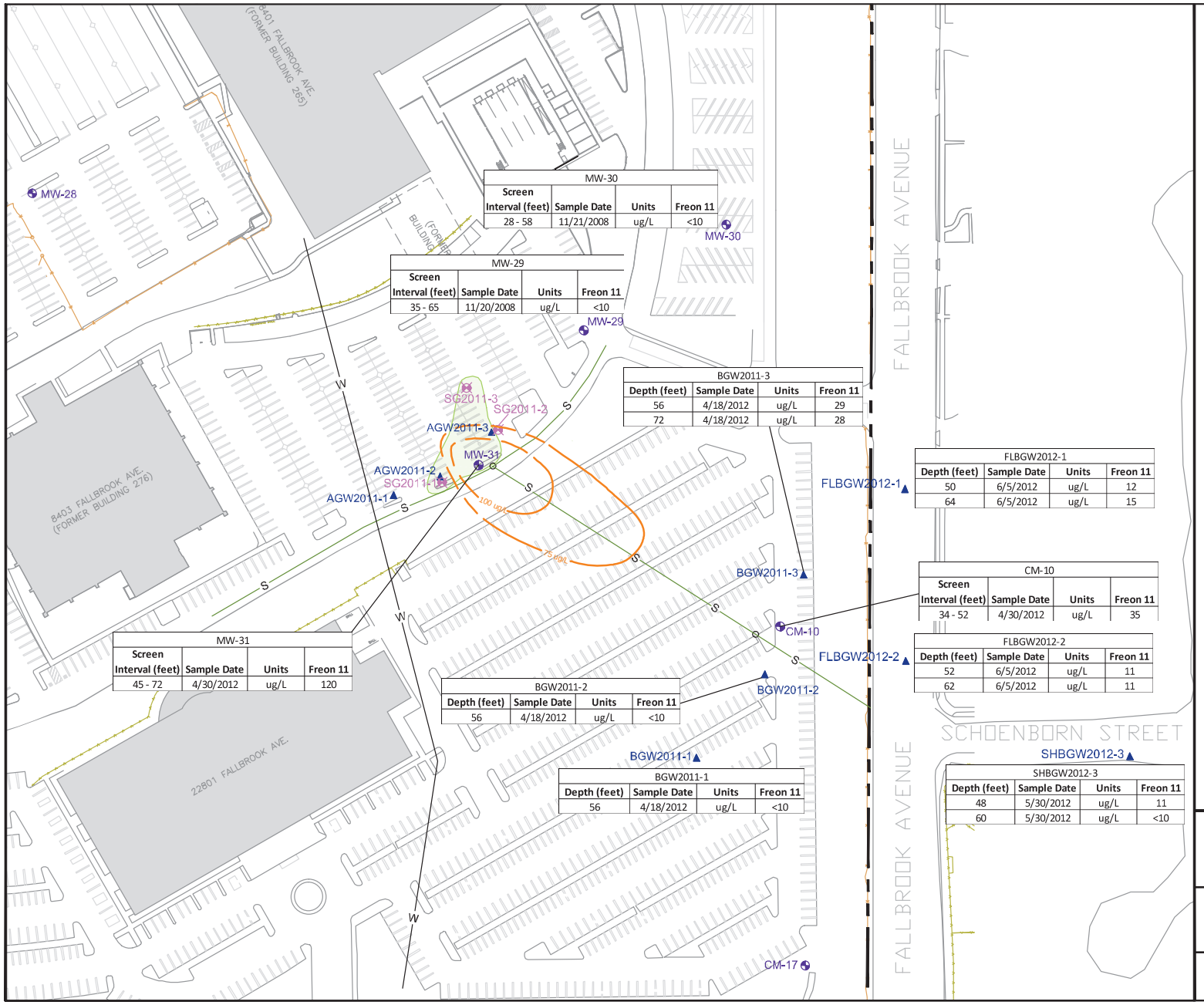
If you have any questions, please contact Dr. Ann Chang at (213) 620-6070 or nchang@waterboards.ca.gov.

Sincerely,

Samuel Unger AEO for

Tracy J. Egoscue
Executive Officer

cc: Mr. Stefan Cajina, California Department of Public Health
Mr. Chris Nagler, Watermaster, California Department of Water Resources
Mr. Bernard Franklin, Los Angeles County, Department of Public Health
Mr. Hoover Ng, Water Replenishment District- Southern California
Mr. Rod Collins, Department of Toxic Substances Control
Mr. Jacques Marcillac, Oneida Total Integrated Enterprises
Mr. Kenneth Katich, Trammell Crow Company
Mr. William Preston Bowling, Aerospace Cancer Museum and Education
Ms. Christina Walsh, Cleanuprocketdyne.org
Ms. Bonnie Klea
Ms. Chris Rowe
Mr. Daniel Wiseman



MW-30			
Screen Interval (feet)	Sample Date	Units	Freon 11
28 - 58	11/21/2008	ug/L	<10

MW-29			
Screen Interval (feet)	Sample Date	Units	Freon 11
35 - 65	11/20/2008	ug/L	<10

BGW2011-3			
Depth (feet)	Sample Date	Units	Freon 11
56	4/18/2012	ug/L	29
72	4/18/2012	ug/L	28

FLBGW2012-1			
Depth (feet)	Sample Date	Units	Freon 11
50	6/5/2012	ug/L	12
64	6/5/2012	ug/L	15

CM-10			
Screen Interval (feet)	Sample Date	Units	Freon 11
34 - 52	4/30/2012	ug/L	35

FLBGW2012-2			
Depth (feet)	Sample Date	Units	Freon 11
52	6/5/2012	ug/L	11
62	6/5/2012	ug/L	11

MW-31			
Screen Interval (feet)	Sample Date	Units	Freon 11
45 - 72	4/30/2012	ug/L	120

BGW2011-2			
Depth (feet)	Sample Date	Units	Freon 11
56	4/18/2012	ug/L	<10

BGW2011-1			
Depth (feet)	Sample Date	Units	Freon 11
56	4/18/2012	ug/L	<10

SHBGW2012-3			
Depth (feet)	Sample Date	Units	Freon 11
48	5/30/2012	ug/L	11
60	5/30/2012	ug/L	<10

Legend

- Property Line
- MW-# / CM-# — Groundwater Monitoring Well
- NGW2011-# — Discrete-Depth Groundwater Boring
- SG2011-# — Soil Gas Boring
- Approximate Freon 11 Area (>1,000 ug/L in soil gas), 1998

Notes

1.) "S" = Sewer line; "ug/L" = micrograms per liter; "Freon 11" = trichloroflouromethane.

2.) Freon 11 area defined as Freon 11 concentrations > 1,000 ug/L in soil gas from previous report (Fluor Daniel GTI 1998).

3.) Freon 11 MCL = 150 ug/L.

4.) Freon 11 groundwater contour represents current and historical concentrations.

N W E S

Approximate Scale in Feet

0 100 200

Figure 5
Discrete-Depth Groundwater Analytical Results for Freon 11

Former Canoga Park Facility
8433 Fallbrook Ave, Canoga Park, California

OTIE Orlando Total Integrated Enterprises

Date: July 19, 2012

File: Freon11_location.dwg

CONFIRMATION SAMPLING REPORT FOR NO FURTHER ACTION STATUS IN THE SOUTHERN PARCELS

Former Canoga Park Facility
8433 Fallbrook Avenue
Canoga Park, California

Oneida Total Integrated Enterprises Project No. 2009025
July 31, 2012

Los Angeles Regional Water Quality Control Board File No. 94-45
Monitoring and Reporting Program No. CI-7483
Global ID SL2043T1572

Prepared for:
Su Han, CHG
Site Cleanup I
Los Angeles Regional Water Quality Control Board
320 W. Fourth Street, Suite #200
Los Angeles, California 90013

Prepared by:

317 East Main Street
Ventura, California 93001
(805) 585-2110

CONFIRMATION SAMPLING REPORT FOR NO FURTHER ACTION STATUS IN THE SOUTHERN PARCELS

Former Canoga Park Facility
8433 Fallbrook Avenue
Canoga Park, California

Oneida Total Integrated Enterprises Project No. 2009025
July 31, 2012

Los Angeles Regional Water Quality Control Board File No. 94-45
Monitoring and Reporting Program No. CI-7483
Global ID SL2043T1572

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NO. 902
CERTIFIED HYDROGEOLOGIST
STATE OF CALIFORNIA

EXECUTIVE SUMMARY

Oneida Total Integrated Enterprises, LLC, on behalf of the Raytheon Company (Raytheon), has prepared this report of confirmatory characterization of trichlorofluoromethane (Freon 11) in soil and groundwater underlying the southern parcels of the Former Canoga Park Facility located at 8433 Fallbrook Avenue, Canoga Park, California, hereafter referred to as the "Site."

The purpose of the activities described in this document was to collect confirmation data in order for the Los Angeles Regional Water Quality Control Board (LARWQCB) to make an informed decision per a No Further Action (NFA) status request for the southern parcels of the Site (herein referred to as Southern Parcels), namely Assessor Parcel Numbers (APN #'s) 2005-002-011 and 2005-002-901. The report provides background information on previous investigations, a regulatory synopsis, conceptual site model (CSM) information, and a summary of results for the 2012 confirmation sampling activities.

The confirmatory sampling included nine CPT borings (six onsite and three offsite), six locations where discrete depth groundwater samples were collected (three onsite and three offsite) and two existing groundwater monitoring wells (CM-10 and MW-31) were sampled. In addition, three multi-depth soil vapor probes were installed within the postulated source area where elevated Freon 11 concentrations in shallow soil vapor were previously delineated. All samples were analyzed for volatile organic compounds, including Freon 11.

In reviewing the analytical results from this confirmatory sampling, and also evaluating the previous assessments and monitoring data that has been collected over the last 20 years, the following conclusion statements can be made:

- No VOC concentrations have been detected above the MCLs for drinking water in groundwater samples from each of the monitoring wells (CM-10, CM-11A, CM-12, CM-15, CM-17, MW-21S, MW-21D, MW-22S, MW-22D, MW-28, MW-29, MW-30 and MW-31) located on or in the vicinity of the Southern Parcels for more than 10 years of groundwater monitoring. Moreover, samples from all wells, except for wells CM-10 and MW-31, have been non-detect for the Site constituents of concern (chlorinated VOCs), for more than 15 years.
- The only detected VOC in groundwater historically exceeding a California MCL was Freon 11, which is not identified as a carcinogen and is low in toxicity.
- Data from previous investigations and the off-site confirmatory sampling documented in this report completely delineate the vertical and lateral extent of Freon 11-impacted groundwater at the Site.

The following lines of evidence are provided below to support an NFA status:

- Soil gas concentrations of Freon 11 in the postulated source area collected in 2012 were below all available Environmental Screening Levels (ESLs).
- No significant increase of Freon 11 concentrations with depth was observed in soil vapor samples collected in the postulated release area down to the groundwater table and the low detections above the groundwater table are well below calculated threshold levels that could impact groundwater above MCLs.

- Groundwater sampling in the Southern Parcels indicated that lateral and vertical distribution of Freon 11 is consistent with the previous site conceptual model, e.g., CM-10 is approximately centerline with the axis of Freon 11 concentration distributions, and Freon 11 concentrations are limited to shallow groundwater per the non-detect in the deeper sample collected offsite underlying Schoenborn Street.
- Concentrations of Freon 11 in samples collected from wells CM-10 and MW-31 have been below the California MCL since 1995 and 1999, respectively, quantifying that natural attenuation has been effective.
- Comparing groundwater elevations and Freon 11 concentrations in wells MW-31 and CM-10, indicate that there is no correlation between increased groundwater elevations and increased Freon 11 concentrations, the inverse is generally true (e.g., higher elevations correspond with decreased concentrations). This supports the premise that no soil “source” exists in the vadose zone that could impact groundwater quality above MCLs.
- Off-Site groundwater sampling indicated Freon 11 concentrations attenuate significantly away from MW-31, as concentrations are at or very near the reporting limit of 10 µg/L.

From these converging lines of evidence, it is apparent that the Freon 11 concentrations do not pose a significant impact to the Site or surrounding area; therefore, Raytheon respectfully requests that NFA status be issued for APN’s 2005-002-011 and 2005-002-901 and as such, authorization to abandon wells CM-10, CM-11A, CM-12, CM-15, CM-17, MW-21S, MW-21D, MW-22S, MW-22D, MW-28, MW-29, MW-30 and MW-31 be granted.

TABLE OF CONTENTS

1.0 INTRODUCTION 1
1.1 PROJECT CONTACTS 1
1.2 PURPOSE AND OBJECTIVES 1
2.0 SITE BACKGROUND 2
2.1 PREVIOUS CHARACTERIZATION ACTIVITIES 2
2.2 GROUNDWATER MONITORING AND REGULATORY SUMMARY 3
2.3 PHYSICAL SETTING 4
2.4 SURFACE WATER HYDROLOGY 4
2.5 SITE GEOLOGY 5
2.6 SITE HYDROGEOLOGY 5
2.7 NATURE AND EXTENT OF THE CHEMICAL RELEASE 6
3.0 DESCRIPTION OF FIELD ACTIVITIES 7
3.1 PRE-FIELD ACTIVITIES 7
3.2 CONE PENETRATION TESTING 7
3.3 SOIL GAS INVESTIGATION 8
3.3.1 Construction of Temporary Soil Gas Probes 8
3.3.2 Sampling of Temporary Soil Gas Probes 8
3.4 DISCRETE-DEPTH GROUNDWATER SAMPLING 9
3.5 SAMPLING OF SELECT GROUNDWATER MONITORING WELLS 9
3.6 FIELD QUALITY CONTROL SAMPLES 10
3.6.1 Soil Gas Samples 10
3.6.2 Groundwater Samples 10
4.0 CONFIRMATORY SAMPLING RESULTS 11
4.1 SOIL GAS ANALYTICAL RESULTS 11
4.2 GROUNDWATER ANALYTICAL RESULTS 11
4.3 DATA QUALITY 12
4.3.1 Soil Gas Samples 12
4.3.2 Groundwater Samples 12
5.0 DATA DISCUSSION 14
5.1 FREON 11 IN SOIL GAS 14
5.2 FREON 11 IN GROUNDWATER 14
6.0 SUMMARY AND CONCLUSION 15
7.0 REFERENCES 16

FIGURES

Figure 1 Site Vicinity Map

Figure 2 Previous Southern Parcels Assessment and Historical VOC Results

Figure 3 Sampling Locations

Figure 4 Soil Gas Analytical Results for Freon 11

Figure 5 Discrete-Depth Groundwater Analytical Results for Freon 11

Figure 6 Cross-Section A-A'

TABLES

Table 1 Summary of Soil Gas Sample Results

Table 2 Summary of Groundwater Analytical Results

GRAPHS

Graph 1 Freon 11 Concentrations and Groundwater Elevations vs. Time, Monitoring Well MW-31

Graph 2 Freon 11 Concentrations and Groundwater Elevations vs. Time, Monitoring Well CM-10

APPENDICES (provided on CD)

Appendix A Historical Soil Gas Data (GTI 1998)

Appendix B: Regulatory Correspondence

Appendix C Permits

Appendix D Cone Penetration Testing Reports

Appendix E Field Documentation

Appendix F Analytical Laboratory Reports

Appendix G Calculated Environmental Screening Levels for Freon 11

Acronyms and Abbreviations

µg/L	micrograms per liter
amsl	above mean sea level
bgs	below ground surface
Cal/EPA	California Environmental Protection Agency
Calscience	Calscience Environmental Laboratories, Inc.
CPT	cone penetration testing
DPT	Direct-push technology
ESL	environmental screening level
FID	flame ionization detector
FDGTI	Fluor Daniel GTI, Inc.
Freon 11	trichlorofluoromethane
ft/ft	feet per foot
GRC	Groundwater Resources Consultants, Inc.
Gregg	Gregg Drilling and Testing, Inc.
GTI	Groundwater Technology, Inc.
LARWQCB	Los Angeles Regional Water Quality Control Board
LCS	Laboratory control sample
LCSD	Laboratory control sample duplicate
µg/L	micrograms per liter
MCL	maximum contaminant levels
McLaren Hart	McLaren/Hart, Inc.
NFA	No Further Action
OTIE	Oneida Total Integrated Enterprises
QA/QC	quality assurance/quality control
Raytheon	Raytheon Company
SFRWQCB	San Francisco Regional Water Quality Control Board
US EPA	United States Environmental Protection Agency
VOCs	volatile organic compounds

1.0 INTRODUCTION

Oneida Total Integrated Enterprises, LLC (OTIE), on behalf of the Raytheon Company (Raytheon), has prepared this report of confirmatory characterization of trichlorofluoromethane (Freon 11) in soil and groundwater underlying the southern parcels of the Former Canoga Park Facility located at 8433 Fallbrook Avenue, Canoga Park, California (Figure 1), hereafter referred to as the "Site."

1.1 PROJECT CONTACTS

The following table lists the key individuals of the project team during implementation of the confirmatory sampling event:

Contact	Organization	Phone #
Daniel Samorano, PE	Raytheon	520-794-9026
Su Han, CHG	LARWQCB	213-576-6735
Jacques Marcillac, CHG	OTIE	805-585-6382

1.2 PURPOSE AND OBJECTIVES

The purpose of the activities described in this document was to collect confirmation data in order for the Los Angeles Regional Water Quality Control Board (LARWQCB) to make an informed decision per a No Further Action (NFA) status request for the southern parcels of the Site (herein referred to as Southern Parcels), namely Assessor Parcel Numbers (APN #'s) 2005-002-011 and 2005-002-901. The report provides background information on previous investigations, a regulatory synopsis, conceptual site model (CSM) information, and a summary of results for the 2012 confirmation sampling activities. The objective of the report is to present the sampling methodologies, sample locations, results, and provide a data discussion to support the NFA status recommendation for the southern parcels.

2.0 SITE BACKGROUND

In 1959, the 8433 Fallbrook Avenue property was developed as an industrial park by Bunker-Ramo, an electrical component design and testing company. Bunker-Ramo was the sole occupant of the facility from 1959 until 1966. From 1966 to 1976, Hughes Missile Systems Company was a co-occupant with Rocketdyne, a division of Rockwell International, and Bunker-Ramo. Hughes Missile Systems purchased the entire Site in the mid-1970s and became the sole occupant, operating as an aerospace research and development facility. The Former Canoga Park facility was purchased from Hughes Missile Systems Company by Coast Federal Bank in May 1995. Parcels were subsequently purchased by DeVry and the Los Angeles Metropolitan Police Department. The northern portion of the Site was sold to Regent Properties, Inc., in 1997. Regent Properties sold its portion of the property to Shamrock Holdings, Inc., in 2001, who in turn, sold the property to MEPT West Hills, LLC, in June 2002. MEPT West Hills, LLC, is the current property owner; however, CB Richard Ellis is the current property manager and is the primary contact for Site logistical issues. Through a merger with Hughes Missile Systems in 1997, Raytheon assumed management of the environmental investigations and remediation activities at the Site.

2.1 PREVIOUS CHARACTERIZATION ACTIVITIES

Environmental investigations in the early 1990s identified Freon 11 concentrations exceeding the maximum contaminant level (MCL) of 150 micrograms per liter (µg/L) for drinking water. These data were indicated by samples from monitoring well CM-10, located in the southeastern portion of the property (Figure 2). Follow-up characterization activities were conducted between 1993 and 1998 in the area near Buildings 274 and 276, which is upgradient from well CM-10 to identify the source of the Freon 11 concentrations. The investigations indicated that an area of Freon 11 concentrations greater than 1,000 µg/L in soil gas was delineated in the former parking lot and southeast of former Building 274 (thereafter termed “the Freon 11 Area”) (Figure 2). In 1998, three temporary wells and one permanent well (MW-31) were installed within the Freon 11 Area. In addition, several other wells (CM-11, CM-11A, MW-28, MW-29 and MW-30) were installed at various times in the Southern Parcels area to further characterize groundwater underlying the former facility. A routine monitoring of these wells was implemented in the early 1990s. The following are brief summaries of previous investigations conducted between 1993 and 1998 concerning Freon 11 in the Southern Parcels.

In August 1993, a monitoring well and soil borings were completed within the area enclosed by Buildings 276 and 274 and well CM-10. The following soil borings were advanced in the area between Buildings 276 and 274 and southeast of well MW-29: B-RNDM-3, B-SL-8, and B-SL-9. At each boring, soil samples were collected at 10, 20, and 30 feet below ground surface (bgs); no VOCs were detected above their respective reporting limits for these soil samples (GTI 1994). One boring (B-SL-10) advanced immediately northwest of well CM-10 had no VOCs reported above their respective detection limits in the soil samples collected at 10, 20, and 30 feet bgs (GTI 1994). During the advancement of the boring for well MW-29, soil samples were collected and analyzed for VOCs at 45 and 50 feet bgs; no VOCs were detected above their respective reporting limits in either sample (GTI 1994).

In June 1995, soil gas surveys were conducted to delineate the lateral extent of Freon 11-impacted soil (GTI 1995a). Soil gas probes were installed at four locations within the immediate area of well CM-10, one was located at an on-site sewer junction within the vicinity of well CM-10, and one was located immediately southeast of the former Building 274’s cooling unit. All probes were set at approximately 5 feet bgs. Freon 11 was detected at the on-site

sewer junction and adjacent to the cooling unit for the former Building 274 at concentrations of 183 µg/L and 6 µg/L, respectively. No Freon 11 was detected above the reporting limit at the soil gas probes installed within the immediate area of well CM-10 (GTI 1995a).

In August 1995, additional soil gas probes were installed to the southeast of former Building 274 at depths of approximately 5 feet bgs (GTI 1995b) in the Freon 11 Area. Historical soil gas VOC results are provided in Appendix A.

In May 1998, soil and groundwater samples were collected for analytical laboratory analysis during well installation of temporary and permanent monitoring wells. Temporary and permanent monitoring wells were installed in the vicinity of well CM-10 and the Freon 11 Area (FDGTI 1998). Well identifications, locations, and screened intervals are summarized as follows:

- The temporary wells are identified as WP-265-1, WP-276 -1, and WP-DEV-1 and were installed in northwest (upgradient), southwest (crossgradient), and southeast (downgradient) locations, respectively, of the Freon 11 Area. Each temporary well was screened from 45 to 70 feet bgs (WP-265-1), 75 to 100 feet bgs (WP-276 -1), and 35 to 60 feet bgs (WP-DEV-1).
- The permanent well, identified as MW-31, is located within the Freon 11 Area, and is screened from 45 to 70 feet bgs.

Soil and groundwater analytical results are summarized as follows:

- Soil samples selected for laboratory analysis were collected at various depths (typically at 10-foot intervals from 10 to 70 feet bgs). Freon 11 was the only VOC detected above the reporting limit, and only in one soil sample, at a concentration of 7.2 micrograms per kilogram (WP-276-1 at a depth of 50 feet bgs). The presence of Freon 11 in this sample was possibly due to interference by groundwater in the saturated soil sample.
- Groundwater samples were also collected from these wells following well development and submitted for chemical analysis. Freon 11 was detected in the groundwater samples collected from wells WP-DEV-1 and MW-31 at concentrations of 23 µg/L and 150 µg/L, respectively (FDGTI 1998).

Previous investigative results for the Southern Parcels are summarized on Figure 2.

2.2 GROUNDWATER MONITORING AND REGULATORY SUMMARY

No VOC concentrations have been detected above the MCLs for drinking water in groundwater samples from each of the monitoring wells (CM-10, CM-11A, CM-12, CM-15, CM-17, MW-21S, MW-21D, MW-22S, MW-22D, MW-28, MW-29, MW-30 and MW-31) located on or in the vicinity of the Southern Parcels for more than 10 years of groundwater monitoring. Moreover, samples from all wells, except for wells CM-10 and MW-31, have been non-detect for the Site constituents of concern (chlorinated VOCs), for more than 15 years. In a response to a June 27, 2006, memorandum requesting removal of Southern Parcel monitoring wells and NFA status for the Southern Parcels, the LARWQCB issued a letter dated January 22, 2007, approving the removal of several wells from the monitoring program, but did not approve their abandonment, citing concerns about the potential presence of manmade radiological isotopes in wells CM-10, CM-12 and CM-17 based on community concerns with previous data (GRC 1992).

Between March 2008 and August 2009, Raytheon, OTIE, and the LARWQCB worked together to evaluate radiological conditions in the Southern Parcels. A radiological evaluation was performed; the results of the radiological evaluation indicated that the presence of low-level radiological isotopes were attributable to naturally-occurring sources in the underlying soil,

bedrock, and groundwater. The LARWQCB concurred, and issued a NFA letter with regard to radioactivity in groundwater for the Southern Parcels on October 30, 2009 (OTIE 2009a).

In addition to the radiological sampling, OTIE performed a confirmation sampling event including VOCs for wells CM-10, CM-11A, CM-12, CM-15, CM-17, MW-21S, MW-21D, MW-22S, MW-22D, MW-28, MW-29, MW-30, and MW-31 in November 2008. Analytical results from this confirmation sampling event were nondetect for all VOCs (CM-11A, CM-12, CM-15, CM-17, MW-21S, MW-21D, MW-22S, MW-22D, MW-28, MW-29, and MW-30) or below the MCL for the only detected VOC, Freon 11 (only in wells CM-10 and MW-31).

Based on the findings of the NFA for radiological parameters and confirmation results for VOCs in the Southern Parcel wells, Raytheon sought NFA status from the LARWQCB for the Southern Parcels once again in a technical memorandum dated July 8, 2010. The LARWQCB responded in a letter dated May 13, 2011, and requested Raytheon to better define vertical and lateral extent of the Freon 11 plume detected in wells MW-31 and CM-10. The additional characterization described herein was performed to address the LARWQCB request.

Past regulatory documents are provided in Appendix B.

2.3 PHYSICAL SETTING

The Site is located immediately northwest of the intersection of Roscoe Boulevard and Fallbrook Avenue in the western part of the San Fernando Valley, adjacent the Simi Hills. The Site includes APN #s 2005-002-901 and 2005-002-011 and is currently occupied by two office buildings, one for DeVry (2005-002-901) and the other for Los Angeles Metropolitan Police Department (2005-2002-011). The Site is currently zoned as Limited Manufacturing per the City of Los Angeles.

The Site is centered on a north-south oriented knoll, with hilly regions to the north and west, and relatively flat valley floor to the south and east. The Chatsworth Creek drainage lies immediately west of the Site. Elevations range from approximately 840 (along the edges of the property) to approximately 897 feet above mean sea level (amsl) (at the top of the knoll). Land uses adjacent to the Site, include commercial/light industrial to the north and south, and residential to the east and west.

2.4 SURFACE WATER HYDROLOGY

Primary surface drainage in the Site vicinity flows towards Chatsworth Creek, lying immediately west of the Site. Portions of Chatsworth Creek, north and south of Hidden Lake (formerly Lees Lake), are contained within large underground culverts. Other portions are contained in lined or unlined structured channels. The portion of Chatsworth Creek in the Site vicinity is contained in underground cement-lined tunnels. Water from Chatsworth Creek eventually flows into the Los Angeles River about 2.5 miles downstream.

Hidden Lake is the only surface body of water within a 1-mile radius of the Site. Hidden Lake is used as a recreational area by residents of the surrounding housing development. Storm drainage, including storm drain discharge from the Site flows to the channelized Chatsworth Creek, the majority of which enters south and downstream of Hidden Lake.

It should be noted that the comparison of survey data for the water level of Hidden Lake measured in March 2002 (849.60 amsl) and the potentiometric surface of shallow groundwater in wells near the reservoir (840 to 842 feet amsl in May 2009) concluded that the potentiometric groundwater surface was approximately eight to ten feet below the surface water elevation. This

indicates that Hidden Lake is a “losing” body of water; therefore, groundwater does not recharge Hidden Lake.

2.5 SITE GEOLOGY

The geologic deposits of the western San Fernando Valley in the vicinity of the study area are comprised of predominantly unconsolidated sands, silts and clays with occasional gravels. These alluvial fill deposits are of Quaternary age and range in thickness from a thin veneer at the valley margins to more than 700 feet in the central portion of the San Fernando Valley (McLaren Hart 1990). In the western portion of valley, the unconsolidated alluvial fill deposits are underlain by consolidated bedrock of the Miocene Modelo and Cretaceous Chatsworth Formations, respectively. The Modelo Formation consists of grayish siltstone, clayey siltstone and shale, with minor interbedded diatomaceous shale. A relatively thin weathered zone exists along the top of the formation where it is in contact with the shallower alluvial deposits. The Chatsworth Formation is comprised primarily of a turbidite sandstone sequence with interbedded shales and minor conglomerates. The bedrock of the Chatsworth Formation is the major rock comprising the Simi Hills and from the distinct outcrops north of Chatsworth Reservoir (McLaren Hart 1990).

The major portion of the Site is constructed on consolidated bedrock of the Miocene Modelo Formation. Near surface (to 50 or 100 feet bgs), deposits are highly weathered. Beds of the Modelo are seen in road cuts and in drill-hole samples to be dipping at up to 45 degrees from horizontal. Generally, the dip direction is to the south or southwest.

In the northwestern portion of the Site, to the west and northwest of Building 8531 (former Building 270), and at other locations on the Site periphery, the shallow subsurface is comprised of unconsolidated alluvial valley fill of Quaternary age. This material is present to depths of at least 75 feet. The beds are flat-lying, and consist primarily of mixed silt and fine sand, with lesser amounts of clay. The Modelo Formation is believed to be unconformably present beneath the alluvium. A thin (up to 10-foot) layer of construction fill material is locally present at the surface overlying the Modelo Formation or alluvium.

2.6 SITE HYDROGEOLOGY

Groundwater gradient direction within the vicinity of the Site regionally flows from northwest to southeast, from the Simi Hills to the San Fernando Valley. The depth to groundwater is approximately 25 feet bgs near Roscoe Boulevard. The hydraulic gradient of the regional groundwater is approximately 0.0047 feet per foot (ft/ft).

The water-bearing materials comprising the western portion of the valley are generally fine-grained alluvial sediments, which contain naturally-occurring total dissolved solids in excess of 1,000 milligrams per liter, exceeding the recommended United States Environmental Protection Agency (US EPA) drinking water guidelines. Due to the relatively low yields and excessive total dissolved solids, there are no drinking water wells in the vicinity of the Site. Essentially all drinking water consumed in the western San Fernando Valley is derived from the State Water project and the Los Angeles Aqueduct, which delivers water to southern California from the Sierra Nevada Mountains.

Although the Los Angeles Department of Water and Power does supplement its water supply with groundwater from the San Fernando Basin, all of the groundwater production well fields are located in the eastern portion of the basin. The nearest active production well for supply of potable water to the public is in excess of 15 miles downgradient from the Site.

In the vicinity of the Former Hughes Facility, groundwater occurs between 10 and 65 feet bgs, depending on the location on the property. The groundwater gradient direction is generally to the southeast (that is, from the Simi Hills to the San Fernando Valley), but on the western side of the property, there is a westward component due to the local topography.

Routine groundwater gauging of onsite monitoring wells (CM-10, CM-11A, CM-12, CM-15, CM-17, MW-21S, MW-21D, MW-22S, MW-22D, MW-28, MW-29, MW-30, and MW-31) has been conducted since December 1991 (with previous monthly gauging from August 1990). Groundwater flow in the northwest area of the Site is consistently westward until reaching the western edge of the property where it heads southward. Gradients in this area generally range from 0.01 to 0.02 ft/ft. The apparent groundwater flow across the remainder of the Site is towards the southwest, south, and south-southeast, with historic hydraulic gradients ranging from 0.01 to 0.04 ft/ft. Depths to groundwater, groundwater gradients, and apparent groundwater flow directions are generally consistent with minor localized changes due to pumping activities during operation of the groundwater recovery and treatment system.

Aquifer tests were conducted in 1991 and 1993 to determine hydraulic parameters of the aquifer as a prerequisite to groundwater modeling and conceptual design of the groundwater remediation system. Average hydraulic conductivities were estimated at approximately 9 gallons per day per square foot for the Modelo Formation (4.24×10^{-4} centimeters per second) and approximately 270 gallons per day per square foot for the alluvial fill (1.27×10^{-2} centimeters per second) (GTI 1993).

2.7 Nature and Extent of the Chemical Release

The only VOC detected previously above MCL in groundwater in the Southern Parcels of the Site is Freon 11. Freon 11 was historically used in refrigeration devices and as a solvent.

The current understanding of the concentration distributions indicates that the Freon 11 Area is limited to the southeast of former Building 274 (GTI 1995a and GTI 1995b). The postulated release of Freon 11 occurred in an unpaved area adjacent to the parking lot southeast of former Building 274, which may have been used as a maintenance area (FDGTI 1998). This area was identified by shallow soil gas investigations in 1995, which delineated an area of elevated Freon 11 greater than 1,000 μg/L (Figure 2). Therefore, it is likely that surface releases of Freon 11 infiltrated the vadose zone in this area, and migrated vertically to groundwater, then migrated laterally in groundwater in the dissolved phase. Groundwater impacted by Freon 11 is localized to the area of well MW-31 and downgradient to well CM-10. Because of the low average hydraulic conductivity of 9 gallons per day per square foot for the Modelo Formation (GTI 1993), the movement of dissolved-phase Freon 11 in the Southern Parcels was believed to be mainly in the discontinuous discrete sand stringers in the Modelo Formation, which limited its lateral migration. Vertical migration was likely hindered by the low permeabilty of the siltsones in the Modelo Formation, as well as the limited volume of Freon 11 that was released. This is supported by the relatively low concentrations detected in groundwater (max: 360 µg/L) compared to Freon 11's solubility limit of 1,100,000 µg/L (CalEPA, 1997).

3.0 DESCRIPTION OF FIELD ACTIVITIES

Soil gas and groundwater data were collected to further characterize the lateral and vertical extent of Freon 11 in the subsurface. The following sections describe the field activities for the confirmation sampling.

3.1 PRE-FIELD ACTIVITIES

- Underground Service Alert of Southern California was notified of the intent to drill and issued the following ticket numbers: A20961187-00A, A21420522-02A, and A21510963-01A.
- A geophysical utility locator was contracted to clear the drilling locations prior to any drilling activities by identifying subsurface utilities or other subsurface anomalies, under the direction of an OTIE geologist.
- Well permit number 890438-7-12 for discrete-depth groundwater samples was obtained from the Environmental Health Division of Los Angeles County.
- Excavation E-Permit number E-1281-0011 was obtained from the City of Los Angeles Department of Public Works for borings within the City of Los Angeles right-of-way, located in Fallbrook Avenue and Schoenborn Street.

Copies of the Underground Service Alert of Southern California tickets, well permit, and excavation permit are located in Appendix C.

3.2 CONE PENETRATION TESTING

A cone penetration testing (CPT) rig was used to perform the investigative work. CPT is a process of advancing a probe into the subsurface that measures sleeve friction and cone penetration resistance. The ratio of sleeve friction to cone penetration resistance predicts the subsurface lithology (Robertson, 1998). The CPT provides a rapid, consistent method of predicting soil stratigraphy, relative density, and hydrogeologic information (that is, static and dynamic pore pressure and hydraulic conductivity). The ability to determine soil stratigraphy continuously to total depth is beneficial for understanding the movement of groundwater at the Site by identifying spatial distribution of sand stringers. The CPT data allows for subsurface identification of these sand stringers and, therefore, a more accurate prediction of groundwater flow zones beneath the Southern Parcels. The CPT rig was operated by Gregg Drilling and Testing, Inc. (Gregg) of Signal Hill, California, under the supervision of an OTIE geologist. All CPT borings were cleared for utilities using a hand auger to a depth between 5 and 8 feet bgs prior to invasive activity. Soil generated during hand augering was used to backfill each respective boring to provide support for advancing the CPT probe.

A total of nine CPT borings were advanced during field activities.

- Three CPT borings were advanced in the vicinity of the Freon 11 Area on April 12, 2012 (borings AGW2011-1, AGW2011-2, and AGW2011-3).
- Three CPT borings were advanced along a transect in the vicinity of well CM-10 on April 13, 2012 (borings BGW2011-1, BGW2011-2, and BGW2011-3).
- Three CPT borings were advanced along a transect off Site on Fallbrook Avenue and Schoenborn Street on May 30, 2012, and June 5, 2012 (borings FLBGW2012-1, FLBGW2012-2, and SHBGW2012-3).

Locations of CPT borings are presented on Figure 3. CPT reports, including detailed CPT logs, are provided in Appendix D.

3.3 SOIL GAS INVESTIGATION

The following section discusses the construction and sampling of temporary soil gas probes installed in the Freon 11 Area.

3.3.1 Construction of Temporary Soil Gas Probes

Borings were advanced within the vicinity of the Freon 11 Area for collecting soil gas samples at discrete depths using either CPT or direct-push technology (DPT) rigs, operated by Gregg, between April 12 and 16, 2012. All soil gas borings were cleared for utilities prior to drilling using a hand auger to a depth of 5 feet bgs. Soil generated during hand augering was used to backfill boring to provide support for advancing the CPT/DPT rods. Depth to groundwater was measured at approximately 52 feet bgs in well MW-31, in the immediate vicinity of the Freon 11 Area. Total depth of soil gas borings were limited by bedrock refusal and ranged in depth from 33.8 (SG2011-1) to 48.2 feet bgs (SG2011-2).

Each temporary soil gas probes was installed at 10-foot depth intervals, beginning at approximately 6 feet bgs, and subsequently placed every 10 feet to the total depth of the boring. Soil gas probes were constructed using a 1-inch long perforated stainless-steel probe connected to nylon tubing. The stainless-steel probes were surrounded by one foot of sand, overlain by one foot of dry granular bentonite, and then discrete, hydrated lifts of granular bentonite to the surface, in accordance with *Active Soil Gas Investigation Advisory* (Cal/EPA 2003). Because only three soil vapor probes could fit in one boring, an additional boring was advanced in the immediate area for installing two additional probes.

Locations of soil gas borings are presented on Figure 3.

3.3.2 Sampling of Temporary Soil Gas Probes

Soil gas probes were sampled using low flow sampling procedures as described in *Active Soil Gas Investigation Advisory* (Cal/EPA 2003) after a minimum of 24 hours between installation and sampling of probes. Soil gas probes were sampled on April 17, 2012. Each temporary soil gas probe was purged with a low flow pump at an approximate flow rate of 200 milliliters per minutes until three system volumes had been evacuated. Following purging, a sample was collected in a polyvinyl fluoride bag and screened with a calibrated organic vapor meter equipped with a flame ionization detector (FID). FID readings ranged from 0.0 to 13.0 parts per million with the highest reading measured at boring SG2011-2 at a depth of 14.9 feet bgs. FID readings from the probes were compared to ambient air at the surface of each soil gas sampling location. FID readings of ambient air at the Southern Parcels ranged from 0 to 9.6 parts per million with the highest reading measured at boring SG2011-2 at a depth of 25.0 feet bgs. Samples were collected in laboratory-supplied stainless steel electropolished passivated vessels (SUMMA Canisters®) with flow control valve set at 200 milliliters per minutes for VOC analysis using US EPA TO-15. A duplicate sample was collected at boring SG2011-1 at a depth of 33.3 feet bgs. Samples were labeled and shipped under chain-of-custody procedures via courier to Calscience Environmental Laboratories, Inc.(Calscience) of Garden Grove, California.

The temporary soil gas probe was removed, the boring backfilled with hydrated bentonite chips, and the surface restored with the appropriate material to match the existing surface on April 18, 2012.

Locations of soil gas borings are presented on Figure 3. A copy of the soil gas sampling log is provided in Appendix E.

3.4 DISCRETE-DEPTH GROUNDWATER SAMPLING

Discrete-depth groundwater samples were collected to characterize the vertical and lateral extent of Freon 11 from borings advanced along the two on-Site transects using a CPT rig operated by Gregg :

- Three CPT borings (BGW2011-1, BGW2011-2, and BGW2011-3) in the vicinity of well CM-10, were sampled on April 16, 2012, and
- Three CPT borings (FLBGW2012-1, FLBGW2012-2, and SHBGW2012-3), off Site, and downgradient of well CM-10 on Fallbrook Avenue and Schoenborn Street. Boring SHBGW2012-3 was sample on May 30, 2012, and borings FLBGW2012-1 and FLBGW2012-2 were sampled on June 5, 2012.

Groundwater samples were collected at discrete depths as follows:

Boring Identification	Depth(s) of Groundwater Sample (feet bgs)
BGW2011-1	56
BGW2011-2	56
BGW2011-3	56 and 72
FLBGW2012-1	50 and 64
FLBGW2012-2	52 and 62
SHBGW2012-3	48 and 60

For collecting the discrete-depth groundwater sample, the CPT rod was driven to the desired depth, then retracted three feet to expose three feet of ¾-inch outer diameter polyvinyl chloride 0.020-inch slot screen. A clean stainless steel bailer was used to collect samples in laboratory-supplied containers appropriate for US EPA 8260B VOC analysis. A separate boring was advanced for collecting each discrete-depth groundwater sample, with the exception of boring BGW2011-3 (which both samples were collected in the same boring). Samples were labeled and shipped under chain-of-custody procedures via courier to Calscience.

Locations of discrete-depth groundwater borings are presented on Figure 3.

3.5 SAMPLING OF SELECT GROUNDWATER MONITORING WELLS

Two groundwater monitoring wells, MW-31 and CM-10, historically exhibiting concentrations of Freon 11 were sampled on April 30, 2012, using low flow groundwater sampling procedures, which were identical to routine groundwater monitoring, per Monitoring and Reporting Program Number CI-7483. Samples were collected on stabilization of groundwater indicator parameters in laboratory-supplied containers appropriate for US EPA 8260B VOC analysis. Trip blanks were shipped with samples. Samples were labeled and shipped under chain-of-custody procedures via courier to Calscience. Sampling records are provided in Appendix E.

Purged groundwater was containerized and disposed in the on-Site groundwater treatment system.

3.6 FIELD QUALITY CONTROL SAMPLES

3.6.1 Soil Gas Samples

A field duplicate sample was collected and analyzed to evaluate the accuracy and precision of the contract laboratory. The field duplicate sample for soil gas was collected concurrently with the primary sample from boring SG2011-1 at a depth of 33.3 feet bgs. The field duplicate was labeled as “SG2011-1A-33.3” and was analyzed for VOCs.

3.6.2 Groundwater Samples

A groundwater field duplicate sample was collected concurrently with the primary sample from boring SHBGW2012-3 at a depth of 60 feet bgs. The field duplicate was labeled as “SHBGW2012-3A-60” and was analyzed for VOCs.

Trip blanks are used to evaluate whether the samples were contaminated by VOCs during shipping and handling, storage on Site or at the laboratory. Trip blanks accompanied every shipment of groundwater samples to Calscience and were labeled as “TB-1,” “QCTB20120530,” “field blank,” and “QCTB20120605.”

4.0 CONFIRMATORY SAMPLING RESULTS

The following section describes the analytical results from the soil gas investigation in the vicinity of the Freon 11 Area, discrete-depth groundwater samples collected along the two transects, and samples collected from the two groundwater monitoring wells.

4.1 SOIL GAS ANALYTICAL RESULTS

Eleven VOCs were detected in the 14 primary soil gas samples collected in temporary soil gas probes located in the vicinity of the Freon 11 Area. Freon 11 was the only VOC that was reported at elevated concentrations (exceeding 1 µg/L). The following is a summary of detected VOCs:

- Freon 11 was detected in all soil gas samples ranging in concentrations from 0.081 (at boring SG2011-3 at a depth of 45.5 feet bgs) to 260 µg/L (at boring SG2011-1 at a depth of 33.3 feet bgs.
- Tetrachloroethlene was detected in all soil gas samples with the exception of the soil gas sample collected from SG2011-3 at a depth of 45.5 feet bgs, which was nondetect at or above a reporting limit of 0.0034 µg/L. Detected tetrachloroethlene concentrations in samples ranged from 0.095 (at boring SG2011-2 at a depth of 6.0 feet bgs) to 0.78 µg/L (at boring SG2011-1 at a depth of 33.3 feet bgs).
- 1,1,2-Trichloro-1,2,2-trifluoroethane was detected in 11 of 14 primary soil samples. Detected 1,1,2-trichloro-1,2,2-trifluoroethane concentrations in samples ranged from 0.84 (at boring SG2011-3 at a depth of 15.4 feet bgs) to 0.33 µg/L (at boring SG2011-2 at a depth of 25.0 feet bgs). 1,1,2-Trichloro-1,2,2-trifluoroethane was nondetect at or above the reporting limit in samples collected at borings SG2011-1 at a depth of 14.6 feet bgs (reporting limit of 0.460 µg/L), SG2011-2 at a depth of 6.0 feet bgs (reporting limit of 0.180 µg/L), and SG2011-3 at a depth of 45.5 feet bgs (reporting limit of 0.011 µg/L).
- Acetone was detected in 11 of the 14 primary samples. Detected acetone concentrations in samples ranged from 0.17 (at boring SG2011-3 at a depth of 25.2 feet bgs) to 0.66 µg/L (at boring SG2011-2 at a depth of 6.0 feet bgs).
- Other detected VOCs were benzene, toluene, 2-butanone, chloromethane, ethylbenzene, total xylenes, and dichlorodifluoromethane. Detected concentrations of these VOCs in soil gas samples ranged from 0.0023 (for chloromethane in boring SG2011-3 at a depth of 45.5 feet bgs) to 0.10 µg/L (for total xylene in borings SG2011-2 at a depth of 14.9 feet bgs).

Soil gas analytical results are provided on Table 1. Soil gas analytical results are presented on Figure 4. Laboratory reports are provided in Appendix F.

4.2 GROUNDWATER ANALYTICAL RESULTS

Only two VOCs, Freon 11 and chloroform, were detected in discrete-depth groundwater samples:

- Freon 11 was detected in 7 of the 10 discrete-depth groundwater samples. Detected Freon 11 concentrations ranged from 11 (at borings FLBGW2012-2 at depths of 52 feet bgs and 62 feet bgs and SHBGW2012-3 at a depth of 48 feet bgs) to 29 µg/L (at boring BGW2011-3 at depth of 56 feet bgs). Freon 11 was not detected at or above the reporting limit of 10 µg/L in the remaining discrete-depth samples.

- Chloroform was detected in the sample collected from BGW2011-1 at a depth of 56 feet bgs at a concentration of 2.6 µg/L.

Freon 11 and chloroform were also the only two VOCs detected in the groundwater samples collected from the monitoring wells MW-31 and CM-10:

- Freon 11 was detected in samples collected from wells MW-31 and CM-10 at concentrations of 120 µg/L and 35 µg/L, respectively.
- Chloroform was detected at a concentration of 1.1 µg/L in the sample collected from well CM-10.

Groundwater analytical results are provided on Table 2. Groundwater analytical results are presented on Figure 5. Historical concentrations of Freon 11 and groundwater elevations in wells MW-31 and CM-10 are presented on Graphs 1 and 2, respectively. Laboratory reports are provided in Appendix F.

4.3 DATA QUALITY

4.3.1 Soil Gas Samples

Fourteen soil gas samples were collected on April 17, 2012, with one field duplicate sample. All soil gas samples were shipped under appropriate chain-of-custody protocol. All samples were analyzed within the method-specific holding time.

The calculated relative percent difference for the duplicate pair did not exceed 40 percent.

Laboratory quality assurance/quality control (QA/QC) procedures were within US EPA method specifications, and data were accepted based on the QA/QC criteria established by the US EPA including method blanks, laboratory control sample (LCS), and laboratory control sample duplicates (LCSD).

All method blanks were free of contamination.

LCS/LCSD samples were within their respective control limits with the exception of one LCS/LCSD sample. One LCS/LCSD sample with the batch number 120420L01 was detected with Freon 11 exceeding the Marginal Exceedance Control Limit. However, the allowable number of Marginal Exceedance compounds is 3 per 60 analytes, and the number of Marginal Exceedance compounds detected was one per 60 analytes. Therefore, the sample passed the LCS Marginal Exceedance Control Limit validation, so associated samples are unqualified.

The laboratory analytical QA/QC results were reviewed by OTIE's chemist. Additionally, OTIE's chemist reviewed the laboratories certification to ensure that the laboratory was certified by California Department of Public Health for the analyses for this soil gas sampling event.

4.3.2 Groundwater Samples

A total of 11 discrete-depth groundwater samples (including a duplicate) were collected during three sampling events on April 16, 2012, May 30, 2012, and June 5, 2012. Two monitoring wells were sampled on April 30, 2012.

All groundwater samples were shipped under appropriate chain-of-custody protocol at the method-specified temperature limit (4 degrees Celsius +/- 2 degrees Celsius) to Calscience. All samples were analyzed within the method-specific holding time.

Trip blanks accompanied each of the four sampling events to Calscience. No contaminants were detected in the analyzed trip blanks.

The calculated relative percent difference for the duplicate pair did not exceed 40 percent.

Laboratory QA/QC procedures were within US EPA method specifications, and data were accepted based on the QA/QC criteria established by the US EPA including method blanks, laboratory control samples and laboratory control samples duplicates. All method blanks were free of contamination. All LCS and LCSD were within their respective control limits. The laboratory analytical QA/QC results were reviewed by OTIE's chemist. Additionally, OTIE's chemist reviewed the laboratories certification to ensure that the laboratory was certified by California Department of Public Health for the analyses for these groundwater samples

5.0 DATA DISCUSSION

5.1 FREON 11 IN SOIL GAS

There are no readily available environmental screening levels (ESLs) for Freon 11 in soil gas because it has not been identified as a carcinogen (USEPA, 2012) and is generally low in toxicity (Cal/EPA 2003). Therefore, ESLs for Freon 11 in soil gas were calculated based on US EPA screening levels for commercial/industrial and residential indoor air using published attenuation factors, and on the California groundwater MCL for Freon 11 converted to a vapor concentration. Calculated ESLs are as follows:

1. Using the quotient of US EPA regional screening level for commercial/industrial air (3.1 µg/L) (US EPA 2012) and the Cal/EPA attenuation factor for future industrial air (0.0005) (Cal/EPA 2011), the calculated ESL for commercial/industrial air is 6,200 µg/L.
2. Using the quotient of US EPA regional screening level for residential air (0.730 µg/L) (US EPA 2012) and the Cal/EPA attenuation factor for future residential air (0.001) (Cal/EPA 2011), the calculated ESL for residential air is 730 µg/L.
3. The California groundwater MCL of 150 µg/L for Freon 11 was converted to an air concentration using Henry's Law, which was calculated to be 687 µg/L.

Additional information on these calculations is provided in Appendix G.

None of the Freon 11 concentrations in soil gas samples collected during this confirmatory sampling event exceed these three calculated ESLs. The highest Freon 11 concentration was 260 µg/L (encountered in a sample at boring SG2011-1 at a depth of 33.3 feet bgs),which was well below the calculated ESLs of 6,200 µg/L for commercial/industrial air, 730 µg/L for residential air, and 687 µg/L for the California groundwater MCL converted to air. In addition, there is no significant increase in concentration with depth, all concentrations are within the same order of magnitude and appear to be diffuse. This indicates that there is no significant source of Freon 11 in the vadose zone that could come into contact with groundwater when groundwater elevations increase seasonally.

5.2 FREON 11 IN GROUNDWATER

Freon 11 concentrations in all groundwater samples did not exceed the California MCL of 150 µg/L. Wells MW-31 and CM-10 have been below the California MCL since December 1999 and June 1995, respectively. The six off-Site discrete-depth groundwater samples collected on Fallbrook Avenue and Schoenborn Street were below the California MCL with the highest concentration of 15 µg/L in the sample collected at boring FLBGW2012-1 at a depth of 62 feet bgs.

Based on CPT boring profiles and boring logs for wells MW-31 and CM-10, a cross section was compiled between the Freon 11 Area and the boring SHBGW2012-3, which is approximately 270 feet east of the eastern property line of the Site (Figure 5). The cross section illustrates coarse-grained zones (primarily poorly graded sand with gravel), groundwater level, and the approximate depth of the Modelo Formation. Lithologic logs indicate that coarse-grained zones are not interconnected in the Modelo Formation as they are outside of the Formation in the vicinity of the Freon 11 Area southeast to boring SHBGW2012-3 on Schoenborn Street. Movement of dissolved phase Freon 11 is restricted in the Modelo Formation due to isolated discrete coarse-grained zones of limited lateral and vertical extent.

6.0 SUMMARY AND CONCLUSION

Soil and groundwater investigations have occurred in the Site's Southern Parcels over the course of the last 20 years. The only detected VOC in groundwater historically exceeding a California MCL was Freon 11, which is not identified as a carcinogen and is low in toxicity. Elevated concentrations were first detected in well CM-10 in the early 1990s, this was followed by an extensive soil gas investigation in 1995, which defined the Freon 11 Area in the shallow vadose zone. In 1998, a series of additional groundwater investigations defined the onsite extent of Freon 11-impacted groundwater in every direction except towards the southeast. Off-site samples collected in 2012 documented in this report, filled the data gap by defining the vertical and lateral extent of Freon 11-impacted groundwater towards the southeast.

The following lines of evidence are provided below to support an NFA status:

- Soil gas concentrations of Freon 11 in the postulated source area collected in 2012 were below all available ESLs.
- No significant increase of Freon 11 concentrations with depth was observed in soil vapor samples collected in the postulated release area down to the groundwater table. Based on calculated threshold levels, no concentration detected in soils overlying groundwater could potentially impact groundwater above MCLs in the future.
- Groundwater sampling in the Southern Parcels indicated that lateral and vertical distribution of Freon 11 is consistent with the previous site conceptual model, e.g., CM-10 is approximately centerline with the axis of Freon 11 concentration distributions, and Freon 11 concentrations are limited to shallow groundwater per the non-detect in the deeper sample collected offsite underlying Schoenborn Street.
- Concentrations of Freon 11 in samples collected from wells CM-10 and MW-31 have been below the California MCL since 1995 and 1999, respectively, quantifying that natural attenuation has been effective.
- Comparing groundwater elevations and Freon 11 concentrations in wells MW-31 and CM-10 (Graphs 1 and 2), indicate that there is no correlation between increased groundwater elevations and increased Freon 11 concentrations, the inverse is generally true (e.g., higher elevations correspond with decreased concentrations). This supports the premise that no soil "source" exists in the vadose zone that could impact future groundwater quality above MCLs.
- Off-Site groundwater sampling indicated Freon 11 concentrations attenuate significantly away from MW-31, as concentrations are at or very near the reporting limit of 10 µg/L.

From these converging lines of evidence, it is apparent that the Freon 11 concentrations do not pose a significant impact to the Site or surrounding area; therefore, Raytheon respectfully requests that NFA status be issued for APN's 2005-002-011 and 2005-002-901 and as such, authorization to abandon wells CM-10, CM-11A, CM-12, CM-15, CM-17, MW-21S, MW-21D, MW-22S, MW-22D, MW-28, MW-29, MW-30 and MW-31 be granted.

7.0 REFERENCES

California Environmental Protection Agency (Cal/EPA 2011). *Department of Toxic Substances Control. Final Guidance For The Evaluation And Mitigation Of Subsurface Vapor Intrusion To Indoor Air (Vapor Intrusion Guidance)*. October.

_____. 2003. Office of Environmental Health Hazard Assessment. *Technical Support Document: Toxicology, Clandestine Drug Labs/Methamphetamine, Volume 1, Number 11, Freon*. September 24.

_____.1997. *Pesticide and Environmental Toxicology Section, Office of Environmental Health Hazard Assessment, Cal/EPA. Public Health Goal for Trichlorofluoromethane (FC-11) in Drinking Water*. December.

Fluor Daniel GTI, Inc. (FDGTI 1998). *Additional Site Assessment Report, Vicinity of CM-10 and Buildings 265, 274, and 276, Former Raytheon Missile Systems Company Facility, 8433 Fallbrook, Canoga Park, California*. September 2.

US EPA. 2012. Integrated Risk Information System, Trichlorofluoromethane (CASRN 75-69-4). Last updated March 13. http://www.epa.gov/IRIS/subst/0120.htm.

Groundwater Technology, Inc. (GTI 1993). *Report on Pilot Testing of Remedial Technologies, Hughes Missile Systems Company, Canoga Park, California*. July 20.

_____. 1994. *Report on Facility-Wide Site Assessment, Hughes Missile Systems Company, Canoga Park, California*. January 4.

_____. 1995a. *Report on Soil Gas Surveying, Former Hughes Missile Systems Company, Canoga Park, California*. August 1.

_____. 1995b. *Additional Soil gas Surveying, Area 5, Former Hughes Missile Systems Company, Canoga Park, California*. September 21.

Groundwater Resources Consultants, Inc. (GRC 1992). *Investigation of Radioactivity in Groundwater at the Hughes Aircraft Company, Canoga Park Facility, Canoga Park, California*. January 23.

Oneida Total Integrated Enterprises, LLC. (OTIE 2009a). *Groundwater Investigation Report to Verify Current Radioactivity Conditions, Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California*. August.

_____. 2009b. *Environmental Remediation and Monitoring, Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California. Site Safety and Health Plan/Contingency Plan*. June.

McLaren/Hart, Inc. (McLaren Hart 1990). *Phase One Remedial Investigation at the Hughes Missile Systems Group Facility, Canoga Park, California*. December 14.

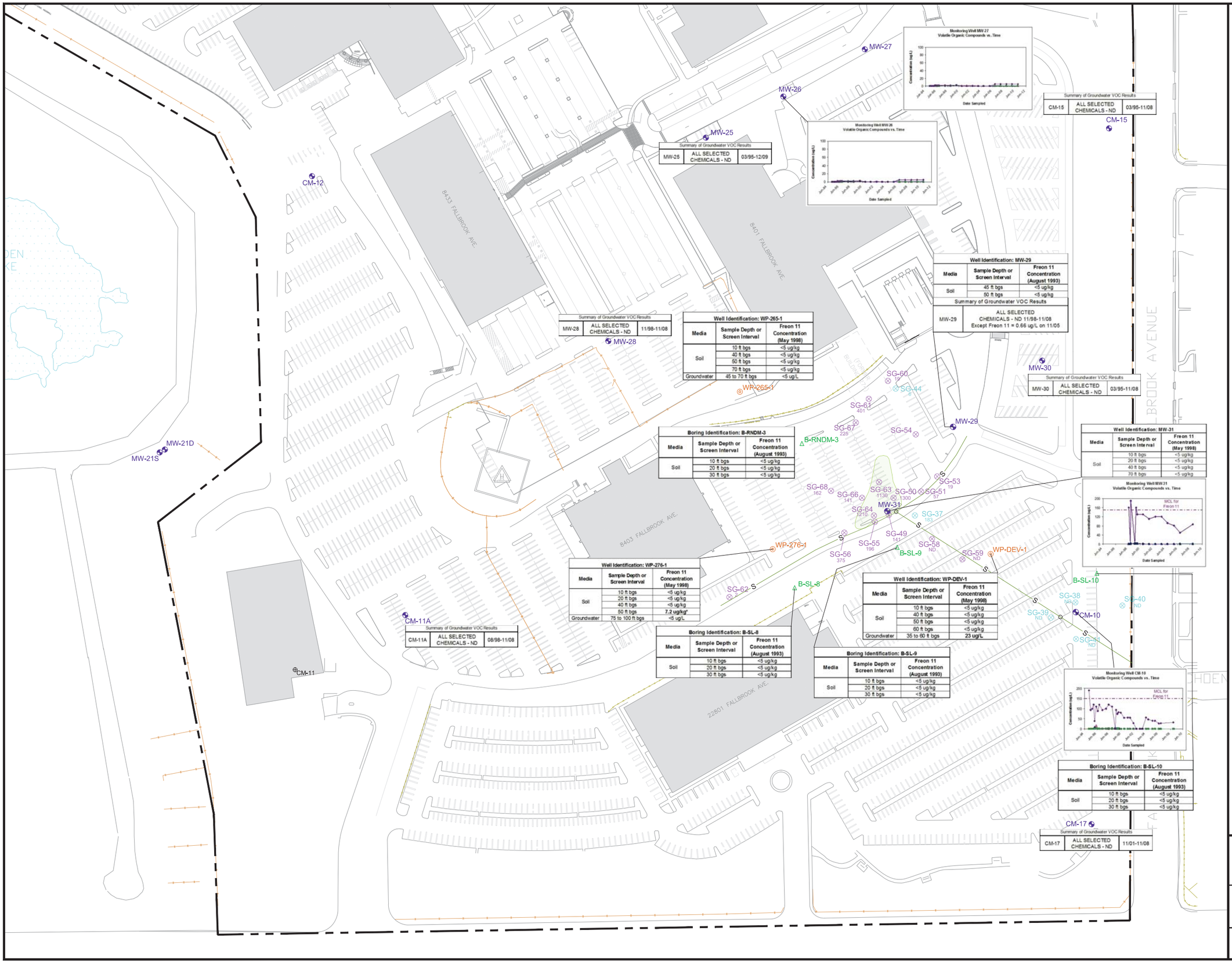
Regional Water Quality Control Board, San Francisco Region. (SFRWQCB 2007). *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final, November*. Revised May 2008.

Robertson, P. K. (Robertson 1998). *Applications Guide—CPT*. ConeTec, Inc.

United States Environmental Protection Agency. (US EPA 2012) *Region IX Regional Screening Level (RSL) Summary Table*. April.

FIGURES


SITE LOCATION
Fallbrook Avenue
Plummer St
Valley Circle Blvd
Lake Manor Dr
Alta Way
Nordhoff St
Osborne St
Roscoe Blvd
Burton St
Community St
Chase St
Eccles St
Schoenborn St
Hackney St
Lanark St
Strathern St
Arminta St
Ingomar St
Keswick St
Saticoy St
Covello St
Cohasset St
Leadwell St
Sherman Way
Gault St
Canoga Park
West Hills
WEST HILLS
Topanga Canyon Blvd
Canoga Ave
Owensmouth Ave
Lanark Park
27
Marilla St
Prairie St
Bryant St
Malden St
Chase St
Eccles St
Burton St
Cantara St
Elkwood St
Keswick St
Lull St
Covello St
Gifford St
Valerio St
Wyandotte St
Cantlay St
Sherman Way
Michale St
Bahama St
Gresham St
Londelius St
Schoenborn St
Nordhoff St
Plummer St
Itasca St
Needles St
Acorn St
Marilla St
Jordan Ave
Hanna Ave
Alabama Ave
Eton Ave
Remmet Ave
Deering Ave
Glade Ave
Sale Ave
Ponce Ave
Capistrano Ave
Sausalito Ave
Nita Ave
Rudnick Ave
Eatough Ave
Faust Ave
Mayfield Ave
McLaren Ave
Kentland Ave
Farralone Ave
Lena Ave
Ducor Ave
Quimby Ave
Sedan Ave
Bobbyboyar Ave
Atron Ave
Platt Ave
March Ave
Woodlake Ave
Royer Ave
Jason Ave
Jonathan St
Clemens Ave
Fable Ave
Nadir St
Denise Ln
Rayen St
Azul Dr
Homezell Dr
Jensen Dr
Valley Circle Blvd
Thompson Ave
Ventura Way
County Line Rd
Chaparral Rd
Leota Ln
Box Ca
Andora
Baden Ave
Nevada Ave
Vassar Ave
N Summit Ridge Cir
Plummer
Hanna Ave
Jordan Ave
Prairie St
Alabama Ave
Canoga Ave
Eton Ave
Owensmouth Ave
Bryant St
Malden St
Chase St
Eccles St
Schoenborn St
Hackney St
Topanga Canyon Blvd
Lanark St
Lanark Park
Remmet Ave
Canoga Ave
Arminta St
Alabama Ave
Elkwood St
Owensmouth Ave
Deering Ave
Glade Ave
Covello St
Cohasset St
Gifford St
Valerio St
Leadwell St
Wyandotte St
Cantlay St
Canoga Park
Eton Ave
Sherman Way
Gault St
Milwood Ave
Michale St
Faust Ave
Ponce Ave
Capistrano Ave
Rudnick Ave
Eatough Ave
Hanna Ave
Chase St
Eccles St
Schoenborn St
Hackney St
Fallbrook Avenue
Roscoe Blvd
Burton St
Cantara St
Lanark St
Baltar St
Strathern St
Arminta St
Ingomar St
Keswick St
Lull St
Saticoy St
Covello St
Cohasset St
Leadwell St
Sherman Way
West Hills
WEST HILLS
Topanga Canyon Blvd
Canoga Ave
Owensmouth Ave
Lanark Park
27
Jason Ave
Jonathan St
Clemens Ave
Fable Ave
Nadir St
Community St
Chase St
Denise Ln
Rayen St
Azul Dr
Homezell Dr
Jensen Dr
Valley Circle Blvd
Thompson Ave
Ventura Way
County Line Rd
Chaparral Rd
Leota Ln
Box Ca
Andora
Baden Ave
Needles St
Acorn St
Nevada Ave
Vassar Ave
Itasca St
Plummer St
N Summit Ridge Cir
Plummer
Hanna Ave
Jordan Ave
Prairie St
Alabama Ave
Canoga Ave
Eton Ave
Nordhoff St
Osborne St
Bahama St
Gresham St
Londelius St



Legend

- Property Line
- MW-# / CM-#: Groundwater Monitoring Well
- MW-# / CM-#: Abandoned Groundwater Monitoring Well
- B-#: Soil Boring Location, 1993
- SG-# 183: Soil Gas Sample Point at approximately 5 ft bgs, June 1995 with Freon 11 Concentration (ug/L)
- SG-# 1300: Soil Gas Sample Point at approximately 5 ft bgs, August 1995 with Freon 11 Concentration (ug/L)
- WP-#: Temporary Well Location, 1998
- Freon 11 Area (>1,000 ug/L in soil gas)

Graph Legend

- Benzene
- Chloroform
- 1,1-Dichloroethane (1,1-DCA)
- 1,2-Dichloroethane (1,2-DCA)
- Tetrachloroethene (PCE)
- 1,1-Dichloroethene (1,1-DCE)
- 1,1,1-Trichloroethane (TCA)
- Toluene
- Trichloroethene (TCE)
- Trichlorofluoromethane (Freon-11)

Regional Screening Levels (RSLs)				
Resident Soil (Freon 11)	Ingestion Screening Level	Dermal Screening Level	Inhalation Screening Level	Noncarcinogenic Screening Level
	23,000 mg/kg	--	810 mg/kg	790 mg/kg
Protection of Groundwater (Freon 11)	Risk-based Soil Screening Level		MCL-based Soil Screening Level	
	0.83 mg/kg		0.83 mg/kg	

California Maximum Contaminant Levels (MCLs)	
Chemical	MCL (ug/L)
Tetrachloroethene	5
Trichloroethene	5
cis-1,2-Dichloroethene	6
1,1-Dichloroethene	5
1,2-Dichloroethane	0.5
1,1-Dichloroethene	6
Trichlorofluoromethane	150

Notes

1.) "ug/L" = micrograms per liter; "ug/kg" = micrograms per kilogram; "ND" = not detected above the laboratory reporting limits; "ft bgs" = feet below ground surface; "S" = sewer line; "mg/kg" = milligrams per kilograms; "vs" = versus.

2.) Non-detected values graphed as half the detection limit.

3.) Freon 11 Area approximated from previous report (GTI 1995b).

4.) Locations of 1993 soil borings, 1995 soil gas sample, and 4998 temporary wells are approximated from previous reports (GTI 1994; GTI 1995a; GTI 1995b; and Fluor Daniel GTI 1998).

5.) *The Freon 11 detection in the soil sample collected at 50 ft bgs at boring WP-276-1 is likely due to groundwater, as it was a saturated soil sample.

Approximate Scale in Feet

0 100 200 300

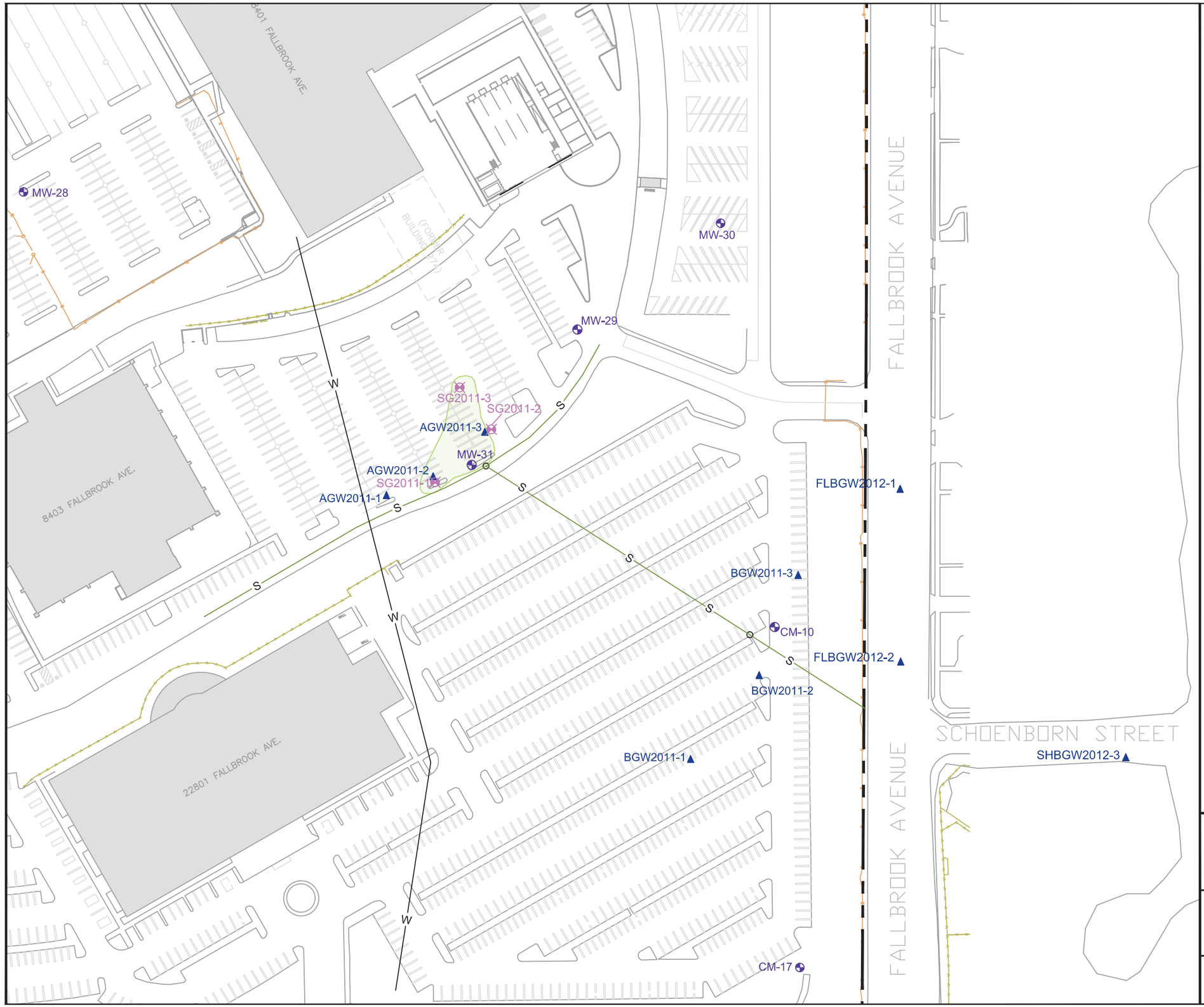
Figure 2
Previous Southern Parcels Assessment and Historical VOC Results

Former Canoga Park Facility
8433 Fallbrook Avenue
Canoga Park, California

OTIE Orlando Total Integrated Enterprises

Date: July 11, 2011

File: Freon11Figs.dwg



Legend

- Property Line
- MW-# / CM-# — Groundwater Monitoring Well
- NGW2011-# — Discrete-Depth Groundwater Boring
- SG2011-# — Soil Gas Boring
- Approximate Freon 11 Area (>1,000 ug/L in soil gas), 1998

Notes

1.) "S" = Sewer line; "ug/L" = micrograms per liter; "Freon 11" = trichloroflouromethane.

2.) Freon 11 Area from previous report (Fluor Dainel GTI 1998).

N
W E
S

Approximate Scale in Feet

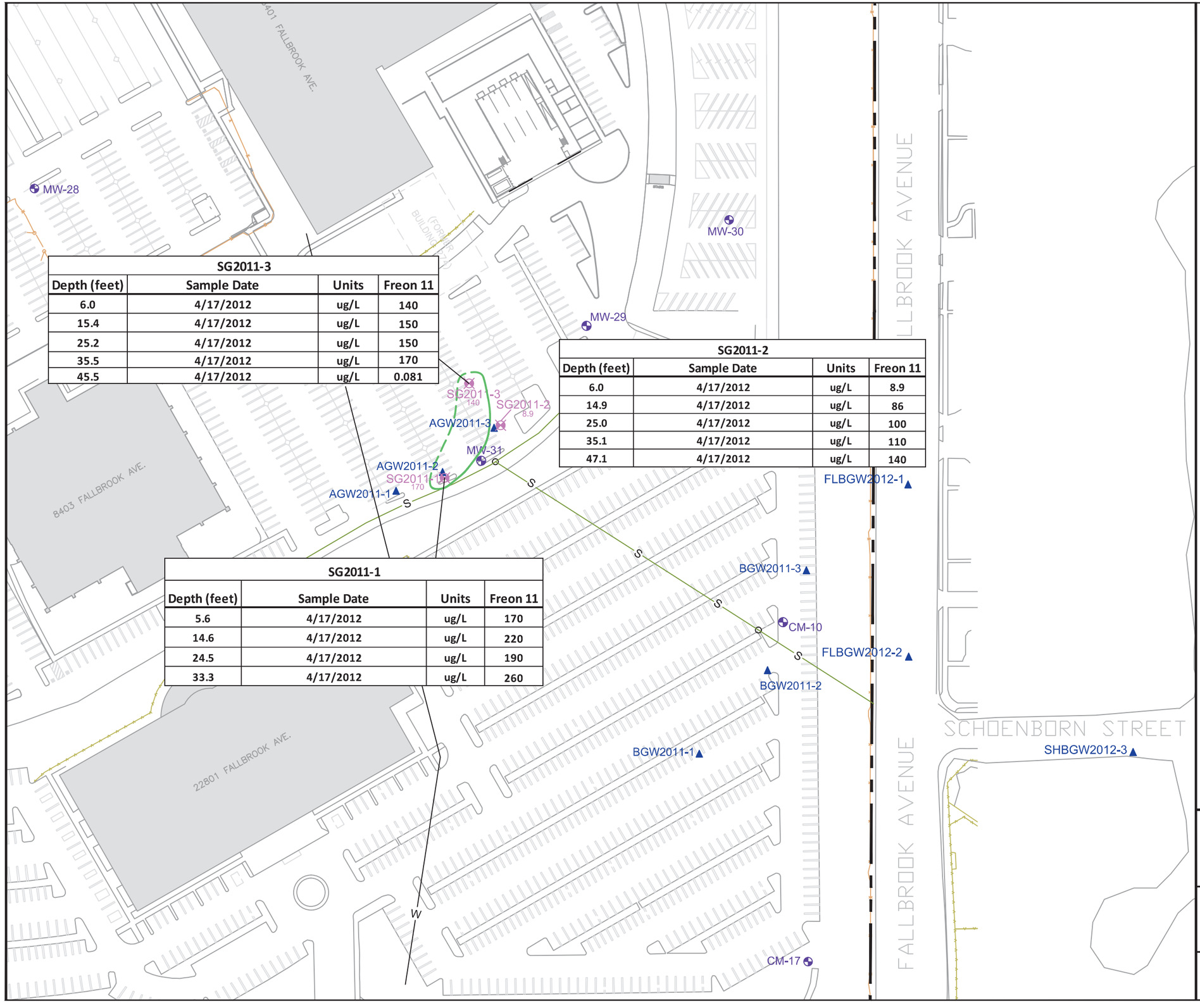
0 100 200

Figure 3
Sampling Locations

Former Canoga Park Facility
8433 Fallbrook Ave, Canoga Park, California

OTIE
Oneida Total Integrated Enterprises

Date: July 11, 2011
File: Freon11_location.dwg



SG2011-3			
Depth (feet)	Sample Date	Units	Freon 11
6.0	4/17/2012	ug/L	140
15.4	4/17/2012	ug/L	150
25.2	4/17/2012	ug/L	150
35.5	4/17/2012	ug/L	170
45.5	4/17/2012	ug/L	0.081

SG2011-2			
Depth (feet)	Sample Date	Units	Freon 11
6.0	4/17/2012	ug/L	8.9
14.9	4/17/2012	ug/L	86
25.0	4/17/2012	ug/L	100
35.1	4/17/2012	ug/L	110
47.1	4/17/2012	ug/L	140

SG2011-1			
Depth (feet)	Sample Date	Units	Freon 11
5.6	4/17/2012	ug/L	170
14.6	4/17/2012	ug/L	220
24.5	4/17/2012	ug/L	190
33.3	4/17/2012	ug/L	260

Legend

- Property Line
- MW-# / CM-# — Groundwater Monitoring Well
- NGW2011-# — Discrete-Depth Groundwater Boring
- SG2011-# — Soil Gas Boring
- Approximate 100 ug/L contour for Freon 11 in Shallow Soil Gas dated 2012

Notes

1.) "S" = Sewer line; "ug/L" = micrograms per liter; "Freon 11" = trichloroflouromethane.

2.) Only the shallowest sample analytical result at each boring was used in contouring 100 ug/L soil gas data.

N W E S

Approximate Scale in Feet

0 100 200

Figure 4
Soil Gas Analytical Results for Freon 11

Former Canoga Park Facility
8433 Fallbrook Ave, Canoga Park, California

OTIE
Oneida Total Integrated Enterprises

Date: July 11, 2012

File: Freon11_location.dwg

8401 FALLBROOK AVE. (FORMER BUILDING 265)

8403 FALLBROOK AVE. (FORMER BUILDING 276)

22801 FALLBROOK AVE.

FALLBROOK AVENUE

SCHOENBORN STREET

MW-28

MW-30

MW-30			
Screen Interval (feet)	Sample Date	Units	Freon 11
28 - 58	11/21/2008	ug/L	<10

MW-29

MW-29			
Screen Interval (feet)	Sample Date	Units	Freon 11
35 - 65	11/20/2008	ug/L	<10

SG2011-3

SG2011-2

AGW2011-3

MW-31

AGW2011-2

SG2011-1

AGW2011-1

100 ug/L

75 ug/L

BGW2011-3

BGW2011-3			
Depth (feet)	Sample Date	Units	Freon 11
56	4/18/2012	ug/L	29
72	4/18/2012	ug/L	28

FLBGW2012-1

FLBGW2012-1			
Depth (feet)	Sample Date	Units	Freon 11
50	6/5/2012	ug/L	12
64	6/5/2012	ug/L	15

CM-10

CM-10			
Screen Interval (feet)	Sample Date	Units	Freon 11
34 - 52	4/30/2012	ug/L	35

FLBGW2012-2

FLBGW2012-2			
Depth (feet)	Sample Date	Units	Freon 11
52	6/5/2012	ug/L	11
62	6/5/2012	ug/L	11

MW-31

MW-31			
Screen Interval (feet)	Sample Date	Units	Freon 11
45 - 72	4/30/2012	ug/L	120

BGW2011-2

BGW2011-2			
Depth (feet)	Sample Date	Units	Freon 11
56	4/18/2012	ug/L	<10

BGW2011-1

BGW2011-1			
Depth (feet)	Sample Date	Units	Freon 11
56	4/18/2012	ug/L	<10

SHBGW2012-3

SHBGW2012-3			
Depth (feet)	Sample Date	Units	Freon 11
48	5/30/2012	ug/L	11
60	5/30/2012	ug/L	<10

CM-17

Legend

- Property Line
- MW-# / CM-# — Groundwater Monitoring Well
- NGW2011-# — Discrete-Depth Groundwater Boring
- SG2011-# — Soil Gas Boring
- Approximate Freon 11 Area (>1,000 ug/L in soil gas), 1998

Notes

1.) "S" = Sewer line; "ug/L" = micrograms per liter; "Freon 11" = trichloroflouromethane.

2.) Freon 11 area defined as Freon 11 concentrations > 1,000 ug/L in soil gas from previous report (Fluor Daniel GTI 1998).

3.) Freon 11 MCL = 150 ug/L.

4.) Freon 11 groundwater contour represents current and historical concentrations.

N W E S

Approximate Scale in Feet

0 100 200

Figure 5
Discrete-Depth Groundwater Analytical Results for Freon 11

Former Canoga Park Facility
8433 Fallbrook Ave, Canoga Park, California

OTIE Oneida Total Integrated Enterprises

Date: July 19, 2012

File: Freon11_location.dwg

A WEST

A' EAST

AGW2011-1 (93' NE)
AGW2011-2 (50' NE)
AGW2011-3 (30' SW)
MW-31
BGW2011-3 (80' SW)
CM-10 (20' SW)
BGW2011-1 (140' NE)
BGW2011-2 (30' NE)
FLBGW2012-2 (60' SW)
SHBGW2012-3 (100' SW)

ELEV. / DEPTH

865' 0'
855' 10'
845' 20'
835' 30'
825' 40'
815' 50'
805' 60'
795' 70'
785' 80'
775' 90'
765' 100'

Modelo Fm

?

170 8.9
220 86
190 100
260 110
140
120
35
29 <10 <10
11
28 11
<10
11

Cross-Section Legend

CPT Boring

2.2 — Freon 11 Soil Vapor Concentration in micrograms per liter

Monitoring Well

29 — Freon 11 Groundwater Concentration

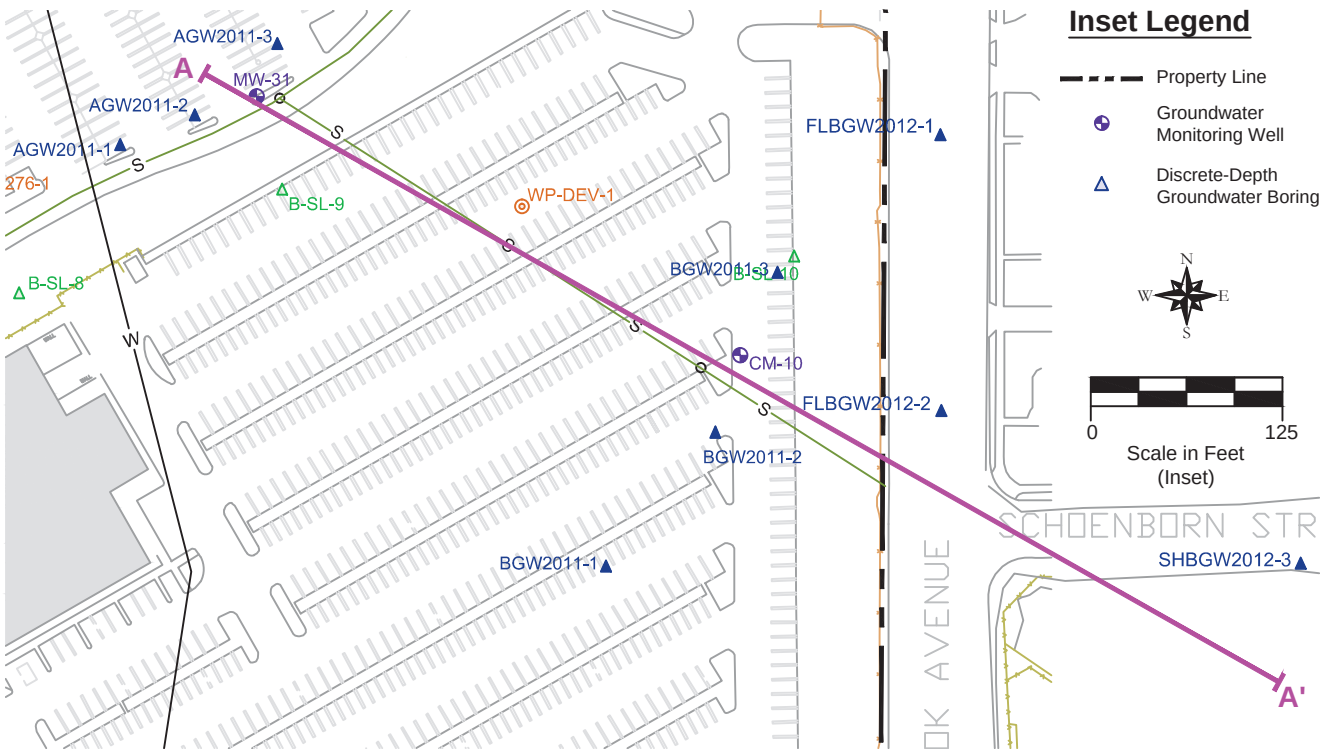
Screened Interval

Poorly Graded Sands (SP, SM, SC) with Gravel
* All other sediment encountered were fine grained.

Primarily Fine Grained (ML, CL) Material and the Modelo Formation

Groundwater Elevation (4/30/12)

Modelo Formation
* Demarcated in the boring log for well CM-10, and inferred to the northwest and southeast.



Inset Legend

Property Line

Groundwater Monitoring Well

Discrete-Depth Groundwater Boring

N W E S

0 125

Scale in Feet (Inset)

10' 5' 0' 100' 200'

Scale in Feet (Cross Section)

Figure 6
Cross Section A - A'

Former Canoga Park Facility
8433 Fallbrook Ave, Canoga Park, California

OTIE
Oneida Total Integrated Enterprises

Date: July 19, 2012

File: Freon11_location.dwg

TABLES

Table 1
Summary of Soil Gas Sample Results
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California

Analyte:					Acetone	Benzene	2-Butanone	Chloromethane	Ethybenzene	Total Xylenes	Tetrachloroethene	Toluene	Trichlorofluoromethane	Dichlorodifluoromethane	1,1,2-Trichloro-1,2,2-Trifluoroethane
SFRWQCB ESLs Commercial/Industrial (ug/L):					**1,800**	**280**	**2,900**	**53**	**3**	**58**	**1**	**180**	**6,200***	**NE**	**NE**
SFRWQCB ESLs Residential (ug/L):					**660**	**84**	**1,000**	**19**	**0.98**	**21**	**0.41**	**63**	**730***	**NE**	**NE**
CA MCL Converted to Soil Gas (ug/L):					--	--	--	--	--	--	--	--	**687****	--	--
Well ID	**Depth (feet)**	**Sample Date**	**Method**	**Units**											
SG2011-1	**5.6**	**4/17/2012**	**EPA TO-15**	**ug/L**	**0.30**	**0.029**	<0.055	<0.013	<0.027	<0.137	**0.14**	<0.024	**170**	<0.031	**0.55**
SG2011-1	**14.6**	**4/17/2012**	**EPA TO-15**	**ug/L**	<0.190	<0.064	<0.180	<0.041	<0.087	<0.437	**0.21**	<0.075	**220**	<0.099	<0.460
SG2011-1	**24.5**	**4/17/2012**	**EPA TO-15**	**ug/L**	<0.059	<0.020	<0.055	<0.013	<0.027	<0.137	**0.47**	**0.04**	**190**	<0.031	**0.60**
SG2011-1	**33.3**	**4/17/2012**	**EPA TO-15**	**ug/L**	<0.076	**0.046**	<0.071	<0.017	**0.043**	<0.175	**0.78**	**0.071**	**260**	<0.040	**0.67**
	33.3 (dup)	**4/17/2012**	**EPA TO-15**	**ug/L**	**0.38**	**0.031**	<0.055	<0.013	<0.027	<0.137	**0.61**	**0.049**	**220**	<0.031	**0.55**
SG2011-2	**6.0**	**4/17/2012**	**EPA TO-15**	**ug/L**	**0.66**	<0.026	<0.071	<0.017	<0.035	<0.175	**0.095**	<0.030	**8.9**	<0.040	<0.180
SG2011-2	**14.9**	**4/17/2012**	**EPA TO-15**	**ug/L**	**0.39**	**0.074**	<0.035	<0.0083	**0.074**	**0.10**	**0.57**	<0.015	**86**	<0.020	**0.36**
SG2011-2	**25.0**	**4/17/2012**	**EPA TO-15**	**ug/L**	**0.40**	**0.041**	<0.071	<0.017	<0.035	<0.175	**0.39**	**0.079**	**100**	<0.040	**0.40**
SG2011-2	**35.1**	**4/17/2012**	**EPA TO-15**	**ug/L**	**0.46**	<0.020	<0.055	<0.013	<0.027	<0.137	**0.51**	<0.024	**110**	<0.031	**0.33**
SG2011-2	**47.1**	**4/17/2012**	**EPA TO-15**	**ug/L**	**0.35**	**0.041**	<0.071	<0.017	<0.035	<0.175	**0.64**	**0.073**	**140**	<0.040	**0.44**
SG2011-3	**6.0**	**4/17/2012**	**EPA TO-15**	**ug/L**	**0.39**	**0.064**	<0.071	<0.017	<0.035	<0.175	**0.25**	**0.071**	**140**	<0.040	**0.77**
SG2011-3	**15.4**	**4/17/2012**	**EPA TO-15**	**ug/L**	**0.20**	**0.077**	**0.044**	<0.0083	<0.017	<0.086	**0.48**	**0.021**	**150**	**0.028**	**0.84**
SG2011-3	**25.2**	**4/17/2012**	**EPA TO-15**	**ug/L**	**0.17**	**0.072**	<0.071	<0.017	<0.035	<0.175	**0.35**	<0.030	**150**	<0.040	**0.76**
SG2011-3	**35.5**	**4/17/2012**	**EPA TO-15**	**ug/L**	**0.20**	**0.063**	<0.088	<0.021	<0.043	<0.173	**0.27**	**0.084**	**170**	<0.049	**0.80**
SG2011-3	**45.5**	**4/17/2012**	**EPA TO-15**	**ug/L**	**0.42**	<0.0016	**0.031**	**0.0023**	<0.0022	<0.0109	<0.0034	**0.0027**	**0.081**	**0.0034**	<0.011

NOTES:

1) Trichlorofluoromethane = Freon 11

2) **Bolded** results indicate positive detections

3) ug/L = micrograms per liter

4) SFRWQCB ESLs = Environmental screening levels (ESLs) established by Regional Water Quality Control Board, San Francisco Region (SFRWQCB), in their Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Table E, Interim Final (SFRWQCB, 2007) for Indoor Air and Soil Gas Screening Levels (Vapor Intrusion Concerns), which are converted from parts per billion volume to micrograms per cubic meter.

5) Duplicate sample was collected at SG2011-1-33.3 was identified as SG2011-1A-33.3 . Identified as "dup" in depth column of table.

6) Total Xylenes is the summation of both orthoxylene and para/metaxylenes.

7) NE = not established.

8) *The Freon 11 ESL is based on the quotient of United States Environmental Protection Agency's Regional Screening Levels for industrial air (3.1 ug/L) and residential air (0.730 ug/L) dated April 2012 and California Environmental Protection Agency's Attenuation Factor for future industrial air (0.0005) and future residential air (0.001) dated October 2011 (refer to Appendix G for additional information on conversion).

9) **CA MCL Converted to Air was determined using Henry's Law to convert the California groundwater MCL of 150 ug/L to an air concentration (refer to Appendix G for additional information on conversion).

Table 2
Summary of Groundwater Analytical Results
Former Canoga Park Facility,8433 Fallbrook Avenue, Canoga Park, California

				Analyte:	**Trichlorofluoromethane**
				CA MCL (ug/L):	**150**
Identification	Depth (feet)	Sample Date	Units	Method	
BGW2011-1	56.0	4/16/2012	ug/L	EPA 8260B	<10
BGW2011-2	56.0	4/16/2012	ug/L	EPA 8260B	<10
BGW2011-3	56.0	4/16/2012	ug/L	EPA 8260B	**29**
	72.0	4/16/2012	ug/L	EPA 8260B	**28**
FLBGW2012-1	50	6/5/2012	ug/L	EPA 8260B	**12**
	64	6/5/2012	ug/L	EPA 8260B	**15**
FLBGW2012-2	52	6/5/2012	ug/L	EPA 8260B	**11**
	62	6/5/2012	ug/L	EPA 8260B	**11**
SHBGW2012-3	48	5/30/2012	ug/L	EPA 8260B	**11**
	60	5/30/2012	ug/L	EPA 8260B	<10
	60 (dup)	5/30/2012	ug/L	EPA 8260B	<10
MW-31	45 - 72	4/30/2012	ug/L	EPA 8260B	**120**
CM-10	34 - 52	4/30/2012	ug/L	EPA 8260B	**35**

NOTES:

1) **Bolded** results indicate positive detections

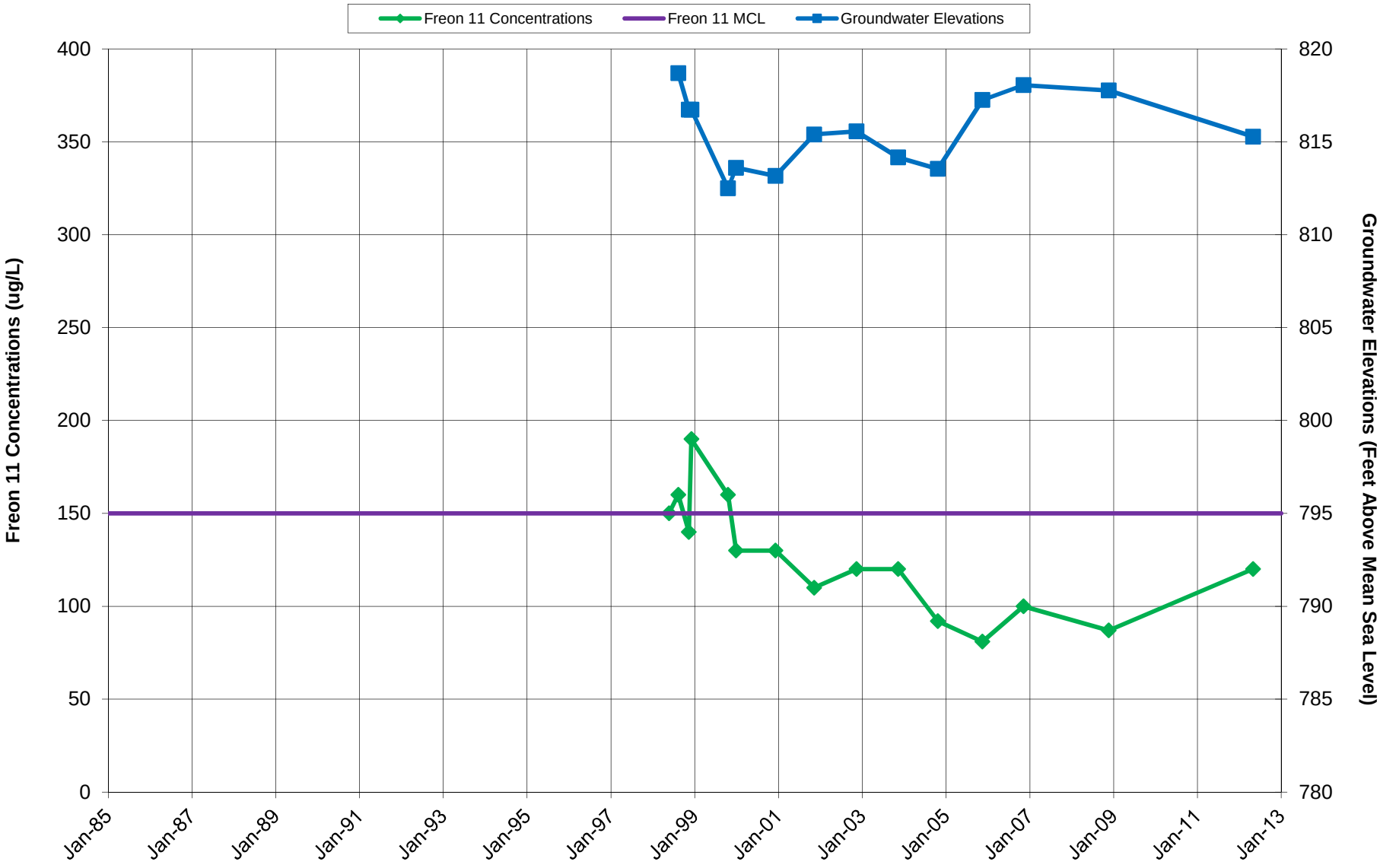
2) ug/L = micrograms per liter

3) Duplicate sample was collected at SHBGW2012-3-60 was identified as SHGBW2012-3A-60 . Identified as "dup" in depth column of table.

4) Chloroform was detected in BGW2011-1 and CM-10 at concentrations of 2.6 ug/L and 1.1 ug/L, respectively.

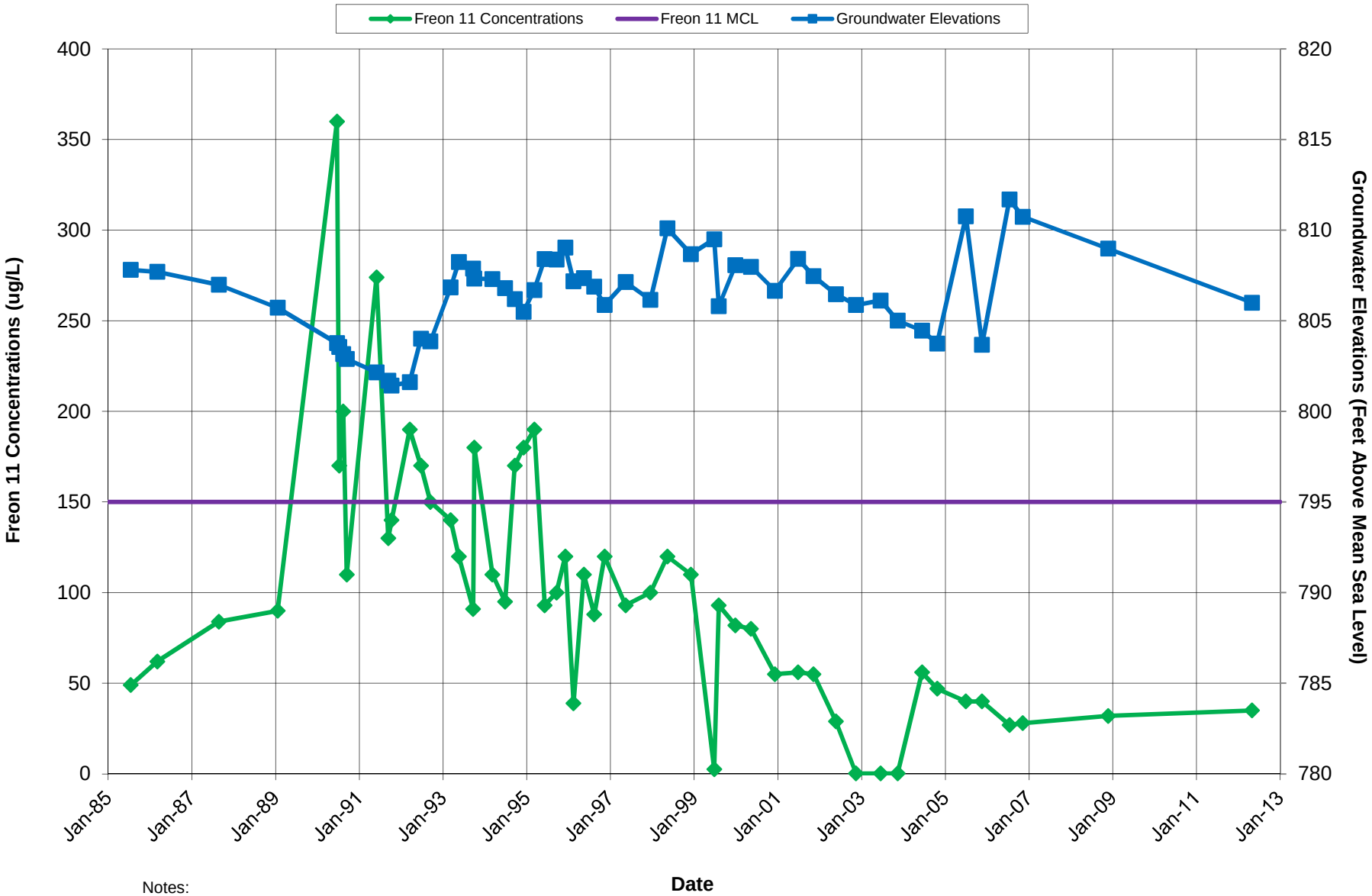
GRAPHS

Graph 1: Freon 11 Concentrations and Groundwater Elevations vs. Time
Monitoring Well MW-31
Former Raytheon Canoga Park Facility, California



Notes:
1) ug/L = micrograms per liter; MCL = maximum contaminant level; vs. = versus; Freon 11 = trichlorofluoromethane

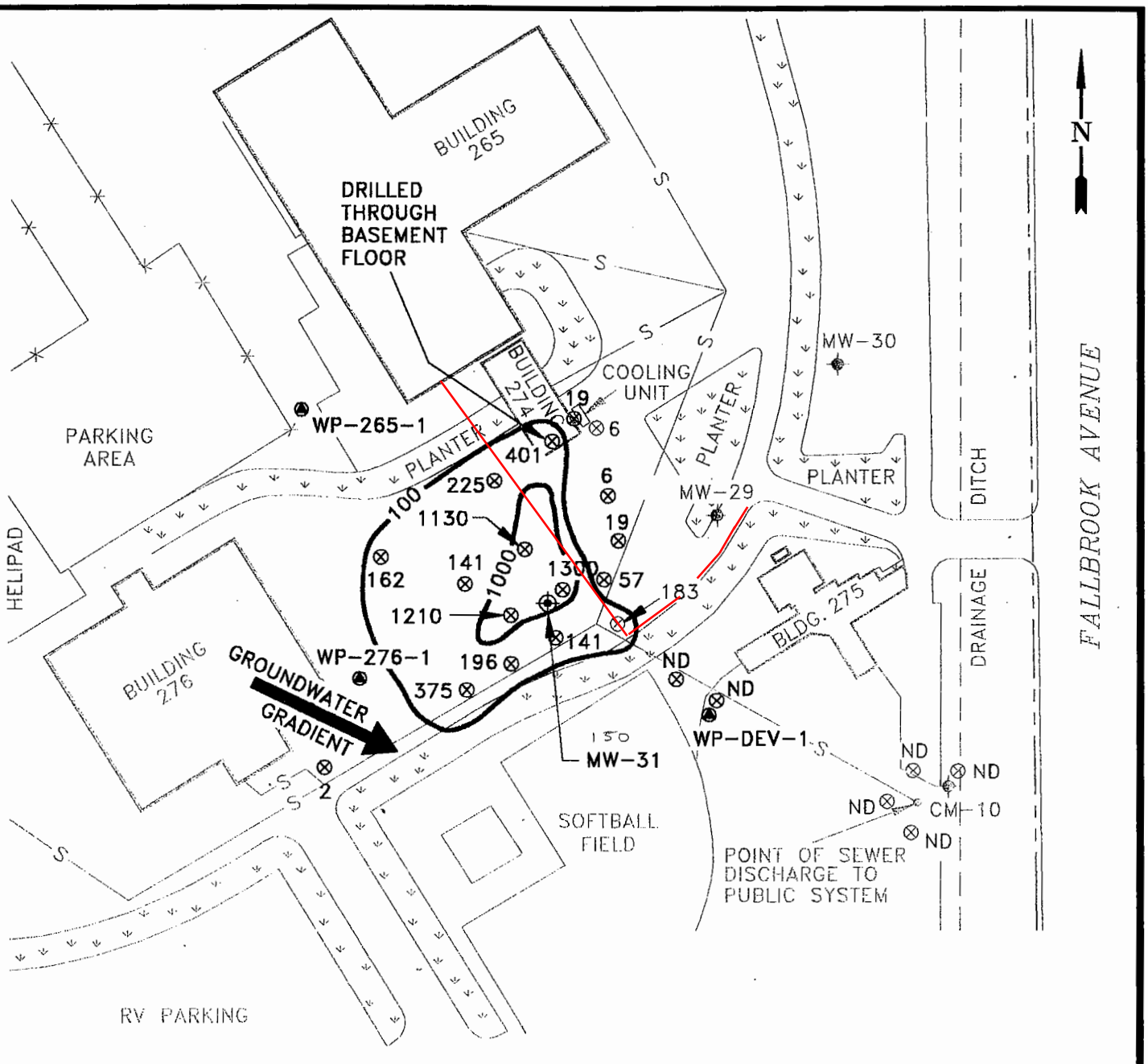
Graph 2: Freon 11 Concentrations and Groundwater Elevations vs. Time
Monitoring Well CM-10
Former Raytheon Canoga Park Facility, California



Notes:
1) ug/L = micrograms per liter; MCL = maximum contaminant level; vs. = versus; Freon 11 = trichlorofluoromethane

APPENDIX A

Historical Soil Gas Data (GTI 1998)



LEGEND

—S—	SEWER LINE
⊗	SOIL GAS POINT, JUNE 1995
⊗	SOIL GAS POINT, AUGUST 1995
162	FREON 11 CONCENTRATION (µg/l)
ND	NOT DETECTED (<1 µg/l)
~	FREON 11 ISOCON (µg/l)
⊕	MONITORING WELL
⊕	NEW MONITORING WELL LOCATION
▲	TEMPORARY WELL SAMPLING LOCATION
—	EDGE OF ORIGINAL PAVEMENT

FLUOR DANIEL GTI

0 FEET 150
APPROXIMATE

Freon-11 Concentrations in Soil Gas with Respect to Original Paved Area

CLIENT: RAYTHEON MISSILE SYSTEM CO.	FILE: 102599-3 (1:1800)	PROJECT NO.: 102599		PM	PE/RG
	REV.				
LOCATION: 8433 FALLBROOK AVENUE CANOGA PARK, CALIFORNIA	DES. RB	DET. SWL	DATE: 8/28/98	FIGURE: 16	

APPENDIX B

Regulatory Correspondence

California Regional Water Quality Control Board

Los Angeles Region

Recipient of the 2001 *Environmental Leadership Award* from Keep California Beautiful

Linda S. Adams
Agency Secretary

Arnold Schwarzenegger
Governor

320 W. 4th Street, Suite 200, Los Angeles, California 90013
Phone (213) 576-6600 FAX (213) 576-6640 - Internet Address: http://www.waterboards.ca.gov/losangeles

January 22, 2007

Ms. Jean Roberts, Manager
Safety, Health, Environmental Affairs
Raytheon Company
P.O. Box 11337
Tucson, AZ 85834-1337

Dear Ms. Roberts:

REVISED MONITORING AND REPORTING PROGRAM NO. CI-7483 – RAYTHEON SYSTEMS COMPANY (FORMER HUGHES MISSILE SYSTEM COMPANY), 8433 FALLBROOK AVENUE, CANOGA PARK, CALIFORNIA (SLIC NO. 0693, SITE ID NO. 2043T00)

On January 23, 1995, the Los Angeles Regional Water Quality Control Board (Regional Board) adopted a site specific Waste Discharge Requirements Order No. 95-012 to discharge treated groundwater to an existing onsite landscape irrigation system at the above-referenced site. On August 26, 1997, the Regional Board revised the monitoring and sampling requirements.

On July 27, 2006, Mr. Jacques Marcillac of T N & Associates, Inc., on your behalf, requested a modification of the Monitoring and Reporting Program (MRP) No. CI-7483 as follows:

1. Monitoring data indicated that several wells have been consistently below Maximum Contaminant Levels or non-detect for several years for volatile organic compounds; and concentrations of trichlorofluoromethane in groundwater have decreased over the last six years. Therefore, remove nine groundwater monitoring wells, CM-10, CM-11A, CM-12, CM-15, CM-17, MW-28, MW-29, MW-30, and MW-31, from the monitoring program, and
2. Perform semi-annual basis on site-wide gauging instead of quarterly.

Based on our review of the information submitted, the Regional Board approved change of Monitoring and Reporting Program No. CI-7483 as you requested. All monitoring reports shall be sent to the Regional Board, ATTN: Information Technology Unit. When submitting monitoring or technical reports to the Regional Board per these requirements, please include a reference to "Compliance File No. CI-7483", which will assure that the reports are directed to the appropriate file and staff. Submit each type of report as a separate document. Please do not combine other reports with your monitoring reports.

Should you have any questions, please contact Ms. Thizar Tintut-Williams at (213) 576-6723.

Sincerely,

for David A. Bacharowski, AEO
Jonathan S. Bishop
Executive Officer

cc: see List

List

Mr. Mike Floyd, Division of Water Quality, State Water Resources Control Board
Mr. Bernard Franklin, Department of Health Services, County of Los Angeles
Mr. Timothy Garvey, TN & Associates, Inc.
Mr. Jacques Marcillac, TN & Associates, Inc.

/ttw

California Regional Water Quality Control Board

Los Angeles Region

Linda S. Adams
Agency Secretary

Recipient of the 2001 *Environmental Leadership Award* from Keep California Beautiful

Arnold Schwarzenegger
Governor

320 W. 4th Street, Suite 200, Los Angeles, California 90013
Phone (213) 576-6600 FAX (213) 576-6640 - Internet Address: http://www.waterboards.ca.gov/losangeles

January 26, 2007

Ms. Jean Roberts, Manager
Safety, Health, Environmental Affairs
Raytheon Company
P.O. Box 11337
Tucson, AZ 85834-1337

Dear Ms. Roberts:

REQUEST TO ABANDON SELECTED GROUNDWATER MONITORING WELLS – RAYTHEON SYSTEMS COMPANY (FORMER HUGHES MISSILE SYSTEM COMPANY), 8433 FALLBROOK AVENUE, CANOGA PARK, CALIFORNIA (SLIC NO. 0693, SITE ID NO. 2043T00)

The Los Angeles Water Quality Control Board (Regional Board) staff received and reviewed, *Request for Interim Shutdown of the Groundwater Recovery and Treatment System (GRTS), Modification to M&RP No. 7483 and Request for No Further Action for Southern Parcels, Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California, Compliance File No. CI-8567*, dated June 28, 2006, prepared by TN & Associates, Inc. on your behalf, for the above-referenced location (Site). In the letter, you also requested to abandon some groundwater monitoring wells.

Please note that in this letter, the Regional Board is responding to your request for abandoning groundwater monitoring wells only; and the Regional Board have responded or will be responding to the others in a separate letter(s) upon completion of the reviews.

Raytheon began operating the GRTS in 1995 under Waste Discharge Requirements (WDR) Order No. 95-012, and Monitoring and Reporting Program (MRP) No. CI-7483. The system was shut down in 1998 to accommodate redevelopment activities at the Site. The GRTS was re-started in 1995 until recently shut down in April 2006 due to low influent volatile organic compounds (VOCs) levels and higher sulfate levels as required in the WDR. In September 2003, a pilot test was performed to assess the potential for EISB to further remediate the VOC concentrations in groundwater. This pilot test included the injection of lactic acid, and based on the EISB pilot test results, Raytheon implemented a full-scale EISB program to accelerate degradation of chlorinated ethenes in shallow groundwater. This program is being performed under the WDR Order No. R4-2005-0030, MRP No. CI-8947. Soil Vapor Extraction (SVE) and air sparge (AS) systems were also used for remediation on site, and they were shut down in 2005 to prepare for the implementation of an enhanced in-situ bioremediation (EISB) program. On January 25, 2007, the Regional Board approved an interim shut-down of GRTS and required that the GRTS system remains in operational condition to be used as a contingency measure if it is found that the EISB program is not effective.

Raytheon requests to abandon groundwater wells, CM-2, CM-3, CM-4, CM-7, CM-8, CM-9, MW-21S, MW-21D, MW-22S, MW-22D, VE-2, and VE-3 because they were either installed too shallow and are always dry, were installed at distal locations not down gradient from any existing plumes or were pilot test wells.

Based on our review of the information submitted, we approve your request to abandon the groundwater wells, CM-2, CM-3, CM-4, CM-7, CM-8, CM-9, VE-2, and VE-3. However, the groundwater monitoring wells, MW-21S, MW-21D, MW-22S, and MW-22D, shall remain on-site and continue to monitor annually until our review of your request for "No-Further Action" for Southern Parcels is complete.

Please follow the proper well abandonment procedures as stated in Department of Water Resources Bulletin 74-90. You are required to submit a well abandonment report to the Regional Board sixty-days after completing the proper abandonment procedures for the above referenced wells in the area.

Should you have any questions, please contact Thizar Tintut-Williams at (213) 576-6723.

Sincerely,

for David A. Bacharowski, AEO
Jonathan S. Bishop
Executive Officer

/ttw

cc: Ms. Heather Collins – California Department of Health Services
Mr. Chris Nagler, WaterMaster, California Department of Water Resources
Mr. Bernard Franklin, Los Angeles County, Department of Public Health
Mr. Hoover Ng, Water Replenishment District- Southern California
Mr. Timothy Garvey, TN & Associates, Inc.
Mr. Jacques Marcillac, TN & Associates, Inc.

California Regional Water Quality Control Board

Los Angeles Region

Linda S. Adams
Cal/EPA Secretary

320 W. 4th Street, Suite 200, Los Angeles, California 90013
Phone (213) 576-6600 FAX (213) 576-6640 - Internet Address: http://www.waterboards.ca.gov/losangeles

Arnold Schwarzenegger
Governor

October 30, 2009

Mr. Daniel S. Samorano
Raytheon Company
1151 East Hermans Road
TU, Bldg 826
Tucson, AZ 85706

NO FURTHER ACTION FOR RADIOACTIVITY ANALYSES IN GROUNDWATER PURSUANT TO CALIFORNIA WATER CODE SECTION 13267 ORDER – RAYTHEON COMPANY (FORMER HUGHES MISSILE SYSTEMS COMPANY), 8433 FALLBROOK AVENUE, CANOGA PARK, CALIFORNIA 91304
(SCP NO. 0693, SITE ID NO. 2043T00)

Dear Mr. Samorano:

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) is the State regulatory agency responsible for protecting water quality in Los Angeles and Ventura Counties. To accomplish this, the Regional Board issues investigative orders authorized by the Porter-Cologne Water Quality Control Act (California Water Code [CWC], Division 7).

At the request of the Regional Board, Raytheon's predecessor, Hughes Missile Systems, Inc., conducted eight groundwater sampling events between March 1990 and December 1991 to determine radioactivity levels in groundwater at the site. The results were submitted to the Regional Board in 1992 and indicated that a subset of the well samples had radiological parameters exceeding California Maximum Contaminant Levels (MCLs), but that the concentrations were naturally occurring based on the relative abundances of the individual uranium isotopes.

In response to public concerns regarding radioactivity sampling results from the on-site groundwater monitoring wells, the Regional Board issued a CWC section 13267 Order on March 5, 2008, requiring submittal of a work plan for a site-wide groundwater investigation to verify current radioactivity conditions. The revised work plan was reviewed and conditionally approved by the Regional Board on January 29, 2009. Subsequently, Regional Board staff have received and reviewed the *Groundwater Investigation Report to Verify Current Radioactivity Conditions* (Report), dated August 2009, prepared by Oneida Total Integrated Enterprises (OTIE) on behalf of Raytheon Company for the referenced site.

The Report presents the results of the groundwater sampling from 11 site wells for radioactivity analyses in May 2009. Gross alpha particle activity, uranium, combined radium - 226+228, and gross beta particle activity were detected up to 61.12 pCi/L, 126.5 pCi/L, 18.62 pCi/L, and 54.77 pCi/L, respectively, which exceeded their California MCLs of 15 pCi/L, 20 pCi/L, 5 pCi/L, and 50pCi/L, respectively.

The data produced during 2009 groundwater investigation are consistent with previous results collected in 1990 and 1991. This current investigation and the 1990/1991 investigation work have demonstrated that the levels of radiological isotopes detected in groundwater at the former Raytheon facility are attributable to naturally occurring sources in the underlying aquifer matrix and geochemical system. OTIE recommends no further action for radioactivity analyses in groundwater at the site.

Based on review of the submitted information and radionuclides related documentation, Regional Board staff have the following findings:

1. **No Suspected Releases of Radioisotopes from Historical Operations at the Site**

   The Regional Board has jurisdiction for the investigation and remediation of groundwater contamination at the former Raytheon site, while the Department of Toxic Substances Control (DTSC) has jurisdiction to address environmental contamination in soil as a result of historic operations. On March 4, 2009, DTSC issued the following responses to public comments:

   > "DTSC has obtained records submitted by Raytheon which includes information on the types radioisotopes used at the site, and the buildings in which the radioisotopes were used. The records indicate that only small amounts of radioactive materials were present, primarily in measurement devices, and that licenses were properly terminated and materials were properly disposed of more than twenty (20) years ago."

   Regional Board staff has also reviewed the *Supporting Documentation for the Radioactive Materials Investigation at Hughes Aircraft Company-MSG-CP*, dated May 1992, documenting the information on radioactive materials being used at the site approximately from 1964 to 1992. Based on review of the information provided, Regional Board staff concurs with DTSC's statement. Following further consultation with DTSC, Regional Board staff concludes that there is no evidence suggesting that releases of radionuclides resulted from the historical operations at the former Raytheon facility.

2. **Naturally Occurring Uranium and Radium**

   During the 2009 groundwater investigation, isotopic uranium analyses were conducted to calculate the relative mass ratios in order to determine if the origin of the uranium was man-made (enriched or depleted) or was consistent with naturally occurring sources. The results of the 2009 groundwater investigation were compared to the published values of typical isotopic abundances. These values were obtained from both the United States Department of Energy's *Guide of Good Practices for Occupational Radiological Protection in Uranium Facilities* (USDOE, 2004) and the United States Environmental Protection Agency's *Depleted Uranium Technical Brief* (USEPA, 2006).

The isotopic analysis of uranium demonstrates that the isotopic mass percentages for the 2009 groundwater samples with elevated uranium levels fall within the range expected for naturally occurring uranium as shown in the table below. The same calculations were previously performed for the October 1991 and December 1991 analytical results and yielded similar ratios. The 2009 groundwater data strongly support the statement that naturally occurring uranium is encountered in groundwater at the site.

Relative Abundance of Uranium Isotopes

Isotope	**U-238**	**U-235**	**U-234**
Natural Abundance (%)	99.27	0.72	0.0055
October 1991 Sampling Results	99.10 to 99.42	0.57 to 0.88	0.0053 to 0.0067
December 1991 Sampling Results	99.14 to 99.55	0.44 to 0.84	0.0051 to 0.0064
May 2009 Sampling Results	99.13 to 99.50	0.48 to 0.85	0.0050 to 0.0062

Based on the information obtained from the USEPA website at: http://www.epa.gov/radiation/radionuclides/index.html, uranium and radium occur naturally in the environment. They are present in virtually all rock, soil, and water. Uranium, radium and their compounds are soluble in water. As a result, groundwater in areas where concentrations of uranium and radium are high in aquifer materials and in surrounding bedrock typically has relatively high uranium and radium content.

Based upon the information provided to the Regional Board, and with the provision that the information was accurate and representative of site conditions, the Regional Board finds that the May 2009 groundwater investigation for radioactivity analyses carried out at the site is in compliance with the requirements of the CWC section 13267 Order issued to Raytheon Company on March 5, 2008 and that no further action for radioactivity analyses in groundwater is required at the site at this time. However, if new information indicates potential releases of radionuclides from the former Raytheon facility, the Regional Board may require groundwater monitoring for radioactivity analyses at the site.

If you have any questions, please contact Dr. Ann Chang at (213) 620-6070 or nchang@waterboards.ca.gov.

Sincerely,

Samuel Unger AEO for

Tracy J. Egoscue
Executive Officer

cc: Mr. Stefan Cajina, California Department of Public Health
Mr. Chris Nagler, Watermaster, California Department of Water Resources
Mr. Bernard Franklin, Los Angeles County, Department of Public Health
Mr. Hoover Ng, Water Replenishment District- Southern California
Mr. Rod Collins, Department of Toxic Substances Control
Mr. Jacques Marcillac, Oneida Total Integrated Enterprises
Mr. Kenneth Katich, Trammell Crow Company
Mr. William Preston Bowling, Aerospace Cancer Museum and Education
Ms. Christina Walsh, Cleanuprocketdyne.org
Ms. Bonnie Klea
Ms. Chris Rowe
Mr. Daniel Wiseman

California Regional Water Quality Control Board
Los Angeles Region

Linda S. Adams
Acting Secretary for
Environmental Protection

320 West Fourth Street, Suite 200, Los Angeles, California 90013
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http://www.waterboards.ca.gov/losangeles

Edmund G. Brown Jr.
Governor

May 13, 2011

Mr. Daniel S. Samorano
Raytheon Company
1151 East Hermans Road
TU, Bldg 845
Tucson, AZ 85706

SUBJECT: RESPONSE TO REQUEST FOR GROUNDWATER CLOSURE FOR TWO SOUTHERN PARCELS

SITE/CASE: RAYTHEON COMPANY (FORMER HUGHES MISSILE SYSTEMS COMPANY), 8433 FALLBROOK AVENUE, CANOGA PARK, CALIFORNIA (SCP NO. 0693, SITE ID NO. 2043T00)

Dear Mr. Samorano:

Los Angeles Regional Water Quality Control Board (Regional Board) staff reviewed the July 8, 2010, *Request for No Further Action Status for Southern Parcels* (Report), prepared by Oneida Total Integrated Enterprises, LLC (OTIE) for the reference site. Regional Board staff also reviewed the project files and recent submittals related to the source and extent of groundwater contamination beneath and in the vicinity of the two southern parcels. On May 3, 2011, Regional Board staff held a meeting with you and Mr. Jacques Marcillac of OTIE to discuss issues related to groundwater closure for two southern parcels of the site and data gaps that need to be addressed.

Based on the review of the Report and file documents and as discussed during the May 3, 2011 meeting, Regional Board staff have determined that groundwater closure for the southern parcels can not be granted at this time based on the following:

1. The lateral extent of the trichlorofluoromethane (Freon-11) plume in groundwater originating from the site and migrating through the southern parcels has not been adequately defined. During the groundwater sampling in June 1990, Freon-11 was detected at concentrations up to 360 micrograms per liter (µg/L) in monitoring well CM-10, which is located near the site boundary. This indicates that the Freon-11 groundwater plume originating from the site has migrated off site. To date, there have been no monitoring wells installed at appropriate locations cross- and down-gradient from monitoring well CM-10.

2. The vertical extent of the Freon-11 plume in groundwater has not been adequately defined. A review of the well construction details indicates that two monitoring wells, CM-10 and MW-31 that are located within the Freon-11 plume, have approximately the same screened interval lengths. These well screened lengths bottom are at approximately 10 to 25 feet below groundwater surface. To determine if multiple-depth groundwater monitoring wells are needed and to verify the vertical change trend of the Freon-11 plume in groundwater beneath the southern parcels and the vicinity of the site, discrete multiple-depth groundwater samples shall be

monitoring wells MW-31 (located near the identified source area) and CM-10 during the next scheduled site-wide groundwater monitoring event for the site.

3. The residual soil source of Freon-11 contamination has not been adequately addressed. It is our understanding that an active source of Freon-11 was removed from the site several decades ago. However, the magnitude and the lateral and vertical extent of Freon-11 soil contamination at the identified source area near the southern parcels has not been adequately characterized. The results of a 1995 shallow [(up to 5 feet below ground surface (bgs)] soil gas survey indicate that Freon-11 was detected at concentrations up to 1,300 µg/L in vapor samples collected from the identified source area. To assess the potential for vapor intrusion and continuing source of groundwater contamination from residual Freon-11 soil contamination, multiple-depth soil and soil vapor samples shall be collected from approximately 5 feet bgs to the water table at the identified source area. If the detected concentrations of residual Freon-11 in soil and soil vapor are greater than its site-specific soil and soil vapor screening levels that are protective of both human health and groundwater resource at the southern parcels and vicinity, active soil remediation or other mitigation measures may be required.

4. To confirm if the lateral and vertical extent of Freon-11 soil and groundwater contamination from releases at the site near the two southern parcels are adequately defined, please submit a work plan for soil/soil vapor and groundwater investigations at the identified source area near the southern parcels, and cross- and down-gradient from existing well CM-10 to the Regional Board by **October 15, 2011**, for review and approval.

Thank you for your continued efforts in working with the Regional Board staff and moving this project forward. If you have any questions, please contact Dr. Ann Chang at (213) 620-6070 (achang@waterboards.ca.gov).

Sincerely,

for Paula Rasmussen
Samuel Unger, PE
Executive Officer

cc: Ms. Sutida Bergquist, California Department of Public Health
Mr. Chris Nagler, Watermaster, California Department of Water Resources
Mr. Bernard Franklin, Los Angeles County, Department of Public Health
Mr. Hoover Ng, Water Replenishment District- Southern California
Ms. Stephanie Lewis, Department of Toxic Substances Control
Mr. Jacques Marcillac, Oneida Total Integrated Enterprises
Mr. Kenneth Katich, Trammell Crow Company
Mr. William Preston Bowling, Aerospace Cancer Museum and Education
Ms. Christina Walsh, Cleanuprocketdyne.org
Ms. Bonnie Klea
Ms. Chris Rowe
Mr. Daniel Wiseman

California Regional Water Quality Control Board
Los Angeles Region

320 W. 4th Street, Suite 200, Los Angeles, California 90013
(213) 576-6600 • FAX (213) 576-6640
http://www.waterboards.ca.gov/losangeles

Matthew Rodriquez
Secretary for
Environmental Protection

Edmund G. Brown Jr.
Governor

October 3, 2011

Mr. Daniel S. Samorano
Raytheon Company
1151 East Hermans Road
TU, Bldg 845
Tucson, AZ 85706

SUBJECT: APPROVAL OF WORK PLAN FOR CONFIRMATION SAMPLING

SITE/CASE: RAYTHEON COMPANY (FORMER HUGHES MISSILE SYSTEMS COMPANY), 8433 FALLBROOK AVENUE, CANOGA PARK, CALIFORNIA (SCP NO. 0693, SITE ID NO. 2043T00)

Dear Mr. Samorano:

Los Angeles Regional Water Quality Control Board (Regional Board) staff reviewed the September 2011, *WORK PLAN FOR CONFIRMATION SAMPLING FOR NO FURTHER ACTION STATUS IN THE SOUTHERN PARCELS* (Work Plan), submitted on your behalf by Oneida Total Integrated Enterprises, LLC (OTIE) on September 16, 2011, for the referenced site. The Work Plan is submitted in response to the Regional Board letter, dated May 13, 2011, requesting for trichlorofluoromethane (Freon-11) confirmation sampling.

The Work Plan presents the scope of work to collect discrete-depth soil gas samples at three locations in the previously identified Freon-11 impacted area and discrete-depth groundwater samples at six locations in the vicinity of existing groundwater monitoring wells CM-10 and MW-31. Based on the initial groundwater sampling results, additional groundwater samples may be collected from a selected off-site location down-gradient of well CM-10 if warranted.

Based on the review of the information submitted, Regional Board staff concurs with the scope of work proposed in the Work Plan, with the following additions:

1. Because this is a confirmation sampling, tedlar bags shall not be used to collect soil gas samples for volatile organic compound analysis. Please use the containers recommended in "*ADVISORY – ACTIVE SOIL GAS INVESTIGATIONS*" dated January 28, 2003, or its latest version, developed by the California Department of Toxic Substances Control and the Regional Board. This document is available at the following website:

   http://www.waterboards.ca.gov/losangeles/water_issues/programs/ust/guidelines/03_0210_schools_advisory_active_soil_gas_investigations.pdf

2. Following the completion of field work and laboratory analysis, a report presenting the results of the Work Plan implementation shall be submitted/uploaded to GeoTracker by **January 15, 2012**.

Thank you for your continued efforts in working with the Regional Board staff and moving this project forward in a timely manner. If you have any questions, please contact me at (213) 576-6735 (shan@waterboards.ca.gov).

Sincerely,

Su Han, CHG
Senior Engineering Geologist
Site Cleanup I Unit Chief

cc: Ms. Sutida Bergquist, California Department of Public Health
Mr. Chris Nagler, Watermaster, California Department of Water Resources
Mr. Bernard Franklin, Los Angeles County, Department of Public Health
Mr. Hoover Ng, Water Replenishment District- Southern California
Ms. Stephanie Lewis, Department of Toxic Substances Control
Mr. Jacques Marcillac, Oneida Total Integrated Enterprises
Mr. Kenneth Katich, Trammell Crow Company
Mr. William Preston Bowling, Aerospace Cancer Museum and Education
Ms. Christina Walsh, Cleanuprocketdyne.org
Ms. Bonnie Klea
Ms. Chris Rowe
Mr. Daniel Wiseman

CALIFORNIA Water Boards

EDMUND G. BROWN JR. GOVERNOR

MATTHEW RODRIQUEZ SECRETARY FOR ENVIRONMENTAL PROTECTION

Los Angeles Regional Water Quality Control Board

May 24, 2012

Mr. Daniel S. Samorano
Raytheon Company
1151 East Hermans Road
TU, Bldg 845
Tucson, AZ 85706

SUBJECT: APPROVAL OF SECOND EXTENSION REQUEST FOR SUBMITTAL OF TECHNICAL REPORT FOR SOIL GAS AND GROUNDWATER CONFIRMATION SAMPLING IN SOUTHERN PARCELS

CASE/SITE: RAYTHEON COMPANY (FORMER HUGHES MISSILE SYSTEMS COMPANY) 8433 FALLBROOK AVENUE, CANOGA PARK, CALIFORNIA (SCP NO. 0693, SITE ID NO. 2043T00)

Dear Mr. Samorano:

Los Angeles Regional Water Quality Control Board (Regional Board) staff have received a request for a 30-day extension to submit the technical report (Report) presenting the results of soil gas and groundwater confirmation samples conduced in 2012 (Request). The Request was prepared and submitted by your consultant Oneida Total Integrated Enterprise (OTIE) via email on May 14, 2012. Due to limited budget/funding available to implement the field work in 2011, the original Report due date of January 15, 2012 was extended to June 30, 2012, as indicated in the Regional Board's letter dated November 7, 2011.

On May 4, 2012, Regional Board staff held a meeting with you and OTIE and reviewed the preliminary results of soil gas and groundwater samples conducted on-site in April 2012. Based on the data, Regional Board staff discussed with you the need for additional off-site characterizations. The Request indicates that additional time is need for your consultant to obtain a permit from the City of Los Angeles for completing the off-site sampling. Therefore, Regional Board staff approves your due date extension request for the submittal of the Report from June 30, 2012 **to July 31, 2012**. The Report shall include the findings and results of both the on-site and off-site confirmation sampling activities.

Should you have any questions, please contact me at (213) 576-6736 (ewong@waterboards.ca.gov).

Sincerely,

Emily Wong
Water Resource Control Engineer
Site Cleanup Unit I

cc: See next page

cc: Mr. Sutida Bergquist, California Department of Public Heath
Mr. Chris Nagler, Watermaster, California Department of Water Resources
Mr. Bernard Franklin, Los Angeles County, Department of Public Health
Mr. Hoover Ng, Water Replenishment District – Southern California
Ms. Stephanie Lewis, Department of Toxic Substances Control
Mr. Jacques Marcillac, OTIE
Mr. Kenneth Katich, Trammell Crow Company
Mr. William Preston Bowling, Aerospace Cancer Museum and Education
Ms. Christina Walsh, Cleanuprocketdyne.org
Ms. Bonnie Klea
Ms. Chris Rowe
Mr. Daniel Wiseman

APPENDIX C

Permits

Lucas Budny

From: noreply@digalert.org
Sent: Thursday, April 05, 2012 5:06 PM
To: Lucas Budny
Subject: USAS EMLCFM 2012/04/05 #01102A A20961187-00A NORM NEW

Follow Up Flag: Follow up
Flag Status: Flagged

```
EMLCFM 01102A USAS 04/05/12 17:06:09 A20961187-00A NORM NEW GRID

Thank you for calling Underground Service Alert of Southern
California.  This is an automatically generated confirmation of
your DigAlert.  For your safety, please respect and protect the
marks, and excavate carefully around the marked utility lines.

This email comes from an automated program that is NOT MONITORED.
DO NOT REPLY BACK TO THIS EMAIL.

Ticket : A20961187  Date: 04/05/12 Time: 16:51 Oper: ADS Chan: 100
Old Tkt: A20961187  Date: 04/05/12 Time: 17:05 Oper: ADS Revision: 00A

Company: GREGG DRILLING                Caller: LUKE-ONEIDA TOTAL INTEGRATED
Co Addr: 317 E MAIN ST
City&St: VENTURA, CA                   Zip: 93001      Fax: 805-585-2111
Phone: 805-585-2110 Ext: 4475 Call back: ANYTIME 8-5
Formn: LUKE BUDNY           Phone: 805-365-5042
Email: LBUDNY@OTIE.COM

State: CA County: LOS ANGELES     Place: CANOGA PARK
Delineated: Y
Delineated Method: WHITEPAINT
Address: 8433        Street:FALLBROOK AVE
X/ST 1 : ECCLES ST
MPM 1:             MPM 2:
Locat: 4 LOC ON PROPERTY AT ADDRESS: AT APPROX 410FT W/OF CENTERLINE
FALLBROOK
     : AVE & APPROX 400FT N/OF C/L ECCLES ST (IF EXTENDED W); AT APPROX
380FT
     : W/OF C/L FALLBROOK AVE & APPROX 360FT N/OF C/L ECCLES ST (IF EXTENDED
W);
     : AT APPROX 420FT W/OF C/L FALLBROOK AVE & APPROX 330FT N/OF C/L ECCLES
ST
     : (IF EXTENDED W); AT APPROX 450FT W/OF C/L FALLBROOK AVE & APPROX 290FT
     : N/OF C/L ECCLES ST (IF EXTENDED W), (CALLER STATES MEMBERS CAN ENTER
LOC
     : ON TURN OFF AT PARKING LOT ON FALLBROOK AVE AT APPROX 320FT N/OF
ECCLES
     : ST) (DELINEDATED WITH WHITE BOXES WITH OTIE USA)

Excav Enters Into St/Sidewalk: N

Grids: 0529G022     0529H021
```

Lat/Long : 34.224615/-118.624926 34.224085/-118.624156
          : 34.223577/-118.625640 34.223047/-118.624870
Caller GPS:

Boring: Y Explosives: N Vacuum: N
Re-Mark: N

Work : CPT TESTING
Wkend: N Night: N
Work date: 04/12/12 Time: 07:00 Priority: 2
Instruct : MARK BY   Permit: PENDING
Done for : RAYTHEON

Tkt Exp: 05/03/12

Mbrs :

ATTD14LAN AT&T - DISTRIBUTION	SBC DAMAGE PREVENTION HO	510-645-2929
CITYLA C/OF LA-STREET LIGHTING	FRONT OFFICE STAFF	323-913-4744
LAWP2 LA DEPT WTR & PWR-WTR,E,FIB O	JEFF HOVEY	818-771-4068
SCG4U2 SC GAS - CANOGA	GAS CO CALL CENTER	800-427-2200
UACWHI UTILIQUEST 4 AIRTOUCH	AIRTOUCH CELLULAR REP	562-802-9443
UTWCNC10 UTILIQUEST/TIME WARNER-W CN	SHAWN RIGGS	818-407-3152

Lucas Budny

From: Iris Shao
Sent: Monday, May 21, 2012 11:20 AM
To: Lucas Budny
Subject: FW: USAS EMLCFM 2012/05/21 #00593A A21420522-02A NORM RXMT

From: noreply@digalert.org [mailto:noreply@digalert.org]
Sent: Monday, May 21, 2012 11:20 AM
To: Iris Shao
Subject: USAS EMLCFM 2012/05/21 #00593A A21420522-02A NORM RXMT

```
EMLCFM 00593A USAS 05/21/12 11:19:54 A21420522-02A NORM RXMT GRID

Thank you for calling Underground Service Alert of Southern
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marks, and excavate carefully around the marked utility lines.

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Ticket : A21420522  Date: 05/21/12 Time: 11:16 Oper: CJD Chan: 100
Old Tkt: A21420522  Date: 05/21/12 Time: 11:08 Oper: CJD Revision: 02A

Company: GREGG DRILLING                Caller: IRIS SHAO (OTIE)
Co Addr: 317 E MAIN ST
City&St: VENTURA, CA                   Zip: 93001      Fax: 805-585-2111
Phone: 805-585-2110 Ext:      Call back: ANYTIME 8-5
Formn: LUCAS BUDNY          Phone: 805-365-5042
Email: ISHAO@OTIE.COM

State: CA County: LOS ANGELES     Place: CANOGA PARK
Delineated: Y
Delineated Method: WHITEPAINT
Address:             Street:FALLBROOK AVE
X/ST 1 : SCHOENBORN ST
MPM 1:             MPM 2:
Locat: FRONT OF 8356 FALLBROOK AVE   X/ST SCHOENBORN ST; FRONT OF 8344
FALLBROOK
     : AVE   X/ST SCHOENBORN ST; S/SIDE OF SCHOENBORN ST AT APPROX 90FT W/OF
THE
     : CENTERLINE  MAYNARD AVE;

Excav Enters Into St/Sidewalk: N

Grids: 0529H0213
Lat/Long  : 34.222908/-118.624750 34.223393/-118.623194
          : 34.219834/-118.623793 34.220319/-118.622236
Caller GPS:
```

Boring: Y Explosives: N Vacuum: N
Re-Mark: N

Work : FOR CONE PENETRATION TESTING
Wkend: N Night: N
Work date: 05/30/12 Time: 09:00 Priority: 2
Instruct : MARK BY Permit: 8904387-7-12
Done for : RYTHEON CORP

Tkt Exp: 06/18/12

COMMENTS

RESENDCORRECT E-MAIL ADDRESS PER IRIS--[CJD 05/21/12 11:09]
RESENDCORRECT LAST NAME OF FOREMAN FRM BUTLEE TO BUDNY PER IRIS--[CJD 05/21/12 11:19]

Mbrs :

ATTD14LAN AT&T - DISTRIBUTION	SBC DAMAGE PREVENTION HO	510-645-2929
CITYLA C/OF LA-STREET LIGHTING	FRONT OFFICE STAFF	323-913-4744
LAWP2 LA DEPT WTR & PWR-WTR,E,FIB O	JEFF HOVEY	818-771-4068
SCG4U2 SC GAS - CANOGA	GAS CO CALL CENTER	800-427-2200
UACWHI UTILIQUEST 4 AIRTOUCH	AIRTOUCH CELLULAR REP	562-802-9443
UTWCNC10 UTILIQUEST/TIME WARNER-W CN	SHAWN RIGGS	818-407-3152

Lucas Budny

From: Iris Shao
Sent: Wednesday, May 30, 2012 2:03 PM
To: Lucas Budny
Subject: FW: USAS EMLCFM 2012/05/30 #00817A A21510963-01A NORM RXMT

From: noreply@digalert.org [mailto:noreply@digalert.org]
Sent: Wednesday, May 30, 2012 2:02 PM
To: Iris Shao
Subject: USAS EMLCFM 2012/05/30 #00817A A21510963-01A NORM RXMT

```
EMLCFM 00817A USAS 05/30/12 14:02:23 A21510963-01A NORM RXMT GRID

Thank you for calling Underground Service Alert of Southern
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your DigAlert.  For your safety, please respect and protect the
marks, and excavate carefully around the marked utility lines.

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Ticket : A21510963  Date: 05/30/12 Time: 14:01 Oper: LLF Chan: 100
Old Tkt: A21510963  Date: 05/30/12 Time: 14:01 Oper: LLF Revision: 01A

Company: GREGG DRILLING                 Caller: IRIS SHAO - OTIE
Co Addr: 317 E MAIN ST
City&St: VENTURA, CA                    Zip: 93001      Fax: 805-585-2111
Phone: 805-585-2110 Ext:      Call back: ANYTIME 8-5
Formn: LUCAS BUDNY          Phone: 805-365-5042
Email: ISHAO@OTIE.COM

State: CA County: LOS ANGELES     Place: CANOGA PARK
Delineated: Y
Delineated Method: WHITEPAINT
Address:             Street:FALLBROOK AVE
X/ST 1 : SCHOENBORN ST
MPM 1:             MPM 2:
Locat: CENTER OF STREET  IN FRONT OF 8356 AND 8344  FALLBROOK AVE, CALLER
STATES
     : ADDRESSES ARE LOC N/OF SCHOENBORN ST

Excav Enters Into St/Sidewalk: Y

Grids: 0529H0213
Lat/Long  : 34.223295/-118.623955 34.223273/-118.622961
          : 34.220081/-118.624026 34.220059/-118.623032
Caller GPS:

Boring: Y  Explosives: N  Vacuum: N
```

Re-Mark: N

Work : CPT CONE PENETRATION TESTING
Wkend: N Night: N
Work date: 05/30/12 Time: 15:00 Priority: 2
Instruct : MARK BY Permit: 8904387-7-12
Done for : RAYTHEON CORPORATION

Tkt Exp: 06/27/12

COMMENTS

RESENDCHANGING START DATE AND TIME FROM 5/31 @ 9:00AM TO 5/30 @ 3:00PM PER
IRIS--[LLF 05/30/12 14:02]

Mbrs :

ATTD14LAN	AT&T - DISTRIBUTION	SBC DAMAGE PREVENTION HO	510-645-2929
CITYLA	C/OF LA-STREET LIGHTING	FRONT OFFICE STAFF	323-913-4744
LAWP2	LA DEPT WTR & PWR-WTR,E,FIB O	JEFF HOVEY	818-771-4068
SCG4U2	SC GAS - CANOGA	GAS CO CALL CENTER	800-427-2200
UACWHI	UTILIQUEST 4 AIRTOUCH	AIRTOUCH CELLULAR REP	562-802-9443
UTWCNC10	UTILIQUEST/TIME WARNER-W CN	SHAWN RIGGS	818-407-3152

WELL PERMIT APPLICATION - NON PRODUCTION WELLS

WATER QUALITY PROGRAM - ENVIRONMENTAL HEALTH DIVISION
5050 COMMERCE DRIVE, BALDWIN PARK, CA 91706 TELE (626) 430-5420 FAX (626) 813-3016

DATE 4-4-2012

☐ NEW WELL CONSTRUCTION ☐ RECONSTRUCTION OR RENOVATION ☐ DECOMMISSIONING ☐ OTHER: _____
☐ MONITORING ☐ CATHODIC ☐ INJECTION ☐ EXTRACTION ☐ HEAT EXCHANGE
☐ HYDROPUNCH ☒ C.P.T. (For Ground Water Sampling) ☐ OTHER: _____

WELL LOCATION

Site Address: 8433 Fallbrook Ave., Canoga Park, CA, 91304 | City | Zip Code

Nearest Intersection: Fallbrook Ave & Eccles St | Thomas Guide Map Book Page/Grid: 529/G | Number of Wells in Each Parcel: 6

WELL STRUCTURE

Total Depth of Well | Depth of Well Casing | Sanitary / Annular Sealing Material
maximum depth of CPT is 90 feet below grade and backfill boring with a cement-bentonite grout. No well constructed.

Depth of Sanitary / Annular Seal | Conductor Casing Seal

OWNER INFORMATION

Owner's Name: Raytheon Company (Daniel S. Samorano), Telephone Number: 520-794-9026

Address: 1151 E. Hermans Rd., Bldg. 845, Tuscon, AZ 85706 | City | Zip Code

DRILLER INFORMATION

Driller's Name: Gregg Drilling and Testing, Inc., 562-427-6899, C-57 # 485165 | Telephone Number | C-57 License Number

Address: 2726 Walnut Ave., Signal Hill, CA 90755 | City | Zip Code

WELL DECOMMISSIONING INFORMATION

Well Depth ☐ log/records | Method of Well Assessment | Depth and Number of Perforations

Type and Amount of Sealant | Type of Perforator | Size of Perforations | Method of Upper Seal Pressure Application

CONSULTANT INFORMATION

Company: Oneida Total Integrated Enterprises (OTIE), LLC

Address: 317 East Main Street, Ventura, California 93001 | City | State | Zip Code

Project Manager: Jacques Marcillac | Telephone Number: 805-585-6382 | Fax Number: 805-585-2111

ATTENTION: WORK PLAN MODIFICATIONS MAY BE REQUIRED IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED AT THE SITE INSPECTION ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THIS DEPARTMENT.

I hereby agree to comply in every respect with all the regulations of the County Environmental Health Division and with all ordinances and laws of the County of Los Angeles and the State of California pertaining to well construction, reconstruction, and decommissioning data deemed necessary by the Environmental Health Division Of Los Angeles County.

Signature of Applicant: _____ Printed Name: Lucas Bu

THIS PERMIT IS NOT COMPLETE UNTIL ALL OF THE FOLLOWING REQUIREMENTS ARE SIGNED OFF BY THE DEPUTY HEALTH OFFICER. WELL CONSTRUCTION OR DECOMMISSIONING CANNOT BE INITIATED WITHOUT A WORK PLAN APPROVAL FROM THIS DEPARTMENT.

**********(DEPARTMENT USE ONLY)**********

WORK PLAN APPROVAL This Approval is Valid for 180 Days	REHS: Arnoldo Juarez	B.E. I.S. NO:	DATE: 04/17/12
Conditions: Permit # 890438-7-12 Observe work plan submitted. All field work must be conducted by or under a lic. professional geologist in the state of Calif. Notify 48hr. prior to start field work ajuarez@ph.lacounty.gov - 213-761-0708			
FINAL INSPECTION The placement of the annular seal must be witnessed by a Deputy Health Officer for the permit to be valid. Contact this Department to arrange for an appointment	REHS		DATE

NOTICE

This well permit approval is limited to compliance with the California Well Standards and the Los Angeles County Code and does not grant any rights to construct, reconstruct, or decommission any well. The applicant is responsible for securing all other necessary permits such as: coastal commission, water rights, encroachment, utility lines detection, city public works division.

City of Los Angeles
Dept. of Public Works
Bureau of Engineering
78-3.652 (R9-89)

APPLICATION / PERMIT FOR EXCAVATION

IN OR ADJACENT TO PUBLIC STREETS
UNDER CHAPTER 6, ARTICLE 2, LOS ANGELES MUNICIPAL CODE

THIS PERMIT IS NOT VALID UNLESS REGISTER VALIDATED OR RECEIPT SHOWN

JOB ADDRESS 8344 Fallbrook Ave, West Hill, CA			
PROPERTY OWNER/CONTRACTOR/AGENT FOR Oneida Total Integrated Enterprises, LLC			
ADDRESS 317 E Main St			
CITY Ventura			
STATE CA		ZIP CODE 93001	
TELEPHONE 805-585-2110			
Purpose of Excavation Soilboring			
WORK ORDER NO.	LIAB. INS. C.A. NO. 29646	INSURANCE EXPIRES 2012-08-01 00:00:00.0	
"A" PERMIT NO.	SURETY BOND C.A. NO.	MISC. RECEIPT NO.	
WAIVER REC. NO.	MISC. CASH BOND NO.		

RECEIPT NO.

Permit for boring at 3 locations, close to Fallbrook & Schoenborn.

NOTICE TO PERMITTEE

PERMIT MUST BE ON JOB AT ALL TIMES.
THIS PERMIT EXPIRES 6 MONTHS FROM ISSUANCE UNLESS WORK HAS COMMENCED. (LAMC 62.02)
KEEP SIDEWALKS AND GUTTERS CLEAR.

INSPECTION IS REQUIRED

I hereby agree to observe all requirements of the Municipal Code of the City of Los Angeles, all amendments thereto, and any special requirements made part of this permit.

Call Bureau of Contract Administration for inspection prior to commencing work: (213) 485-5080.

X

PRINT NAME

Oneida Total Integrated Enterprises, LLC

	QTY	RATE	SUBTOTAL
E-permit Excavation <=1,000	1	$425.00	$425.00
A-Permit Basic Fee	0	$265.00	$0.00
Revocable Permit	0	$0.00	$0.00
E-Permit Special Eng Fee	0.00	$145.00	$0.00
Special Insp Reg Rate / Hr (4 hrs min.)	4	$95.00	$380.00
Tie-Back (Less than 20 ft. below street surface)	0	$605.00	$0.00
Tie Back (20 ft. or more below street surface)	0	$605.00	$0.00
Left De-Tensioned Anc Rods/Ea	0	$2,040.00	$0.00
Street Damage Restoratn-SDRF	0	$0.00	$0.00
Slurry Seal Damage Restrtn Fee-SSDRF	0 sq. ft.		
SDRF/SSDRF Eng Admin	0	$17.50	$0.00
2% SURCHARGE			$16.10
7% SURCHARGE			$56.35
TOTAL			$877.45

BY
mary marcus

DATE
05/22/2012

BUREAU OF ENGINEERING

STREETS AFFECTED

JOB ADDRESS
8344 Fallbrook Ave, West Hill, CA

SPECIAL DEPOSIT PERMIT NO.
E-1281-0011

GENERAL CONDITIONS:

WORK IN PUBLIC RIGHT OF WAY IS ALLOWED ONLY BETWEEN THE HOURS OF 9:00 A.M. AND 3:30 P.M.

PERMITTEE SHALL STOP WORK AND CONTACT THE PERMITTING AGENCY PRIOR TO CUTTING OR EXCAVATING ANY DECORATIVE SIDEWALK, PAVEMENT, OR CROSSWALK.

ANY DAMAGE TO DECORATIVE SIDEWALK, PAVEMENT, OR CROSSWALK MUST BE REPAIRED IN KIND OR RECONSTRUCTED IN KIND BY THE PERMITTEE, AS DIRECTED BY THE PERMITTING AGENCY, IN A MANNER SATISFACTORY TO THE CITY ENGINEER AND THE INSPECTOR OF PUBLIC WORKS.

INSPECTION

CALL BUREAU OF CONTRACT ADMINISTRATION FOR INSPECTION PRIOR TO COMMENCING WORK.

BUREAU OF CONTRACT ADMINISTRATION INSPECTION WORK MUST BE REQUESTED NO LATER THAN NOON OF PRECEDING WORK DAY. THE NUMBERS TO CALL FOR THE INSPECTION ARE:
JOB LOCATIONS IN SAN FERNANDO VALLEY: (818) 374-1188
JOB LOCATIONS NOT IN SAN FERNANDO VALLEY: (213) 485-5080

CALL FOR INSPECTION OF PERMANENT RESURFACING NO LATER THAN NOON OF THE PRECEDING WORK DAY.

APPENDIX D

Cone Penetration Testing Reports

GREGG DRILLING & TESTING, INC.
GEOTECHNICAL AND ENVIRONMENTAL INVESTIGATION SERVICES

April 17, 2012

OTIE
Attn: Lucas Budny

Subject: CPT Site Investigation
Canoga Park
California
GREGG Project Number: 12-731SH

Dear Mr. Budny:

The following report presents the results of GREGG Drilling & Testing's Cone Penetration Test investigation for the above referenced site. The following testing services were performed:

1	Cone Penetration Tests	(CPTU)	☒
2	Pore Pressure Dissipation Tests	(PPD)	☒
3	Seismic Cone Penetration Tests	(SCPTU)	☐
4	UVOST Laser Induced Fluorescence	(UVOST)	☐
5	Groundwater Sampling	(GWS)	☒
6	Soil Sampling	(SS)	☐
7	Vapor Sampling	(VS)	☐
8	Pressuremeter Testing	(PMT)	☐
9	Vane Shear Testing	(VST)	☐
10	Dilatometer Testing	(DMT)	☐

A list of reference papers providing additional background on the specific tests conducted is provided in the bibliography following the text of the report. If you would like a copy of any of these publications or should you have any questions or comments regarding the contents of this report, please do not hesitate to contact our office at (562) 427-6899.

Sincerely,

Peter Robertson
Technical Director, Gregg Drilling & Testing, Inc.

Cone Penetration Test Sounding Summary

-Table 1-

CPT Sounding Identification	Date	Termination Depth (Feet)	Depth of Groundwater Samples (Feet)	Depth of Soil Samples (Feet)	Depth of Pore Pressure Dissipation Tests (Feet)
CPT-AGW2011-1	4/12/12	44	-	-	-
CPT-AGW2011-2	4/12/12	34	-	-	-
CPT-AGW2011-3	4/12/12	49	-	-	49.9
CPT-BGW2011-1	4/17/12	42	56	-	-
CPT-BGW2011-2	4/17/12	56	56	-	56.6
CPT-BGW2011-3	4/17/12	90	56, 72	-	89.7

Bibliography

Lunne, T., Robertson, P.K. and Powell, J.J.M., "Cone Penetration Testing in Geotechnical Practice" E & FN Spon. ISBN 0 419 23750, 1997

Roberston, P.K., "Soil Classification using the Cone Penetration Test", Canadian Geotechnical Journal, Vol. 27, 1990 pp. 151-158.

Mayne, P.W., "NHI (2002) Manual on Subsurface Investigations: Geotechnical Site Characterization", available through www.ce.gatech.edu/~geosys/Faculty/Mayne/papers/index.html, Section 5.3, pp. 107-112.

Robertson, P.K., R.G. Campanella, D. Gillespie and A. Rice, "Seismic CPT to Measure In-Situ Shear Wave Velocity", Journal of Geotechnical Engineering ASCE, Vol. 112, No. 8, 1986 pp. 791-803.

Robertson, P.K., Sully, J., Woeller, D.J., Lunne, T., Powell, J.J.M., and Gillespie, D.J., "Guidelines for Estimating Consolidation Parameters in Soils from Piezocone Tests", Canadian Geotechnical Journal, Vol. 29, No. 4, August 1992, pp. 539-550.

Robertson, P.K., T. Lunne and J.J.M. Powell, "Geo-Environmental Application of Penetration Testing", Geotechnical Site Characterization, Robertson & Mayne (editors), 1998 Balkema, Rotterdam, ISBN 90 5410 939 4 pp 35-47.

Campanella, R.G. and I. Weemees, "Development and Use of An Electrical Resistivity Cone for Groundwater Contamination Studies", Canadian Geotechnical Journal, Vol. 27 No. 5, 1990 pp. 557-567.

DeGroot, D.J. and A.J. Lutenegger, "Reliability of Soil Gas Sampling and Characterization Techniques", International Site Characterization Conference - Atlanta, 1998.

Woeller, D.J., P.K. Robertson, T.J. Boyd and Dave Thomas, "Detection of Polyaromatic Hydrocarbon Contaminants Using the UVIF-CPT", 53rd Canadian Geotechnical Conference Montreal, QC October pp. 733-739, 2000.

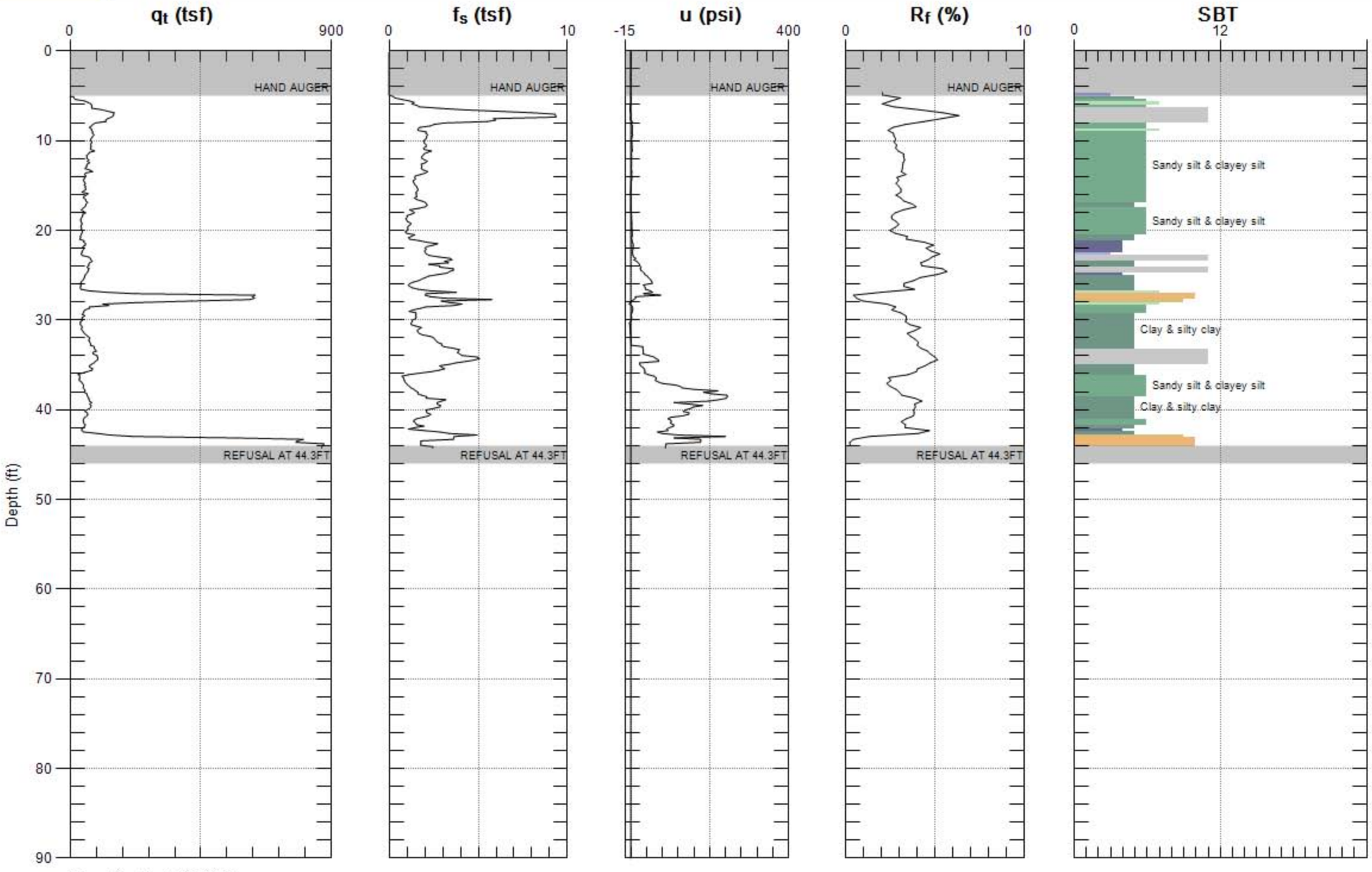
Zemo, D.A., T.A. Delfino, J.D. Gallinatti, V.A. Baker and L.R. Hilpert, "Field Comparison of Analytical Results from Discrete-Depth Groundwater Samplers" BAT EnviroProbe and QED HydroPunch, Sixth national Outdoor Action Conference, Las Vegas, Nevada Proceedings, 1992, pp 299-312.

Copies of ASTM Standards are available through www.astm.org

GREGG

OTIE

Site: CANOGA PARK
Engineer: L.BUDNY
Sounding: CPT-AGW2011-1
Date: 4/12/2012 08:02

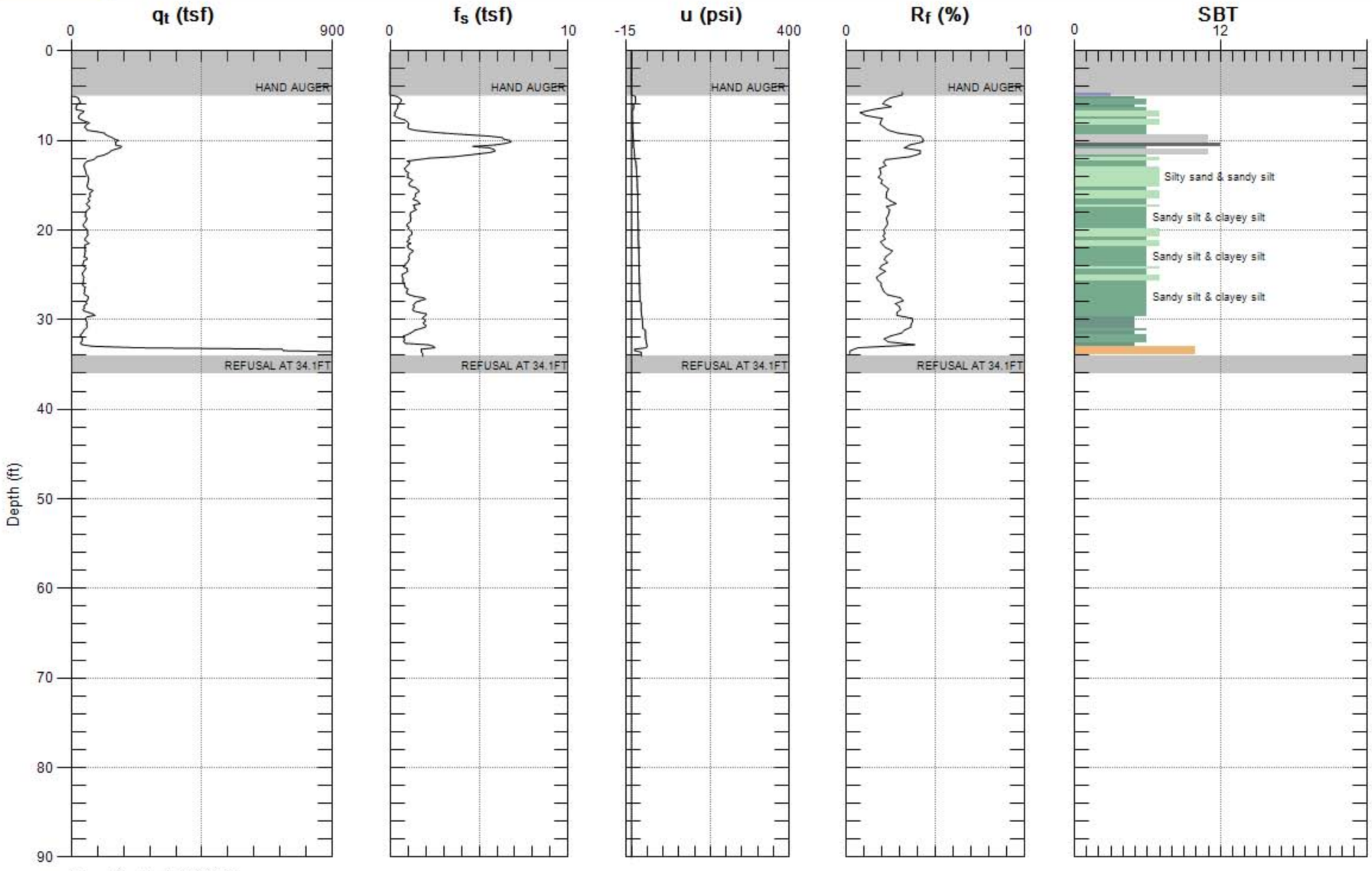


Max. Depth: 44.291 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

OTIE

Site: CANOGA PARK
Engineer: L.BUDNY
Sounding: CPT-AGW2011-2
Date: 4/12/2012 10:59



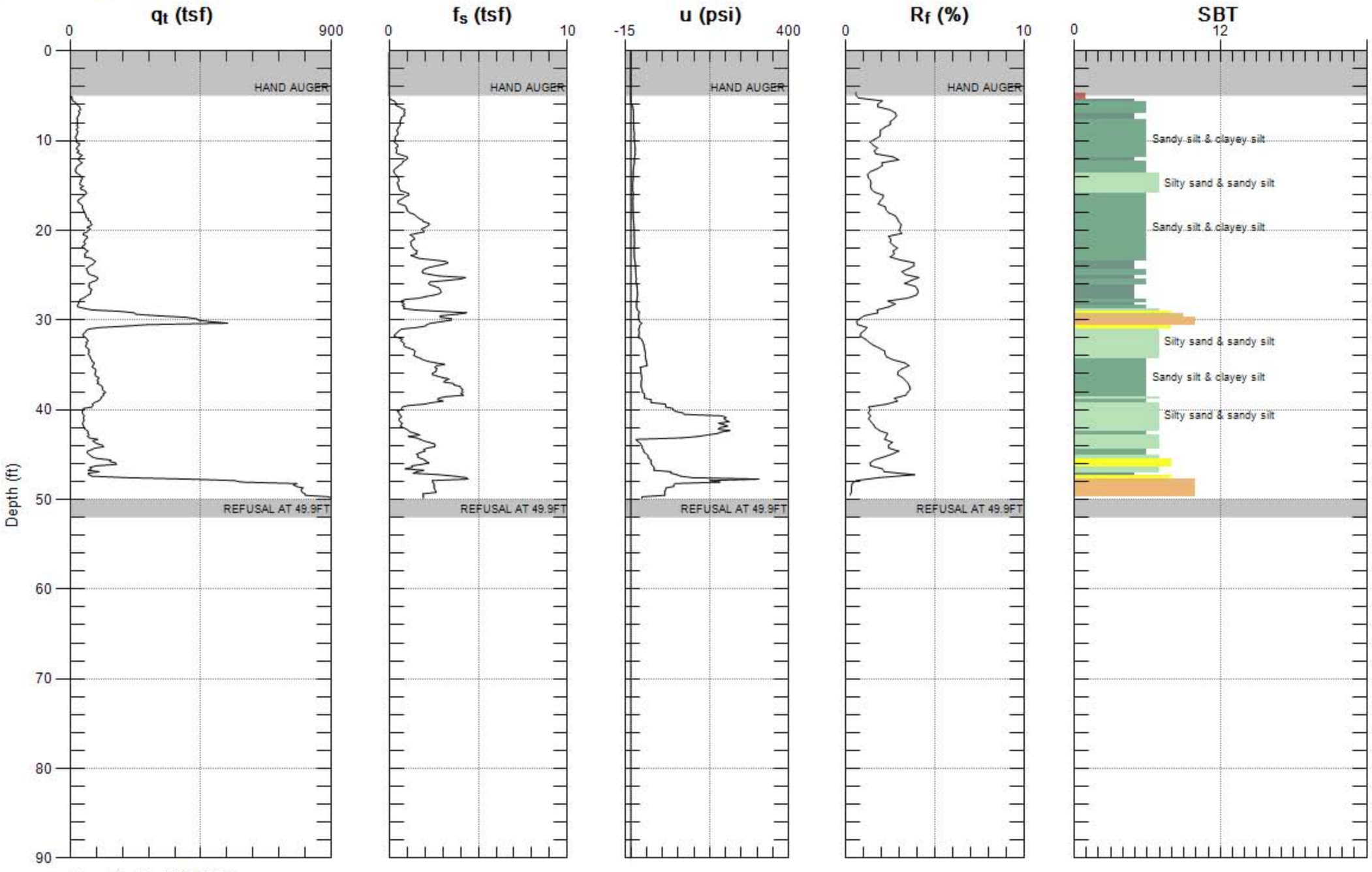
Max. Depth: 34.121 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

OTIE

Site: CANOGA PARK
Sounding: CPT-AGW2011-3
Engineer: L.BUDNY
Date: 4/12/2012 11:52

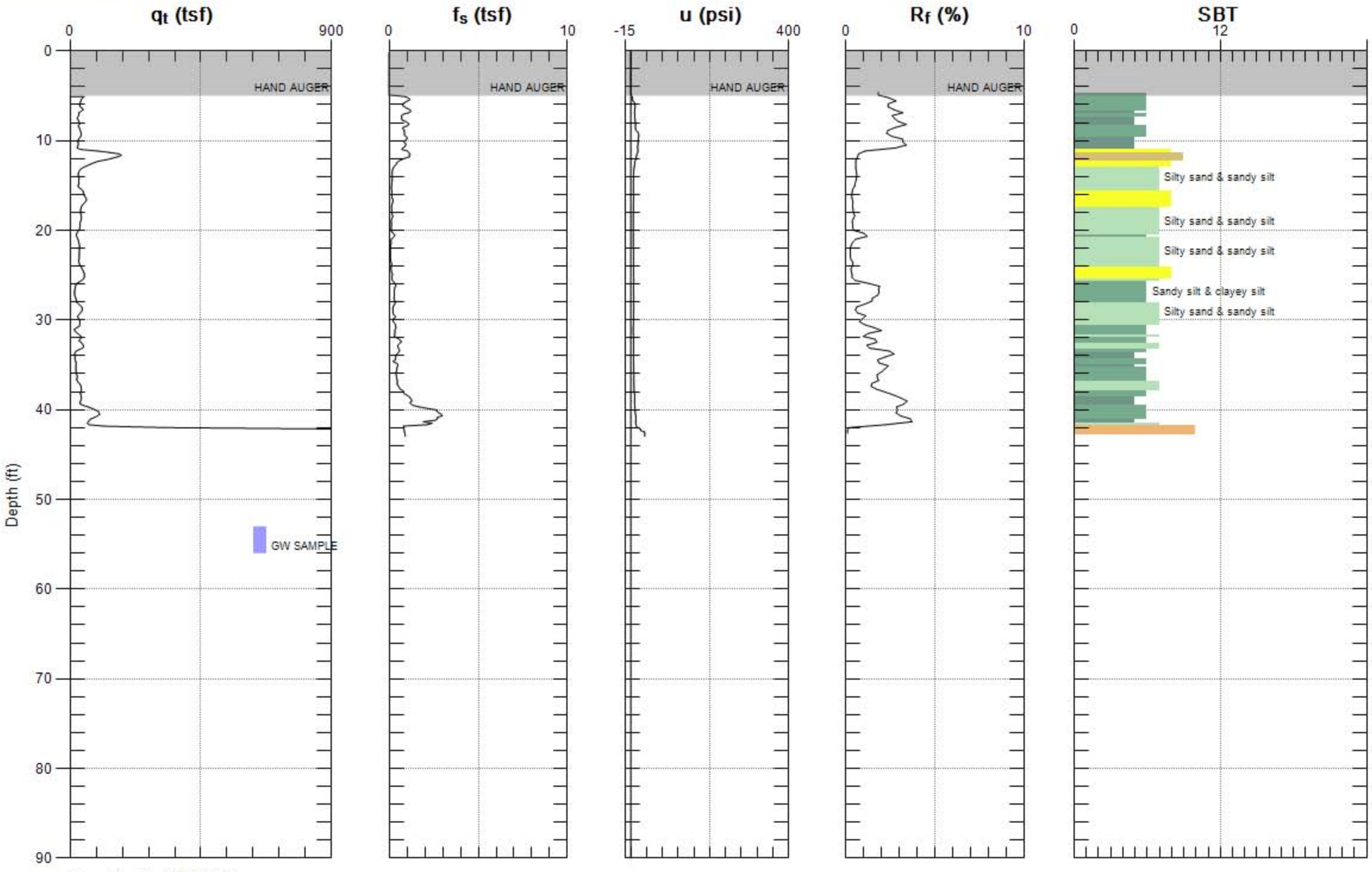


Max. Depth: 49.869 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

OTIE

Site: CANOGA PARK
Sounding: CPT-BGW2011-1
Engineer: L.BUDNY
Date: 4/13/2012 01:34

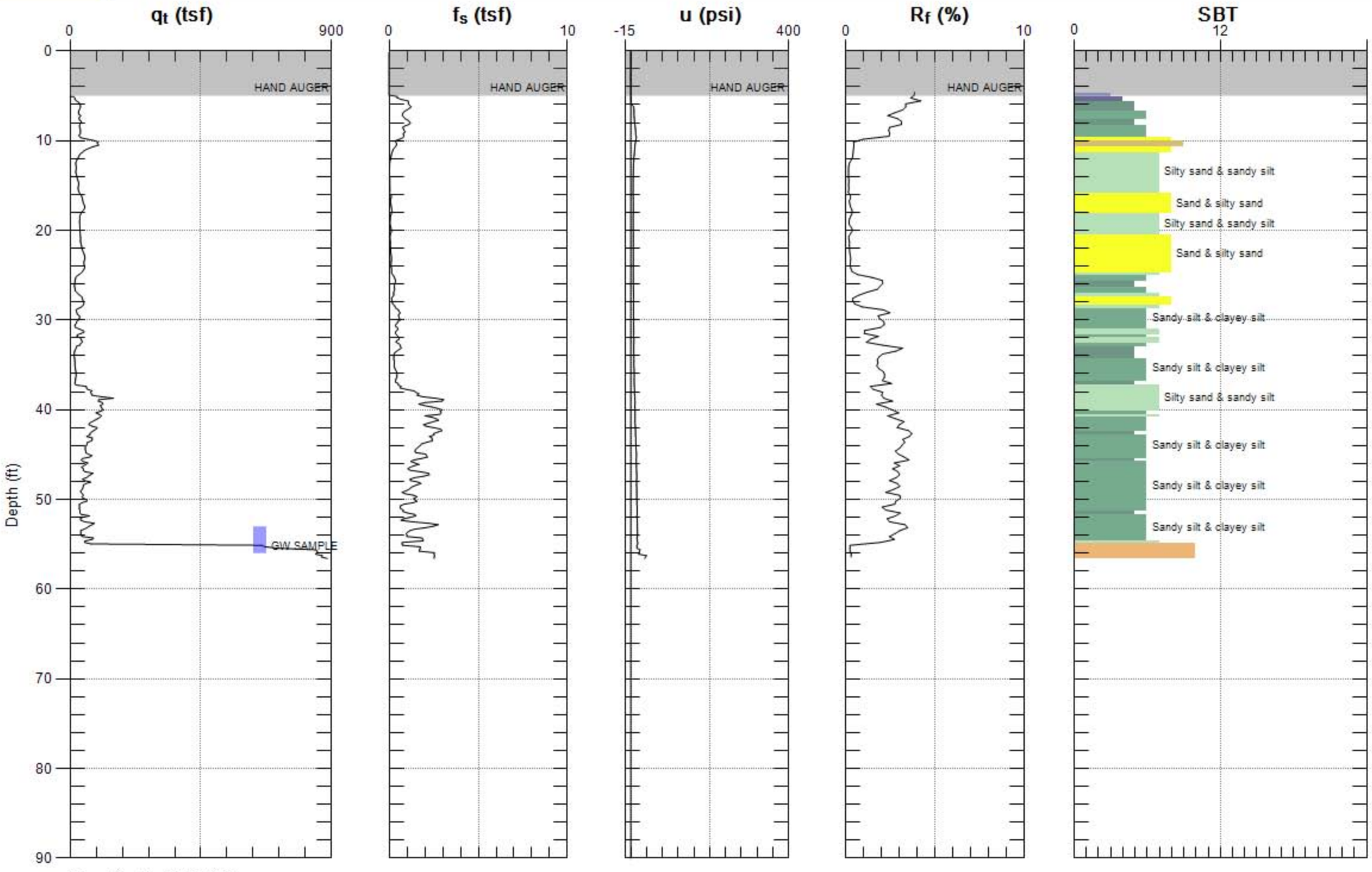


Max. Depth: 42.979 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

OTIE

Site: CANOGA PARK
Sounding: CPT-BGW2011-2
Engineer: L.BUDNY
Date: 4/13/2012 10:58

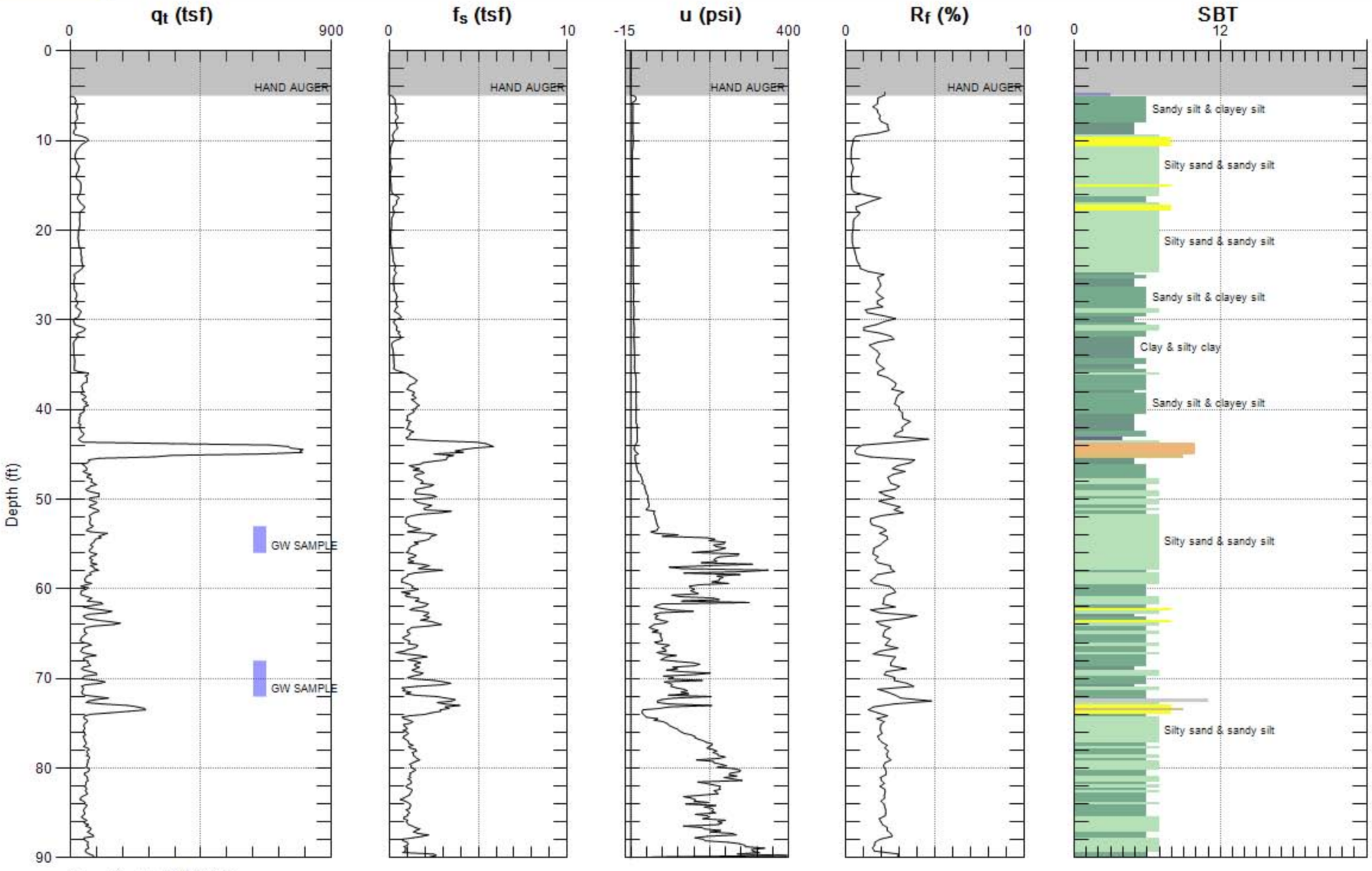


Max. Depth: 56.594 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

OTIE

Site: CANOGA PARK
Sounding: CPT-BGW2011-3
Engineer: L.BUDNY
Date: 4/13/2012 08:34



Max. Depth: 90.223 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG DRILLING & TESTING, INC.
GEOTECHNICAL AND ENVIRONMENTAL INVESTIGATION SERVICES

May 31, 2012

OTIE
Attn: Lucas Budny

Subject: CPT Site Investigation
Canoga Park
California
GREGG Project Number: 12-731SH – part 2

Dear Mr. Budny:

The following report presents the results of GREGG Drilling & Testing's Cone Penetration Test investigation for the above referenced site. The following testing services were performed:

1	Cone Penetration Tests	(CPTU)	☒
2	Pore Pressure Dissipation Tests	(PPD)	☐
3	Seismic Cone Penetration Tests	(SCPTU)	☐
4	UVOST Laser Induced Fluorescence	(UVOST)	☐
5	Groundwater Sampling	(GWS)	☒
6	Soil Sampling	(SS)	☐
7	Vapor Sampling	(VS)	☐
8	Pressuremeter Testing	(PMT)	☐
9	Vane Shear Testing	(VST)	☐
10	Dilatometer Testing	(DMT)	☐

A list of reference papers providing additional background on the specific tests conducted is provided in the bibliography following the text of the report. If you would like a copy of any of these publications or should you have any questions or comments regarding the contents of this report, please do not hesitate to contact our office at (562) 427-6899.

Sincerely,

Peter Robertson
Technical Director, Gregg Drilling & Testing, Inc.

Cone Penetration Test Sounding Summary

-Table 1-

CPT Sounding Identification	Date	Termination Depth (Feet)	Depth of Groundwater Samples (Feet)	Depth of Soil Samples (Feet)	Depth of Pore Pressure Dissipation Tests (Feet)
SHBGW2012-CPT-3	5/30/12	80	48, 60	-	-

Bibliography

Lunne, T., Robertson, P.K. and Powell, J.J.M., "Cone Penetration Testing in Geotechnical Practice" E & FN Spon. ISBN 0 419 23750, 1997

Roberston, P.K., "Soil Classification using the Cone Penetration Test", Canadian Geotechnical Journal, Vol. 27, 1990 pp. 151-158.

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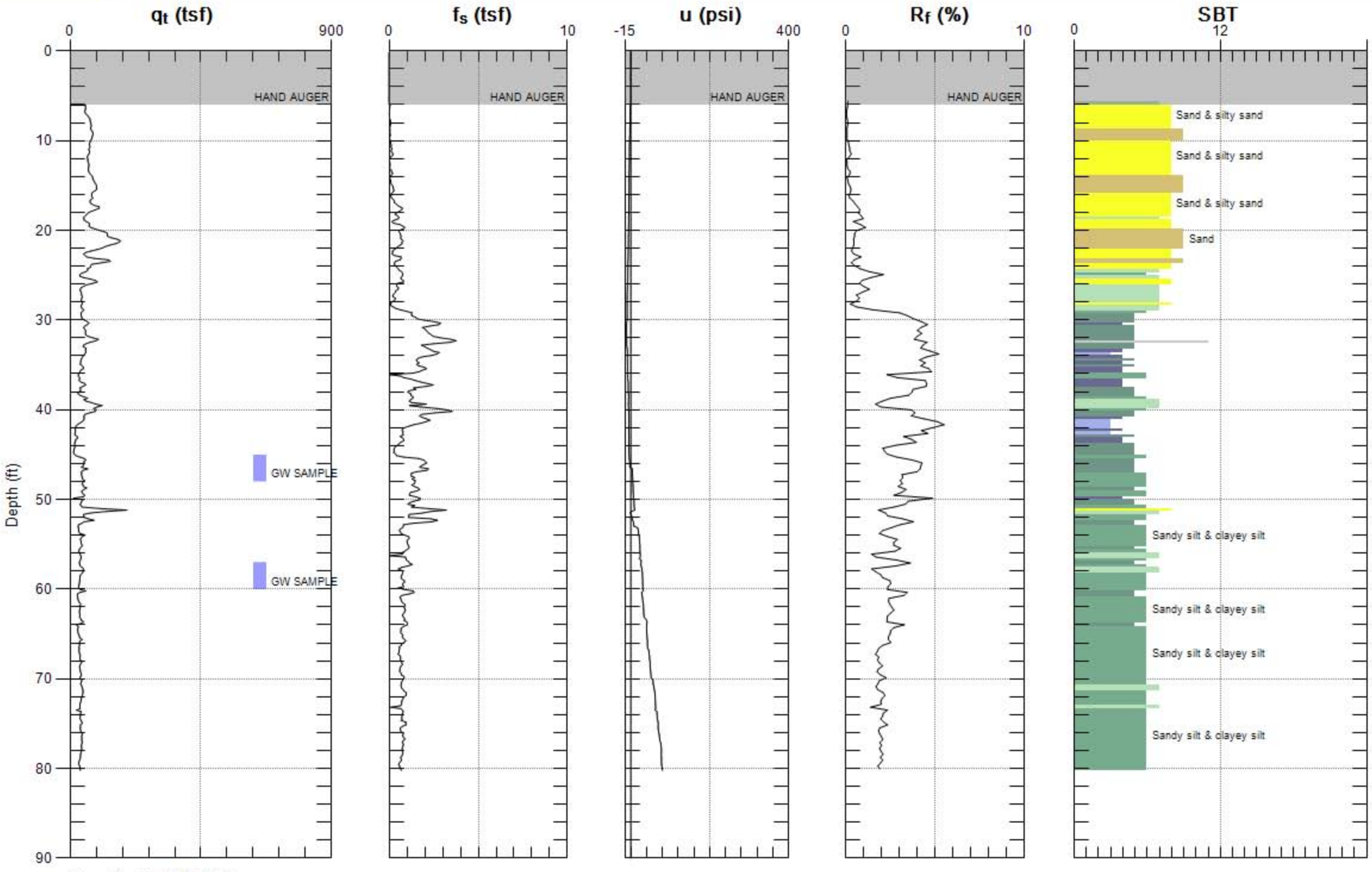
Copies of ASTM Standards are available through www.astm.org

GREGG

OTIE

Site: CANOGA PARK Engineer: L.BUDNY

Sounding: SHBGW2012-CPT-3 Date: 5/30/2012 08:45



Max. Depth: 80.217 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG DRILLING & TESTING, INC.
GEOTECHNICAL AND ENVIRONMENTAL INVESTIGATION SERVICES

June 6, 2012

OTIE
Attn: Lucas Budny

Subject: CPT Site Investigation
Canoga Park
California
GREGG Project Number: 12-731SH – part 3

Dear Mr. Budny:

The following report presents the results of GREGG Drilling & Testing's Cone Penetration Test investigation for the above referenced site. The following testing services were performed:

1	Cone Penetration Tests	(CPTU)	☒
2	Pore Pressure Dissipation Tests	(PPD)	☐
3	Seismic Cone Penetration Tests	(SCPTU)	☐
4	UVOST Laser Induced Fluorescence	(UVOST)	☐
5	Groundwater Sampling	(GWS)	☒
6	Soil Sampling	(SS)	☐
7	Vapor Sampling	(VS)	☐
8	Pressuremeter Testing	(PMT)	☐
9	Vane Shear Testing	(VST)	☐
10	Dilatometer Testing	(DMT)	☐

A list of reference papers providing additional background on the specific tests conducted is provided in the bibliography following the text of the report. If you would like a copy of any of these publications or should you have any questions or comments regarding the contents of this report, please do not hesitate to contact our office at (562) 427-6899.

Sincerely,

Peter Robertson
Technical Director, Gregg Drilling & Testing, Inc.

Cone Penetration Test Sounding Summary

-Table 1-

CPT Sounding Identification	Date	Termination Depth (Feet)	Depth of Groundwater Samples (Feet)	Depth of Soil Samples (Feet)	Depth of Pore Pressure Dissipation Tests (Feet)
FLBGW-2012-1	6/05/12	80	50, 64	-	-
FLBGW-2012-2	6/05/12	75	52, 62	-	-

Bibliography

Lunne, T., Robertson, P.K. and Powell, J.J.M., "Cone Penetration Testing in Geotechnical Practice" E & FN Spon. ISBN 0 419 23750, 1997

Roberston, P.K., "Soil Classification using the Cone Penetration Test", Canadian Geotechnical Journal, Vol. 27, 1990 pp. 151-158.

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DeGroot, D.J. and A.J. Lutenegger, "Reliability of Soil Gas Sampling and Characterization Techniques", International Site Characterization Conference - Atlanta, 1998.

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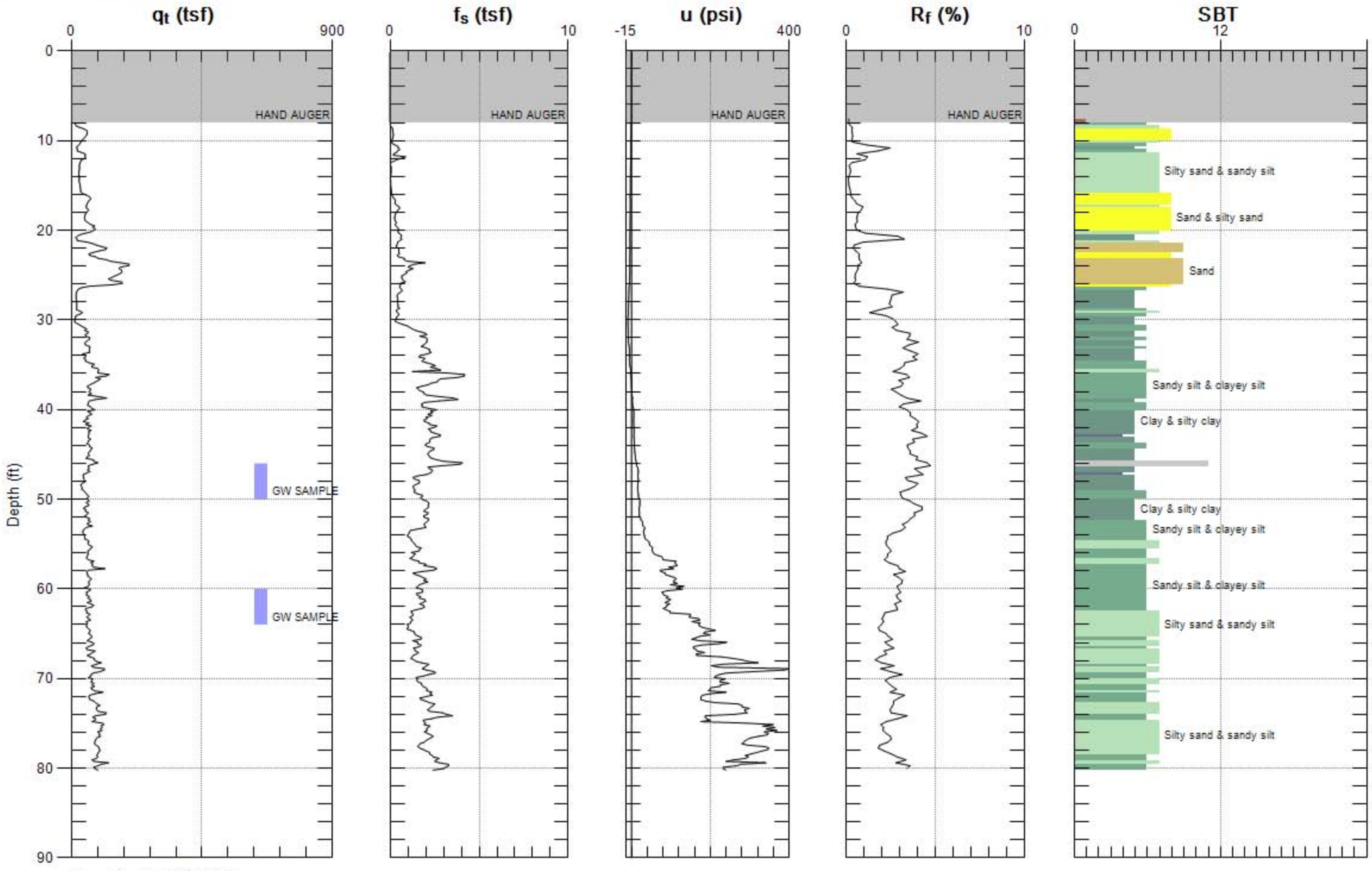
Copies of ASTM Standards are available through www.astm.org

OTIE

Site: CANOGA PARK
Sounding: FLBGW-2012-1
Engineer: L.BUDNY
Date: 6/5/2012 09:01

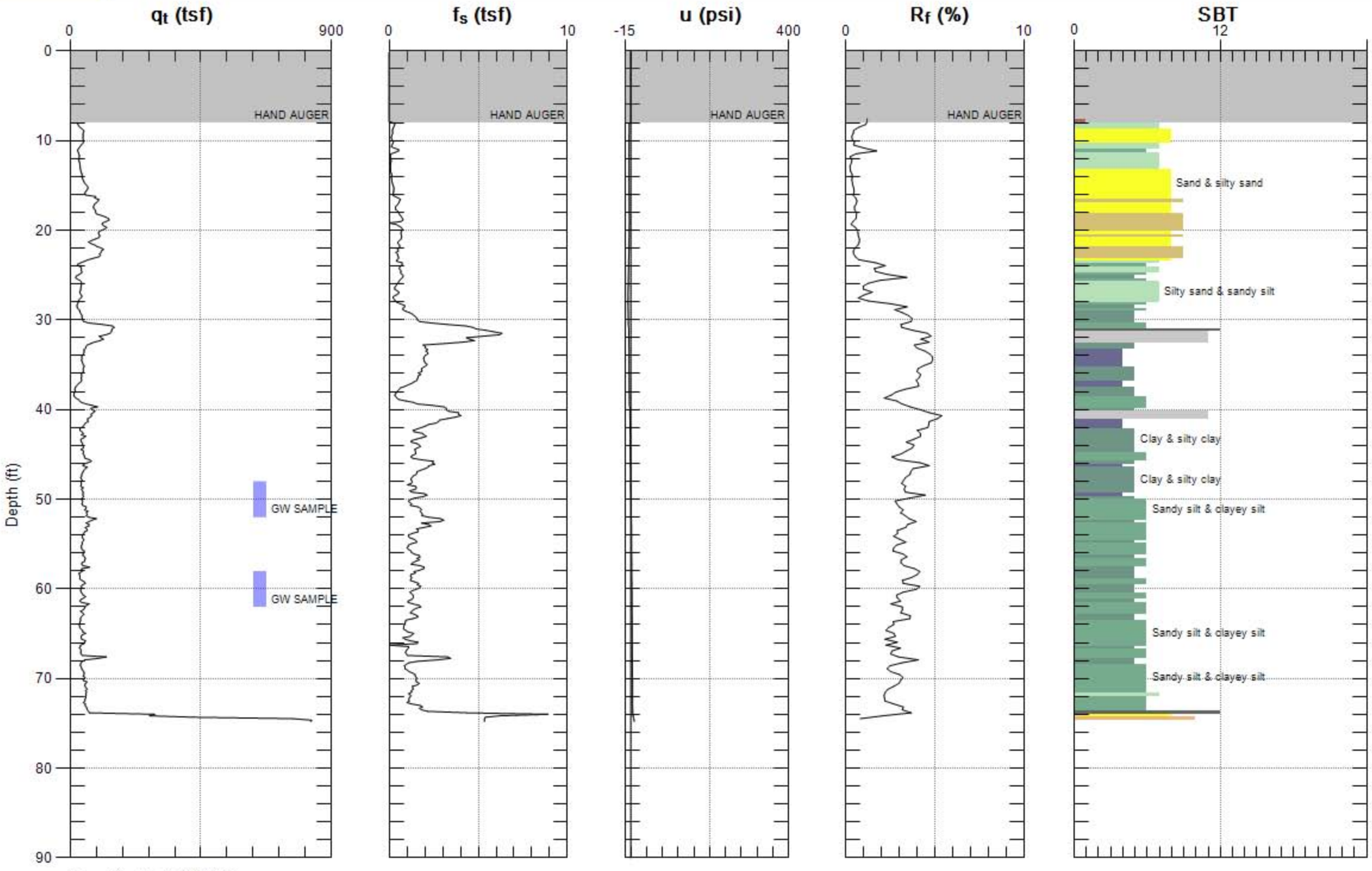


Max. Depth: 80.217 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

OTIE

Site: CANOGA PARK
Engineer: L.BUDNY
Sounding: FLBGW-2012-2
Date: 6/5/2012 01:35



Max. Depth: 74.803 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

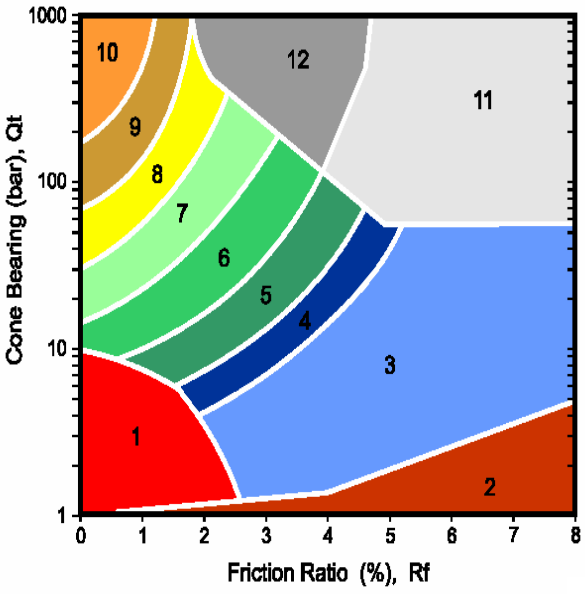
Cone Penetration Test Data & Interpretation

The Cone Penetration Test (CPT) data collected from your site are presented in graphical form in the attached report. The plots include interpreted Soil Behavior Type (SBT) based on the charts described by Robertson (1990). Typical plots display SBT based on the non-normalized charts of Robertson et al (1986). For CPT soundings extending greater than 50 feet, we recommend the use of the normalized charts of Robertson (1990) which can be displayed as SBTn, upon request. The report also includes spreadsheet output of computer calculations of basic interpretation in terms of SBT and SBTn and various geotechnical parameters using current published correlations based on the comprehensive review by Lunne, Robertson and Powell (1997), as well as recent updates by Professor Robertson. The interpretations are presented only as a guide for geotechnical use and should be carefully reviewed. Gregg Drilling & Testing Inc. do not warranty the correctness or the applicability of any of the geotechnical parameters interpreted by the software and do not assume any liability for any use of the results in any design or review. The user should be fully aware of the techniques and limitations of any method used in the software.

Some interpretation methods require input of the groundwater level to calculate vertical effective stress. An estimate of the in-situ groundwater level has been made based on field observations and/or CPT results, but should be verified by the user.

A summary of locations and depths is available in Table 1. Note that all penetration depths referenced in the data are with respect to the existing ground surface.

Note that it is not always possible to clearly identify a soil type based solely on q_t, f_s, and u_2. In these situations, experience, judgment, and an assessment of the pore pressure dissipation data should be used to infer the correct soil behavior type.



(After Robertson, et al., 1986)

ZONE		SBT
1		Sensitive, fine grained
2		Organic materials
3		Clay
4		Silty clay to clay
5		Clayey silt to silty clay
6		Sandy silt to clayey silt
7		Silty sand to sandy silt
8		Sand to silty sand
9		Sand
10		Gravely sand to sand
11		Very stiff fine grained*
12		Sand to clayey sand*

*over consolidated or cemented

Figure SBT

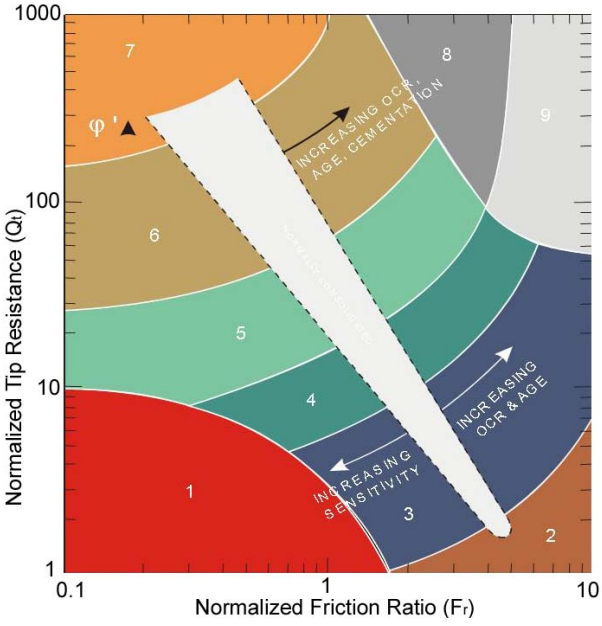
Cone Penetration Test Data & Interpretation

The Cone Penetration Test (CPT) data collected from your site are presented in graphical form in the attached report. The plots include interpreted Soil Behavior Type (SBT) based on the charts described by Robertson (1990). Typical plots display SBT based on the non-normalized charts of Robertson et al (1986). For CPT soundings extending greater than 50 feet, we recommend the use of the normalized charts of Robertson (1990) which can be displayed as SBTn, upon request. The report also includes spreadsheet output of computer calculations of basic interpretation in terms of SBT and SBTn and various geotechnical parameters using current published correlations based on the comprehensive review by Lunne, Robertson and Powell (1997), as well as recent updates by Professor Robertson. The interpretations are presented only as a guide for geotechnical use and should be carefully reviewed. Gregg Drilling & Testing Inc. do not warranty the correctness or the applicability of any of the geotechnical parameters interpreted by the software and do not assume any liability for any use of the results in any design or review. The user should be fully aware of the techniques and limitations of any method used in the software.

Some interpretation methods require input of the groundwater level to calculate vertical effective stress. An estimate of the in-situ groundwater level has been made based on the field observations and/or CPT results, but should be verified by the user.

A summary of locations and depths is available in Table 1. Note that all penetration depths referenced in the data are with respect to the existing ground surface.

Note that it is not always possible to clearly identify a soil type based solely on q_t, f_s, and u_2. In these situations, experience, judgment, and an assessment of the pore pressure dissipation data should be used to infer the correct soil behavior type.



(After Robertson, 1990)

Zone	Normailzed Soil Behavior Type
1	sensitive fine grained
2	organic material
3	clay to silty clay
4	clayey silt to silty clay
5	silty sand to sandy silt
6	clean sands to silty sands
7	gravelly sand to sand
8	very stiff sand to clayey sand
9	very stiff fine grained

Figure SBTn

Cone Penetration Testing Procedure (CPT)

Gregg Drilling carries out all Cone Penetration Tests (CPT) using an integrated electronic cone system, *Figure CPT*. The soundings were conducted using a 20 ton capacity cone with a tip area of 15 cm^2 and a friction sleeve area of 225 cm^2. The cone is designed with an equal end area friction sleeve and a tip end area ratio of 0.80.

The cone takes measurements of cone bearing (q_c), sleeve friction (f_s) and penetration pore water pressure (u_2) at 5-cm intervals during penetration to provide a nearly continuous log. CPT data reduction and interpretation is performed in real time facilitating on-site decision making. The above mentioned parameters are stored on disk for further analysis and reference. All CPT soundings are performed in accordance with revised (2007) ASTM standards (D 5778-07).

The cone also contains a porous filter element located directly behind the cone tip (u_2). It consists of porous plastic and is 5.0mm thick. The filter element is used to obtain penetration pore pressure as the cone is advanced as well as Pore Pressure Dissipation Tests (*PPDT's*) during appropriate pauses in penetration. It should be noted that prior to penetration, the element is fully saturated with oil under vacuum pressure to ensure accurate and fast dissipation.

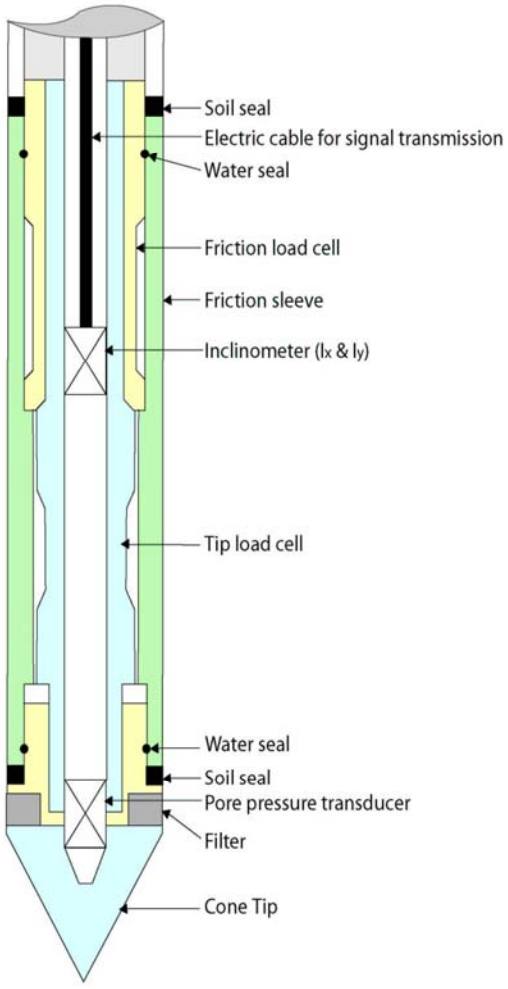


Figure CPT

The cone has the following accuracy:
1 tsf for q_c, 0.02 tsf for f_s and 0.5 psi for u_2. In soft clays, a lower capacity cone should be used for improved accuracy.

When the soundings are complete, the test holes are grouted. The grouting procedures generally consist of pushing a hollow tremie pipe with a "knock out" plug to the termination depth of the CPT hole. Grout is then pumped under pressure as the tremie pipe is pulled from the hole. Disruption or further contamination to the site is therefore minimized.

Cone Penetration Test (CPT) Interpretation

Gregg has recently updated their CPT interpretation and plotting software (2007). The software takes the CPT data and performs basic interpretation in terms of soil behavior type (SBT) and various geotechnical parameters using current published empirical correlations based on the comprehensive review by Lunne, Robertson and Powell (1997). The interpretation is presented in tabular format using MS Excel. The interpretations are presented only as a guide for geotechnical use and should be carefully reviewed. Gregg does not warranty the correctness or the applicability of any of the geotechnical parameters interpreted by the software and does not assume any liability for any use of the results in any design or review. The user should be fully aware of the techniques and limitations of any method used in the software.

The following provides a summary of the methods used for the interpretation. Many of the empirical correlations to estimate geotechnical parameters have constants that have a range of values depending on soil type, geologic origin and other factors. The software uses 'default' values that have been selected to provide, in general, conservatively low estimates of the various geotechnical parameters.

Input:

1 Units for display (Imperial or metric) (atm. pressure, pa = 0.96 tsf or 0.1 MPa)
2 Depth interval to average results,(ft or m). Data are collected at either 0.02 or 0.05m and can be averaged every 1, 3 or 5 intervals.
3 Elevation of ground surface (ft or m)
4 Depth to water table, z_w (ft or m) – input required
5 Net area ratio for cone, a (default to 0.80)
6 Relative Density constant, C_{Dr} (default to 350)
7 Young's modulus number for sands, α (default to 5)
8 Small strain shear modulus number
  a. for sands, S_G (default to 180 for SBT_n 5, 6, 7)
  b. for clays, C_G (default to 50 for SBT_n 1, 2, 3 & 4)
9 Undrained shear strength cone factor for clays, N_{kt} (default to 15)
10 Over Consolidation ratio number, k_{ocr} (default to 0.3)
11 Unit weight of water, (default to γ_w = 62.4 lb/ft^3 or 9.81 kN/m^3)

Column

1 Depth, z, (m) – CPT data is collected in meters
2 Depth (ft)
3 Cone resistance, q_c (tsf or MPa)
4 Sleeve friction, f_s (tsf or MPa)
5 Penetration pore pressure, u (psi or MPa), measured behind the cone (i.e. u_2)
6 Other – any additional data, if collected, e.g. electrical resistivity or UVIF
7 Total cone resistance, q_t (tsf or MPa) $q_t = q_c + u\,(1\text{-}a)$

8	Friction Ratio, R_f (%)	$R_f = (f_s/q_t) \times 100\%$
9	Soil Behavior Type (non-normalized), SBT	see note
10	Unit weight, γ (pcf or kN/m^3)	based on SBT, see note
11	Total overburden stress, σ_v (tsf)	$\sigma_{vo} = \gamma z$
12	Insitu pore pressure, u_o (tsf)	$u_o = \gamma_w (z - z_w)$
13	Effective overburden stress, σ'_{vo} (tsf)	$\sigma'_{vo} = \sigma_{vo} - u_o$
14	Normalized cone resistance, Q_{t1}	$Q_{t1} = (q_t - \sigma_{vo}) / \sigma'_{vo}$
15	Normalized friction ratio, F_r (%)	$F_r = f_s / (q_t - \sigma_{vo}) \times 100\%$
16	Normalized Pore Pressure ratio, B_q	$B_q = u - u_o / (q_t - \sigma_{vo})$
17	Soil Behavior Type (normalized), SBT_n	see note
18	SBT_n Index, I_c	see note
19	Normalized Cone resistance, Q_{tn} (n varies with Ic)	see note
20	Estimated permeability, k_{SBT} (cm/sec or ft/sec)	see note
21	Equivalent SPT N_{60}, blows/ft	see note
22	Equivalent SPT $(N_1)_{60}$ blows/ft	see note
23	Estimated Relative Density, D_r, (%)	see note
24	Estimated Friction Angle, ϕ', (degrees)	see note
25	Estimated Young's modulus, E_s (tsf)	see note
26	Estimated small strain Shear modulus, Go (tsf)	see note
27	Estimated Undrained shear strength, s_u (tsf)	see note
28	Estimated Undrained strength ratio	s_u/σ_v'
29	Estimated Over Consolidation ratio, OCR	see note

Notes:

1 Soil Behavior Type (non-normalized), SBT Lunne et al. (1997) listed below

2 Unit weight, γ either constant at 119 pcf or based on Non-normalized SBT (Lunne et al., 1997 and table below)

3 Soil Behavior Type (Normalized), SBT_n Lunne et al. (1997)

4 SBT_n Index, I_c $I_c = ((3.47 - \log Q_{t1})^2 + (\log F_r + 1.22)^2)^{0.5}$

5 Normalized Cone resistance, Q_{tn} (n varies with Ic)

$Q_{tn} = ((q_t - \sigma_{vo})/pa)\ (pa/(\sigma'_{vo})^n$ and recalculate I_c, then iterate:

When $I_c < 1.64$, n = 0.5 (clean sand)
When $I_c > 3.30$, n = 1.0 (clays)
When $1.64 < I_c < 3.30$, $n = (I_c - 1.64)0.3 + 0.5$
Iterate until the change in n, $\Delta n < 0.01$

6 Estimated permeability, k_{SBT} (based on Normalized SBT_n)
(Lunne et al., 1997 and table below)

7 Equivalent SPT N_{60}, blows/ft Lunne et al. (1997)

$$\frac{(q_t/p_a)}{N_{60}} = 8.5\left(1 - \frac{I_c}{4.6}\right)$$

8 Equivalent SPT $(N_1)_{60}$ blows/ft $(N_1)_{60} = N_{60}\, C_{N,}$
where $C_N = (pa/\sigma'_{vo})^{0.5}$

9 Relative Density, D_r, (%) $D_r^2 = Q_{tn} / C_{Dr}$
Only SBT_n 5, 6, 7 & 8 *Show 'N/A' in zones 1, 2, 3, 4 & 9*

10 Friction Angle, ϕ', (degrees) $\tan\phi' = \frac{1}{2.68}\left[\log\left(\frac{q_c}{\sigma'_{vo}}\right) + 0.29\right]$
Only SBT_n 5, 6, 7 & 8 *Show'N/A' in zones 1, 2, 3, 4 & 9*

11 Young's modulus, E_s $E_s = \alpha\, q_t$
Only SBT_n 5, 6, 7 & 8 *Show 'N/A' in zones 1, 2, 3, 4 & 9*

12 Small strain shear modulus, Go
a. $G_o = S_G\,(q_t\ \sigma'_{vo}\ pa)^{1/3}$ *For SBT_n 5, 6, 7*
b. $G_o = C_G\, q_t$ *For SBT_n 1, 2, 3& 4*
Show 'N/A' in zones 8 & 9

13 Undrained shear strength, s_u $s_u = (q_t - \sigma_{vo}) / N_{kt}$
Only SBT_n 1, 2, 3, 4 & 9 *Show 'N/A' in zones 5, 6, 7 & 8*

14 Over Consolidation ratio, OCR $OCR = k_{ocr}\, Q_{t1}$
Only SBT_n 1, 2, 3, 4 & 9 *Show 'N/A' in zones 5, 6, 7 & 8*

SBT Zones **SBT_n Zones**

The following updated and simplified SBT descriptions have been used in the software:

1	sensitive fine grained	1	sensitive fine grained
2	organic soil	2	organic soil
3	clay	3	clay
4	clay & silty clay	4	clay & silty clay
5	clay & silty clay		
6	sandy silt & clayey silt		
7	silty sand & sandy silt	5	silty sand & sandy silt
8	sand & silty sand	6	sand & silty sand
9	sand		
10	sand	7	sand

11	very dense/stiff soil*	8	very dense/stiff soil*
12	very dense/stiff soil*	9	very dense/stiff soil*

*heavily overconsolidated and/or cemented

Track when soils fall with zones of same description and print that description (i.e. if soils fall only within SBT zones 4 & 5, print 'clays & silty clays')

Estimated Permeability (see Lunne et al., 1997)

SBT_n	Permeability (ft/sec)	(m/sec)
1	$3x\ 10^{-8}$	$1x\ 10^{-8}$
2	$3x\ 10^{-7}$	$1x\ 10^{-7}$
3	$1x\ 10^{-9}$	$3x\ 10^{-10}$
4	$3x\ 10^{-8}$	$1x\ 10^{-8}$
5	$3x\ 10^{-6}$	$1x\ 10^{-6}$
6	$3x\ 10^{-4}$	$1x\ 10^{-4}$
7	$3x\ 10^{-2}$	$1x\ 10^{-2}$
8	$3x\ 10^{-6}$	$1x\ 10^{-6}$
9	$1x\ 10^{-8}$	$3x\ 10^{-9}$

Estimated Unit Weight (see Lunne et al., 1997)

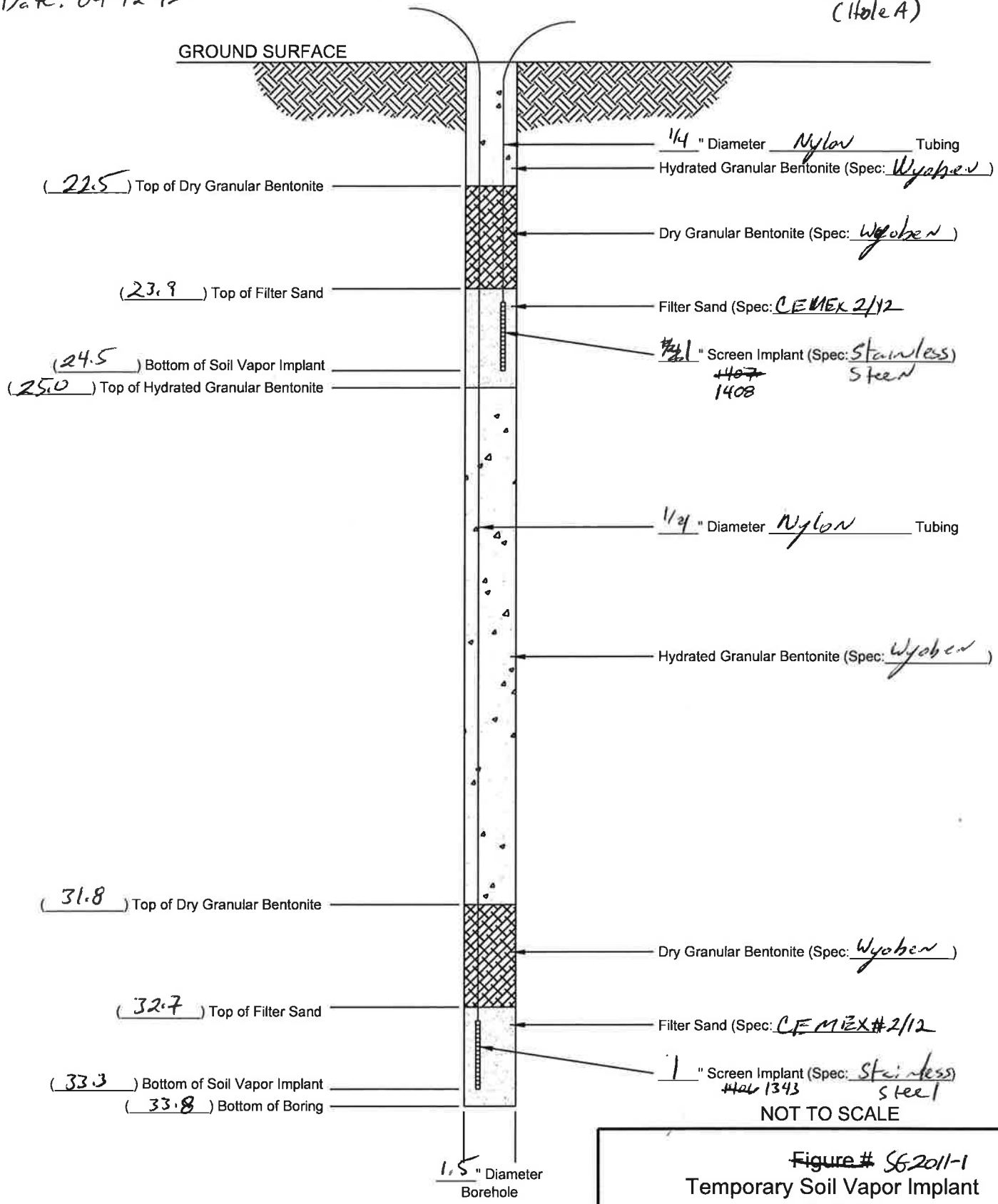
SBT	Approximate Unit Weight (lb/ft^3)	(kN/m^3)
1	111.4	17.5
2	79.6	12.5
3	111.4	17.5
4	114.6	18.0
5	114.6	18.0
6	114.6	18.0
7	117.8	18.5
8	120.9	19.0
9	124.1	19.5
10	127.3	20.0
11	130.5	20.5
12	120.9	19.0

APPENDIX E

Field Documentation

Date: 04-12-12

SG2011-1 (Hole A)



NOT TO SCALE

Notes:

1) ' = feet; " = inches; bgs = below ground surface

~~Figure #~~ SG2011-1
Temporary Soil Vapor Implant Schematic (Hole A)

~~Project Site~~ Conga Park
~~Street Address., City, State~~
2009025-06-0620

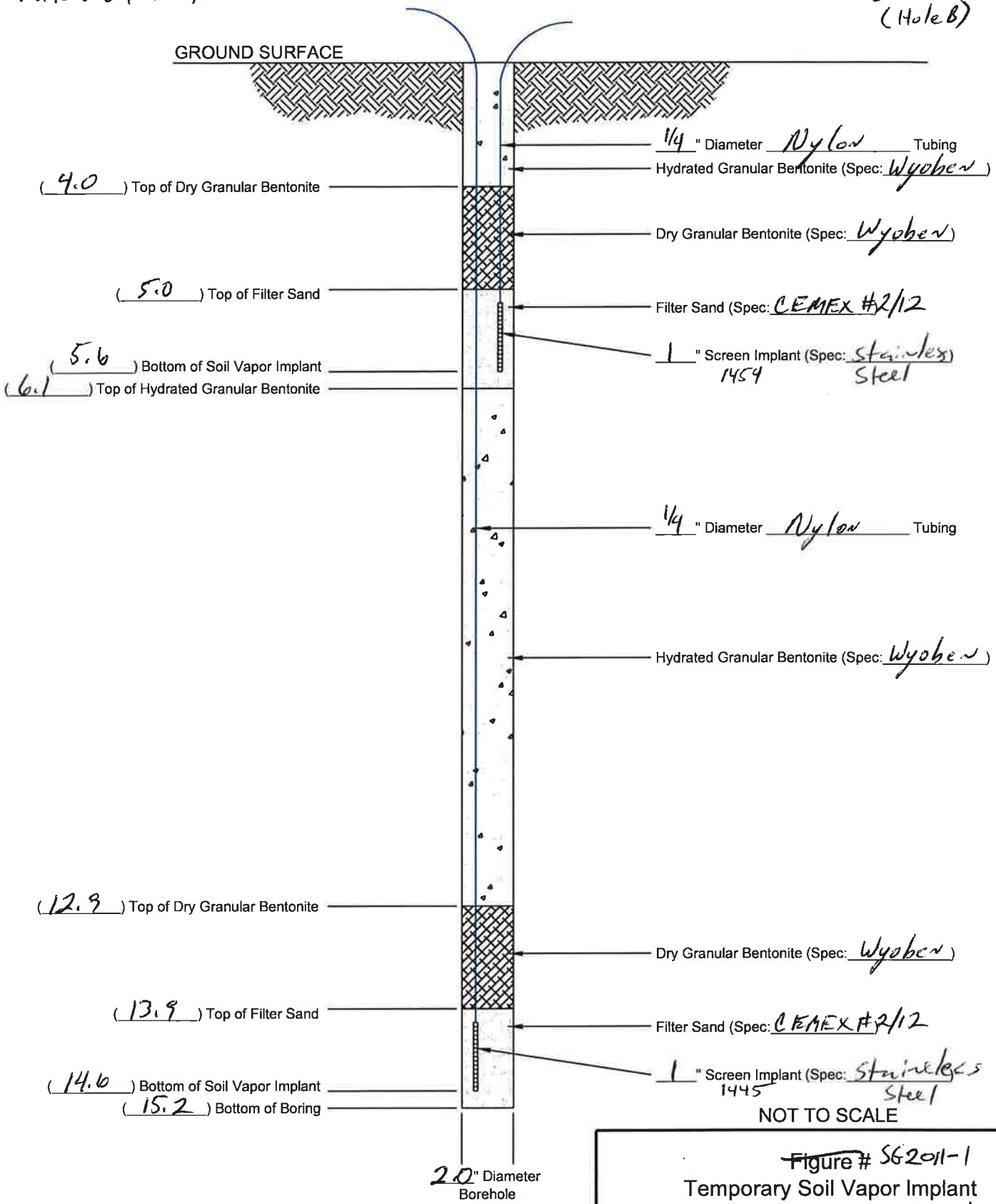
OTIE Oneida Total Integrated Enterprises

Date: Month ##, 20##

File: well schematics.dwg

Date: 04-12-12

SG2011-1 (Hole B)



NOT TO SCALE

Notes:

1) ' = feet; " = inches; bgs = below ground surface

~~Figure~~ # SG2011-1

Temporary Soil Vapor Implant Schematic (Hole B)

~~Project Site~~ Canaga Park

~~Street Address., City, State~~ 2009025-06-0620

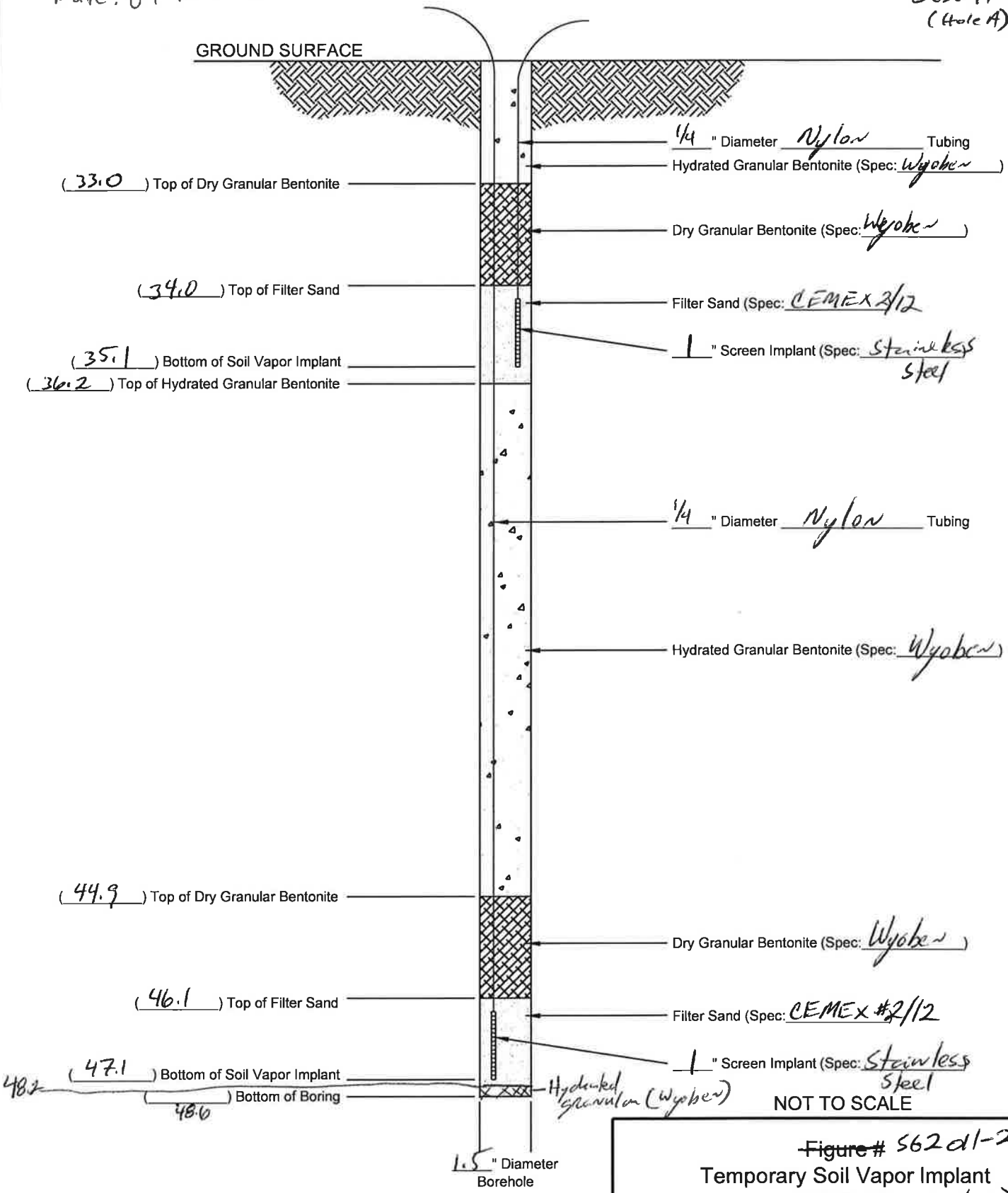
OTIE Oneida Total Integrated Enterprises

Date: Month ##, 20##

File: well schematics.dwg

Date: 04-12-2012

SG2011-2
(Hole A)



NOT TO SCALE

~~Figure #~~ SG2011-2
Temporary Soil Vapor Implant Schematic (Hole A)

Project Site Canoga Park
~~Street Address, City, State~~
2009025-06-0620

OTIE Oneida Total Integrated Enterprises

Date: Month ##, 20##

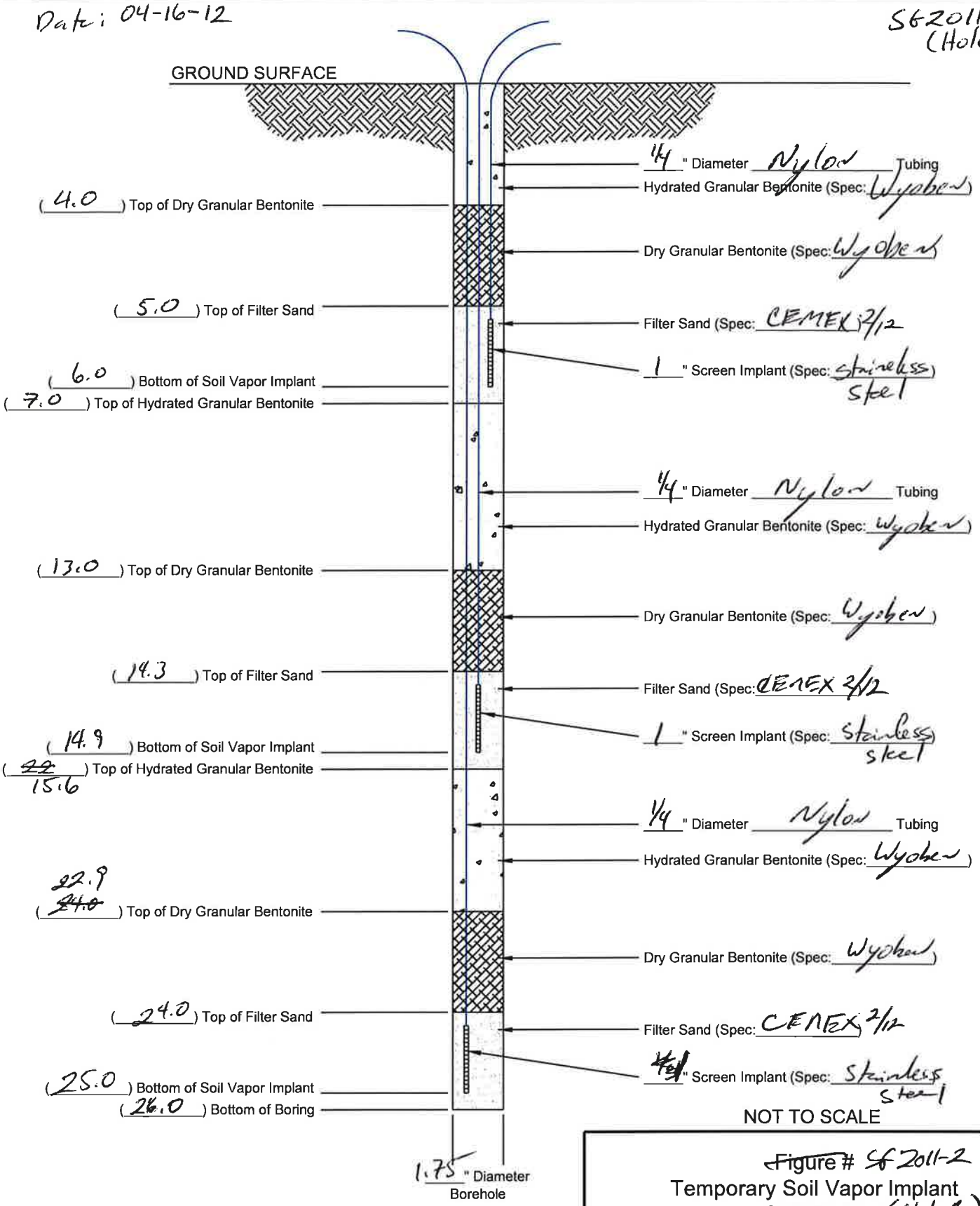
File: well schematics.dwg

Notes:

1) ' = feet; " = inches; bgs = below ground surface

Date: 04-16-12

SG2011-2 (HoleB)



NOT TO SCALE

~~Figure #~~ SG 2011-2
Temporary Soil Vapor Implant Schematic (HoleB)

~~Project Site~~ Canaseraga

Street Address., City, State

2009025-06-0620

OTIE Oneida Total Integrated Enterprises

Date: Month ##, 20##

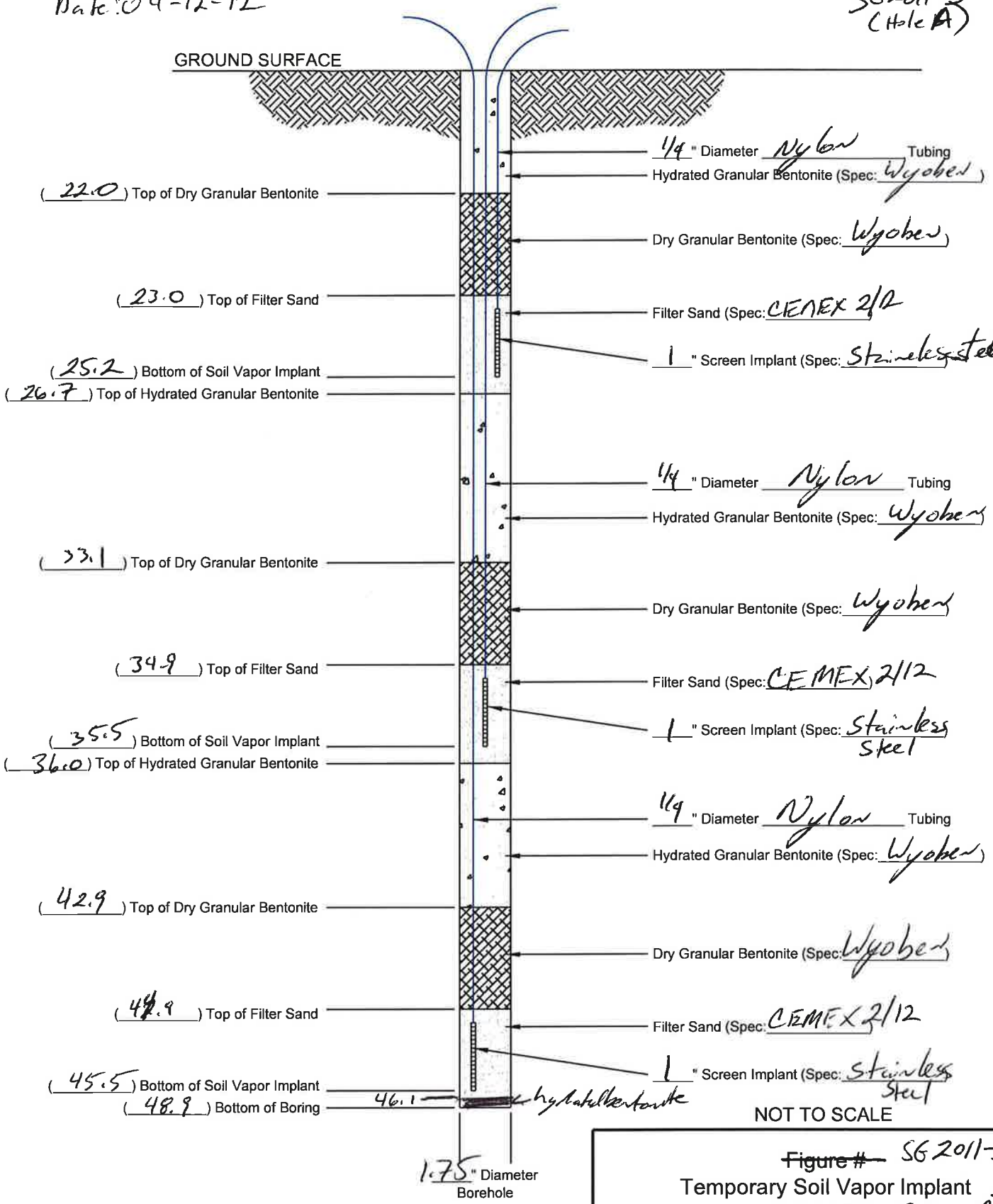
File: well schematics.dwg

Notes:

1) ' = feet; " = inches; bgs = below ground surface

Date: 04-12-12

SG2011-3 (Hole A)



NOT TO SCALE

Notes:

1) ' = feet; " = inches; bgs = below ground surface

~~Figure #~~ SG2011-3

Temporary Soil Vapor Implant Schematic (Hole A)

~~Project Site~~ Canoga Park

Street Address., City, State

2009025-06-0620

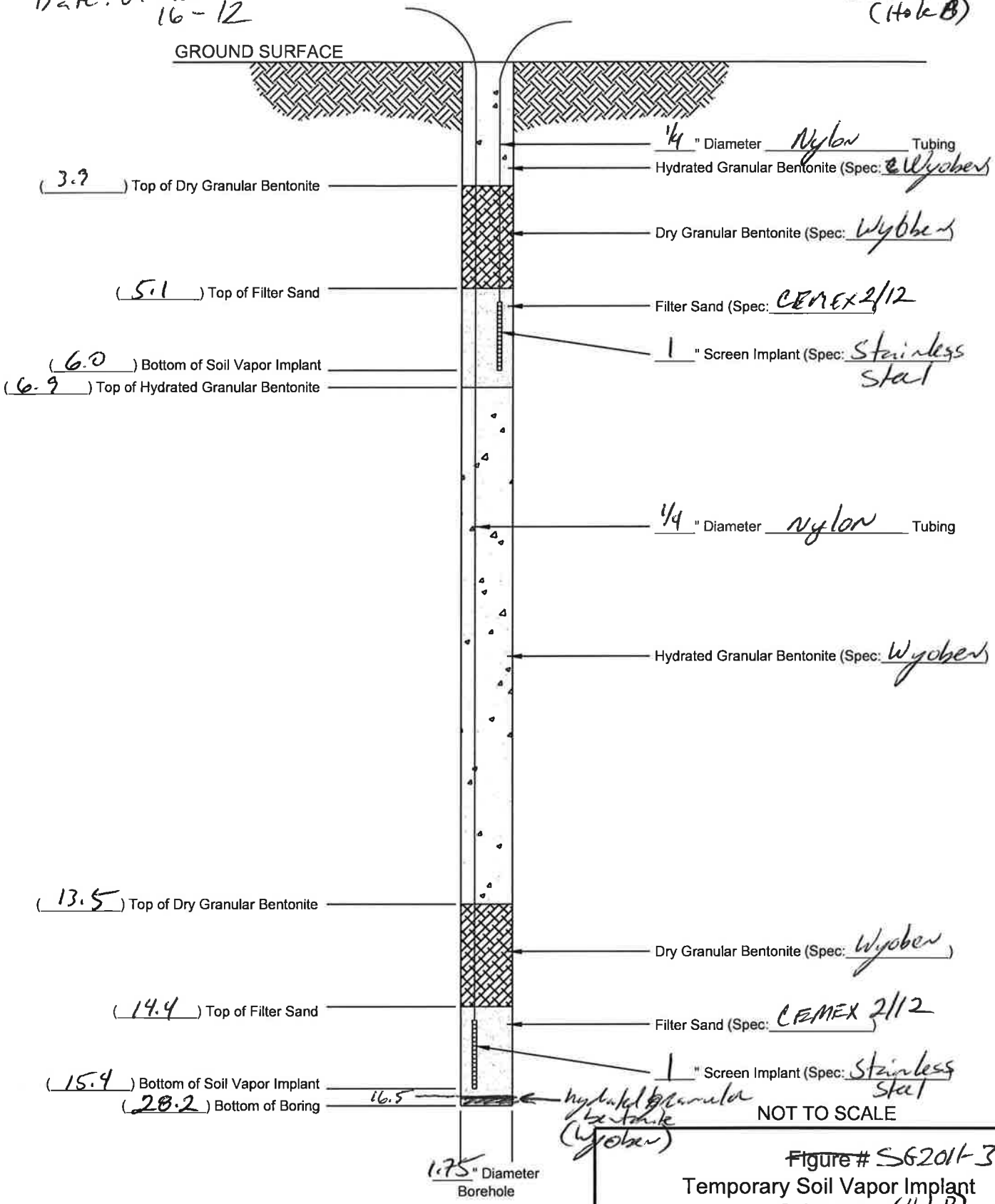
OTIE Oneida Total Integrated Enterprises

Date: Month ##, 20##

File: well schematics.dwg

Date: 04-Q- 16-12

SG 2011-3 (Hole B)



NOT TO SCALE

Notes:

1) ' = feet; " = inches; bgs = below ground surface

~~Figure #~~ SG2011-3

Temporary Soil Vapor Implant Schematic (Hole B)

~~Project Site~~ Casa Cangahar

Street Address., City, State

20050225-06-0620

OTIE Oneida Total Integrated Enterprises

Date: Month ##, 20##

File: well schematics.dwg

Canoga Park Freon 11 & Confirmatory Investigation 2009025-06-0620

Soil Gas Sampling Log

Assumed Effective Porosity	30%
Cubic Centimeters to Cubic Feet	28,316.85 cc/ft

Sample ID	Probe Installation Date/Time	Sample Date/Time	Depth of Probe (ft)	Diameter of Boring (in)	Bottom of Filter Pack (ft)	Top of Filter Pack (ft)	Length of Filter Pack (ft)	Bottom of Dry Granular Bentonite (ft)	Top of Dry Granular Bentonite (ft)	Length of Dry Granular Bentonite (ft)	Volume of Filter Pack and Dry Granular Bentonite (cc)	Length of Tubing (ft)	Diameter of Tubing (in)	Volume of Tubing (cc)	Total Purge Volume (cc)	Purge Flow Rate (cc/min)	Purge Volumes	Total Purge Time (min)	Summa Canister Number	Flow Control Valve Number	Sample Flow Rate(mL/min)	Initial Pressure Reading (in Hg)	Final Pressure Reading (in Hg)	Boring Advanced by	
SG2011-1-5.6	4/12/12:1454	4-17-12/1449	5.6	2.00	6.1	5.0	1.1	5.0	4.0	1.0	389	6.6	0.25	64	453	200	3	7	D466	A255	200	-29.0	-26.0	DPT	slow fill
SG2011-1-14.6	4/12/12:1445	4-17-12/1409	14.6	2.00	15.2	13.9	1.3	13.9	12.9	1.0	426	16.1	0.25	155	582	200	3	9	D407	A307	200	-35.0	-5.0	DPT	
SG2011-1-24.5	4/12/12:1408	4-17-12/1407	24.5	1.50	25.0	23.9	1.1	23.9	22.5	1.4	261	25.5	0.25	246	507	200	3	8	D671	A344	200	-30.0	-5.0	CPT	
SG2011-1-33.3	4/12/12:1343	4-17-12/1406	33.3	1.50	33.8	32.7	1.1	32.7	31.8	0.9	208	34.8	0.25	336	544	200	3	8	D715	A86	200	-30.0	-6.0	CPT	
SG2011-2-6.0	4/16/12:0910	4-17-12/1726	6.0	1.75	7.0	5.0	2.0	5.0	4.0	1.0	426	6.5	0.25	63	488	200	3	7	D080	A200	200	-30.0	-5.5	CPT	slow fill
SG2011-2-14.9	4/16/12:0904	4-17-12/1615	14.9	1.75	15.6	14.3	1.3	14.3	13.0	1.3	369	15.9	0.25	153	522	200	3	8	D404	A123	200	-30.0	-4.0	CPT	
SG2011-2-25.0	4/16/12:0853	4-17-12/1627	25.0	1.75	26.0	24.0	2.0	24.0	22.9	1.1	440	26.5	0.25	256	696	200	3	10	D767	A024	200	-30.0	-5.0	CPT	
SG2011-2-35.1	4/12/12:1600	4-17-12/1642	35.1	1.50	36.2	34.0	2.2	34.0	33.0	1.0	334	36.1	0.25	348	682	200	3	10	0307	A41	200	-30.0	-5.0	CPT	
SG2011-2-47.1	4/12/12:1553	4-17-12/1634	47.1	1.50	48.2	46.1	2.1	46.1	44.9	1.2	344	48.6	0.25	469	813	200	3	12	D209	A017	200	-31.0	-4.0	CPT	
SG2011-3-6.0	4/16/12:0831	4-17-12/1532	6.0	1.75	6.9	5.1	1.8	5.1	3.9	1.2	426	7	0.25	68	493	200	3	7	D548	A110	200	-29.0	-5.0	CPT	
SG2011-3-15.4	4/16/12:0820	4-17-12/1530	15.4	1.75	16.5	14.4	2.1	14.4	13.5	0.9	426	16.9	0.25	163	589	200	3	9	D347	A267	200	-31.0	-3.0	CPT	
SG2011-3-25.2	4/16/12:0809	4-17-12/1529	25.2	1.75	26.7	23.0	3.7	23.0	22.0	1.0	667	25.7	0.25	248	915	200	3	14	D807	A064	200	-31.0	-4.0	CPT	
SG2011-3-35.5	4/16/12:0758	4-17-12/1527	35.5	1.75	36.0	34.9	1.1	34.9	33.1	1.8	411	36.5	0.25	352	764	200	3	11	D869	A152	200	-29.5	-4.0	CPT	
SG2011-3-45.5	4/16/12:0747	4-17-12/1608	45.5	1.75	46.1	44.9	1.2	44.9	42.9	2.0	454	47	0.25	454	908	200	3	14	D246	A106	200	-35.0	-5.0	CPT	slow fill

- Samples: LEB & TP
- LPT = Cone penetration test
- DPT = direct push technology.
- Tracer Gas is 70% Isopropanol

Screening Samples w/ Calibrated FID

	BKG	Bag
SG2011-1-5.6 =	0.7	0.0 BO
SG2011-1-14.6 =	0.7	0.0 BO
SG2011-1-24.5 =	0.9	0.0 BO
SG2011-1-33.3 =	2.0	8.3
SG2011-2-6.0 =	7.9	3.6
SG2011-2-14.9 =	6.8	13.0
SG2011-2-25.0 =	9.6	0.0
SG2011-2-35.1 =	7.9	0.0
SG2011-2-47.1 =	6.0	0.0
SG2011-3-6.0 =	0.6	0.0
SG2011-3-15.4 =	0.0	0.0
SG2011-3-25.2 =	0.2	0.0
SG2011-3-35.5 =	3.0	0.0
SG2011-3-45.5 =	9.2	9.6

- BKG = background reading before analyzing sample bags.
- BO = blow out of H-Flare

☆ Collect duplicate sample at SG2011-1-33.3 and at 1558 hrs on 4-17-2012 and labeled as SG2011-1A-33.3

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☐	☑
Vault Seal	☐	☑
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☐	☑

Well Number: CM-10 **Date:** 4-30-12 **Project No:** 2009025

A. Depth to water 44.78 feet **Location:** Raytheon Canoga

B. Total depth of well 52' feet **Event:**

C. Standing water in casing _____ feet **Sampler:** BJ **Other:**

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer _____ sec **Discharge Timer** _____ sec **Pressure:** _____ psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			7.93	.365	107.0	1.40	22.9	.2	2.3	+193
1			7.91	.361	96.8	.96	↓	.2	2.3	+195
1		1110	7.91	.360	93.2	.95	↓	.2	2.3	+196
1.6 gals		→	7.91	.360	89.7	.93		.2	2.3	+196
1										
1										
1										
1										
1										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other: _____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other: _____ **Sample depth** _____ ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Water Meter Used:
U-22-TN-01 ☐
U-22-TN-02 ☑
Troll ☐
Other: _____

Additional Comments: Field Blank = 1245 hrs. Crook in well, must be careful not to stick tools!

OTIE

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: MW-31 **Date:** 4-30-12 **Project No:** 2009025

A. Depth to water 49.42 feet **Location:** Raytheon Canoga

B. Total depth of well 67 feet **Event:**

C. Standing water in casing _____ feet **Sampler:** BJ **Other:**

D. PID _____ ppm

Screened Interval _____ to _____ ft bge

Inlet Timer _____ sec **Discharge Timer** _____ sec **Pressure:** _____ psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			8.06	.377	49.8	.78	22.4	.2	2.4	-94
1			8.01	.379	46.2	.69		.2	2.4	-101
1			8.00	.379	44.3	.67		.2	2.6	-104
2 1/2 gals		1205	7.99	.380	40.6	.63	↓	.2	2.6	-128
1			7.97	.381	36.7	.59		.2	2.6	-129
1			7.97	3.81	32.4	.57		.2	2.6	-129
1										
1										
1										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☒ Monsoon ☐ Other: _____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☒ Monsoon ☐ Other: _____ **Sample depth** _____ ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Data/Time of QC Sample: _____ **Sample ID:** _____

Water Meter Used:
U-22-TN-01 ☐
U-22-TN-02 ☑
Troll ☐
Other: _____

Additional Comments:

OTIE

APPENDIX F

Analytical Laboratory Reports

Calscience Environmental Laboratories, Inc.

Supplemental Report 1

The original report has been revised/corrected.

CALSCIENCE

WORK ORDER NUMBER: 12-04-1150

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: OTIE

Client Project Name: Canoga Park / 2009025

Attention: Sarah Van Middlesworth
317 East Main Street
Ventura, CA 93001-2624

Approved for release on 04/25/2012 by:
Virendra Patel
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Calscience Environmental Laboratories, Inc.

Client:	OTIE	Work Order:	12-04-1150
	317 East Main Street	Project Name:	Canoga Park / 2009025
	Ventura, CA 93001-2624	Received:	04/18/12 18:00
Attn:	Sarah Van Middlesworth		

DETECTIONS SUMMARY

Client Sample ID / Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
SG2011-1-33.3						
Benzene	**14**		8.0	ppb (v/v)	EPA TO-15	N/A
Ethylbenzene	**9.9**		8.0	ppb (v/v)	EPA TO-15	N/A
Tetrachloroethene	**110**		8.0	ppb (v/v)	EPA TO-15	N/A
Toluene	**19**		8.0	ppb (v/v)	EPA TO-15	N/A
Trichlorofluoromethane	**46000**		500	ppb (v/v)	EPA TO-15	N/A
1,1,2-Trichloro-1,2,2-Trifluoroethane	**88**		24	ppb (v/v)	EPA TO-15	N/A
SG2011-1-24.5						
Tetrachloroethene	**69**		6.2	ppb (v/v)	EPA TO-15	N/A
Toluene	**11**		6.2	ppb (v/v)	EPA TO-15	N/A
Trichlorofluoromethane	**33000**		400	ppb (v/v)	EPA TO-15	N/A
1,1,2-Trichloro-1,2,2-Trifluoroethane	**78**		19	ppb (v/v)	EPA TO-15	N/A
SG2011-1-14.6						
Tetrachloroethene	**31**		20	ppb (v/v)	EPA TO-15	N/A
Trichlorofluoromethane	**40000**		1000	ppb (v/v)	EPA TO-15	N/A
SG2011-1-5.6						
Acetone	**120**		25	ppb (v/v)	EPA TO-15	N/A
Benzene	**9.0**		6.2	ppb (v/v)	EPA TO-15	N/A
Tetrachloroethene	**21**		6.2	ppb (v/v)	EPA TO-15	N/A
Trichlorofluoromethane	**31000**		400	ppb (v/v)	EPA TO-15	N/A
1,1,2-Trichloro-1,2,2-Trifluoroethane	**71**		19	ppb (v/v)	EPA TO-15	N/A
SG2011-3-45.5						
Acetone	**180**		20	ppb (v/v)	EPA TO-15	N/A
2-Butanone	**11**		1.5	ppb (v/v)	EPA TO-15	N/A
Chloromethane	**1.1**		0.50	ppb (v/v)	EPA TO-15	N/A
Dichlorodifluoromethane	**0.69**		0.50	ppb (v/v)	EPA TO-15	N/A
Toluene	**0.72**		0.50	ppb (v/v)	EPA TO-15	N/A
Trichlorofluoromethane	**14**		1.0	ppb (v/v)	EPA TO-15	N/A

*MDL is shown.

Calscience Environmental Laboratories, Inc.

Client:	OTIE	Work Order:	12-04-1150
	317 East Main Street	Project Name:	Canoga Park / 2009025
	Ventura, CA 93001-2624	Received:	04/18/12 18:00
Attn:	Sarah Van Middlesworth		

DETECTIONS SUMMARY

Client Sample ID / Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
SG2011-3-35.5						
Acetone	**85**		40	ppb (v/v)	EPA TO-15	N/A
Benzene	**20**		10	ppb (v/v)	EPA TO-15	N/A
Tetrachloroethene	**40**		10	ppb (v/v)	EPA TO-15	N/A
Toluene	**22**		10	ppb (v/v)	EPA TO-15	N/A
Trichlorofluoromethane	**30000**		500	ppb (v/v)	EPA TO-15	N/A
1,1,2-Trichloro-1,2,2-Trifluoroethane	**100**		30	ppb (v/v)	EPA TO-15	N/A
SG2011-3-25.2						
Acetone	**73**		32	ppb (v/v)	EPA TO-15	N/A
Benzene	**22**		8.0	ppb (v/v)	EPA TO-15	N/A
Tetrachloroethene	**51**		8.0	ppb (v/v)	EPA TO-15	N/A
Trichlorofluoromethane	**27000**		400	ppb (v/v)	EPA TO-15	N/A
1,1,2-Trichloro-1,2,2-Trifluoroethane	**99**		24	ppb (v/v)	EPA TO-15	N/A
SG2011-3-15.4						
Acetone	**83**		16	ppb (v/v)	EPA TO-15	N/A
Benzene	**24**		4.0	ppb (v/v)	EPA TO-15	N/A
2-Butanone	**15**		12	ppb (v/v)	EPA TO-15	N/A
Dichlorodifluoromethane	**5.7**		4.0	ppb (v/v)	EPA TO-15	N/A
Tetrachloroethene	**71**		4.0	ppb (v/v)	EPA TO-15	N/A
Toluene	**5.6**		4.0	ppb (v/v)	EPA TO-15	N/A
Trichlorofluoromethane	**27000**		500	ppb (v/v)	EPA TO-15	N/A
1,1,2-Trichloro-1,2,2-Trifluoroethane	**110**		12	ppb (v/v)	EPA TO-15	N/A
SG2011-3-6.0						
Acetone	**160**		32	ppb (v/v)	EPA TO-15	N/A
Benzene	**20**		8.0	ppb (v/v)	EPA TO-15	N/A
Tetrachloroethene	**36**		8.0	ppb (v/v)	EPA TO-15	N/A
Toluene	**19**		8.0	ppb (v/v)	EPA TO-15	N/A
Trichlorofluoromethane	**24000**		400	ppb (v/v)	EPA TO-15	N/A
1,1,2-Trichloro-1,2,2-Trifluoroethane	**100**		24	ppb (v/v)	EPA TO-15	N/A

*MDL is shown.

Calscience Environmental Laboratories, Inc.

Client:	OTIE	Work Order:	12-04-1150
	317 East Main Street	Project Name:	Canoga Park / 2009025
	Ventura, CA 93001-2624	Received:	04/18/12 18:00
Attn:	Sarah Van Middlesworth		

DETECTIONS SUMMARY

Client Sample ID / Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
SG2011-2-47.1						
Acetone	**150**		32	ppb (v/v)	EPA TO-15	N/A
Benzene	**13**		8.0	ppb (v/v)	EPA TO-15	N/A
Tetrachloroethene	**94**		8.0	ppb (v/v)	EPA TO-15	N/A
Toluene	**19**		8.0	ppb (v/v)	EPA TO-15	N/A
Trichlorofluoromethane	**25000**		500	ppb (v/v)	EPA TO-15	N/A
1,1,2-Trichloro-1,2,2-Trifluoroethane	**58**		24	ppb (v/v)	EPA TO-15	N/A
SG2011-2-35.1						
Acetone	**190**		25	ppb (v/v)	EPA TO-15	N/A
Tetrachloroethene	**75**		6.2	ppb (v/v)	EPA TO-15	N/A
Trichlorofluoromethane	**19000**		250	ppb (v/v)	EPA TO-15	N/A
1,1,2-Trichloro-1,2,2-Trifluoroethane	**43**		19	ppb (v/v)	EPA TO-15	N/A
SG2011-2-25.0						
Acetone	**170**		32	ppb (v/v)	EPA TO-15	N/A
Benzene	**13**		8.0	ppb (v/v)	EPA TO-15	N/A
Tetrachloroethene	**58**		8.0	ppb (v/v)	EPA TO-15	N/A
Toluene	**21**		8.0	ppb (v/v)	EPA TO-15	N/A
Trichlorofluoromethane	**18000**		500	ppb (v/v)	EPA TO-15	N/A
1,1,2-Trichloro-1,2,2-Trifluoroethane	**52**		24	ppb (v/v)	EPA TO-15	N/A
SG2011-2-14.9						
Acetone	**160**		16	ppb (v/v)	EPA TO-15	N/A
Benzene	**23**		4.0	ppb (v/v)	EPA TO-15	N/A
Ethylbenzene	**17**		4.0	ppb (v/v)	EPA TO-15	N/A
o-Xylene	**6.5**		4.0	ppb (v/v)	EPA TO-15	N/A
p/m-Xylene	**17**		16	ppb (v/v)	EPA TO-15	N/A
Tetrachloroethene	**84**		4.0	ppb (v/v)	EPA TO-15	N/A
Trichlorofluoromethane	**15000**		200	ppb (v/v)	EPA TO-15	N/A
1,1,2-Trichloro-1,2,2-Trifluoroethane	**47**		12	ppb (v/v)	EPA TO-15	N/A
SG2011-2-6.0						
Acetone	**280**		32	ppb (v/v)	EPA TO-15	N/A
Tetrachloroethene	**14**		8.0	ppb (v/v)	EPA TO-15	N/A
Trichlorofluoromethane	**1600**		16	ppb (v/v)	EPA TO-15	N/A

*MDL is shown.

Calscience Environmental Laboratories, Inc.

Client:	OTIE	Work Order:	12-04-1150
	317 East Main Street	Project Name:	Canoga Park / 2009025
	Ventura, CA 93001-2624	Received:	04/18/12 18:00
Attn:	Sarah Van Middlesworth		

DETECTIONS SUMMARY

Client Sample ID / Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
SG2011-1A-33.3						
Acetone	**160**		25	ppb (v/v)	EPA TO-15	N/A
Benzene	**9.5**		6.2	ppb (v/v)	EPA TO-15	N/A
Tetrachloroethene	**90**		6.2	ppb (v/v)	EPA TO-15	N/A
Toluene	**13**		6.2	ppb (v/v)	EPA TO-15	N/A
Trichlorofluoromethane	**38000**		400	ppb (v/v)	EPA TO-15	N/A
1,1,2-Trichloro-1,2,2-Trifluoroethane	**72**		19	ppb (v/v)	EPA TO-15	N/A

Subcontracted analyses, if any, are not included in this summary.

*MDL is shown.

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	04/18/12
317 East Main Street		Work Order No:	12-04-1150
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ppb (v/v)

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG2011-1-33.3	**12-04-1150-1-A**	**04/17/12 14:06**	**Air**	**GC/MS HH**	**N/A**	**04/20/12 22:53**	**120420L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	32	16		t-1,2-Dichloroethene	ND	8.0	16	
Benzene	14	8.0	16		t-1,3-Dichloropropene	ND	16	16	
Benzyl Chloride	ND	24	16		Ethylbenzene	9.9	8.0	16	
Bromodichloromethane	ND	8.0	16		4-Ethyltoluene	ND	8.0	16	
Bromoform	ND	8.0	16		Hexachloro-1,3-Butadiene	ND	24	16	
Bromomethane	ND	8.0	16		2-Hexanone	ND	24	16	
2-Butanone	ND	24	16		Methyl-t-Butyl Ether (MTBE)	ND	32	16	
Carbon Disulfide	ND	32	16		Methylene Chloride	ND	80	16	
Carbon Tetrachloride	ND	8.0	16		4-Methyl-2-Pentanone	ND	24	16	
Chlorobenzene	ND	8.0	16		o-Xylene	ND	8.0	16	
Chloroethane	ND	8.0	16		p/m-Xylene	ND	32	16	
Chloroform	ND	8.0	16		Styrene	ND	24	16	
Chloromethane	ND	8.0	16		Tetrachloroethene	110	8.0	16	
Dibromochloromethane	ND	8.0	16		Toluene	19	8.0	16	
Dichlorodifluoromethane	ND	8.0	16		Trichloroethene	ND	8.0	16	
1,1-Dichloroethane	ND	8.0	16		Trichlorofluoromethane	46000	500	500	
1,1-Dichloroethene	ND	8.0	16		1,1,2-Trichloro-1,2,2-Trifluoroethane	88	24	16	
1,2-Dibromoethane	ND	8.0	16		1,1,1-Trichloroethane	ND	8.0	16	
Dichlorotetrafluoroethane	ND	32	16		1,1,2-Trichloroethane	ND	8.0	16	
1,2-Dichlorobenzene	ND	8.0	16		1,3,5-Trimethylbenzene	ND	8.0	16	
1,2-Dichloroethane	ND	8.0	16		1,1,2,2-Tetrachloroethane	ND	16	16	
1,2-Dichloropropane	ND	8.0	16		1,2,4-Trimethylbenzene	ND	24	16	
1,3-Dichlorobenzene	ND	8.0	16		1,2,4-Trichlorobenzene	ND	32	16	
1,4-Dichlorobenzene	ND	8.0	16		Vinyl Acetate	ND	32	16	
c-1,3-Dichloropropene	ND	8.0	16		Vinyl Chloride	ND	8.0	16	
c-1,2-Dichloroethene	ND	8.0	16		Isopropanol	ND	80	16	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	87	57-129		1,2-Dichloroethane-d4	102	47-137	
Toluene-d8	96	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	04/18/12
317 East Main Street		Work Order No:	12-04-1150
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ppb (v/v)

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG2011-1-24.5	**12-04-1150-2-A**	**04/17/12 14:07**	**Air**	**GC/MS HH**	**N/A**	**04/20/12 23:41**	**120420L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	25	12.5		t-1,2-Dichloroethene	ND	6.2	12.5	
Benzene	ND	6.2	12.5		t-1,3-Dichloropropene	ND	12	12.5	
Benzyl Chloride	ND	19	12.5		Ethylbenzene	ND	6.2	12.5	
Bromodichloromethane	ND	6.2	12.5		4-Ethyltoluene	ND	6.2	12.5	
Bromoform	ND	6.2	12.5		Hexachloro-1,3-Butadiene	ND	19	12.5	
Bromomethane	ND	6.2	12.5		2-Hexanone	ND	19	12.5	
2-Butanone	ND	19	12.5		Methyl-t-Butyl Ether (MTBE)	ND	25	12.5	
Carbon Disulfide	ND	25	12.5		Methylene Chloride	ND	62	12.5	
Carbon Tetrachloride	ND	6.2	12.5		4-Methyl-2-Pentanone	ND	19	12.5	
Chlorobenzene	ND	6.2	12.5		o-Xylene	ND	6.2	12.5	
Chloroethane	ND	6.2	12.5		p/m-Xylene	ND	25	12.5	
Chloroform	ND	6.2	12.5		Styrene	ND	19	12.5	
Chloromethane	ND	6.2	12.5		Tetrachloroethene	69	6.2	12.5	
Dibromochloromethane	ND	6.2	12.5		Toluene	11	6.2	12.5	
Dichlorodifluoromethane	ND	6.2	12.5		Trichloroethene	ND	6.2	12.5	
1,1-Dichloroethane	ND	6.2	12.5		Trichlorofluoromethane	33000	400	400	
1,1-Dichloroethene	ND	6.2	12.5		1,1,2-Trichloro-1,2,2-Trifluoroethane	78	19	12.5	
1,2-Dibromoethane	ND	6.2	12.5		1,1,1-Trichloroethane	ND	6.2	12.5	
Dichlorotetrafluoroethane	ND	25	12.5		1,1,2-Trichloroethane	ND	6.2	12.5	
1,2-Dichlorobenzene	ND	6.2	12.5		1,3,5-Trimethylbenzene	ND	6.2	12.5	
1,2-Dichloroethane	ND	6.2	12.5		1,1,2,2-Tetrachloroethane	ND	12	12.5	
1,2-Dichloropropane	ND	6.2	12.5		1,2,4-Trimethylbenzene	ND	19	12.5	
1,3-Dichlorobenzene	ND	6.2	12.5		1,2,4-Trichlorobenzene	ND	25	12.5	
1,4-Dichlorobenzene	ND	6.2	12.5		Vinyl Acetate	ND	25	12.5	
c-1,3-Dichloropropene	ND	6.2	12.5		Vinyl Chloride	ND	6.2	12.5	
c-1,2-Dichloroethene	ND	6.2	12.5		Isopropanol	ND	62	12.5	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	92	57-129			1,2-Dichloroethane-d4	100	47-137		
Toluene-d8	92	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 04/18/12
Work Order No: 12-04-1150
Preparation: N/A
Method: EPA TO-15
Units: ppb (v/v)

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG2011-1-14.6	**12-04-1150-3-A**	**04/17/12 14:09**	**Air**	**GC/MS HH**	**N/A**	**04/21/12 00:28**	**120420L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	80	40		t-1,2-Dichloroethene	ND	20	40	
Benzene	ND	20	40		t-1,3-Dichloropropene	ND	40	40	
Benzyl Chloride	ND	60	40		Ethylbenzene	ND	20	40	
Bromodichloromethane	ND	20	40		4-Ethyltoluene	ND	20	40	
Bromoform	ND	20	40		Hexachloro-1,3-Butadiene	ND	60	40	
Bromomethane	ND	20	40		2-Hexanone	ND	60	40	
2-Butanone	ND	60	40		Methyl-t-Butyl Ether (MTBE)	ND	80	40	
Carbon Disulfide	ND	80	40		Methylene Chloride	ND	200	40	
Carbon Tetrachloride	ND	20	40		4-Methyl-2-Pentanone	ND	60	40	
Chlorobenzene	ND	20	40		o-Xylene	ND	20	40	
Chloroethane	ND	20	40		p/m-Xylene	ND	80	40	
Chloroform	ND	20	40		Styrene	ND	60	40	
Chloromethane	ND	20	40		Tetrachloroethene	31	20	40	
Dibromochloromethane	ND	20	40		Toluene	ND	20	40	
Dichlorodifluoromethane	ND	20	40		Trichloroethene	ND	20	40	
1,1-Dichloroethane	ND	20	40		Trichlorofluoromethane	40000	1000	1000	
1,1-Dichloroethene	ND	20	40		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	60	40	
1,2-Dibromoethane	ND	20	40		1,1,1-Trichloroethane	ND	20	40	
Dichlorotetrafluoroethane	ND	80	40		1,1,2-Trichloroethane	ND	20	40	
1,2-Dichlorobenzene	ND	20	40		1,3,5-Trimethylbenzene	ND	20	40	
1,2-Dichloroethane	ND	20	40		1,1,2,2-Tetrachloroethane	ND	40	40	
1,2-Dichloropropane	ND	20	40		1,2,4-Trimethylbenzene	ND	60	40	
1,3-Dichlorobenzene	ND	20	40		1,2,4-Trichlorobenzene	ND	80	40	
1,4-Dichlorobenzene	ND	20	40		Vinyl Acetate	ND	80	40	
c-1,3-Dichloropropene	ND	20	40		Vinyl Chloride	ND	20	40	
c-1,2-Dichloroethene	ND	20	40		Isopropanol	ND	200	40	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	113	57-129			1,2-Dichloroethane-d4	100	47-137		
Toluene-d8	96	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	04/18/12
317 East Main Street		Work Order No:	12-04-1150
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ppb (v/v)

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG2011-1-5.6	**12-04-1150-4-A**	**04/17/12 14:49**	**Air**	**GC/MS HH**	**N/A**	**04/21/12 01:16**	**120420L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	120	25	12.5		t-1,2-Dichloroethene	ND	6.2	12.5	
Benzene	9.0	6.2	12.5		t-1,3-Dichloropropene	ND	12	12.5	
Benzyl Chloride	ND	19	12.5		Ethylbenzene	ND	6.2	12.5	
Bromodichloromethane	ND	6.2	12.5		4-Ethyltoluene	ND	6.2	12.5	
Bromoform	ND	6.2	12.5		Hexachloro-1,3-Butadiene	ND	19	12.5	
Bromomethane	ND	6.2	12.5		2-Hexanone	ND	19	12.5	
2-Butanone	ND	19	12.5		Methyl-t-Butyl Ether (MTBE)	ND	25	12.5	
Carbon Disulfide	ND	25	12.5		Methylene Chloride	ND	62	12.5	
Carbon Tetrachloride	ND	6.2	12.5		4-Methyl-2-Pentanone	ND	19	12.5	
Chlorobenzene	ND	6.2	12.5		o-Xylene	ND	6.2	12.5	
Chloroethane	ND	6.2	12.5		p/m-Xylene	ND	25	12.5	
Chloroform	ND	6.2	12.5		Styrene	ND	19	12.5	
Chloromethane	ND	6.2	12.5		Tetrachloroethene	21	6.2	12.5	
Dibromochloromethane	ND	6.2	12.5		Toluene	ND	6.2	12.5	
Dichlorodifluoromethane	ND	6.2	12.5		Trichloroethene	ND	6.2	12.5	
1,1-Dichloroethane	ND	6.2	12.5		Trichlorofluoromethane	31000	400	400	
1,1-Dichloroethene	ND	6.2	12.5		1,1,2-Trichloro-1,2,2-Trifluoroethane	71	19	12.5	
1,2-Dibromoethane	ND	6.2	12.5		1,1,1-Trichloroethane	ND	6.2	12.5	
Dichlorotetrafluoroethane	ND	25	12.5		1,1,2-Trichloroethane	ND	6.2	12.5	
1,2-Dichlorobenzene	ND	6.2	12.5		1,3,5-Trimethylbenzene	ND	6.2	12.5	
1,2-Dichloroethane	ND	6.2	12.5		1,1,2,2-Tetrachloroethane	ND	12	12.5	
1,2-Dichloropropane	ND	6.2	12.5		1,2,4-Trimethylbenzene	ND	19	12.5	
1,3-Dichlorobenzene	ND	6.2	12.5		1,2,4-Trichlorobenzene	ND	25	12.5	
1,4-Dichlorobenzene	ND	6.2	12.5		Vinyl Acetate	ND	25	12.5	
c-1,3-Dichloropropene	ND	6.2	12.5		Vinyl Chloride	ND	6.2	12.5	
c-1,2-Dichloroethene	ND	6.2	12.5		Isopropanol	ND	62	12.5	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	106	57-129			1,2-Dichloroethane-d4	102	47-137		
Toluene-d8	97	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	04/18/12
317 East Main Street		Work Order No:	12-04-1150
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ppb (v/v)

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG2011-3-45.5	**12-04-1150-5-A**	**04/17/12 16:08**	**Air**	**GC/MS HH**	**N/A**	**04/21/12 17:00**	**120421L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	180	20	10		t-1,2-Dichloroethene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	1.0	1	
Benzyl Chloride	ND	1.5	1		Ethylbenzene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		4-Ethyltoluene	ND	0.50	1	
Bromoform	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	1.5	1	
Bromomethane	ND	0.50	1		2-Hexanone	ND	1.5	1	
2-Butanone	11	1.5	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	
Carbon Disulfide	ND	2.0	1		Methylene Chloride	ND	5.0	1	
Carbon Tetrachloride	ND	0.50	1		4-Methyl-2-Pentanone	ND	1.5	1	
Chlorobenzene	ND	0.50	1		o-Xylene	ND	0.50	1	
Chloroethane	ND	0.50	1		p/m-Xylene	ND	2.0	1	
Chloroform	ND	0.50	1		Styrene	ND	1.5	1	
Chloromethane	1.1	0.50	1		Tetrachloroethene	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		Toluene	0.72	0.50	1	
Dichlorodifluoromethane	0.69	0.50	1		Trichloroethene	ND	0.50	1	
1,1-Dichloroethane	ND	0.50	1		Trichlorofluoromethane	14	1.0	1	
1,1-Dichloroethene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1.5	1	
1,2-Dibromoethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
Dichlorotetrafluoroethane	ND	2.0	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
1,2-Dichloropropane	ND	0.50	1		1,2,4-Trimethylbenzene	ND	1.5	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,4-Trichlorobenzene	ND	2.0	1	
1,4-Dichlorobenzene	ND	0.50	1		Vinyl Acetate	ND	2.0	1	
c-1,3-Dichloropropene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	0.50	1		Isopropanol	ND	5.0	1	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	96	57-129			1,2-Dichloroethane-d4	101	47-137		
Toluene-d8	97	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	04/18/12
317 East Main Street		Work Order No:	12-04-1150
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ppb (v/v)

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG2011-3-35.5	**12-04-1150-6-A**	**04/17/12 15:27**	**Air**	**GC/MS HH**	**N/A**	**04/21/12 02:51**	**120420L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	85	40	20		t-1,2-Dichloroethene	ND	10	20	
Benzene	20	10	20		t-1,3-Dichloropropene	ND	20	20	
Benzyl Chloride	ND	30	20		Ethylbenzene	ND	10	20	
Bromodichloromethane	ND	10	20		4-Ethyltoluene	ND	10	20	
Bromoform	ND	10	20		Hexachloro-1,3-Butadiene	ND	30	20	
Bromomethane	ND	10	20		2-Hexanone	ND	30	20	
2-Butanone	ND	30	20		Methyl-t-Butyl Ether (MTBE)	ND	40	20	
Carbon Disulfide	ND	40	20		Methylene Chloride	ND	100	20	
Carbon Tetrachloride	ND	10	20		4-Methyl-2-Pentanone	ND	30	20	
Chlorobenzene	ND	10	20		o-Xylene	ND	10	20	
Chloroethane	ND	10	20		p/m-Xylene	ND	40	20	
Chloroform	ND	10	20		Styrene	ND	30	20	
Chloromethane	ND	10	20		Tetrachloroethene	40	10	20	
Dibromochloromethane	ND	10	20		Toluene	22	10	20	
Dichlorodifluoromethane	ND	10	20		Trichloroethene	ND	10	20	
1,1-Dichloroethane	ND	10	20		Trichlorofluoromethane	30000	500	500	
1,1-Dichloroethene	ND	10	20		1,1,2-Trichloro-1,2,2-Trifluoroethane	100	30	20	
1,2-Dibromoethane	ND	10	20		1,1,1-Trichloroethane	ND	10	20	
Dichlorotetrafluoroethane	ND	40	20		1,1,2-Trichloroethane	ND	10	20	
1,2-Dichlorobenzene	ND	10	20		1,3,5-Trimethylbenzene	ND	10	20	
1,2-Dichloroethane	ND	10	20		1,1,2,2-Tetrachloroethane	ND	20	20	
1,2-Dichloropropane	ND	10	20		1,2,4-Trimethylbenzene	ND	30	20	
1,3-Dichlorobenzene	ND	10	20		1,2,4-Trichlorobenzene	ND	40	20	
1,4-Dichlorobenzene	ND	10	20		Vinyl Acetate	ND	40	20	
c-1,3-Dichloropropene	ND	10	20		Vinyl Chloride	ND	10	20	
c-1,2-Dichloroethene	ND	10	20		Isopropanol	ND	100	20	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	94	57-129			1,2-Dichloroethane-d4	102	47-137		
Toluene-d8	95	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	04/18/12
317 East Main Street		Work Order No:	12-04-1150
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ppb (v/v)

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG2011-3-25.2	**12-04-1150-7-A**	**04/17/12 15:29**	**Air**	**GC/MS HH**	**N/A**	**04/21/12 03:39**	**120420L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	73	32	16		t-1,2-Dichloroethene	ND	8.0	16	
Benzene	22	8.0	16		t-1,3-Dichloropropene	ND	16	16	
Benzyl Chloride	ND	24	16		Ethylbenzene	ND	8.0	16	
Bromodichloromethane	ND	8.0	16		4-Ethyltoluene	ND	8.0	16	
Bromoform	ND	8.0	16		Hexachloro-1,3-Butadiene	ND	24	16	
Bromomethane	ND	8.0	16		2-Hexanone	ND	24	16	
2-Butanone	ND	24	16		Methyl-t-Butyl Ether (MTBE)	ND	32	16	
Carbon Disulfide	ND	32	16		Methylene Chloride	ND	80	16	
Carbon Tetrachloride	ND	8.0	16		4-Methyl-2-Pentanone	ND	24	16	
Chlorobenzene	ND	8.0	16		o-Xylene	ND	8.0	16	
Chloroethane	ND	8.0	16		p/m-Xylene	ND	32	16	
Chloroform	ND	8.0	16		Styrene	ND	24	16	
Chloromethane	ND	8.0	16		Tetrachloroethene	51	8.0	16	
Dibromochloromethane	ND	8.0	16		Toluene	ND	8.0	16	
Dichlorodifluoromethane	ND	8.0	16		Trichloroethene	ND	8.0	16	
1,1-Dichloroethane	ND	8.0	16		Trichlorofluoromethane	27000	400	400	
1,1-Dichloroethene	ND	8.0	16		1,1,2-Trichloro-1,2,2-Trifluoroethane	99	24	16	
1,2-Dibromoethane	ND	8.0	16		1,1,1-Trichloroethane	ND	8.0	16	
Dichlorotetrafluoroethane	ND	32	16		1,1,2-Trichloroethane	ND	8.0	16	
1,2-Dichlorobenzene	ND	8.0	16		1,3,5-Trimethylbenzene	ND	8.0	16	
1,2-Dichloroethane	ND	8.0	16		1,1,2,2-Tetrachloroethane	ND	16	16	
1,2-Dichloropropane	ND	8.0	16		1,2,4-Trimethylbenzene	ND	24	16	
1,3-Dichlorobenzene	ND	8.0	16		1,2,4-Trichlorobenzene	ND	32	16	
1,4-Dichlorobenzene	ND	8.0	16		Vinyl Acetate	ND	32	16	
c-1,3-Dichloropropene	ND	8.0	16		Vinyl Chloride	ND	8.0	16	
c-1,2-Dichloroethene	ND	8.0	16		Isopropanol	ND	80	16	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	112	57-129			1,2-Dichloroethane-d4	102	47-137		
Toluene-d8	98	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE	Date Received:	04/18/12
317 East Main Street	Work Order No:	12-04-1150
Ventura, CA 93001-2624	Preparation:	N/A
	Method:	EPA TO-15
	Units:	ppb (v/v)

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG2011-3-15.4	**12-04-1150-8-A**	**04/17/12 15:30**	**Air**	**GC/MS HH**	**N/A**	**04/21/12 06:11**	**120420L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	83	16	8		t-1,2-Dichloroethene	ND	4.0	8	
Benzene	24	4.0	8		t-1,3-Dichloropropene	ND	8.0	8	
Benzyl Chloride	ND	12	8		Ethylbenzene	ND	4.0	8	
Bromodichloromethane	ND	4.0	8		4-Ethyltoluene	ND	4.0	8	
Bromoform	ND	4.0	8		Hexachloro-1,3-Butadiene	ND	12	8	
Bromomethane	ND	4.0	8		2-Hexanone	ND	12	8	
2-Butanone	15	12	8		Methyl-t-Butyl Ether (MTBE)	ND	16	8	
Carbon Disulfide	ND	16	8		Methylene Chloride	ND	40	8	
Carbon Tetrachloride	ND	4.0	8		4-Methyl-2-Pentanone	ND	12	8	
Chlorobenzene	ND	4.0	8		o-Xylene	ND	4.0	8	
Chloroethane	ND	4.0	8		p/m-Xylene	ND	16	8	
Chloroform	ND	4.0	8		Styrene	ND	12	8	
Chloromethane	ND	4.0	8		Tetrachloroethene	71	4.0	8	
Dibromochloromethane	ND	4.0	8		Toluene	5.6	4.0	8	
Dichlorodifluoromethane	5.7	4.0	8		Trichloroethene	ND	4.0	8	
1,1-Dichloroethane	ND	4.0	8		Trichlorofluoromethane	27000	500	500	
1,1-Dichloroethene	ND	4.0	8		1,1,2-Trichloro-1,2,2-Trifluoroethane	110	12	8	
1,2-Dibromoethane	ND	4.0	8		1,1,1-Trichloroethane	ND	4.0	8	
Dichlorotetrafluoroethane	ND	16	8		1,1,2-Trichloroethane	ND	4.0	8	
1,2-Dichlorobenzene	ND	4.0	8		1,3,5-Trimethylbenzene	ND	4.0	8	
1,2-Dichloroethane	ND	4.0	8		1,1,2,2-Tetrachloroethane	ND	8.0	8	
1,2-Dichloropropane	ND	4.0	8		1,2,4-Trimethylbenzene	ND	12	8	
1,3-Dichlorobenzene	ND	4.0	8		1,2,4-Trichlorobenzene	ND	16	8	
1,4-Dichlorobenzene	ND	4.0	8		Vinyl Acetate	ND	16	8	
c-1,3-Dichloropropene	ND	4.0	8		Vinyl Chloride	ND	4.0	8	
c-1,2-Dichloroethene	ND	4.0	8		Isopropanol	ND	40	8	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	57-129		1,2-Dichloroethane-d4	101	47-137	
Toluene-d8	97	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	04/18/12
317 East Main Street		Work Order No:	12-04-1150
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ppb (v/v)

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG2011-3-6.0	**12-04-1150-9-A**	**04/17/12 15:32**	**Air**	**GC/MS HH**	**N/A**	**04/21/12 06:58**	**120420L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	160	32	16		t-1,2-Dichloroethene	ND	8.0	16	
Benzene	20	8.0	16		t-1,3-Dichloropropene	ND	16	16	
Benzyl Chloride	ND	24	16		Ethylbenzene	ND	8.0	16	
Bromodichloromethane	ND	8.0	16		4-Ethyltoluene	ND	8.0	16	
Bromoform	ND	8.0	16		Hexachloro-1,3-Butadiene	ND	24	16	
Bromomethane	ND	8.0	16		2-Hexanone	ND	24	16	
2-Butanone	ND	24	16		Methyl-t-Butyl Ether (MTBE)	ND	32	16	
Carbon Disulfide	ND	32	16		Methylene Chloride	ND	80	16	
Carbon Tetrachloride	ND	8.0	16		4-Methyl-2-Pentanone	ND	24	16	
Chlorobenzene	ND	8.0	16		o-Xylene	ND	8.0	16	
Chloroethane	ND	8.0	16		p/m-Xylene	ND	32	16	
Chloroform	ND	8.0	16		Styrene	ND	24	16	
Chloromethane	ND	8.0	16		Tetrachloroethene	36	8.0	16	
Dibromochloromethane	ND	8.0	16		Toluene	19	8.0	16	
Dichlorodifluoromethane	ND	8.0	16		Trichloroethene	ND	8.0	16	
1,1-Dichloroethane	ND	8.0	16		Trichlorofluoromethane	24000	400	400	
1,1-Dichloroethene	ND	8.0	16		1,1,2-Trichloro-1,2,2-Trifluoroethane	100	24	16	
1,2-Dibromoethane	ND	8.0	16		1,1,1-Trichloroethane	ND	8.0	16	
Dichlorotetrafluoroethane	ND	32	16		1,1,2-Trichloroethane	ND	8.0	16	
1,2-Dichlorobenzene	ND	8.0	16		1,3,5-Trimethylbenzene	ND	8.0	16	
1,2-Dichloroethane	ND	8.0	16		1,1,2,2-Tetrachloroethane	ND	16	16	
1,2-Dichloropropane	ND	8.0	16		1,2,4-Trimethylbenzene	ND	24	16	
1,3-Dichlorobenzene	ND	8.0	16		1,2,4-Trichlorobenzene	ND	32	16	
1,4-Dichlorobenzene	ND	8.0	16		Vinyl Acetate	ND	32	16	
c-1,3-Dichloropropene	ND	8.0	16		Vinyl Chloride	ND	8.0	16	
c-1,2-Dichloroethene	ND	8.0	16		Isopropanol	ND	80	16	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	97	57-129			1,2-Dichloroethane-d4	102	47-137		
Toluene-d8	98	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 04/18/12
Work Order No: 12-04-1150
Preparation: N/A
Method: EPA TO-15
Units: ppb (v/v)

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG2011-2-47.1	**12-04-1150-10-A**	**04/17/12 16:34**	**Air**	**GC/MS HH**	**N/A**	**04/21/12 07:46**	**120420L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	150	32	16		t-1,2-Dichloroethene	ND	8.0	16	
Benzene	13	8.0	16		t-1,3-Dichloropropene	ND	16	16	
Benzyl Chloride	ND	24	16		Ethylbenzene	ND	8.0	16	
Bromodichloromethane	ND	8.0	16		4-Ethyltoluene	ND	8.0	16	
Bromoform	ND	8.0	16		Hexachloro-1,3-Butadiene	ND	24	16	
Bromomethane	ND	8.0	16		2-Hexanone	ND	24	16	
2-Butanone	ND	24	16		Methyl-t-Butyl Ether (MTBE)	ND	32	16	
Carbon Disulfide	ND	32	16		Methylene Chloride	ND	80	16	
Carbon Tetrachloride	ND	8.0	16		4-Methyl-2-Pentanone	ND	24	16	
Chlorobenzene	ND	8.0	16		o-Xylene	ND	8.0	16	
Chloroethane	ND	8.0	16		p/m-Xylene	ND	32	16	
Chloroform	ND	8.0	16		Styrene	ND	24	16	
Chloromethane	ND	8.0	16		Tetrachloroethene	94	8.0	16	
Dibromochloromethane	ND	8.0	16		Toluene	19	8.0	16	
Dichlorodifluoromethane	ND	8.0	16		Trichloroethene	ND	8.0	16	
1,1-Dichloroethane	ND	8.0	16		Trichlorofluoromethane	25000	500	500	
1,1-Dichloroethene	ND	8.0	16		1,1,2-Trichloro-1,2,2-Trifluoroethane	58	24	16	
1,2-Dibromoethane	ND	8.0	16		1,1,1-Trichloroethane	ND	8.0	16	
Dichlorotetrafluoroethane	ND	32	16		1,1,2-Trichloroethane	ND	8.0	16	
1,2-Dichlorobenzene	ND	8.0	16		1,3,5-Trimethylbenzene	ND	8.0	16	
1,2-Dichloroethane	ND	8.0	16		1,1,2,2-Tetrachloroethane	ND	16	16	
1,2-Dichloropropane	ND	8.0	16		1,2,4-Trimethylbenzene	ND	24	16	
1,3-Dichlorobenzene	ND	8.0	16		1,2,4-Trichlorobenzene	ND	32	16	
1,4-Dichlorobenzene	ND	8.0	16		Vinyl Acetate	ND	32	16	
c-1,3-Dichloropropene	ND	8.0	16		Vinyl Chloride	ND	8.0	16	
c-1,2-Dichloroethene	ND	8.0	16		Isopropanol	ND	80	16	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	105	57-129			1,2-Dichloroethane-d4	101	47-137		
Toluene-d8	95	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	04/18/12
317 East Main Street		Work Order No:	12-04-1150
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ppb (v/v)

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG2011-2-35.1	**12-04-1150-11-A**	**04/17/12 16:17**	**Air**	**GC/MS YY**	**N/A**	**04/23/12 15:02**	**120423L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	190	25	12.5		t-1,2-Dichloroethene	ND	6.2	12.5	
Benzene	ND	6.2	12.5		t-1,3-Dichloropropene	ND	12	12.5	
Benzyl Chloride	ND	19	12.5		Ethylbenzene	ND	6.2	12.5	
Bromodichloromethane	ND	6.2	12.5		4-Ethyltoluene	ND	6.2	12.5	
Bromoform	ND	6.2	12.5		Hexachloro-1,3-Butadiene	ND	19	12.5	
Bromomethane	ND	6.2	12.5		2-Hexanone	ND	19	12.5	
2-Butanone	ND	19	12.5		Methyl-t-Butyl Ether (MTBE)	ND	25	12.5	
Carbon Disulfide	ND	25	12.5		Methylene Chloride	ND	62	12.5	
Carbon Tetrachloride	ND	6.2	12.5		4-Methyl-2-Pentanone	ND	19	12.5	
Chlorobenzene	ND	6.2	12.5		o-Xylene	ND	6.2	12.5	
Chloroethane	ND	6.2	12.5		p/m-Xylene	ND	25	12.5	
Chloroform	ND	6.2	12.5		Styrene	ND	19	12.5	
Chloromethane	ND	6.2	12.5		Tetrachloroethene	75	6.2	12.5	
Dibromochloromethane	ND	6.2	12.5		Toluene	ND	6.2	12.5	
Dichlorodifluoromethane	ND	6.2	12.5		Trichloroethene	ND	6.2	12.5	
1,1-Dichloroethane	ND	6.2	12.5		Trichlorofluoromethane	19000	250	250	
1,1-Dichloroethene	ND	6.2	12.5		1,1,2-Trichloro-1,2,2-Trifluoroethane	43	19	12.5	
1,2-Dibromoethane	ND	6.2	12.5		1,1,1-Trichloroethane	ND	6.2	12.5	
Dichlorotetrafluoroethane	ND	25	12.5		1,1,2-Trichloroethane	ND	6.2	12.5	
1,2-Dichlorobenzene	ND	6.2	12.5		1,3,5-Trimethylbenzene	ND	6.2	12.5	
1,2-Dichloroethane	ND	6.2	12.5		1,1,2,2-Tetrachloroethane	ND	12	12.5	
1,2-Dichloropropane	ND	6.2	12.5		1,2,4-Trimethylbenzene	ND	19	12.5	
1,3-Dichlorobenzene	ND	6.2	12.5		1,2,4-Trichlorobenzene	ND	25	12.5	
1,4-Dichlorobenzene	ND	6.2	12.5		Vinyl Acetate	ND	25	12.5	
c-1,3-Dichloropropene	ND	6.2	12.5		Vinyl Chloride	ND	6.2	12.5	
c-1,2-Dichloroethene	ND	6.2	12.5		Isopropanol	ND	62	12.5	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	102	57-129			1,2-Dichloroethane-d4	92	47-137		
Toluene-d8	99	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	04/18/12
317 East Main Street		Work Order No:	12-04-1150
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ppb (v/v)

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG2011-2-25.0	**12-04-1150-12-A**	**04/17/12 16:27**	**Air**	**GC/MS HH**	**N/A**	**04/21/12 17:50**	**120421L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	170	32	16		t-1,2-Dichloroethene	ND	8.0	16	
Benzene	13	8.0	16		t-1,3-Dichloropropene	ND	16	16	
Benzyl Chloride	ND	24	16		Ethylbenzene	ND	8.0	16	
Bromodichloromethane	ND	8.0	16		4-Ethyltoluene	ND	8.0	16	
Bromoform	ND	8.0	16		Hexachloro-1,3-Butadiene	ND	24	16	
Bromomethane	ND	8.0	16		2-Hexanone	ND	24	16	
2-Butanone	ND	24	16		Methyl-t-Butyl Ether (MTBE)	ND	32	16	
Carbon Disulfide	ND	32	16		Methylene Chloride	ND	80	16	
Carbon Tetrachloride	ND	8.0	16		4-Methyl-2-Pentanone	ND	24	16	
Chlorobenzene	ND	8.0	16		o-Xylene	ND	8.0	16	
Chloroethane	ND	8.0	16		p/m-Xylene	ND	32	16	
Chloroform	ND	8.0	16		Styrene	ND	24	16	
Chloromethane	ND	8.0	16		Tetrachloroethene	58	8.0	16	
Dibromochloromethane	ND	8.0	16		Toluene	21	8.0	16	
Dichlorodifluoromethane	ND	8.0	16		Trichloroethene	ND	8.0	16	
1,1-Dichloroethane	ND	8.0	16		Trichlorofluoromethane	18000	500	500	
1,1-Dichloroethene	ND	8.0	16		1,1,2-Trichloro-1,2,2-Trifluoroethane	52	24	16	
1,2-Dibromoethane	ND	8.0	16		1,1,1-Trichloroethane	ND	8.0	16	
Dichlorotetrafluoroethane	ND	32	16		1,1,2-Trichloroethane	ND	8.0	16	
1,2-Dichlorobenzene	ND	8.0	16		1,3,5-Trimethylbenzene	ND	8.0	16	
1,2-Dichloroethane	ND	8.0	16		1,1,2,2-Tetrachloroethane	ND	16	16	
1,2-Dichloropropane	ND	8.0	16		1,2,4-Trimethylbenzene	ND	24	16	
1,3-Dichlorobenzene	ND	8.0	16		1,2,4-Trichlorobenzene	ND	32	16	
1,4-Dichlorobenzene	ND	8.0	16		Vinyl Acetate	ND	32	16	
c-1,3-Dichloropropene	ND	8.0	16		Vinyl Chloride	ND	8.0	16	
c-1,2-Dichloroethene	ND	8.0	16		Isopropanol	ND	80	16	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	107	57-129			1,2-Dichloroethane-d4	100	47-137		
Toluene-d8	99	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE	Date Received:	04/18/12
317 East Main Street	Work Order No:	12-04-1150
Ventura, CA 93001-2624	Preparation:	N/A
	Method:	EPA TO-15
	Units:	ppb (v/v)

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG2011-2-14.9	**12-04-1150-13-A**	**04/17/12 16:15**	**Air**	**GC/MS HH**	**N/A**	**04/21/12 18:39**	**120421L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	160	16	8		t-1,2-Dichloroethene	ND	4.0	8	
Benzene	23	4.0	8		t-1,3-Dichloropropene	ND	8.0	8	
Benzyl Chloride	ND	12	8		Ethylbenzene	17	4.0	8	
Bromodichloromethane	ND	4.0	8		4-Ethyltoluene	ND	4.0	8	
Bromoform	ND	4.0	8		Hexachloro-1,3-Butadiene	ND	12	8	
Bromomethane	ND	4.0	8		2-Hexanone	ND	12	8	
2-Butanone	ND	12	8		Methyl-t-Butyl Ether (MTBE)	ND	16	8	
Carbon Disulfide	ND	16	8		Methylene Chloride	ND	40	8	
Carbon Tetrachloride	ND	4.0	8		4-Methyl-2-Pentanone	ND	12	8	
Chlorobenzene	ND	4.0	8		o-Xylene	6.5	4.0	8	
Chloroethane	ND	4.0	8		p/m-Xylene	17	16	8	
Chloroform	ND	4.0	8		Styrene	ND	12	8	
Chloromethane	ND	4.0	8		Tetrachloroethene	84	4.0	8	
Dibromochloromethane	ND	4.0	8		Toluene	ND	4.0	8	
Dichlorodifluoromethane	ND	4.0	8		Trichloroethene	ND	4.0	8	
1,1-Dichloroethane	ND	4.0	8		Trichlorofluoromethane	15000	200	200	
1,1-Dichloroethene	ND	4.0	8		1,1,2-Trichloro-1,2,2-Trifluoroethane	47	12	8	
1,2-Dibromoethane	ND	4.0	8		1,1,1-Trichloroethane	ND	4.0	8	
Dichlorotetrafluoroethane	ND	16	8		1,1,2-Trichloroethane	ND	4.0	8	
1,2-Dichlorobenzene	ND	4.0	8		1,3,5-Trimethylbenzene	ND	4.0	8	
1,2-Dichloroethane	ND	4.0	8		1,1,2,2-Tetrachloroethane	ND	8.0	8	
1,2-Dichloropropane	ND	4.0	8		1,2,4-Trimethylbenzene	ND	12	8	
1,3-Dichlorobenzene	ND	4.0	8		1,2,4-Trichlorobenzene	ND	16	8	
1,4-Dichlorobenzene	ND	4.0	8		Vinyl Acetate	ND	16	8	
c-1,3-Dichloropropene	ND	4.0	8		Vinyl Chloride	ND	4.0	8	
c-1,2-Dichloroethene	ND	4.0	8		Isopropanol	ND	40	8	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	102	57-129		1,2-Dichloroethane-d4	101	47-137	
Toluene-d8	99	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	04/18/12
317 East Main Street		Work Order No:	12-04-1150
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ppb (v/v)

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG2011-2-6.0	**12-04-1150-14-A**	**04/17/12 17:26**	**Air**	**GC/MS HH**	**N/A**	**04/21/12 19:27**	**120421L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	280	32	16		t-1,2-Dichloroethene	ND	8.0	16	
Benzene	ND	8.0	16		t-1,3-Dichloropropene	ND	16	16	
Benzyl Chloride	ND	24	16		Ethylbenzene	ND	8.0	16	
Bromodichloromethane	ND	8.0	16		4-Ethyltoluene	ND	8.0	16	
Bromoform	ND	8.0	16		Hexachloro-1,3-Butadiene	ND	24	16	
Bromomethane	ND	8.0	16		2-Hexanone	ND	24	16	
2-Butanone	ND	24	16		Methyl-t-Butyl Ether (MTBE)	ND	32	16	
Carbon Disulfide	ND	32	16		Methylene Chloride	ND	80	16	
Carbon Tetrachloride	ND	8.0	16		4-Methyl-2-Pentanone	ND	24	16	
Chlorobenzene	ND	8.0	16		o-Xylene	ND	8.0	16	
Chloroethane	ND	8.0	16		p/m-Xylene	ND	32	16	
Chloroform	ND	8.0	16		Styrene	ND	24	16	
Chloromethane	ND	8.0	16		Tetrachloroethene	14	8.0	16	
Dibromochloromethane	ND	8.0	16		Toluene	ND	8.0	16	
Dichlorodifluoromethane	ND	8.0	16		Trichloroethene	ND	8.0	16	
1,1-Dichloroethane	ND	8.0	16		Trichlorofluoromethane	1600	16	16	
1,1-Dichloroethene	ND	8.0	16		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	24	16	
1,2-Dibromoethane	ND	8.0	16		1,1,1-Trichloroethane	ND	8.0	16	
Dichlorotetrafluoroethane	ND	32	16		1,1,2-Trichloroethane	ND	8.0	16	
1,2-Dichlorobenzene	ND	8.0	16		1,3,5-Trimethylbenzene	ND	8.0	16	
1,2-Dichloroethane	ND	8.0	16		1,1,2,2-Tetrachloroethane	ND	16	16	
1,2-Dichloropropane	ND	8.0	16		1,2,4-Trimethylbenzene	ND	24	16	
1,3-Dichlorobenzene	ND	8.0	16		1,2,4-Trichlorobenzene	ND	32	16	
1,4-Dichlorobenzene	ND	8.0	16		Vinyl Acetate	ND	32	16	
c-1,3-Dichloropropene	ND	8.0	16		Vinyl Chloride	ND	8.0	16	
c-1,2-Dichloroethene	ND	8.0	16		Isopropanol	ND	80	16	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	107	57-129			1,2-Dichloroethane-d4	101	47-137		
Toluene-d8	98	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	04/18/12
317 East Main Street		Work Order No:	12-04-1150
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ppb (v/v)

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG2011-1A-33.3	**12-04-1150-15-A**	**04/17/12 16:22**	**Air**	**GC/MS HH**	**N/A**	**04/21/12 20:14**	**120421L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	160	25	12.5		t-1,2-Dichloroethene	ND	6.2	12.5	
Benzene	9.5	6.2	12.5		t-1,3-Dichloropropene	ND	12	12.5	
Benzyl Chloride	ND	19	12.5		Ethylbenzene	ND	6.2	12.5	
Bromodichloromethane	ND	6.2	12.5		4-Ethyltoluene	ND	6.2	12.5	
Bromoform	ND	6.2	12.5		Hexachloro-1,3-Butadiene	ND	19	12.5	
Bromomethane	ND	6.2	12.5		2-Hexanone	ND	19	12.5	
2-Butanone	ND	19	12.5		Methyl-t-Butyl Ether (MTBE)	ND	25	12.5	
Carbon Disulfide	ND	25	12.5		Methylene Chloride	ND	62	12.5	
Carbon Tetrachloride	ND	6.2	12.5		4-Methyl-2-Pentanone	ND	19	12.5	
Chlorobenzene	ND	6.2	12.5		o-Xylene	ND	6.2	12.5	
Chloroethane	ND	6.2	12.5		p/m-Xylene	ND	25	12.5	
Chloroform	ND	6.2	12.5		Styrene	ND	19	12.5	
Chloromethane	ND	6.2	12.5		Tetrachloroethene	90	6.2	12.5	
Dibromochloromethane	ND	6.2	12.5		Toluene	13	6.2	12.5	
Dichlorodifluoromethane	ND	6.2	12.5		Trichloroethene	ND	6.2	12.5	
1,1-Dichloroethane	ND	6.2	12.5		Trichlorofluoromethane	38000	400	400	
1,1-Dichloroethene	ND	6.2	12.5		1,1,2-Trichloro-1,2,2-Trifluoroethane	72	19	12.5	
1,2-Dibromoethane	ND	6.2	12.5		1,1,1-Trichloroethane	ND	6.2	12.5	
Dichlorotetrafluoroethane	ND	25	12.5		1,1,2-Trichloroethane	ND	6.2	12.5	
1,2-Dichlorobenzene	ND	6.2	12.5		1,3,5-Trimethylbenzene	ND	6.2	12.5	
1,2-Dichloroethane	ND	6.2	12.5		1,1,2,2-Tetrachloroethane	ND	12	12.5	
1,2-Dichloropropane	ND	6.2	12.5		1,2,4-Trimethylbenzene	ND	19	12.5	
1,3-Dichlorobenzene	ND	6.2	12.5		1,2,4-Trichlorobenzene	ND	25	12.5	
1,4-Dichlorobenzene	ND	6.2	12.5		Vinyl Acetate	ND	25	12.5	
c-1,3-Dichloropropene	ND	6.2	12.5		Vinyl Chloride	ND	6.2	12.5	
c-1,2-Dichloroethene	ND	6.2	12.5		Isopropanol	ND	62	12.5	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	101	57-129			1,2-Dichloroethane-d4	101	47-137		
Toluene-d8	98	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 04/18/12
Work Order No: 12-04-1150
Preparation: N/A
Method: EPA TO-15
Units: ppb (v/v)

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-021-10,002**	**N/A**	**Air**	**GC/MS HH**	**N/A**	**04/21/12 15:45**	**120421L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	2.0	1		t-1,2-Dichloroethene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	1.0	1	
Benzyl Chloride	ND	1.5	1		Ethylbenzene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		4-Ethyltoluene	ND	0.50	1	
Bromoform	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	1.5	1	
Bromomethane	ND	0.50	1		2-Hexanone	ND	1.5	1	
2-Butanone	ND	1.5	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	
Carbon Disulfide	ND	2.0	1		Methylene Chloride	ND	5.0	1	
Carbon Tetrachloride	ND	0.50	1		4-Methyl-2-Pentanone	ND	1.5	1	
Chlorobenzene	ND	0.50	1		o-Xylene	ND	0.50	1	
Chloroethane	ND	0.50	1		p/m-Xylene	ND	2.0	1	
Chloroform	ND	0.50	1		Styrene	ND	1.5	1	
Chloromethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		Toluene	ND	0.50	1	
Dichlorodifluoromethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,1-Dichloroethane	ND	0.50	1		Trichlorofluoromethane	ND	1.0	1	
1,1-Dichloroethene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1.5	1	
1,2-Dibromoethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
Dichlorotetrafluoroethane	ND	2.0	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
1,2-Dichloropropane	ND	0.50	1		1,2,4-Trimethylbenzene	ND	1.5	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,4-Trichlorobenzene	ND	2.0	1	
1,4-Dichlorobenzene	ND	0.50	1		Vinyl Acetate	ND	2.0	1	
c-1,3-Dichloropropene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	0.50	1		Isopropanol	ND	5.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	105	57-129		1,2-Dichloroethane-d4	102	47-137	
Toluene-d8	99	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	04/18/12
317 East Main Street		Work Order No:	12-04-1150
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ppb (v/v)

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-021-10,009**	**N/A**	**Air**	**GC/MS HH**	**N/A**	**04/20/12 18:24**	**120420L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	2.0	1		t-1,2-Dichloroethene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	1.0	1	
Benzyl Chloride	ND	1.5	1		Ethylbenzene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		4-Ethyltoluene	ND	0.50	1	
Bromoform	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	1.5	1	
Bromomethane	ND	0.50	1		2-Hexanone	ND	1.5	1	
2-Butanone	ND	1.5	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	
Carbon Disulfide	ND	2.0	1		Methylene Chloride	ND	5.0	1	
Carbon Tetrachloride	ND	0.50	1		4-Methyl-2-Pentanone	ND	1.5	1	
Chlorobenzene	ND	0.50	1		o-Xylene	ND	0.50	1	
Chloroethane	ND	0.50	1		p/m-Xylene	ND	2.0	1	
Chloroform	ND	0.50	1		Styrene	ND	1.5	1	
Chloromethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		Toluene	ND	0.50	1	
Dichlorodifluoromethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,1-Dichloroethane	ND	0.50	1		Trichlorofluoromethane	ND	1.0	1	
1,1-Dichloroethene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1.5	1	
1,2-Dibromoethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
Dichlorotetrafluoroethane	ND	2.0	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
1,2-Dichloropropane	ND	0.50	1		1,2,4-Trimethylbenzene	ND	1.5	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,4-Trichlorobenzene	ND	2.0	1	
1,4-Dichlorobenzene	ND	0.50	1		Vinyl Acetate	ND	2.0	1	
c-1,3-Dichloropropene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	0.50	1		Isopropanol	ND	5.0	1	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	95	57-129			1,2-Dichloroethane-d4	98	47-137		
Toluene-d8	94	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 04/18/12
Work Order No: 12-04-1150
Preparation: N/A
Method: EPA TO-15
Units: ppb (v/v)

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-021-10,010**	**N/A**	**Air**	**GC/MS YY**	**N/A**	**04/23/12 14:17**	**120423L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	2.0	1		t-1,2-Dichloroethene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	1.0	1	
Benzyl Chloride	ND	1.5	1		Ethylbenzene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		4-Ethyltoluene	ND	0.50	1	
Bromoform	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	1.5	1	
Bromomethane	ND	0.50	1		2-Hexanone	ND	1.5	1	
2-Butanone	ND	1.5	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	
Carbon Disulfide	ND	2.0	1		Methylene Chloride	ND	5.0	1	
Carbon Tetrachloride	ND	0.50	1		4-Methyl-2-Pentanone	ND	1.5	1	
Chlorobenzene	ND	0.50	1		o-Xylene	ND	0.50	1	
Chloroethane	ND	0.50	1		p/m-Xylene	ND	2.0	1	
Chloroform	ND	0.50	1		Styrene	ND	1.5	1	
Chloromethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		Toluene	ND	0.50	1	
Dichlorodifluoromethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,1-Dichloroethane	ND	0.50	1		Trichlorofluoromethane	ND	1.0	1	
1,1-Dichloroethene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1.5	1	
1,2-Dibromoethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
Dichlorotetrafluoroethane	ND	2.0	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
1,2-Dichloropropane	ND	0.50	1		1,2,4-Trimethylbenzene	ND	1.5	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,4-Trichlorobenzene	ND	2.0	1	
1,4-Dichlorobenzene	ND	0.50	1		Vinyl Acetate	ND	2.0	1	
c-1,3-Dichloropropene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	0.50	1		Isopropanol	ND	5.0	1	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	91	57-129			1,2-Dichloroethane-d4	98	47-137		
Toluene-d8	94	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Client:	OTIE	Work Order:	12-04-1150
	317 East Main Street	Project Name:	Canoga Park / 2009025
	Ventura, CA 93001-2624	Received:	04/18/12 18:00
Attn:	Sarah Van Middlesworth		

DETECTIONS SUMMARY

Client Sample ID / Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
SG2011-1-33.3						
Benzene	**46**		26	ug/m3	EPA TO-15	N/A
Ethylbenzene	**43**		35	ug/m3	EPA TO-15	N/A
Tetrachloroethene	**780**		54	ug/m3	EPA TO-15	N/A
Toluene	**71**		30	ug/m3	EPA TO-15	N/A
Trichlorofluoromethane	**260000**		2800	ug/m3	EPA TO-15	N/A
1,1,2-Trichloro-1,2,2-Trifluoroethane	**670**		180	ug/m3	EPA TO-15	N/A
SG2011-1-24.5						
Tetrachloroethene	**470**		42	ug/m3	EPA TO-15	N/A
Toluene	**40**		24	ug/m3	EPA TO-15	N/A
Trichlorofluoromethane	**190000**		2200	ug/m3	EPA TO-15	N/A
1,1,2-Trichloro-1,2,2-Trifluoroethane	**600**		140	ug/m3	EPA TO-15	N/A
SG2011-1-14.6						
Tetrachloroethene	**210**		140	ug/m3	EPA TO-15	N/A
Trichlorofluoromethane	**220000**		5600	ug/m3	EPA TO-15	N/A
SG2011-1-5.6						
Acetone	**300**		59	ug/m3	EPA TO-15	N/A
Benzene	**29**		20	ug/m3	EPA TO-15	N/A
Tetrachloroethene	**140**		42	ug/m3	EPA TO-15	N/A
Trichlorofluoromethane	**170000**		2200	ug/m3	EPA TO-15	N/A
1,1,2-Trichloro-1,2,2-Trifluoroethane	**550**		140	ug/m3	EPA TO-15	N/A
SG2011-3-45.5						
Acetone	**420**		48	ug/m3	EPA TO-15	N/A
2-Butanone	**31**		4.4	ug/m3	EPA TO-15	N/A
Chloromethane	**2.3**		1.0	ug/m3	EPA TO-15	N/A
Dichlorodifluoromethane	**3.4**		2.5	ug/m3	EPA TO-15	N/A
Toluene	**2.7**		1.9	ug/m3	EPA TO-15	N/A
Trichlorofluoromethane	**81**		5.6	ug/m3	EPA TO-15	N/A

*MDL is shown.

Calscience Environmental Laboratories, Inc.

Client:	OTIE	Work Order:	12-04-1150
	317 East Main Street	Project Name:	Canoga Park / 2009025
	Ventura, CA 93001-2624	Received:	04/18/12 18:00
Attn:	Sarah Van Middlesworth		

DETECTIONS SUMMARY

Client Sample ID / Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
SG2011-3-35.5						
Acetone	**200**		95	ug/m3	EPA TO-15	N/A
Benzene	**63**		32	ug/m3	EPA TO-15	N/A
Tetrachloroethene	**270**		68	ug/m3	EPA TO-15	N/A
Toluene	**84**		38	ug/m3	EPA TO-15	N/A
Trichlorofluoromethane	**170000**		2800	ug/m3	EPA TO-15	N/A
1,1,2-Trichloro-1,2,2-Trifluoroethane	**800**		230	ug/m3	EPA TO-15	N/A
SG2011-3-25.2						
Acetone	**170**		76	ug/m3	EPA TO-15	N/A
Benzene	**72**		26	ug/m3	EPA TO-15	N/A
Tetrachloroethene	**350**		54	ug/m3	EPA TO-15	N/A
Trichlorofluoromethane	**150000**		2200	ug/m3	EPA TO-15	N/A
1,1,2-Trichloro-1,2,2-Trifluoroethane	**760**		180	ug/m3	EPA TO-15	N/A
SG2011-3-15.4						
Acetone	**200**		38	ug/m3	EPA TO-15	N/A
Benzene	**77**		13	ug/m3	EPA TO-15	N/A
2-Butanone	**44**		35	ug/m3	EPA TO-15	N/A
Dichlorodifluoromethane	**28**		20	ug/m3	EPA TO-15	N/A
Tetrachloroethene	**480**		27	ug/m3	EPA TO-15	N/A
Toluene	**21**		15	ug/m3	EPA TO-15	N/A
Trichlorofluoromethane	**150000**		2800	ug/m3	EPA TO-15	N/A
1,1,2-Trichloro-1,2,2-Trifluoroethane	**840**		92	ug/m3	EPA TO-15	N/A
SG2011-3-6.0						
Acetone	**390**		76	ug/m3	EPA TO-15	N/A
Benzene	**64**		26	ug/m3	EPA TO-15	N/A
Tetrachloroethene	**250**		54	ug/m3	EPA TO-15	N/A
Toluene	**71**		30	ug/m3	EPA TO-15	N/A
Trichlorofluoromethane	**140000**		2200	ug/m3	EPA TO-15	N/A
1,1,2-Trichloro-1,2,2-Trifluoroethane	**770**		180	ug/m3	EPA TO-15	N/A

*MDL is shown.

Calscience Environmental Laboratories, Inc.

Client:	OTIE	Work Order:	12-04-1150
	317 East Main Street	Project Name:	Canoga Park / 2009025
	Ventura, CA 93001-2624	Received:	04/18/12 18:00
Attn:	Sarah Van Middlesworth		

DETECTIONS SUMMARY

Client Sample ID / Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
SG2011-2-47.1						
Acetone	**350**		76	ug/m3	EPA TO-15	N/A
Benzene	**41**		26	ug/m3	EPA TO-15	N/A
Tetrachloroethene	**640**		54	ug/m3	EPA TO-15	N/A
Toluene	**73**		30	ug/m3	EPA TO-15	N/A
Trichlorofluoromethane	**140000**		2800	ug/m3	EPA TO-15	N/A
1,1,2-Trichloro-1,2,2-Trifluoroethane	**440**		180	ug/m3	EPA TO-15	N/A
SG2011-2-35.1						
Acetone	**460**		59	ug/m3	EPA TO-15	N/A
Tetrachloroethene	**510**		42	ug/m3	EPA TO-15	N/A
Trichlorofluoromethane	**110000**		1400	ug/m3	EPA TO-15	N/A
1,1,2-Trichloro-1,2,2-Trifluoroethane	**330**		140	ug/m3	EPA TO-15	N/A
SG2011-2-25.0						
Acetone	**400**		76	ug/m3	EPA TO-15	N/A
Benzene	**41**		26	ug/m3	EPA TO-15	N/A
Tetrachloroethene	**390**		54	ug/m3	EPA TO-15	N/A
Toluene	**79**		30	ug/m3	EPA TO-15	N/A
Trichlorofluoromethane	**100000**		2800	ug/m3	EPA TO-15	N/A
1,1,2-Trichloro-1,2,2-Trifluoroethane	**400**		180	ug/m3	EPA TO-15	N/A
SG2011-2-14.9						
Acetone	**390**		38	ug/m3	EPA TO-15	N/A
Benzene	**74**		13	ug/m3	EPA TO-15	N/A
Ethylbenzene	**74**		17	ug/m3	EPA TO-15	N/A
o-Xylene	**28**		17	ug/m3	EPA TO-15	N/A
p/m-Xylene	**72**		69	ug/m3	EPA TO-15	N/A
Tetrachloroethene	**570**		27	ug/m3	EPA TO-15	N/A
Trichlorofluoromethane	**86000**		1100	ug/m3	EPA TO-15	N/A
1,1,2-Trichloro-1,2,2-Trifluoroethane	**360**		92	ug/m3	EPA TO-15	N/A
SG2011-2-6.0						
Acetone	**660**		76	ug/m3	EPA TO-15	N/A
Tetrachloroethene	**95**		54	ug/m3	EPA TO-15	N/A
Trichlorofluoromethane	**8900**		90	ug/m3	EPA TO-15	N/A

*MDL is shown.

Calscience Environmental Laboratories, Inc.

Client:	OTIE	Work Order:	12-04-1150
	317 East Main Street	Project Name:	Canoga Park / 2009025
	Ventura, CA 93001-2624	Received:	04/18/12 18:00
Attn:	Sarah Van Middlesworth		

DETECTIONS SUMMARY

Client Sample ID Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
SG2011-1A-33.3						
Acetone	**380**		59	ug/m3	EPA TO-15	N/A
Benzene	**31**		20	ug/m3	EPA TO-15	N/A
Tetrachloroethene	**610**		42	ug/m3	EPA TO-15	N/A
Toluene	**49**		24	ug/m3	EPA TO-15	N/A
Trichlorofluoromethane	**220000**		2200	ug/m3	EPA TO-15	N/A
1,1,2-Trichloro-1,2,2-Trifluoroethane	**550**		140	ug/m3	EPA TO-15	N/A

Subcontracted analyses, if any, are not included in this summary.

*MDL is shown.

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	04/18/12
317 East Main Street		Work Order No:	12-04-1150
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/m3

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG2011-1-33.3	**12-04-1150-1-A**	**04/17/12 14:06**	**Air**	**GC/MS HH**	**N/A**	**04/20/12 22:53**	**120420L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	76	16		t-1,2-Dichloroethene	ND	32	16	
Benzene	46	26	16		t-1,3-Dichloropropene	ND	73	16	
Benzyl Chloride	ND	120	16		Ethylbenzene	43	35	16	
Bromodichloromethane	ND	54	16		4-Ethyltoluene	ND	39	16	
Bromoform	ND	83	16		Hexachloro-1,3-Butadiene	ND	260	16	
Bromomethane	ND	31	16		2-Hexanone	ND	98	16	
2-Butanone	ND	71	16		Methyl-t-Butyl Ether (MTBE)	ND	120	16	
Carbon Disulfide	ND	100	16		Methylene Chloride	ND	280	16	
Carbon Tetrachloride	ND	50	16		4-Methyl-2-Pentanone	ND	98	16	
Chlorobenzene	ND	37	16		o-Xylene	ND	35	16	
Chloroethane	ND	21	16		p/m-Xylene	ND	140	16	
Chloroform	ND	39	16		Styrene	ND	100	16	
Chloromethane	ND	17	16		Tetrachloroethene	780	54	16	
Dibromochloromethane	ND	68	16		Toluene	71	30	16	
Dichlorodifluoromethane	ND	40	16		Trichloroethene	ND	43	16	
1,1-Dichloroethane	ND	32	16		Trichlorofluoromethane	260000	2800	500	
1,1-Dichloroethene	ND	32	16		1,1,2-Trichloro-1,2,2-Trifluoroethane	670	180	16	
1,2-Dibromoethane	ND	61	16		1,1,1-Trichloroethane	ND	44	16	
Dichlorotetrafluoroethane	ND	220	16		1,1,2-Trichloroethane	ND	44	16	
1,2-Dichlorobenzene	ND	48	16		1,3,5-Trimethylbenzene	ND	39	16	
1,2-Dichloroethane	ND	32	16		1,1,2,2-Tetrachloroethane	ND	110	16	
1,2-Dichloropropane	ND	37	16		1,2,4-Trimethylbenzene	ND	120	16	
1,3-Dichlorobenzene	ND	48	16		1,2,4-Trichlorobenzene	ND	240	16	
1,4-Dichlorobenzene	ND	48	16		Vinyl Acetate	ND	110	16	
c-1,3-Dichloropropene	ND	36	16		Vinyl Chloride	ND	20	16	
c-1,2-Dichloroethene	ND	32	16		Isopropanol	ND	200	16	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	87	57-129			1,2-Dichloroethane-d4	102	47-137		
Toluene-d8	96	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 04/18/12
Work Order No: 12-04-1150
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG2011-1-24.5	**12-04-1150-2-A**	**04/17/12 14:07**	**Air**	**GC/MS HH**	**N/A**	**04/20/12 23:41**	**120420L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	59	12.5		t-1,2-Dichloroethene	ND	25	12.5	
Benzene	ND	20	12.5		t-1,3-Dichloropropene	ND	57	12.5	
Benzyl Chloride	ND	97	12.5		Ethylbenzene	ND	27	12.5	
Bromodichloromethane	ND	42	12.5		4-Ethyltoluene	ND	31	12.5	
Bromoform	ND	65	12.5		Hexachloro-1,3-Butadiene	ND	200	12.5	
Bromomethane	ND	24	12.5		2-Hexanone	ND	77	12.5	
2-Butanone	ND	55	12.5		Methyl-t-Butyl Ether (MTBE)	ND	90	12.5	
Carbon Disulfide	ND	78	12.5		Methylene Chloride	ND	220	12.5	
Carbon Tetrachloride	ND	39	12.5		4-Methyl-2-Pentanone	ND	77	12.5	
Chlorobenzene	ND	29	12.5		o-Xylene	ND	27	12.5	
Chloroethane	ND	16	12.5		p/m-Xylene	ND	110	12.5	
Chloroform	ND	31	12.5		Styrene	ND	80	12.5	
Chloromethane	ND	13	12.5		Tetrachloroethene	470	42	12.5	
Dibromochloromethane	ND	53	12.5		Toluene	40	24	12.5	
Dichlorodifluoromethane	ND	31	12.5		Trichloroethene	ND	34	12.5	
1,1-Dichloroethane	ND	25	12.5		Trichlorofluoromethane	190000	2200	400	
1,1-Dichloroethene	ND	25	12.5		1,1,2-Trichloro-1,2,2-Trifluoroethane	600	140	12.5	
1,2-Dibromoethane	ND	48	12.5		1,1,1-Trichloroethane	ND	34	12.5	
Dichlorotetrafluoroethane	ND	170	12.5		1,1,2-Trichloroethane	ND	34	12.5	
1,2-Dichlorobenzene	ND	38	12.5		1,3,5-Trimethylbenzene	ND	31	12.5	
1,2-Dichloroethane	ND	25	12.5		1,1,2,2-Tetrachloroethane	ND	86	12.5	
1,2-Dichloropropane	ND	29	12.5		1,2,4-Trimethylbenzene	ND	92	12.5	
1,3-Dichlorobenzene	ND	38	12.5		1,2,4-Trichlorobenzene	ND	190	12.5	
1,4-Dichlorobenzene	ND	38	12.5		Vinyl Acetate	ND	88	12.5	
c-1,3-Dichloropropene	ND	28	12.5		Vinyl Chloride	ND	16	12.5	
c-1,2-Dichloroethene	ND	25	12.5		Isopropanol	ND	150	12.5	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	92	57-129			1,2-Dichloroethane-d4	100	47-137		
Toluene-d8	92	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 04/18/12
Work Order No: 12-04-1150
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG2011-1-14.6	**12-04-1150-3-A**	**04/17/12 14:09**	**Air**	**GC/MS HH**	**N/A**	**04/21/12 00:28**	**120420L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	190	40		t-1,2-Dichloroethene	ND	79	40	
Benzene	ND	64	40		t-1,3-Dichloropropene	ND	180	40	
Benzyl Chloride	ND	310	40		Ethylbenzene	ND	87	40	
Bromodichloromethane	ND	130	40		4-Ethyltoluene	ND	98	40	
Bromoform	ND	210	40		Hexachloro-1,3-Butadiene	ND	640	40	
Bromomethane	ND	78	40		2-Hexanone	ND	250	40	
2-Butanone	ND	180	40		Methyl-t-Butyl Ether (MTBE)	ND	290	40	
Carbon Disulfide	ND	250	40		Methylene Chloride	ND	690	40	
Carbon Tetrachloride	ND	130	40		4-Methyl-2-Pentanone	ND	250	40	
Chlorobenzene	ND	92	40		o-Xylene	ND	87	40	
Chloroethane	ND	53	40		p/m-Xylene	ND	350	40	
Chloroform	ND	98	40		Styrene	ND	260	40	
Chloromethane	ND	41	40		Tetrachloroethene	210	140	40	
Dibromochloromethane	ND	170	40		Toluene	ND	75	40	
Dichlorodifluoromethane	ND	99	40		Trichloroethene	ND	110	40	
1,1-Dichloroethane	ND	81	40		Trichlorofluoromethane	220000	5600	1000	
1,1-Dichloroethene	ND	79	40		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	460	40	
1,2-Dibromoethane	ND	150	40		1,1,1-Trichloroethane	ND	110	40	
Dichlorotetrafluoroethane	ND	560	40		1,1,2-Trichloroethane	ND	110	40	
1,2-Dichlorobenzene	ND	120	40		1,3,5-Trimethylbenzene	ND	98	40	
1,2-Dichloroethane	ND	81	40		1,1,2,2-Tetrachloroethane	ND	270	40	
1,2-Dichloropropane	ND	92	40		1,2,4-Trimethylbenzene	ND	290	40	
1,3-Dichlorobenzene	ND	120	40		1,2,4-Trichlorobenzene	ND	590	40	
1,4-Dichlorobenzene	ND	120	40		Vinyl Acetate	ND	280	40	
c-1,3-Dichloropropene	ND	91	40		Vinyl Chloride	ND	51	40	
c-1,2-Dichloroethene	ND	79	40		Isopropanol	ND	490	40	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	113	57-129		1,2-Dichloroethane-d4	100	47-137	
Toluene-d8	96	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 04/18/12
Work Order No: 12-04-1150
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG2011-1-5.6	**12-04-1150-4-A**	**04/17/12 14:49**	**Air**	**GC/MS HH**	**N/A**	**04/21/12 01:16**	**120420L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	300	59	12.5		t-1,2-Dichloroethene	ND	25	12.5	
Benzene	29	20	12.5		t-1,3-Dichloropropene	ND	57	12.5	
Benzyl Chloride	ND	97	12.5		Ethylbenzene	ND	27	12.5	
Bromodichloromethane	ND	42	12.5		4-Ethyltoluene	ND	31	12.5	
Bromoform	ND	65	12.5		Hexachloro-1,3-Butadiene	ND	200	12.5	
Bromomethane	ND	24	12.5		2-Hexanone	ND	77	12.5	
2-Butanone	ND	55	12.5		Methyl-t-Butyl Ether (MTBE)	ND	90	12.5	
Carbon Disulfide	ND	78	12.5		Methylene Chloride	ND	220	12.5	
Carbon Tetrachloride	ND	39	12.5		4-Methyl-2-Pentanone	ND	77	12.5	
Chlorobenzene	ND	29	12.5		o-Xylene	ND	27	12.5	
Chloroethane	ND	16	12.5		p/m-Xylene	ND	110	12.5	
Chloroform	ND	31	12.5		Styrene	ND	80	12.5	
Chloromethane	ND	13	12.5		Tetrachloroethene	140	42	12.5	
Dibromochloromethane	ND	53	12.5		Toluene	ND	24	12.5	
Dichlorodifluoromethane	ND	31	12.5		Trichloroethene	ND	34	12.5	
1,1-Dichloroethane	ND	25	12.5		Trichlorofluoromethane	170000	2200	400	
1,1-Dichloroethene	ND	25	12.5		1,1,2-Trichloro-1,2,2-Trifluoroethane	550	140	12.5	
1,2-Dibromoethane	ND	48	12.5		1,1,1-Trichloroethane	ND	34	12.5	
Dichlorotetrafluoroethane	ND	170	12.5		1,1,2-Trichloroethane	ND	34	12.5	
1,2-Dichlorobenzene	ND	38	12.5		1,3,5-Trimethylbenzene	ND	31	12.5	
1,2-Dichloroethane	ND	25	12.5		1,1,2,2-Tetrachloroethane	ND	86	12.5	
1,2-Dichloropropane	ND	29	12.5		1,2,4-Trimethylbenzene	ND	92	12.5	
1,3-Dichlorobenzene	ND	38	12.5		1,2,4-Trichlorobenzene	ND	190	12.5	
1,4-Dichlorobenzene	ND	38	12.5		Vinyl Acetate	ND	88	12.5	
c-1,3-Dichloropropene	ND	28	12.5		Vinyl Chloride	ND	16	12.5	
c-1,2-Dichloroethene	ND	25	12.5		Isopropanol	ND	150	12.5	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	106	57-129			1,2-Dichloroethane-d4	102	47-137		
Toluene-d8	97	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 04/18/12
Work Order No: 12-04-1150
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG2011-3-45.5	**12-04-1150-5-A**	**04/17/12 16:08**	**Air**	**GC/MS HH**	**N/A**	**04/21/12 17:00**	**120421L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	420	48	10		t-1,2-Dichloroethene	ND	2.0	1	
Benzene	ND	1.6	1		t-1,3-Dichloropropene	ND	4.5	1	
Benzyl Chloride	ND	7.8	1		Ethylbenzene	ND	2.2	1	
Bromodichloromethane	ND	3.4	1		4-Ethyltoluene	ND	2.5	1	
Bromoform	ND	5.2	1		Hexachloro-1,3-Butadiene	ND	16	1	
Bromomethane	ND	1.9	1		2-Hexanone	ND	6.1	1	
2-Butanone	31	4.4	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Carbon Disulfide	ND	6.2	1		Methylene Chloride	ND	17	1	
Carbon Tetrachloride	ND	3.1	1		4-Methyl-2-Pentanone	ND	6.1	1	
Chlorobenzene	ND	2.3	1		o-Xylene	ND	2.2	1	
Chloroethane	ND	1.3	1		p/m-Xylene	ND	8.7	1	
Chloroform	ND	2.4	1		Styrene	ND	6.4	1	
Chloromethane	2.3	1.0	1		Tetrachloroethene	ND	3.4	1	
Dibromochloromethane	ND	4.3	1		Toluene	2.7	1.9	1	
Dichlorodifluoromethane	3.4	2.5	1		Trichloroethene	ND	2.7	1	
1,1-Dichloroethane	ND	2.0	1		Trichlorofluoromethane	81	5.6	1	
1,1-Dichloroethene	ND	2.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1	
1,2-Dibromoethane	ND	3.8	1		1,1,1-Trichloroethane	ND	2.7	1	
Dichlorotetrafluoroethane	ND	14	1		1,1,2-Trichloroethane	ND	2.7	1	
1,2-Dichlorobenzene	ND	3.0	1		1,3,5-Trimethylbenzene	ND	2.5	1	
1,2-Dichloroethane	ND	2.0	1		1,1,2,2-Tetrachloroethane	ND	6.9	1	
1,2-Dichloropropane	ND	2.3	1		1,2,4-Trimethylbenzene	ND	7.4	1	
1,3-Dichlorobenzene	ND	3.0	1		1,2,4-Trichlorobenzene	ND	15	1	
1,4-Dichlorobenzene	ND	3.0	1		Vinyl Acetate	ND	7.0	1	
c-1,3-Dichloropropene	ND	2.3	1		Vinyl Chloride	ND	1.3	1	
c-1,2-Dichloroethene	ND	2.0	1		Isopropanol	ND	12	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	57-129		1,2-Dichloroethane-d4	101	47-137	
Toluene-d8	97	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 04/18/12
Work Order No: 12-04-1150
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG2011-3-35.5	**12-04-1150-6-A**	**04/17/12 15:27**	**Air**	**GC/MS HH**	**N/A**	**04/21/12 02:51**	**120420L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	200	95	20		t-1,2-Dichloroethene	ND	40	20	
Benzene	63	32	20		t-1,3-Dichloropropene	ND	91	20	
Benzyl Chloride	ND	160	20		Ethylbenzene	ND	43	20	
Bromodichloromethane	ND	67	20		4-Ethyltoluene	ND	49	20	
Bromoform	ND	100	20		Hexachloro-1,3-Butadiene	ND	320	20	
Bromomethane	ND	39	20		2-Hexanone	ND	120	20	
2-Butanone	ND	88	20		Methyl-t-Butyl Ether (MTBE)	ND	140	20	
Carbon Disulfide	ND	120	20		Methylene Chloride	ND	350	20	
Carbon Tetrachloride	ND	63	20		4-Methyl-2-Pentanone	ND	120	20	
Chlorobenzene	ND	46	20		o-Xylene	ND	43	20	
Chloroethane	ND	26	20		p/m-Xylene	ND	170	20	
Chloroform	ND	49	20		Styrene	ND	130	20	
Chloromethane	ND	21	20		Tetrachloroethene	270	68	20	
Dibromochloromethane	ND	85	20		Toluene	84	38	20	
Dichlorodifluoromethane	ND	49	20		Trichloroethene	ND	54	20	
1,1-Dichloroethane	ND	40	20		Trichlorofluoromethane	170000	2800	500	
1,1-Dichloroethene	ND	40	20		1,1,2-Trichloro-1,2,2-Trifluoroethane	800	230	20	
1,2-Dibromoethane	ND	77	20		1,1,1-Trichloroethane	ND	55	20	
Dichlorotetrafluoroethane	ND	280	20		1,1,2-Trichloroethane	ND	55	20	
1,2-Dichlorobenzene	ND	60	20		1,3,5-Trimethylbenzene	ND	49	20	
1,2-Dichloroethane	ND	40	20		1,1,2,2-Tetrachloroethane	ND	140	20	
1,2-Dichloropropane	ND	46	20		1,2,4-Trimethylbenzene	ND	150	20	
1,3-Dichlorobenzene	ND	60	20		1,2,4-Trichlorobenzene	ND	300	20	
1,4-Dichlorobenzene	ND	60	20		Vinyl Acetate	ND	140	20	
c-1,3-Dichloropropene	ND	45	20		Vinyl Chloride	ND	26	20	
c-1,2-Dichloroethene	ND	40	20		Isopropanol	ND	250	20	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	94	57-129			1,2-Dichloroethane-d4	102	47-137		
Toluene-d8	95	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 04/18/12
Work Order No: 12-04-1150
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG2011-3-25.2	**12-04-1150-7-A**	**04/17/12 15:29**	**Air**	**GC/MS HH**	**N/A**	**04/21/12 03:39**	**120420L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	170	76	16		t-1,2-Dichloroethene	ND	32	16	
Benzene	72	26	16		t-1,3-Dichloropropene	ND	73	16	
Benzyl Chloride	ND	120	16		Ethylbenzene	ND	35	16	
Bromodichloromethane	ND	54	16		4-Ethyltoluene	ND	39	16	
Bromoform	ND	83	16		Hexachloro-1,3-Butadiene	ND	260	16	
Bromomethane	ND	31	16		2-Hexanone	ND	98	16	
2-Butanone	ND	71	16		Methyl-t-Butyl Ether (MTBE)	ND	120	16	
Carbon Disulfide	ND	100	16		Methylene Chloride	ND	280	16	
Carbon Tetrachloride	ND	50	16		4-Methyl-2-Pentanone	ND	98	16	
Chlorobenzene	ND	37	16		o-Xylene	ND	35	16	
Chloroethane	ND	21	16		p/m-Xylene	ND	140	16	
Chloroform	ND	39	16		Styrene	ND	100	16	
Chloromethane	ND	17	16		Tetrachloroethene	350	54	16	
Dibromochloromethane	ND	68	16		Toluene	ND	30	16	
Dichlorodifluoromethane	ND	40	16		Trichloroethene	ND	43	16	
1,1-Dichloroethane	ND	32	16		Trichlorofluoromethane	150000	2200	400	
1,1-Dichloroethene	ND	32	16		1,1,2-Trichloro-1,2,2-Trifluoroethane	760	180	16	
1,2-Dibromoethane	ND	61	16		1,1,1-Trichloroethane	ND	44	16	
Dichlorotetrafluoroethane	ND	220	16		1,1,2-Trichloroethane	ND	44	16	
1,2-Dichlorobenzene	ND	48	16		1,3,5-Trimethylbenzene	ND	39	16	
1,2-Dichloroethane	ND	32	16		1,1,2,2-Tetrachloroethane	ND	110	16	
1,2-Dichloropropane	ND	37	16		1,2,4-Trimethylbenzene	ND	120	16	
1,3-Dichlorobenzene	ND	48	16		1,2,4-Trichlorobenzene	ND	240	16	
1,4-Dichlorobenzene	ND	48	16		Vinyl Acetate	ND	110	16	
c-1,3-Dichloropropene	ND	36	16		Vinyl Chloride	ND	20	16	
c-1,2-Dichloroethene	ND	32	16		Isopropanol	ND	200	16	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	112	57-129			1,2-Dichloroethane-d4	102	47-137		
Toluene-d8	98	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 04/18/12
Work Order No: 12-04-1150
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG2011-3-15.4	**12-04-1150-8-A**	**04/17/12 15:30**	**Air**	**GC/MS HH**	**N/A**	**04/21/12 06:11**	**120420L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	200	38	8		t-1,2-Dichloroethene	ND	16	8	
Benzene	77	13	8		t-1,3-Dichloropropene	ND	36	8	
Benzyl Chloride	ND	62	8		Ethylbenzene	ND	17	8	
Bromodichloromethane	ND	27	8		4-Ethyltoluene	ND	20	8	
Bromoform	ND	41	8		Hexachloro-1,3-Butadiene	ND	130	8	
Bromomethane	ND	16	8		2-Hexanone	ND	49	8	
2-Butanone	44	35	8		Methyl-t-Butyl Ether (MTBE)	ND	58	8	
Carbon Disulfide	ND	50	8		Methylene Chloride	ND	140	8	
Carbon Tetrachloride	ND	25	8		4-Methyl-2-Pentanone	ND	49	8	
Chlorobenzene	ND	18	8		o-Xylene	ND	17	8	
Chloroethane	ND	11	8		p/m-Xylene	ND	69	8	
Chloroform	ND	20	8		Styrene	ND	51	8	
Chloromethane	ND	8.3	8		Tetrachloroethene	480	27	8	
Dibromochloromethane	ND	34	8		Toluene	21	15	8	
Dichlorodifluoromethane	28	20	8		Trichloroethene	ND	21	8	
1,1-Dichloroethane	ND	16	8		Trichlorofluoromethane	150000	2800	500	
1,1-Dichloroethene	ND	16	8		1,1,2-Trichloro-1,2,2-Trifluoroethane	840	92	8	
1,2-Dibromoethane	ND	31	8		1,1,1-Trichloroethane	ND	22	8	
Dichlorotetrafluoroethane	ND	110	8		1,1,2-Trichloroethane	ND	22	8	
1,2-Dichlorobenzene	ND	24	8		1,3,5-Trimethylbenzene	ND	20	8	
1,2-Dichloroethane	ND	16	8		1,1,2,2-Tetrachloroethane	ND	55	8	
1,2-Dichloropropane	ND	18	8		1,2,4-Trimethylbenzene	ND	59	8	
1,3-Dichlorobenzene	ND	24	8		1,2,4-Trichlorobenzene	ND	120	8	
1,4-Dichlorobenzene	ND	24	8		Vinyl Acetate	ND	56	8	
c-1,3-Dichloropropene	ND	18	8		Vinyl Chloride	ND	10	8	
c-1,2-Dichloroethene	ND	16	8		Isopropanol	ND	98	8	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	57-129		1,2-Dichloroethane-d4	101	47-137	
Toluene-d8	97	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	04/18/12
317 East Main Street		Work Order No:	12-04-1150
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/m3

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG2011-3-6.0	**12-04-1150-9-A**	**04/17/12 15:32**	**Air**	**GC/MS HH**	**N/A**	**04/21/12 06:58**	**120420L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	390	76	16		t-1,2-Dichloroethene	ND	32	16	
Benzene	64	26	16		t-1,3-Dichloropropene	ND	73	16	
Benzyl Chloride	ND	120	16		Ethylbenzene	ND	35	16	
Bromodichloromethane	ND	54	16		4-Ethyltoluene	ND	39	16	
Bromoform	ND	83	16		Hexachloro-1,3-Butadiene	ND	260	16	
Bromomethane	ND	31	16		2-Hexanone	ND	98	16	
2-Butanone	ND	71	16		Methyl-t-Butyl Ether (MTBE)	ND	120	16	
Carbon Disulfide	ND	100	16		Methylene Chloride	ND	280	16	
Carbon Tetrachloride	ND	50	16		4-Methyl-2-Pentanone	ND	98	16	
Chlorobenzene	ND	37	16		o-Xylene	ND	35	16	
Chloroethane	ND	21	16		p/m-Xylene	ND	140	16	
Chloroform	ND	39	16		Styrene	ND	100	16	
Chloromethane	ND	17	16		Tetrachloroethene	250	54	16	
Dibromochloromethane	ND	68	16		Toluene	71	30	16	
Dichlorodifluoromethane	ND	40	16		Trichloroethene	ND	43	16	
1,1-Dichloroethane	ND	32	16		Trichlorofluoromethane	140000	2200	400	
1,1-Dichloroethene	ND	32	16		1,1,2-Trichloro-1,2,2-Trifluoroethane	770	180	16	
1,2-Dibromoethane	ND	61	16		1,1,1-Trichloroethane	ND	44	16	
Dichlorotetrafluoroethane	ND	220	16		1,1,2-Trichloroethane	ND	44	16	
1,2-Dichlorobenzene	ND	48	16		1,3,5-Trimethylbenzene	ND	39	16	
1,2-Dichloroethane	ND	32	16		1,1,2,2-Tetrachloroethane	ND	110	16	
1,2-Dichloropropane	ND	37	16		1,2,4-Trimethylbenzene	ND	120	16	
1,3-Dichlorobenzene	ND	48	16		1,2,4-Trichlorobenzene	ND	240	16	
1,4-Dichlorobenzene	ND	48	16		Vinyl Acetate	ND	110	16	
c-1,3-Dichloropropene	ND	36	16		Vinyl Chloride	ND	20	16	
c-1,2-Dichloroethene	ND	32	16		Isopropanol	ND	200	16	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	97	57-129			1,2-Dichloroethane-d4	102	47-137		
Toluene-d8	98	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	04/18/12
317 East Main Street		Work Order No:	12-04-1150
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/m3

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG2011-2-47.1	**12-04-1150-10-A**	**04/17/12 16:34**	**Air**	**GC/MS HH**	**N/A**	**04/21/12 07:46**	**120420L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	350	76	16		t-1,2-Dichloroethene	ND	32	16	
Benzene	41	26	16		t-1,3-Dichloropropene	ND	73	16	
Benzyl Chloride	ND	120	16		Ethylbenzene	ND	35	16	
Bromodichloromethane	ND	54	16		4-Ethyltoluene	ND	39	16	
Bromoform	ND	83	16		Hexachloro-1,3-Butadiene	ND	260	16	
Bromomethane	ND	31	16		2-Hexanone	ND	98	16	
2-Butanone	ND	71	16		Methyl-t-Butyl Ether (MTBE)	ND	120	16	
Carbon Disulfide	ND	100	16		Methylene Chloride	ND	280	16	
Carbon Tetrachloride	ND	50	16		4-Methyl-2-Pentanone	ND	98	16	
Chlorobenzene	ND	37	16		o-Xylene	ND	35	16	
Chloroethane	ND	21	16		p/m-Xylene	ND	140	16	
Chloroform	ND	39	16		Styrene	ND	100	16	
Chloromethane	ND	17	16		Tetrachloroethene	640	54	16	
Dibromochloromethane	ND	68	16		Toluene	73	30	16	
Dichlorodifluoromethane	ND	40	16		Trichloroethene	ND	43	16	
1,1-Dichloroethane	ND	32	16		Trichlorofluoromethane	140000	2800	500	
1,1-Dichloroethene	ND	32	16		1,1,2-Trichloro-1,2,2-Trifluoroethane	440	180	16	
1,2-Dibromoethane	ND	61	16		1,1,1-Trichloroethane	ND	44	16	
Dichlorotetrafluoroethane	ND	220	16		1,1,2-Trichloroethane	ND	44	16	
1,2-Dichlorobenzene	ND	48	16		1,3,5-Trimethylbenzene	ND	39	16	
1,2-Dichloroethane	ND	32	16		1,1,2,2-Tetrachloroethane	ND	110	16	
1,2-Dichloropropane	ND	37	16		1,2,4-Trimethylbenzene	ND	120	16	
1,3-Dichlorobenzene	ND	48	16		1,2,4-Trichlorobenzene	ND	240	16	
1,4-Dichlorobenzene	ND	48	16		Vinyl Acetate	ND	110	16	
c-1,3-Dichloropropene	ND	36	16		Vinyl Chloride	ND	20	16	
c-1,2-Dichloroethene	ND	32	16		Isopropanol	ND	200	16	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	105	57-129			1,2-Dichloroethane-d4	101	47-137		
Toluene-d8	95	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	04/18/12
317 East Main Street		Work Order No:	12-04-1150
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/m3

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG2011-2-35.1	**12-04-1150-11-A**	**04/17/12 16:17**	**Air**	**GC/MS YY**	**N/A**	**04/23/12 15:02**	**120423L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	460	59	12.5		t-1,2-Dichloroethene	ND	25	12.5	
Benzene	ND	20	12.5		t-1,3-Dichloropropene	ND	57	12.5	
Benzyl Chloride	ND	97	12.5		Ethylbenzene	ND	27	12.5	
Bromodichloromethane	ND	42	12.5		4-Ethyltoluene	ND	31	12.5	
Bromoform	ND	65	12.5		Hexachloro-1,3-Butadiene	ND	200	12.5	
Bromomethane	ND	24	12.5		2-Hexanone	ND	77	12.5	
2-Butanone	ND	55	12.5		Methyl-t-Butyl Ether (MTBE)	ND	90	12.5	
Carbon Disulfide	ND	78	12.5		Methylene Chloride	ND	220	12.5	
Carbon Tetrachloride	ND	39	12.5		4-Methyl-2-Pentanone	ND	77	12.5	
Chlorobenzene	ND	29	12.5		o-Xylene	ND	27	12.5	
Chloroethane	ND	16	12.5		p/m-Xylene	ND	110	12.5	
Chloroform	ND	31	12.5		Styrene	ND	80	12.5	
Chloromethane	ND	13	12.5		Tetrachloroethene	510	42	12.5	
Dibromochloromethane	ND	53	12.5		Toluene	ND	24	12.5	
Dichlorodifluoromethane	ND	31	12.5		Trichloroethene	ND	34	12.5	
1,1-Dichloroethane	ND	25	12.5		Trichlorofluoromethane	110000	1400	250	
1,1-Dichloroethene	ND	25	12.5		1,1,2-Trichloro-1,2,2-Trifluoroethane	330	140	12.5	
1,2-Dibromoethane	ND	48	12.5		1,1,1-Trichloroethane	ND	34	12.5	
Dichlorotetrafluoroethane	ND	170	12.5		1,1,2-Trichloroethane	ND	34	12.5	
1,2-Dichlorobenzene	ND	38	12.5		1,3,5-Trimethylbenzene	ND	31	12.5	
1,2-Dichloroethane	ND	25	12.5		1,1,2,2-Tetrachloroethane	ND	86	12.5	
1,2-Dichloropropane	ND	29	12.5		1,2,4-Trimethylbenzene	ND	92	12.5	
1,3-Dichlorobenzene	ND	38	12.5		1,2,4-Trichlorobenzene	ND	190	12.5	
1,4-Dichlorobenzene	ND	38	12.5		Vinyl Acetate	ND	88	12.5	
c-1,3-Dichloropropene	ND	28	12.5		Vinyl Chloride	ND	16	12.5	
c-1,2-Dichloroethene	ND	25	12.5		Isopropanol	ND	150	12.5	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	102	57-129			1,2-Dichloroethane-d4	92	47-137		
Toluene-d8	99	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 04/18/12
Work Order No: 12-04-1150
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG2011-2-25.0	**12-04-1150-12-A**	**04/17/12 16:27**	**Air**	**GC/MS HH**	**N/A**	**04/21/12 17:50**	**120421L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	400	76	16		t-1,2-Dichloroethene	ND	32	16	
Benzene	41	26	16		t-1,3-Dichloropropene	ND	73	16	
Benzyl Chloride	ND	120	16		Ethylbenzene	ND	35	16	
Bromodichloromethane	ND	54	16		4-Ethyltoluene	ND	39	16	
Bromoform	ND	83	16		Hexachloro-1,3-Butadiene	ND	260	16	
Bromomethane	ND	31	16		2-Hexanone	ND	98	16	
2-Butanone	ND	71	16		Methyl-t-Butyl Ether (MTBE)	ND	120	16	
Carbon Disulfide	ND	100	16		Methylene Chloride	ND	280	16	
Carbon Tetrachloride	ND	50	16		4-Methyl-2-Pentanone	ND	98	16	
Chlorobenzene	ND	37	16		o-Xylene	ND	35	16	
Chloroethane	ND	21	16		p/m-Xylene	ND	140	16	
Chloroform	ND	39	16		Styrene	ND	100	16	
Chloromethane	ND	17	16		Tetrachloroethene	390	54	16	
Dibromochloromethane	ND	68	16		Toluene	79	30	16	
Dichlorodifluoromethane	ND	40	16		Trichloroethene	ND	43	16	
1,1-Dichloroethane	ND	32	16		Trichlorofluoromethane	100000	2800	500	
1,1-Dichloroethene	ND	32	16		1,1,2-Trichloro-1,2,2-Trifluoroethane	400	180	16	
1,2-Dibromoethane	ND	61	16		1,1,1-Trichloroethane	ND	44	16	
Dichlorotetrafluoroethane	ND	220	16		1,1,2-Trichloroethane	ND	44	16	
1,2-Dichlorobenzene	ND	48	16		1,3,5-Trimethylbenzene	ND	39	16	
1,2-Dichloroethane	ND	32	16		1,1,2,2-Tetrachloroethane	ND	110	16	
1,2-Dichloropropane	ND	37	16		1,2,4-Trimethylbenzene	ND	120	16	
1,3-Dichlorobenzene	ND	48	16		1,2,4-Trichlorobenzene	ND	240	16	
1,4-Dichlorobenzene	ND	48	16		Vinyl Acetate	ND	110	16	
c-1,3-Dichloropropene	ND	36	16		Vinyl Chloride	ND	20	16	
c-1,2-Dichloroethene	ND	32	16		Isopropanol	ND	200	16	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	107	57-129			1,2-Dichloroethane-d4	100	47-137		
Toluene-d8	99	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	04/18/12
317 East Main Street		Work Order No:	12-04-1150
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/m3

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG2011-2-14.9	**12-04-1150-13-A**	**04/17/12 16:15**	**Air**	**GC/MS HH**	**N/A**	**04/21/12 18:39**	**120421L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	390	38	8		t-1,2-Dichloroethene	ND	16	8	
Benzene	74	13	8		t-1,3-Dichloropropene	ND	36	8	
Benzyl Chloride	ND	62	8		Ethylbenzene	74	17	8	
Bromodichloromethane	ND	27	8		4-Ethyltoluene	ND	20	8	
Bromoform	ND	41	8		Hexachloro-1,3-Butadiene	ND	130	8	
Bromomethane	ND	16	8		2-Hexanone	ND	49	8	
2-Butanone	ND	35	8		Methyl-t-Butyl Ether (MTBE)	ND	58	8	
Carbon Disulfide	ND	50	8		Methylene Chloride	ND	140	8	
Carbon Tetrachloride	ND	25	8		4-Methyl-2-Pentanone	ND	49	8	
Chlorobenzene	ND	18	8		o-Xylene	28	17	8	
Chloroethane	ND	11	8		p/m-Xylene	72	69	8	
Chloroform	ND	20	8		Styrene	ND	51	8	
Chloromethane	ND	8.3	8		Tetrachloroethene	570	27	8	
Dibromochloromethane	ND	34	8		Toluene	ND	15	8	
Dichlorodifluoromethane	ND	20	8		Trichloroethene	ND	21	8	
1,1-Dichloroethane	ND	16	8		Trichlorofluoromethane	86000	1100	200	
1,1-Dichloroethene	ND	16	8		1,1,2-Trichloro-1,2,2-Trifluoroethane	360	92	8	
1,2-Dibromoethane	ND	31	8		1,1,1-Trichloroethane	ND	22	8	
Dichlorotetrafluoroethane	ND	110	8		1,1,2-Trichloroethane	ND	22	8	
1,2-Dichlorobenzene	ND	24	8		1,3,5-Trimethylbenzene	ND	20	8	
1,2-Dichloroethane	ND	16	8		1,1,2,2-Tetrachloroethane	ND	55	8	
1,2-Dichloropropane	ND	18	8		1,2,4-Trimethylbenzene	ND	59	8	
1,3-Dichlorobenzene	ND	24	8		1,2,4-Trichlorobenzene	ND	120	8	
1,4-Dichlorobenzene	ND	24	8		Vinyl Acetate	ND	56	8	
c-1,3-Dichloropropene	ND	18	8		Vinyl Chloride	ND	10	8	
c-1,2-Dichloroethene	ND	16	8		Isopropanol	ND	98	8	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	102	57-129		1,2-Dichloroethane-d4	101	47-137	
Toluene-d8	99	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	04/18/12
317 East Main Street		Work Order No:	12-04-1150
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/m3

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG2011-2-6.0	**12-04-1150-14-A**	**04/17/12 17:26**	**Air**	**GC/MS HH**	**N/A**	**04/21/12 19:27**	**120421L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	660	76	16		t-1,2-Dichloroethene	ND	32	16	
Benzene	ND	26	16		t-1,3-Dichloropropene	ND	73	16	
Benzyl Chloride	ND	120	16		Ethylbenzene	ND	35	16	
Bromodichloromethane	ND	54	16		4-Ethyltoluene	ND	39	16	
Bromoform	ND	83	16		Hexachloro-1,3-Butadiene	ND	260	16	
Bromomethane	ND	31	16		2-Hexanone	ND	98	16	
2-Butanone	ND	71	16		Methyl-t-Butyl Ether (MTBE)	ND	120	16	
Carbon Disulfide	ND	100	16		Methylene Chloride	ND	280	16	
Carbon Tetrachloride	ND	50	16		4-Methyl-2-Pentanone	ND	98	16	
Chlorobenzene	ND	37	16		o-Xylene	ND	35	16	
Chloroethane	ND	21	16		p/m-Xylene	ND	140	16	
Chloroform	ND	39	16		Styrene	ND	100	16	
Chloromethane	ND	17	16		Tetrachloroethene	95	54	16	
Dibromochloromethane	ND	68	16		Toluene	ND	30	16	
Dichlorodifluoromethane	ND	40	16		Trichloroethene	ND	43	16	
1,1-Dichloroethane	ND	32	16		Trichlorofluoromethane	8900	90	16	
1,1-Dichloroethene	ND	32	16		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	180	16	
1,2-Dibromoethane	ND	61	16		1,1,1-Trichloroethane	ND	44	16	
Dichlorotetrafluoroethane	ND	220	16		1,1,2-Trichloroethane	ND	44	16	
1,2-Dichlorobenzene	ND	48	16		1,3,5-Trimethylbenzene	ND	39	16	
1,2-Dichloroethane	ND	32	16		1,1,2,2-Tetrachloroethane	ND	110	16	
1,2-Dichloropropane	ND	37	16		1,2,4-Trimethylbenzene	ND	120	16	
1,3-Dichlorobenzene	ND	48	16		1,2,4-Trichlorobenzene	ND	240	16	
1,4-Dichlorobenzene	ND	48	16		Vinyl Acetate	ND	110	16	
c-1,3-Dichloropropene	ND	36	16		Vinyl Chloride	ND	20	16	
c-1,2-Dichloroethene	ND	32	16		Isopropanol	ND	200	16	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	107	57-129			1,2-Dichloroethane-d4	101	47-137		
Toluene-d8	98	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	04/18/12
317 East Main Street		Work Order No:	12-04-1150
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/m3

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SG2011-1A-33.3	**12-04-1150-15-A**	**04/17/12 16:22**	**Air**	**GC/MS HH**	**N/A**	**04/21/12 20:14**	**120421L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	380	59	12.5		t-1,2-Dichloroethene	ND	25	12.5	
Benzene	31	20	12.5		t-1,3-Dichloropropene	ND	57	12.5	
Benzyl Chloride	ND	97	12.5		Ethylbenzene	ND	27	12.5	
Bromodichloromethane	ND	42	12.5		4-Ethyltoluene	ND	31	12.5	
Bromoform	ND	65	12.5		Hexachloro-1,3-Butadiene	ND	200	12.5	
Bromomethane	ND	24	12.5		2-Hexanone	ND	77	12.5	
2-Butanone	ND	55	12.5		Methyl-t-Butyl Ether (MTBE)	ND	90	12.5	
Carbon Disulfide	ND	78	12.5		Methylene Chloride	ND	220	12.5	
Carbon Tetrachloride	ND	39	12.5		4-Methyl-2-Pentanone	ND	77	12.5	
Chlorobenzene	ND	29	12.5		o-Xylene	ND	27	12.5	
Chloroethane	ND	16	12.5		p/m-Xylene	ND	110	12.5	
Chloroform	ND	31	12.5		Styrene	ND	80	12.5	
Chloromethane	ND	13	12.5		Tetrachloroethene	610	42	12.5	
Dibromochloromethane	ND	53	12.5		Toluene	49	24	12.5	
Dichlorodifluoromethane	ND	31	12.5		Trichloroethene	ND	34	12.5	
1,1-Dichloroethane	ND	25	12.5		Trichlorofluoromethane	220000	2200	400	
1,1-Dichloroethene	ND	25	12.5		1,1,2-Trichloro-1,2,2-Trifluoroethane	550	140	12.5	
1,2-Dibromoethane	ND	48	12.5		1,1,1-Trichloroethane	ND	34	12.5	
Dichlorotetrafluoroethane	ND	170	12.5		1,1,2-Trichloroethane	ND	34	12.5	
1,2-Dichlorobenzene	ND	38	12.5		1,3,5-Trimethylbenzene	ND	31	12.5	
1,2-Dichloroethane	ND	25	12.5		1,1,2,2-Tetrachloroethane	ND	86	12.5	
1,2-Dichloropropane	ND	29	12.5		1,2,4-Trimethylbenzene	ND	92	12.5	
1,3-Dichlorobenzene	ND	38	12.5		1,2,4-Trichlorobenzene	ND	190	12.5	
1,4-Dichlorobenzene	ND	38	12.5		Vinyl Acetate	ND	88	12.5	
c-1,3-Dichloropropene	ND	28	12.5		Vinyl Chloride	ND	16	12.5	
c-1,2-Dichloroethene	ND	25	12.5		Isopropanol	ND	150	12.5	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	101	57-129			1,2-Dichloroethane-d4	101	47-137		
Toluene-d8	98	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE	Date Received:	04/18/12
317 East Main Street	Work Order No:	12-04-1150
Ventura, CA 93001-2624	Preparation:	N/A
	Method:	EPA TO-15
	Units:	ug/m3

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-021-10,002**	**N/A**	**Air**	**GC/MS HH**	**N/A**	**04/21/12 15:45**	**120421L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	4.8	1		t-1,2-Dichloroethene	ND	2.0	1	
Benzene	ND	1.6	1		t-1,3-Dichloropropene	ND	4.5	1	
Benzyl Chloride	ND	7.8	1		Ethylbenzene	ND	2.2	1	
Bromodichloromethane	ND	3.4	1		4-Ethyltoluene	ND	2.5	1	
Bromoform	ND	5.2	1		Hexachloro-1,3-Butadiene	ND	16	1	
Bromomethane	ND	1.9	1		2-Hexanone	ND	6.1	1	
2-Butanone	ND	4.4	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Carbon Disulfide	ND	6.2	1		Methylene Chloride	ND	17	1	
Carbon Tetrachloride	ND	3.1	1		4-Methyl-2-Pentanone	ND	6.1	1	
Chlorobenzene	ND	2.3	1		o-Xylene	ND	2.2	1	
Chloroethane	ND	1.3	1		p/m-Xylene	ND	8.7	1	
Chloroform	ND	2.4	1		Styrene	ND	6.4	1	
Chloromethane	ND	1.0	1		Tetrachloroethene	ND	3.4	1	
Dibromochloromethane	ND	4.3	1		Toluene	ND	1.9	1	
Dichlorodifluoromethane	ND	2.5	1		Trichloroethene	ND	2.7	1	
1,1-Dichloroethane	ND	2.0	1		Trichlorofluoromethane	ND	5.6	1	
1,1-Dichloroethene	ND	2.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1	
1,2-Dibromoethane	ND	3.8	1		1,1,1-Trichloroethane	ND	2.7	1	
Dichlorotetrafluoroethane	ND	14	1		1,1,2-Trichloroethane	ND	2.7	1	
1,2-Dichlorobenzene	ND	3.0	1		1,3,5-Trimethylbenzene	ND	2.5	1	
1,2-Dichloroethane	ND	2.0	1		1,1,2,2-Tetrachloroethane	ND	6.9	1	
1,2-Dichloropropane	ND	2.3	1		1,2,4-Trimethylbenzene	ND	7.4	1	
1,3-Dichlorobenzene	ND	3.0	1		1,2,4-Trichlorobenzene	ND	15	1	
1,4-Dichlorobenzene	ND	3.0	1		Vinyl Acetate	ND	7.0	1	
c-1,3-Dichloropropene	ND	2.3	1		Vinyl Chloride	ND	1.3	1	
c-1,2-Dichloroethene	ND	2.0	1		Isopropanol	ND	12	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	105	57-129		1,2-Dichloroethane-d4	102	47-137	
Toluene-d8	99	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	04/18/12
317 East Main Street		Work Order No:	12-04-1150
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/m3

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-021-10,009**	**N/A**	**Air**	**GC/MS HH**	**N/A**	**04/20/12 18:24**	**120420L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	4.8	1		t-1,2-Dichloroethene	ND	2.0	1	
Benzene	ND	1.6	1		t-1,3-Dichloropropene	ND	4.5	1	
Benzyl Chloride	ND	7.8	1		Ethylbenzene	ND	2.2	1	
Bromodichloromethane	ND	3.4	1		4-Ethyltoluene	ND	2.5	1	
Bromoform	ND	5.2	1		Hexachloro-1,3-Butadiene	ND	16	1	
Bromomethane	ND	1.9	1		2-Hexanone	ND	6.1	1	
2-Butanone	ND	4.4	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Carbon Disulfide	ND	6.2	1		Methylene Chloride	ND	17	1	
Carbon Tetrachloride	ND	3.1	1		4-Methyl-2-Pentanone	ND	6.1	1	
Chlorobenzene	ND	2.3	1		o-Xylene	ND	2.2	1	
Chloroethane	ND	1.3	1		p/m-Xylene	ND	8.7	1	
Chloroform	ND	2.4	1		Styrene	ND	6.4	1	
Chloromethane	ND	1.0	1		Tetrachloroethene	ND	3.4	1	
Dibromochloromethane	ND	4.3	1		Toluene	ND	1.9	1	
Dichlorodifluoromethane	ND	2.5	1		Trichloroethene	ND	2.7	1	
1,1-Dichloroethane	ND	2.0	1		Trichlorofluoromethane	ND	5.6	1	
1,1-Dichloroethene	ND	2.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1	
1,2-Dibromoethane	ND	3.8	1		1,1,1-Trichloroethane	ND	2.7	1	
Dichlorotetrafluoroethane	ND	14	1		1,1,2-Trichloroethane	ND	2.7	1	
1,2-Dichlorobenzene	ND	3.0	1		1,3,5-Trimethylbenzene	ND	2.5	1	
1,2-Dichloroethane	ND	2.0	1		1,1,2,2-Tetrachloroethane	ND	6.9	1	
1,2-Dichloropropane	ND	2.3	1		1,2,4-Trimethylbenzene	ND	7.4	1	
1,3-Dichlorobenzene	ND	3.0	1		1,2,4-Trichlorobenzene	ND	15	1	
1,4-Dichlorobenzene	ND	3.0	1		Vinyl Acetate	ND	7.0	1	
c-1,3-Dichloropropene	ND	2.3	1		Vinyl Chloride	ND	1.3	1	
c-1,2-Dichloroethene	ND	2.0	1		Isopropanol	ND	12	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	57-129		1,2-Dichloroethane-d4	98	47-137	
Toluene-d8	94	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 04/18/12
Work Order No: 12-04-1150
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-021-10,010**	**N/A**	**Air**	**GC/MS YY**	**N/A**	**04/23/12 14:17**	**120423L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	4.8	1		t-1,2-Dichloroethene	ND	2.0	1	
Benzene	ND	1.6	1		t-1,3-Dichloropropene	ND	4.5	1	
Benzyl Chloride	ND	7.8	1		Ethylbenzene	ND	2.2	1	
Bromodichloromethane	ND	3.4	1		4-Ethyltoluene	ND	2.5	1	
Bromoform	ND	5.2	1		Hexachloro-1,3-Butadiene	ND	16	1	
Bromomethane	ND	1.9	1		2-Hexanone	ND	6.1	1	
2-Butanone	ND	4.4	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Carbon Disulfide	ND	6.2	1		Methylene Chloride	ND	17	1	
Carbon Tetrachloride	ND	3.1	1		4-Methyl-2-Pentanone	ND	6.1	1	
Chlorobenzene	ND	2.3	1		o-Xylene	ND	2.2	1	
Chloroethane	ND	1.3	1		p/m-Xylene	ND	8.7	1	
Chloroform	ND	2.4	1		Styrene	ND	6.4	1	
Chloromethane	ND	1.0	1		Tetrachloroethene	ND	3.4	1	
Dibromochloromethane	ND	4.3	1		Toluene	ND	1.9	1	
Dichlorodifluoromethane	ND	2.5	1		Trichloroethene	ND	2.7	1	
1,1-Dichloroethane	ND	2.0	1		Trichlorofluoromethane	ND	5.6	1	
1,1-Dichloroethene	ND	2.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1	
1,2-Dibromoethane	ND	3.8	1		1,1,1-Trichloroethane	ND	2.7	1	
Dichlorotetrafluoroethane	ND	14	1		1,1,2-Trichloroethane	ND	2.7	1	
1,2-Dichlorobenzene	ND	3.0	1		1,3,5-Trimethylbenzene	ND	2.5	1	
1,2-Dichloroethane	ND	2.0	1		1,1,2,2-Tetrachloroethane	ND	6.9	1	
1,2-Dichloropropane	ND	2.3	1		1,2,4-Trimethylbenzene	ND	7.4	1	
1,3-Dichlorobenzene	ND	3.0	1		1,2,4-Trichlorobenzene	ND	15	1	
1,4-Dichlorobenzene	ND	3.0	1		Vinyl Acetate	ND	7.0	1	
c-1,3-Dichloropropene	ND	2.3	1		Vinyl Chloride	ND	1.3	1	
c-1,2-Dichloroethene	ND	2.0	1		Isopropanol	ND	12	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	91	57-129		1,2-Dichloroethane-d4	98	47-137	
Toluene-d8	94	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-04-1150
Preparation: N/A
Method: EPA TO-15

Project: Canoga Park / 2009025

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-10,009	**Air**	**GC/MS HH**	**N/A**	**04/20/12**	**120420L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Acetone	59.39	94	94	50-150	33-167	0	0-35	
Benzene	79.87	114	116	60-156	44-172	1	0-40	
Benzyl Chloride	129.4	131	130	50-150	33-167	1	0-35	
Bromodichloromethane	167.5	113	113	50-150	33-167	0	0-35	
Bromoform	258.4	117	119	62-134	50-146	2	0-38	
Bromomethane	97.08	121	112	50-150	33-167	7	0-35	
2-Butanone	73.73	122	121	50-150	33-167	1	0-35	
Carbon Disulfide	77.85	135	134	50-150	33-167	0	0-35	
Carbon Tetrachloride	157.3	113	112	64-154	49-169	0	0-32	
Chlorobenzene	115.1	115	117	50-150	33-167	2	0-35	
Chloroethane	65.96	124	117	50-150	33-167	6	0-35	
Chloroform	122.1	111	111	50-150	33-167	0	0-35	
Chloromethane	51.63	127	120	50-150	33-167	6	0-35	
Dibromochloromethane	213.0	118	120	50-150	33-167	2	0-35	
Dichlorodifluoromethane	123.6	117	108	50-150	33-167	8	0-35	
Diisopropyl Ether (DIPE)	104.5	104	104	50-150	33-167	0	0-35	
1,1-Dichloroethane	101.2	114	114	50-150	33-167	0	0-35	
1,1-Dichloroethene	99.12	115	113	50-150	33-167	1	0-35	
1,2-Dibromoethane	192.1	119	121	54-144	39-159	2	0-36	
Dichlorotetrafluoroethane	174.8	102	94	50-150	33-167	8	0-35	
1,2-Dichlorobenzene	150.3	113	112	34-160	13-181	0	0-47	
1,2-Dichloroethane	101.2	113	112	69-153	55-167	1	0-35	
1,2-Dichloropropane	115.5	118	118	67-157	52-172	1	0-35	
1,3-Dichlorobenzene	150.3	118	118	50-150	33-167	0	0-35	
1,4-Dichlorobenzene	150.3	118	117	36-156	16-176	0	0-47	
c-1,3-Dichloropropene	113.5	118	120	61-157	45-173	1	0-35	
c-1,2-Dichloroethene	99.12	112	114	50-150	33-167	1	0-35	
t-1,2-Dichloroethene	99.12	109	109	50-150	33-167	0	0-35	
t-1,3-Dichloropropene	113.5	129	130	50-150	33-167	1	0-35	
Ethanol	188.4	91	90	50-150	33-167	1	0-35	
Ethyl-t-Butyl Ether (ETBE)	104.5	120	121	50-150	33-167	1	0-35	
Ethylbenzene	108.6	117	119	52-154	35-171	2	0-38	
4-Ethyltoluene	122.9	116	118	50-150	33-167	1	0-35	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-04-1150
Preparation: N/A
Method: EPA TO-15

Project: Canoga Park / 2009025

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-10,009	**Air**	**GC/MS HH**	**N/A**	**04/20/12**	**120420L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Hexachloro-1,3-Butadiene	266.6	111	113	50-150	33-167	2	0-35	
2-Hexanone	102.4	120	121	50-150	33-167	1	0-35	
Methyl-t-Butyl Ether (MTBE)	90.13	116	117	50-150	33-167	1	0-35	
Methylene Chloride	86.84	116	118	50-150	33-167	1	0-35	
4-Methyl-2-Pentanone	102.4	116	116	50-150	33-167	0	0-35	
o-Xylene	108.6	117	119	52-148	36-164	2	0-38	
p/m-Xylene	217.1	121	122	42-156	23-175	1	0-41	
Styrene	106.5	115	117	50-150	33-167	2	0-35	
Tert-Amyl-Methyl Ether (TAME)	104.5	119	121	50-150	33-167	1	0-35	
Tert-Butyl Alcohol (TBA)	151.6	117	116	50-150	33-167	1	0-35	
Tetrachloroethene	169.6	121	123	56-152	40-168	2	0-40	
Toluene	94.21	119	121	56-146	41-161	2	0-43	
Trichloroethene	134.3	115	115	63-159	47-175	0	0-34	
Trichlorofluoromethane	140.5	132	151	50-150	33-167	14	0-35	ME
1,1,2-Trichloro-1,2,2-Trifluoroethane	191.6	115	114	50-150	33-167	1	0-35	
1,1,1-Trichloroethane	136.4	112	113	50-150	33-167	0	0-35	
1,1,2-Trichloroethane	136.4	116	116	65-149	51-163	1	0-37	
1,3,5-Trimethylbenzene	122.9	117	119	50-150	33-167	1	0-35	
1,1,2,2-Tetrachloroethane	171.6	119	120	50-150	33-167	1	0-35	
1,2,4-Trimethylbenzene	122.9	119	119	50-150	33-167	0	0-35	
1,2,4-Trichlorobenzene	185.5	114	115	50-150	33-167	1	0-35	
Vinyl Acetate	88.03	111	110	50-150	33-167	0	0-35	
Vinyl Chloride	63.91	118	109	45-177	23-199	8	0-36	
1,1-Difluoroethane	67.54	119	119	50-150	33-167	0	0-35	
Isopropanol	61.45	140	146	50-150	33-167	4	0-35	

Total number of LCS compounds : 58
Total number of ME compounds : 1
Total number of ME compounds allowed : 3
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-04-1150
Preparation: N/A
Method: EPA TO-15

Project: Canoga Park / 2009025

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-10,002	**Air**	**GC/MS HH**	**N/A**	**04/21/12**	**120421L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Acetone	59.39	101	99	50-150	33-167	2	0-35	
Benzene	79.87	118	118	60-156	44-172	0	0-40	
Benzyl Chloride	129.4	125	120	50-150	33-167	4	0-35	
Bromodichloromethane	167.5	117	117	50-150	33-167	0	0-35	
Bromoform	258.4	127	126	62-134	50-146	1	0-38	
Bromomethane	97.08	133	131	50-150	33-167	1	0-35	
2-Butanone	73.73	127	126	50-150	33-167	1	0-35	
Carbon Disulfide	77.85	140	137	50-150	33-167	2	0-35	
Carbon Tetrachloride	157.3	117	115	64-154	49-169	1	0-32	
Chlorobenzene	115.1	122	120	50-150	33-167	2	0-35	
Chloroethane	65.96	137	133	50-150	33-167	3	0-35	
Chloroform	122.1	113	110	50-150	33-167	2	0-35	
Chloromethane	51.63	142	141	50-150	33-167	1	0-35	
Dibromochloromethane	213.0	128	125	50-150	33-167	3	0-35	
Dichlorodifluoromethane	123.6	125	127	50-150	33-167	1	0-35	
Diisopropyl Ether (DIPE)	104.5	110	108	50-150	33-167	2	0-35	
1,1-Dichloroethane	101.2	116	115	50-150	33-167	2	0-35	
1,1-Dichloroethene	99.12	119	115	50-150	33-167	4	0-35	
1,2-Dibromoethane	192.1	129	125	54-144	39-159	3	0-36	
Dichlorotetrafluoroethane	174.8	112	110	50-150	33-167	2	0-35	
1,2-Dichlorobenzene	150.3	105	101	34-160	13-181	5	0-47	
1,2-Dichloroethane	101.2	113	112	69-153	55-167	1	0-35	
1,2-Dichloropropane	115.5	121	122	67-157	52-172	1	0-35	
1,3-Dichlorobenzene	150.3	113	109	50-150	33-167	4	0-35	
1,4-Dichlorobenzene	150.3	110	106	36-156	16-176	4	0-47	
c-1,3-Dichloropropene	113.5	121	123	61-157	45-173	1	0-35	
c-1,2-Dichloroethene	99.12	114	112	50-150	33-167	2	0-35	
t-1,2-Dichloroethene	99.12	110	109	50-150	33-167	1	0-35	
t-1,3-Dichloropropene	113.5	132	133	50-150	33-167	1	0-35	
Ethanol	188.4	99	97	50-150	33-167	2	0-35	
Ethyl-t-Butyl Ether (ETBE)	104.5	121	120	50-150	33-167	1	0-35	
Ethylbenzene	108.6	125	123	52-154	35-171	1	0-38	
4-Ethyltoluene	122.9	114	111	50-150	33-167	3	0-35	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-04-1150
Preparation: N/A
Method: EPA TO-15

Project: Canoga Park / 2009025

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-10,002	**Air**	**GC/MS HH**	**N/A**	**04/21/12**	**120421L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Hexachloro-1,3-Butadiene	266.6	127	117	50-150	33-167	8	0-35	
2-Hexanone	102.4	130	123	50-150	33-167	6	0-35	
Methyl-t-Butyl Ether (MTBE)	90.13	116	115	50-150	33-167	1	0-35	
Methylene Chloride	86.84	119	117	50-150	33-167	2	0-35	
4-Methyl-2-Pentanone	102.4	120	120	50-150	33-167	0	0-35	
o-Xylene	108.6	122	121	52-148	36-164	1	0-38	
p/m-Xylene	217.1	130	128	42-156	23-175	2	0-41	
Styrene	106.5	119	118	50-150	33-167	1	0-35	
Tert-Amyl-Methyl Ether (TAME)	104.5	121	119	50-150	33-167	2	0-35	
Tert-Butyl Alcohol (TBA)	151.6	119	116	50-150	33-167	2	0-35	
Tetrachloroethene	169.6	129	125	56-152	40-168	3	0-40	
Toluene	94.21	128	124	56-146	41-161	4	0-43	
Trichloroethene	134.3	118	118	63-159	47-175	1	0-34	
Trichlorofluoromethane	140.5	97	94	50-150	33-167	3	0-35	
1,1,2-Trichloro-1,2,2-Trifluoroethane	191.6	118	116	50-150	33-167	2	0-35	
1,1,1-Trichloroethane	136.4	112	111	50-150	33-167	1	0-35	
1,1,2-Trichloroethane	136.4	117	120	65-149	51-163	2	0-37	
1,3,5-Trimethylbenzene	122.9	115	111	50-150	33-167	4	0-35	
1,1,2,2-Tetrachloroethane	171.6	121	117	50-150	33-167	3	0-35	
1,2,4-Trimethylbenzene	122.9	114	110	50-150	33-167	4	0-35	
1,2,4-Trichlorobenzene	185.5	123	115	50-150	33-167	7	0-35	
Vinyl Acetate	88.03	115	113	50-150	33-167	2	0-35	
Vinyl Chloride	63.91	131	128	45-177	23-199	2	0-36	
1,1-Difluoroethane	67.54	126	123	50-150	33-167	2	0-35	
Isopropanol	61.45	89	88	50-150	33-167	2	0-35	

Total number of LCS compounds : 58
Total number of ME compounds : 0
Total number of ME compounds allowed : 3
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-04-1150
Preparation: N/A
Method: EPA TO-15

Project: Canoga Park / 2009025

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-10,010	**Air**	**GC/MS YY**	**N/A**	**04/23/12**	**120423L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Acetone	59.39	101	103	50-150	33-167	2	0-35	
Benzene	79.87	96	97	60-156	44-172	1	0-40	
Benzyl Chloride	129.4	112	115	50-150	33-167	3	0-35	
Bromodichloromethane	167.5	96	97	50-150	33-167	1	0-35	
Bromoform	258.4	126	127	62-134	50-146	0	0-38	
Bromomethane	97.08	94	97	50-150	33-167	2	0-35	
2-Butanone	73.73	99	102	50-150	33-167	3	0-35	
Carbon Disulfide	77.85	119	122	50-150	33-167	3	0-35	
Carbon Tetrachloride	157.3	107	108	64-154	49-169	1	0-32	
Chlorobenzene	115.1	103	104	50-150	33-167	2	0-35	
Chloroethane	65.96	96	99	50-150	33-167	3	0-35	
Chloroform	122.1	93	95	50-150	33-167	3	0-35	
Chloromethane	51.63	88	90	50-150	33-167	3	0-35	
Dibromochloromethane	213.0	112	114	50-150	33-167	2	0-35	
Dichlorodifluoromethane	123.6	91	93	50-150	33-167	2	0-35	
Diisopropyl Ether (DIPE)	104.5	90	95	50-150	33-167	5	0-35	
1,1-Dichloroethane	101.2	102	106	50-150	33-167	4	0-35	
1,1-Dichloroethene	99.12	100	103	50-150	33-167	3	0-35	
1,2-Dibromoethane	192.1	105	107	54-144	39-159	2	0-36	
Dichlorotetrafluoroethane	174.8	79	81	50-150	33-167	3	0-35	
1,2-Dichlorobenzene	150.3	99	98	34-160	13-181	1	0-47	
1,2-Dichloroethane	101.2	98	101	69-153	55-167	2	0-35	
1,2-Dichloropropane	115.5	106	108	67-157	52-172	2	0-35	
1,3-Dichlorobenzene	150.3	98	94	50-150	33-167	4	0-35	
1,4-Dichlorobenzene	150.3	98	94	36-156	16-176	4	0-47	
c-1,3-Dichloropropene	113.5	101	102	61-157	45-173	1	0-35	
c-1,2-Dichloroethene	99.12	97	99	50-150	33-167	2	0-35	
t-1,2-Dichloroethene	99.12	93	95	50-150	33-167	2	0-35	
t-1,3-Dichloropropene	113.5	111	112	50-150	33-167	1	0-35	
Ethanol	188.4	69	78	50-150	33-167	12	0-35	
Ethyl-t-Butyl Ether (ETBE)	104.5	109	114	50-150	33-167	4	0-35	
Ethylbenzene	108.6	96	97	52-154	35-171	2	0-38	
4-Ethyltoluene	122.9	94	92	50-150	33-167	2	0-35	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-04-1150
Preparation: N/A
Method: EPA TO-15

Project: Canoga Park / 2009025

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-10,010	**Air**	**GC/MS YY**	**N/A**	**04/23/12**	**120423L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Hexachloro-1,3-Butadiene	266.6	148	152	50-150	33-167	3	0-35	ME
2-Hexanone	102.4	108	111	50-150	33-167	3	0-35	
Methyl-t-Butyl Ether (MTBE)	90.13	96	100	50-150	33-167	4	0-35	
Methylene Chloride	86.84	101	104	50-150	33-167	3	0-35	
4-Methyl-2-Pentanone	102.4	105	106	50-150	33-167	1	0-35	
o-Xylene	108.6	95	96	52-148	36-164	1	0-38	
p/m-Xylene	217.1	99	100	42-156	23-175	2	0-41	
Styrene	106.5	99	100	50-150	33-167	1	0-35	
Tert-Amyl-Methyl Ether (TAME)	104.5	94	97	50-150	33-167	3	0-35	
Tert-Butyl Alcohol (TBA)	151.6	103	104	50-150	33-167	1	0-35	
Tetrachloroethene	169.6	118	120	56-152	40-168	2	0-40	
Toluene	94.21	98	101	56-146	41-161	2	0-43	
Trichloroethene	134.3	94	96	63-159	47-175	2	0-34	
Trichlorofluoromethane	140.5	93	95	50-150	33-167	2	0-35	
1,1,2-Trichloro-1,2,2-Trifluoroethane	191.6	101	103	50-150	33-167	3	0-35	
1,1,1-Trichloroethane	136.4	96	99	50-150	33-167	2	0-35	
1,1,2-Trichloroethane	136.4	95	97	65-149	51-163	1	0-37	
1,3,5-Trimethylbenzene	122.9	95	93	50-150	33-167	2	0-35	
1,1,2,2-Tetrachloroethane	171.6	99	97	50-150	33-167	1	0-35	
1,2,4-Trimethylbenzene	122.9	95	93	50-150	33-167	2	0-35	
1,2,4-Trichlorobenzene	185.5	136	138	50-150	33-167	2	0-35	
Vinyl Acetate	88.03	93	96	50-150	33-167	3	0-35	
Vinyl Chloride	63.91	91	94	45-177	23-199	3	0-36	
1,1-Difluoroethane	67.54	101	103	50-150	33-167	2	0-35	
Isopropanol	61.45	101	100	50-150	33-167	1	0-35	

Total number of LCS compounds : 58
Total number of ME compounds : 1
Total number of ME compounds allowed : 3
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Summa Canister Vacuum Summary

Work Order Number: **12-04-1150**

Sample Name	Vacuum In	Vacuum Out	Equipment	Description
SG2011-1-33.3	-6.00	-29.80	D715	Summa Canister 6L
SG2011-1-24.5	-5.00	-29.80	D671	Summa Canister 6L
SG2011-1-14.6	-5.00	-29.80	D407	Summa Canister 6L
SG2011-1-5.6	-6.00	-29.80	D466	Summa Canister 6L
SG2011-3-45.5	-5.00	-29.60	D246	Summa Canister 6L
SG2011-3-35.5	-4.00	-29.60	D869	Summa Canister 6L
SG2011-3-25.2	-4.00	-29.60	D807	Summa Canister 6L
SG2011-3-15.4	-3.00	-29.80	D347	Summa Canister 6L
SG2011-3-6.0	-3.00	-29.60	D548	Summa Canister 6L
SG2011-2-47.1	-4.00	-29.70	D209	Summa Canister 6L
SG2011-2-35.1	-5.00	-29.60	D307	Summa Canister 6L
SG2011-2-25.0	-5.00	-29.60	D767	Summa Canister 6L
SG2011-2-14.9	-4.00	-29.60	D404	Summa Canister 6L
SG2011-2-6.0	-5.50	-29.80	D080	Summa Canister 6L
SG2011-1A-33.3	-4.00	-29.80	D648	Summa Canister 6L

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 12-04-1150

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
MPN - Most Probable Number

Revised COC received 04/25/2012 at 14:07

Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Date 04-17-2012

Page 1 of 2

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(714) 895-5494

NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

LABORATORY CLIENT: OTIE

ADDRESS: 317 E Main St

CITY: Ventura STATE: CA ZIP: 93001

TEL: 805-585-2110 E-MAIL:

CLIENT PROJECT NAME / NUMBER: Canoga Park/2008025

PROJECT CONTACT: Sarah VanMiddlesworth

P.O. NO.:

LAB USE ONLY: 12-04-1150

SAMPLER(S): (PRINT) Lucas Buchy

COELT LOG CODE

COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☐

SPECIAL INSTRUCTIONS:
- OTIE Specific EDDs
- SLIC# SL2043T1572
- Used Isopropanol as tracer gas
- Report both soil & gas data in one report.

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260B) or ( )	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+	End Pressure	Canister #
1	SG2011-1-33.3		4-17-12	1406	A	1														X		-6.0	A86
2	SG2011-1-24.5			1407																		-5.0	A314
3	SG2011-1-14.6			1409																		-5.0	A302
4	SG2011-1-6.6			1449																		-6.0	A255
5	SG2011-3-45.5			1608																		-5.0	A106
6	SG2011-3-35.5			1527																		-4.0	A152
7	SG2011-3-25.2			1529																		-4.0	A044
8	SG2011-3-15.4			1530																		-3.0	A267
9	SG2011-3-6.0			1532																		-3.0	A119
10	SG2011-2-47.1		4-17-12	1634	A	1														X		-4.0	A017

Relinquished by: (Signature)	Received by: (Signature/Affiliation) COEL	Date: 4/18/12	Time: 1330
Relinquished by: (Signature)	Received by: (Signature/Affiliation) CA	Date: 4/18/12	Time: 1800
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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(925) 689-9022

CHAIN OF CUSTODY RECORD

Date 4-17-2012

Page 2 of 2

LABORATORY CLIENT: OTIE

ADDRESS: 317 E Main St.

CITY: Ventura STATE: CA ZIP: 93001

TEL: 805-585-2110 E-MAIL:

CLIENT PROJECT NAME / NUMBER:

P.O. NO.:

PROJECT CONTACT:

LAB USE ONLY: 04-01150

SAMPLER(S): (PRINT)

COELT LOG CODE

COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☐

SPECIAL INSTRUCTIONS:
- OTIE Specific EDDs
- SLIC# SL2043T1572
- Used Isopropanol as tracer gas
- Report both ug/L + ppbv in one report

4-23-12 04-25-12

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260B) or ( )	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) (7196A or 7199 or 218.6)	VOCs (TO-14A) or (TO-15)	TPH (g) by TO-3	Canister #
11	SG2011-2-35.1		4-17-2011	1617	A	1														X	-5.0	A141
12	SG2011-2-25.0			1627																	-5.0	A044
13	SG2011-2-14.9			1615																	-4.0	A123
14	SG2011-2-6.0			1726	V	V															-5.5	A200
15	SG2011-1A-33.3		4-17-2011	1622	A	1														X	-4.0	A373

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Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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(925) 689-9022

Date 04-17-2012

Page 1 of 2

LABORATORY CLIENT: OTIE

ADDRESS: 317 E Main St

CITY: Ventura STATE: CA ZIP: 93001

TEL: 805-585-2110 E-MAIL:

CLIENT PROJECT NAME / NUMBER: Canoga Park/2009025

P.O. NO.:

PROJECT CONTACT: Sarah VanMiddlesworth

LAB USE ONLY: 12-04-1150

SAMPLER(S): (PRINT) Lucas Buchy

COELT LOG CODE

COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☐

SPECIAL INSTRUCTIONS:
- OTIE Specific EDDs
- SLIC# SL2043 T1572
- Used Isopropanol as tracer gas

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260B) or ( )	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+	End Pressure	Canister #
1	SG2011-1-33.3		4-17-12	1406	A	1														X		-6.0	A86
2	SG2011-1-24.5			1407																		-5.0	A314
3	SG2011-1-14.6			1409																		-5.0	A302
4	SG2011-1-5.6			1449																		-6.0	A255
5	SG2011-3-45.5			1608																		-5.0	A106
6	SG2011-3-35.5			1527																		-4.0	A152
7	SG2011-3-25.2			1529																		-4.0	A064
8	SG2011-3-15.4			1530																		-3.0	A267
9	SG2011-3-6.0			1532																		-3.0	A110
10	SG2011-2-47.1		4-17-12	1634	A	1														X		-4.0	A017

Relinquished by: (Signature)	Received by: (Signature/Affiliation) CEL	Date: 4/18/12	Time: 1330
Relinquished by: (Signature)	Received by: (Signature/Affiliation) CA	Date: 4/18/12	Time: 1800
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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(925) 689-9022

CHAIN OF CUSTODY RECORD

Date 4-17-2012

LABORATORY CLIENT: OTIE

ADDRESS: 317 E Main St.

CITY: Ventura STATE: CA ZIP: 93001

TEL: 805-585-2110 E-MAIL:

CLIENT PROJECT NAME / NUMBER:

P.O. NO.:

PROJECT CONTACT:

LAB USE ONLY: 04-1150

SAMPLER(S): (PRINT)

COELT LOG CODE

COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☐ _____

SPECIAL INSTRUCTIONS:
- OTIE specific EDDs
- SLIC#SL2043T1572
- Used Isopropanol as tracer gas

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260B) or ( )	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	~~TPH (g) (TO-3)~~ End pressure	Canister #
11	SG2011-2-35.1		4-17-2011	1617	A	1														X	-5.0	A41
12	SG2011-2-25.0			1627																	-5.0	A024
13	SG2011-2-14.9			1615																	-4.0	A123
14	SG2011-2-6.0			1726																	-5.5	A200
15	SG2011-1A-33.3		4-17-2011	1622	A	1														X	-4.0	A323

Relinquished by: (Signature)	Received by: (Signature/Affiliation) COEL	Date: 4/18/12	Time: 1330
Relinquished by: (Signature)	Received by: (Signature/Affiliation) CEL	Date: 4/18/12	Time: 1800
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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-04-1150

SAMPLE RECEIPT FORM

Cooler 0 of 0

CLIENT: OTIE DATE: 04/18/12

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature ____•____ °C - 0.3 °C (CF) = ____•____ °C ☐ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☑ Air ☐ Filter **Initial:** _____

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☑ N/A **Initial:** _____

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** _____

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s** ☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB ☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☑Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** _____

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** _____

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** _____

Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-04-1151

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: OTIE

Client Project Name: Canoga Park / 2009025

Attention: Sarah Van Middlesworth
317 East Main Street
Ventura, CA 93001-2624

Approved for release on 04/25/2012 by:
Virendra Patel
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: Canoga Park / 2009025
Work Order Number: 12-04-1151

1 Detections Summary 3

2 Client Sample Data 4
2.1 EPA 8260B Volatile Organics (Aqueous) 4

3 Quality Control Sample Data 9
3.1 MS/MSD and/or Duplicate 9
3.2 LCS/LCSD 10

4 Glossary of Terms and Qualifiers 11

5 Chain of Custody/Sample Receipt Form 12

Calscience Environmental Laboratories, Inc.

Client:	OTIE	Work Order:	12-04-1151
	317 East Main Street	Project Name:	Canoga Park / 2009025
	Ventura, CA 93001-2624	Received:	04/18/12 18:00
Attn:	Sarah Van Middlesworth		

DETECTIONS SUMMARY

Client Sample ID / Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
BGW2011-3-56						
Trichlorofluoromethane	**29**		10	ug/L	EPA 8260B	EPA 5030C
BGW2011-3-72						
Trichlorofluoromethane	**28**		10	ug/L	EPA 8260B	EPA 5030C
BGW2011-1-56						
Chloroform	**2.6**		1.0	ug/L	EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

Return to Contents

*MDL is shown.

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 04/18/12
Work Order No: 12-04-1151
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BGW2011-3-56	**12-04-1151-2-A**	**04/16/12 09:50**	**Aqueous**	**GC/MS Q**	**04/19/12**	**04/20/12 09:28**	**120419L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	29	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	80-120		Dibromofluoromethane	103	80-126	
1,2-Dichloroethane-d4	91	80-134		Toluene-d8	102	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 04/18/12
Work Order No: 12-04-1151
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BGW2011-3-72	**12-04-1151-3-A**	**04/16/12 10:10**	**Aqueous**	**GC/MS Q**	**04/19/12**	**04/20/12 09:56**	**120419L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	28	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	102	80-126	
1,2-Dichloroethane-d4	88	80-134		Toluene-d8	103	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 04/18/12
Work Order No: 12-04-1151
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BGW2011-2-56	**12-04-1151-4-A**	**04/16/12 11:10**	**Aqueous**	**GC/MS Q**	**04/19/12**	**04/20/12 10:24**	**120419L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	93	80-120		Dibromofluoromethane	101	80-126	
1,2-Dichloroethane-d4	88	80-134		Toluene-d8	103	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 04/18/12
Work Order No: 12-04-1151
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BGW2011-1-56	**12-04-1151-5-A**	**04/16/12 12:30**	**Aqueous**	**GC/MS Q**	**04/19/12**	**04/20/12 10:52**	**120419L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	2.6	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	93	80-120		Dibromofluoromethane	103	80-126	
1,2-Dichloroethane-d4	90	80-134		Toluene-d8	103	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 04/18/12
Work Order No: 12-04-1151
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-7,571**	**N/A**	**Aqueous**	**GC/MS Q**	**04/19/12**	**04/20/12 02:02**	**120419L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	94	80-120		Dibromofluoromethane	97	80-126	
1,2-Dichloroethane-d4	87	80-134		Toluene-d8	102	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 04/18/12
Work Order No: 12-04-1151
Preparation: EPA 5030C
Method: EPA 8260B

Project Canoga Park / 2009025

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-04-1060-12	**Aqueous**	**GC/MS Q**	**04/19/12**	**04/20/12**	**120419S02**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	50.00	108	108	78-120	0	0-20	
Carbon Tetrachloride	50.00	85	88	67-139	3	0-20	
Chlorobenzene	50.00	100	100	80-120	1	0-20	
1,2-Dibromoethane	50.00	108	106	80-123	2	0-20	
1,2-Dichlorobenzene	50.00	92	93	76-120	1	0-20	
1,2-Dichloroethane	50.00	98	97	76-130	1	0-20	
1,1-Dichloroethene	50.00	92	92	70-130	0	0-27	
Ethylbenzene	50.00	104	102	73-127	2	0-20	
Toluene	50.00	108	108	72-126	1	0-20	
Trichloroethene	50.00	111	110	74-122	1	0-20	
Vinyl Chloride	50.00	97	96	65-131	1	0-24	
Methyl-t-Butyl Ether (MTBE)	50.00	84	87	69-123	3	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-04-1151
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B

Project: Canoga Park / 2009025

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-7,571	**Aqueous**	**GC/MS Q**	**04/19/12**	**04/20/12**	**120419L02**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	108	109	80-120	73-127	1	0-20	
Carbon Tetrachloride	50.00	90	91	66-138	54-150	1	0-20	
Chlorobenzene	50.00	101	100	80-120	73-127	0	0-20	
1,2-Dibromoethane	50.00	110	109	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	50.00	94	94	80-120	73-127	0	0-20	
1,2-Dichloroethane	50.00	99	97	80-129	72-137	1	0-20	
1,1-Dichloroethene	50.00	96	96	71-131	61-141	0	0-20	
Ethylbenzene	50.00	104	104	80-123	73-130	0	0-20	
Toluene	50.00	108	110	79-121	72-128	2	0-20	
Trichloroethene	50.00	110	109	80-120	73-127	1	0-20	
Vinyl Chloride	50.00	97	98	70-136	59-147	1	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	89	87	72-126	63-135	2	0-22	

Total number of LCS compounds : 12
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 12-04-1151

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
MPN - Most Probable Number

Return to Contents

Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Date 04-16-2012

Page 1 of 1

☒ SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

LABORATORY CLIENT: OTIE

ADDRESS: 317 E Main St

CITY: Ventura STATE: CA ZIP: 93001

TEL: 805-585-2110 E-MAIL:

CLIENT PROJECT NAME / NUMBER: Canoga Park/2009025

PROJECT CONTACT: Sara VanMiddlesworth

P.O. NO.:

LAB USE ONLY: 12-04-1151

SAMPLER(S): (PRINT) Lucas Buday

COELT LOG CODE

COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☐ COELT EDF ☐ _____

SPECIAL INSTRUCTIONS:
OTIE specific EDD
SLIC#SL2043 T1572

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260B) or ( )	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+	Hold		
1	TB-1		04-16-12	0900	W	2																X		
2	BGW2011-3-56			0950		3					X													
3	BGW2011-3-72			1010		3					X													
4	BGW2011-2-56			1110		3					X													
5	BGW2011-1-56		4-16IR	1230	W	3					X													

04-16-2012

Relinquished by: (Signature)	Received by: (Signature/Affiliation) CEL	Date: 4/18/12	Time: 1330
Relinquished by: (Signature)	Received by: (Signature/Affiliation) CEL	Date: 4/18/12	Time: 1800
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

05/01/07 Revision

Return to Contents

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-04-1[1]5[1]

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: OTIE DATE: 04/18/12

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.6 °C - 0.3 °C (CF) = 2.3 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Initial: AC

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: AC

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: PT

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☑	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:** 110198 **Labeled/Checked by:** PT

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** bv

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** _____

Return to Contents

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-04-1151

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

Comments:

- ☐ **Sample(s) NOT RECEIVED but listed on COC**
- ☐ **Sample(s) received but NOT LISTED on COC**
- ☐ **Holding time expired** – list sample ID(s) and test
- ☐ **Insufficient quantities for analysis** – list test
- ☐ **Improper container(s) used** – list test
- ☐ **Improper preservative used** – list test
- ☐ **No preservative noted on COC or label** – list test & notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☐ **Sample label(s) do not match COC** – Note in comments
  - ☐ **Sample ID**
  - ☐ **Date and/or Time Collected**
  - ☐ **Project Information**
  - ☐ **# of Container(s)**
  - ☐ **Analysis**
- ☐ **Sample container(s) compromised** – Note in comments
  - ☐ **Water present in sample container**
  - ☐ **Broken**
- ☐ **Sample container(s) not labeled**
- ☐ **Air sample container(s) compromised** – Note in comments
  - ☐ **Flat**
  - ☐ **Very low in volume**
  - ☐ **Leaking (Not transferred - duplicate bag submitted)**
  - ☐ **Leaking (transferred into Calscience Tedlar® Bag*)**
  - ☐ **Leaking (transferred into Client's Tedlar® Bag*)**
- ☐ **Other:** _____

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis
1	A-B	2							

Comments: _____

*Transferred at Client's request.

Initial / Date: PT 04/18/12

Return to Contents

Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-04-1844

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: OTIE

Client Project Name: Raytheon Canoga Park / 2009.025/0620

Attention: Kim Sawyer
317 East Main Street
Ventura, CA 93001-2624

Emma C. Dennison
for

Approved for release on 05/1/2012 by:
Virendra Patel
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: Raytheon Canoga Park / 2009.025/0620
Work Order Number: 12-04-1844

1 Detections Summary 3

2 Client Sample Data 4
2.1 EPA 8260B Volatile Organics (Aqueous) 4

3 Quality Control Sample Data 8
3.1 MS/MSD and/or Duplicate 8
3.2 LCS/LCSD 9

4 Glossary of Terms and Qualifiers 10

5 Chain of Custody/Sample Receipt Form 11

Calscience Environmental Laboratories, Inc.

Client:	OTIE	Work Order:	12-04-1844
	317 East Main Street	Project name:	Raytheon Canoga Park / 2009.025/0620
	Ventura, CA 93001-2624	Received:	04/30/12 19:37
Attn:	Kim Sawyer		

DETECTIONS SUMMARY

Client Sample ID Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
CM-10 (12-04-1844-1)						
Chloroform	**1.1**		1.0	ug/L	EPA 8260B	EPA 5030C
Trichlorofluoromethane	**35**		10	ug/L	EPA 8260B	EPA 5030C
MW-31 (12-04-1844-2)						
Trichlorofluoromethane	**120**		20	ug/L	EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

Return to Contents

*MDL is shown.

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 04/30/12
Work Order No: 12-04-1844
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park / 2009.025/0620

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CM-10	**12-04-1844-1-A**	**04/30/12 11:10**	**Aqueous**	**GC/MS RR**	**05/01/12**	**05/01/12 12:18**	**120501L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	1.1	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	35	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	100	80-120		Dibromofluoromethane	105	80-126	
1,2-Dichloroethane-d4	102	80-134		Toluene-d8	102	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 04/30/12
Work Order No: 12-04-1844
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park / 2009.025/0620

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-31	**12-04-1844-2-A**	**04/30/12 12:05**	**Aqueous**	**GC/MS RR**	**05/01/12**	**05/01/12 14:04**	**120501L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	120	20	2	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	102	80-120			Dibromofluoromethane	104	80-126		
1,2-Dichloroethane-d4	102	80-134			Toluene-d8	101	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 04/30/12
Work Order No: 12-04-1844
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park / 2009.025/0620

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Field Blank	**12-04-1844-3-A**	**04/30/12 12:45**	**Aqueous**	**GC/MS RR**	**05/01/12**	**05/01/12 14:31**	**120501L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	101	80-120			Dibromofluoromethane	104	80-126		
1,2-Dichloroethane-d4	101	80-134			Toluene-d8	102	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 04/30/12
Work Order No: 12-04-1844
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park / 2009.025/0620

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-7,669**	**N/A**	**Aqueous**	**GC/MS RR**	**05/01/12**	**05/01/12 11:51**	**120501L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	101	80-120			Dibromofluoromethane	106	80-126		
1,2-Dichloroethane-d4	105	80-134			Toluene-d8	103	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 04/30/12
Work Order No: 12-04-1844
Preparation: EPA 5030C
Method: EPA 8260B

Project Raytheon Canoga Park / 2009.025/0620

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
CM-10	**Aqueous**	**GC/MS RR**	**05/01/12**	**05/01/12**	**120501S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	50.00	100	100	78-120	0	0-20	
Carbon Tetrachloride	50.00	98	97	67-139	1	0-20	
Chlorobenzene	50.00	93	92	80-120	1	0-20	
1,2-Dibromoethane	50.00	98	97	80-123	0	0-20	
1,2-Dichlorobenzene	50.00	93	94	76-120	1	0-20	
1,2-Dichloroethane	50.00	93	92	76-130	1	0-20	
1,1-Dichloroethene	50.00	96	97	70-130	0	0-27	
Ethylbenzene	50.00	102	100	73-127	2	0-20	
Toluene	50.00	101	101	72-126	0	0-20	
Trichloroethene	50.00	99	100	74-122	1	0-20	
Vinyl Chloride	50.00	115	117	65-131	1	0-24	
Methyl-t-Butyl Ether (MTBE)	50.00	99	100	69-123	1	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-04-1844
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B

Project: Raytheon Canoga Park / 2009.025/0620

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-7,669	**Aqueous**	**GC/MS RR**	**05/01/12**	**05/01/12**	**120501L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	105	102	80-120	73-127	2	0-20	
Carbon Tetrachloride	50.00	100	100	66-138	54-150	0	0-20	
Chlorobenzene	50.00	96	94	80-120	73-127	2	0-20	
1,2-Dibromoethane	50.00	104	103	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	50.00	99	96	80-120	73-127	4	0-20	
1,2-Dichloroethane	50.00	97	95	80-129	72-137	2	0-20	
1,1-Dichloroethene	50.00	100	100	71-131	61-141	1	0-20	
Ethylbenzene	50.00	106	102	80-123	73-130	3	0-20	
Toluene	50.00	106	103	79-121	72-128	2	0-20	
Trichloroethene	50.00	104	101	80-120	73-127	3	0-20	
Vinyl Chloride	50.00	119	119	70-136	59-147	0	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	106	106	72-126	63-135	0	0-22	

Total number of LCS compounds : 12
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 12-04-1844

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
MPN - Most Probable Number

Return to Contents

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: 4-30-12

PAGE: 1 OF 1

LABORATORY CLIENT: OTIE

ADDRESS: 317 E. Main Street, Ventura CA 93001

TEL: 805.585.2110 | FAX: 805.585.2111 | E-MAIL: ksawyer@otie.com

CLIENT PROJECT NAME / NUMBER: Raytheon CANOGA PARK

P.O. NO.: 2009.025/0620

PROJECT CONTACT: Kim Sawyer

12-04-1844

SAMPLER(S): (SIGNATURE) Bob Johnson

COELT LOG CODE: T N A V

COOLER RECEIPT: Temp = _____ °C

TURNAROUND TIME: ☐ SAME DAY ☒ 24 HR ☐ 48HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING ☐ COELT EDF ☐ _____

SPECIAL INSTRUCTIONS

** OTIE SPECIFIC EDD/COELT EDF **

24 hr. turnaround time

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	EPA 8260B - VOCs	HPLC/UV - VFAs (Organic Acids)	RSK-175M - Methane,Ethane,Ethene	RSK-175M - Carbon Dioxide	EPA 300.0 - Br,Cl,NO2,NO3, o-PO4,SO4	SM 3500-FeB - Ferrous Iron	SM2540C - TDS	SM5310C - TOC	EPA 7199 - Hexavalent Chromium	EPA 245.1 - Hg	EPA 200.8 - See Special Instructions		CONTAINER TYPE
1	CM-10	CM-10	04/30/12	1110	GW	3	X												
2	MW-31	MW-31	04/30/12	1205	GW	3	X												
3	FieldBlank		4/30/12	1245	H2O	3	X												

		Date	Time
Relinquished by: (Signature) Bob Johnson	Received by: (Signature) CEL	4/30/12	14°°
Relinquished by: (Signature)	Received by: (Signature) Dannyle CEL	4/30/12	19:37
Relinquished by: (Signature)	Received by: (Signature)		

4/27/2012

Return to Contents

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-04-1844

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: OTie

DATE: 04/30/12

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.7 °C - 0.3 °C (CF) = 2.4 °C ☐ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter **Initial:** _____

CUSTODY SEALS INTACT:

☐ Cooler	☐_____	☐ No (Not Intact)	☑ Not Present	☐ N/A	**Initial:** _____
☐ Sample	☐_____	☐ No (Not Intact)	☑ Not Present		**Initial:** DL

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** DL

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** _____

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** _____

Return to Contents

Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-05-2127

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: OTIE

Client Project Name: Raytheon Canoga Park / 2009025

Attention: Sarah Van Middlesworth
317 East Main Street
Ventura, CA 93001-2624

Approved for release on 06/7/2012 by:
Virendra Patel
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: Raytheon Canoga Park / 2009025
Work Order Number: 12-05-2127

1 Detections Summary 3

2 Client Sample Data 4
2.1 EPA 8260B Volatile Organics (Aqueous) 4

3 Quality Control Sample Data 9
3.1 MS/MSD and/or Duplicate 9
3.2 LCS/LCSD 10

4 Glossary of Terms and Qualifiers 11

5 Chain of Custody/Sample Receipt Form 12

Calscience Environmental Laboratories, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Client:	OTIE	Work Order:	12-05-2127
	317 East Main Street	Project name:	Raytheon Canoga Park / 2009025
	Ventura, CA 93001-2624	Received:	05/31/12 18:30
Attn:	Sarah Van Middlesworth		

DETECTIONS SUMMARY

Client Sample ID Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
SHBGW2012-3-48 (12-05-2127-2)						
Trichlorofluoromethane	**11**		10	ug/L	EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

Return to Contents

*MDL is shown.

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	05/31/12
317 East Main Street		Work Order No:	12-05-2127
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L

Project: Raytheon Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCTB20120530	**12-05-2127-1-A**	**05/30/12 12:00**	**Aqueous**	**GC/MS Q**	**06/01/12**	**06/02/12 02:55**	**120601L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	99	80-120			Dibromofluoromethane	109	80-126		
1,2-Dichloroethane-d4	105	80-134			Toluene-d8	101	80-120		

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 05/31/12
Work Order No: 12-05-2127
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SHBGW2012-3-48	**12-05-2127-2-A**	**05/30/12 13:12**	**Aqueous**	**GC/MS Q**	**06/01/12**	**06/02/12 06:40**	**120601L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	11	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	114	80-126	
1,2-Dichloroethane-d4	108	80-134		Toluene-d8	102	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	05/31/12
317 East Main Street		Work Order No:	12-05-2127
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L

Project: Raytheon Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SHBGW2012-3-60	**12-05-2127-3-A**	**05/30/12 14:00**	**Aqueous**	**GC/MS Q**	**06/01/12**	**06/02/12 07:08**	**120601L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	97	80-120			Dibromofluoromethane	113	80-126		
1,2-Dichloroethane-d4	107	80-134			Toluene-d8	102	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 05/31/12
Work Order No: 12-05-2127
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SHBGW2012-3A-60	**12-05-2127-4-A**	**05/30/12 14:20**	**Aqueous**	**GC/MS Q**	**06/01/12**	**06/02/12 07:36**	**120601L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	115	80-126	
1,2-Dichloroethane-d4	113	80-134		Toluene-d8	102	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 05/31/12
Work Order No: 12-05-2127
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-7,946**	**N/A**	**Aqueous**	**GC/MS Q**	**06/01/12**	**06/02/12 02:27**	**120601L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	99	80-120		Dibromofluoromethane	113	80-126	
1,2-Dichloroethane-d4	107	80-134		Toluene-d8	102	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 05/31/12
Work Order No: 12-05-2127
Preparation: EPA 5030C
Method: EPA 8260B

Project Raytheon Canoga Park / 2009025

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-05-2101-2	**Aqueous**	**GC/MS Q**	**06/01/12**	**06/02/12**	**120601S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	52.16	104	52.88	106	78-120	1	0-20	
Carbon Tetrachloride	ND	50.00	59.56	119	61.54	123	67-139	3	0-20	
Chlorobenzene	ND	50.00	55.91	112	57.09	114	80-120	2	0-20	
1,2-Dibromoethane	ND	50.00	53.84	108	53.43	107	80-123	1	0-20	
1,2-Dichlorobenzene	ND	50.00	50.88	102	50.92	102	76-120	0	0-20	
1,2-Dichloroethane	ND	50.00	55.15	110	55.28	111	76-130	0	0-20	
1,1-Dichloroethene	ND	50.00	44.06	88	44.57	89	70-130	1	0-27	
Ethylbenzene	ND	50.00	55.35	111	55.45	111	73-127	0	0-20	
Toluene	ND	50.00	58.15	116	58.40	117	72-126	0	0-20	
Trichloroethene	ND	50.00	55.15	110	56.39	113	74-122	2	0-20	
Vinyl Chloride	ND	50.00	52.00	104	53.25	107	65-131	2	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	50.38	101	50.13	100	69-123	1	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-05-2127
Preparation: EPA 5030C
Method: EPA 8260B

Project: Raytheon Canoga Park / 2009025

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-7,946	**Aqueous**	**GC/MS Q**	**06/01/12**	**06/02/12**	**120601L03**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	51.57	103	52.29	105	80-120	73-127	1	0-20	
Carbon Tetrachloride	50.00	58.52	117	60.49	121	66-138	54-150	3	0-20	
Chlorobenzene	50.00	55.79	112	56.66	113	80-120	73-127	2	0-20	
1,2-Dibromoethane	50.00	53.69	107	54.17	108	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	50.00	50.69	101	51.15	102	80-120	73-127	1	0-20	
1,2-Dichloroethane	50.00	54.30	109	54.12	108	80-129	72-137	0	0-20	
1,1-Dichloroethene	50.00	44.15	88	44.54	89	71-131	61-141	1	0-20	
Ethylbenzene	50.00	54.82	110	55.70	111	80-123	73-130	2	0-20	
Toluene	50.00	57.89	116	58.27	117	79-121	72-128	1	0-20	
Trichloroethene	50.00	54.96	110	56.53	113	80-120	73-127	3	0-20	
Vinyl Chloride	50.00	52.73	105	53.02	106	70-136	59-147	1	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	49.75	100	50.75	101	72-126	63-135	2	0-22	

Total number of LCS compounds : 12
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 12-05-2127

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
MPN - Most Probable Number

Return to Contents

Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

☒ SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

WO # / LAB USE ONLY: 12-05-2127

Date: 30 May 2012

Page 1 of 1

LABORATORY CLIENT: OTIE

ADDRESS: 317 E Main St

CITY: Ventura STATE: CA ZIP: 93001

TEL: 805-585-2110 E-MAIL:

CLIENT PROJECT NAME / NUMBER: Canoga Park 2009025

P.O. NO.:

PROJECT CONTACT: Sarah Van Middlesworth

SAMPLER(S): (PRINT) Lucas Buday

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

☐ COELT EDF GLOBAL ID LOG CODE

SPECIAL INSTRUCTIONS:
OTIE Specific EDDs
SLIC# 2043 T1572

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH (g) or GRO	TPH (d) or DRO or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260) or ( )	VOCs (8260)	Oxygenates (8260)	En Core / Terra Core Prep (5035)	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PNAs (8310) or (8270)	T22 Metals (6010/747X)	Cr(VI) [7196 or 7199 or 218.6]	Air - VOCs (TO-14A) or (TO-15)	Air - TPH (g) [TO-3]
1	QCTB20120530	5-30-12	1200	W	2								X										
2	SHBGW2012-3-48	5-30-12	1312	W	3								X										
3	SHBGW2012-3-60	5-30-12	1400	W	3								X										
4	SHBGW2012-3A-60	5-30-12	1420	W	3								X										

YES
05-30-12

Relinquished by: (Signature)	Received by: (Signature/Affiliation) COEL	Date: 5/31/12	Time: 1343
Relinquished by: (Signature)	Received by: (Signature/Affiliation) COEL	Date: 5/31/12	Time: 1830
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

06/01/10 Revision

Return to Contents

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-04-2127

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: OTie DATE: 5/31/12

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.7 °C - 0.3 °C (CF) = 2.4 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Initial: _____

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: _____

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: TS

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s** ☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB ☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:** 110121A **Labeled/Checked by:** TS

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** _____

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** _____

Return to Contents

Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-06-0341

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: OTIE

Client Project Name: Canoga Park / 2009025

Attention: Sarah Van Middlesworth
317 East Main Street
Ventura, CA 93001-2624

Approved for release on 06/13/2012 by:
Virendra Patel
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: Canoga Park / 2009025
Work Order Number: 12-06-0341

1 Detections Summary 3

2 Client Sample Data 4
2.1 EPA 8260B Volatile Organics (Aqueous) 4

3 Quality Control Sample Data 10
3.1 MS/MSD and/or Duplicate 10
3.2 LCS/LCSD 11

4 Glossary of Terms and Qualifiers 12

5 Chain of Custody/Sample Receipt Form 13

Calscience Environmental Laboratories, Inc.

Client:	OTIE	Work Order:	12-06-0341
	317 East Main Street	Project name:	Canoga Park / 2009025
	Ventura, CA 93001-2624	Received:	06/06/12 17:50
Attn:	Sarah Van Middlesworth		

DETECTIONS SUMMARY

Client Sample ID / Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
FLBGW2012-1-50 (12-06-0341-2)						
Trichlorofluoromethane	**12**		10	ug/L	EPA 8260B	EPA 5030C
FLBGW2012-1-64 (12-06-0341-3)						
Trichlorofluoromethane	**15**		10	ug/L	EPA 8260B	EPA 5030C
FLBGW2012-2-52 (12-06-0341-4)						
Trichlorofluoromethane	**11**		10	ug/L	EPA 8260B	EPA 5030C
FLBGW2012-2-62 (12-06-0341-5)						
Trichlorofluoromethane	**11**		10	ug/L	EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

Return to Contents

*MDL is shown.

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 06/06/12
Work Order No: 12-06-0341
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCTB20120605	**12-06-0341-1-A**	**06/05/12 10:00**	**Aqueous**	**GC/MS RR**	**06/07/12**	**06/08/12 05:50**	**120607L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	99	80-120			Dibromofluoromethane	100	80-126		
1,2-Dichloroethane-d4	94	80-134			Toluene-d8	99	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 06/06/12
Work Order No: 12-06-0341
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FLBGW2012-1-50	**12-06-0341-2-A**	**06/05/12 11:55**	**Aqueous**	**GC/MS RR**	**06/07/12**	**06/08/12 06:17**	**120607L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	12	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	99	80-120		Dibromofluoromethane	100	80-126	
1,2-Dichloroethane-d4	96	80-134		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 06/06/12
Work Order No: 12-06-0341
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FLBGW2012-1-64	**12-06-0341-3-A**	**06/05/12 12:25**	**Aqueous**	**GC/MS RR**	**06/07/12**	**06/08/12 06:43**	**120607L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	15	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	99	80-120		Dibromofluoromethane	100	80-126	
1,2-Dichloroethane-d4	92	80-134		Toluene-d8	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 06/06/12
Work Order No: 12-06-0341
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FLBGW2012-2-52	**12-06-0341-4-A**	**06/05/12 15:24**	**Aqueous**	**GC/MS RR**	**06/07/12**	**06/08/12 07:10**	**120607L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	11	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	99	80-120		Dibromofluoromethane	100	80-126	
1,2-Dichloroethane-d4	93	80-134		Toluene-d8	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 06/06/12
Work Order No: 12-06-0341
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FLBGW2012-2-62	**12-06-0341-5-A**	**06/05/12 14:30**	**Aqueous**	**GC/MS RR**	**06/07/12**	**06/08/12 07:36**	**120607L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	11	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	96	80-126	
1,2-Dichloroethane-d4	90	80-134		Toluene-d8	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 06/06/12
Work Order No: 12-06-0341
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Canoga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-7,982**	**N/A**	**Aqueous**	**GC/MS RR**	**06/07/12**	**06/08/12 00:03**	**120607L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	99	80-120		Dibromofluoromethane	100	80-126	
1,2-Dichloroethane-d4	94	80-134		Toluene-d8	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 06/06/12
Work Order No: 12-06-0341
Preparation: EPA 5030C
Method: EPA 8260B

Project Canoga Park / 2009025

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-06-0243-5	**Aqueous**	**GC/MS RR**	**06/07/12**	**06/08/12**	**120607S02**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	48.50	97	49.29	99	78-120	2	0-20	
Carbon Tetrachloride	ND	50.00	48.32	97	48.56	97	69-139	0	0-20	
Chlorobenzene	ND	50.00	50.51	101	50.97	102	70-130	1	0-20	
1,2-Dibromoethane	ND	50.00	50.31	101	50.58	101	80-123	1	0-20	
1,2-Dichlorobenzene	ND	50.00	50.37	101	50.73	101	76-120	1	0-20	
1,2-Dichloroethane	ND	50.00	46.31	93	48.16	96	76-130	4	0-20	
1,1-Dichloroethene	18.02	50.00	53.87	72	54.25	72	70-130	1	0-27	
Ethylbenzene	ND	50.00	50.89	102	50.70	101	73-127	0	0-20	
Toluene	ND	50.00	49.34	99	50.27	101	72-126	2	0-20	
Trichloroethene	11.87	50.00	57.98	92	60.49	97	74-122	4	0-20	
Vinyl Chloride	96.48	50.00	137.1	81	138.9	85	65-131	1	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	45.84	92	47.11	94	69-123	3	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-06-0341
Preparation: EPA 5030C
Method: EPA 8260B

Project: Canoga Park / 2009025

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-7,982	**Aqueous**	**GC/MS RR**	**06/07/12**	**06/07/12**	**120607L02**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	48.96	98	50.86	102	80-120	73-127	4	0-20	
Carbon Tetrachloride	50.00	48.78	98	50.35	101	66-138	54-150	3	0-20	
Chlorobenzene	50.00	50.62	101	52.69	105	80-120	73-127	4	0-20	
1,2-Dibromoethane	50.00	52.09	104	53.25	107	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	50.00	51.72	103	52.96	106	80-120	73-127	2	0-20	
1,2-Dichloroethane	50.00	48.15	96	48.98	98	80-129	72-137	2	0-20	
1,1-Dichloroethene	50.00	38.12	76	39.31	79	71-131	61-141	3	0-20	
Ethylbenzene	50.00	50.27	101	52.65	105	80-123	73-130	5	0-20	
Toluene	50.00	49.92	100	51.77	104	79-121	72-128	4	0-20	
Trichloroethene	50.00	48.32	97	50.23	100	80-120	73-127	4	0-20	
Vinyl Chloride	50.00	50.57	101	52.10	104	70-136	59-147	3	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	47.78	96	48.13	96	72-126	63-135	1	0-22	

Total number of LCS compounds : 12
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 12-06-0341

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
MPN - Most Probable Number

Return to Contents

Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

☒ SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

WO # / LAB USE ONLY: **12-06-0341**

Date: 5 June 2012

Page: 1 of 1

LABORATORY CLIENT: OTIE

ADDRESS: 317 E Main St

CITY: Ventura STATE: CA ZIP: 93001

TEL: 805-585-2110 E-MAIL:

CLIENT PROJECT NAME / NUMBER: Canoga Park / 2009025

P.O. NO.:

PROJECT CONTACT: Sarah Van Middlesworth

SAMPLER(S): (PRINT) Lucas Bundy

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

☐ COELT EDF GLOBAL ID LOG CODE

SPECIAL INSTRUCTIONS:
OTIE Specific EDDs
SLIC# 2043 T1572

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH (g) or GRO	TPH (d) or DRO or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260) or ( )	VOCs (8260)	Oxygenates (8260)	En Core / Terra Core Prep (5035)	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PNAs (8310) or (8270)	T22 Metals (6010/747X)	Cr(VI) [7196 or 7199 or 218.6]	Air - VOCs (TO-14A) or (TO-15)	Air - TPH (g) [TO-3]
1	QCTB20120605	6-5-12	1000	W	2								X										
2	FLBGW2012-1-50	6-5-12	1155	W	3								X										
3	FLBGW 2012-1-64	6-5-12	1225	W	3								X										
4	FLBGW 2012-2-52	6-5-12	1524	W	3								X										
5	FLBGW2012-2-62	6-5-12	1430	W	3								X										

5-3
06-05-12

Relinquished by: (Signature)	Received by: (Signature/Affiliation) CEL	Date: 6/6/12	Time: 1330
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 6/6/12	Time: 1750
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

06/01/10 Revision

Return to Contents

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-06-0341

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: OTie DATE: 06/6/12

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.7 °C - 0.3 °C (CF) = 2.4 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Initial: _____

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: _____

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: _____

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☑	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑3 VOA**h** ☐VOA**na₂** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na₂** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na₂** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:** 110121A **Labeled/Checked by:** _____

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** _____

Preservative: **h:** HCL **n:** HNO_3 **na₂:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** _____

Return to Contents

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-06-0341

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

Comments:

- ☐ **Sample(s) NOT RECEIVED but listed on COC**
- ☐ **Sample(s) received but NOT LISTED on COC**
- ☐ **Holding time expired** – list sample ID(s) and test
- ☐ **Insufficient quantities for analysis** – list test
- ☐ **Improper container(s) used** – list test
- ☐ **Improper preservative used** – list test
- ☐ **No preservative noted on COC or label** – list test & notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☐ **Sample label(s) do not match COC** – Note in comments
  - ☐ **Sample ID**
  - ☐ **Date and/or Time Collected**
  - ☐ **Project Information**
  - ☐ **# of Container(s)**
  - ☐ **Analysis**
- ☐ **Sample container(s) compromised** – Note in comments
  - ☐ **Water present in sample container**
  - ☐ **Broken**
- ☐ **Sample container(s) not labeled**
- ☐ **Air sample container(s) compromised** – Note in comments
  - ☐ **Flat**
  - ☐ **Very low in volume**
  - ☐ **Leaking (Not transferred - duplicate bag submitted)**
  - ☐ **Leaking (transferred into Calscience Tedlar® Bag*)**
  - ☐ **Leaking (transferred into Client's Tedlar® Bag*)**
- ☐ **Other:** _____

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis
4	C	3							

Comments: _____

*Transferred at Client's request.

Initial / Date: MR 06/06/12

Return to Contents

APPENDIX G

Calculated Environmental Screening Levels for Freon 11

Calculated Environmental Screening Level (ESL) for Shallow Soil Vapor Intrusion - Commercial/Industrial Air Scenario

Formula for converting ESL

$ESL_{soil\ vapor\ industrial} = (RSL_{soil\ vapor\ industrial} * Cf) \div AF_{industrial\ air}$

$ESL_{soil\ vapor\ industrial}$ =	Calculated Environmental Screening Level for shallow soil vapor in a industrial setting
$RSL_{soil\ vapor\ industrial}$ =	US EPA Region IX Regional Screening Level (RSL) for industrial Air
$AF_{soil\ vapor\ industrial}$ =	DTSC-Cal/EPA Attenuating Factor for Future commercial Air
Cf =	Conversion factor

source: SFRWQCB, November 2007 (Revised May 2008).

Chemical	Freon 11	
$RSL_{industrial\ air}$ =	3,100	Enter the US EPA Region IX RSL for Freon 11 for industrial Air (ug/m3)
Cf =	0.001	Conversion factor (1 liter = 0.001 cubic meters)
$AF_{industrial\ air}$ =	0.0005	Enter the DTSC-Cal/EPA attenuating factor for Future Commercial Air as a dimensionless unit

$ESL_{soil\ vapor\ industrial} = (RSL_{soil\ vapor\ industrial} * Cf) \div AF_{industrial\ air}$

$= (3{,}100 * 0.001) \div 0.0005$

$ESL_{soil\ vapor\ industrial}$ =	6,200	micrograms per liter

Sources:

1. US EPA Region IX Regional Screening Level (RSL) Summary Table dated April 2012.
2. Final Guidance For The Evaluation And Mitigation Of Subsurface Vapor Intrusion To Indoor Air (Vapor Intrusion Guidance). Department of Toxic Substances Control, California Environmental Protection Agency. October 2011.
3. Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater. California Regional Water Quality Control Board San Francisco Bay Region. November 2007 (revised May 2008).

Notes:

ug/m^3 - micrograms per cubic meter; Freon 11 - trichlorofluoromethane; Cal/EPA - California Environmental Protection Agency; DTSC - Department of Toxic Substances Control; SFRWQCB - California Regional Water Quality Control Board San Francisco Bay Region; US EPA - United States Environmental Protection Agency

Calculated Environmental Screening Level (ESL) for Shallow Soil Vapor Intrusion - Residential Air Scenario

Formula for converting ESL

$ESL_{soil\ vapor\ residential} = (RSL_{soil\ vapor\ residential} * Cf) \div AF_{residential\ air}$

$ESL_{soil\ vapor\ residential}$ = Calculated Environmental Screening Level for shallow soil vapor in a residential setting

$RSL_{soil\ vapor\ residential}$ = US EPA Region IX Regional Screening Level (RSL) for Residential Air

$AF_{soil\ vapor\ residential}$ = DTSC-Cal/EPA Attenuating Factor for Future Residential Air

Cf = Conversion factor

source: SFRWQCB, November 2007 (Revised May 2008).

Chemical	Freon 11	
$RSL_{residential\ air}$ =	730	Enter the US EPA Region IX RSL for Freon 11 for Residential Air (ug/m^3)
Cf =	0.001	Conversion factor (1 liter = 0.001 cubic meters)
$AF_{residential\ air}$ =	0.001	Enter the DTSC-Cal/EPA attenuating factor for Future Residential Air as a dimensionless unit

$ESL_{soil\ vapor\ residential} = (RSL_{soil\ vapor\ residential} * Cf) \div AF_{residential\ air}$

$= (730 * 0.001) \div 0.001$

$ESL_{soil\ vapor\ residential}$ =	730	micrograms per liter

Sources:

1. US EPA Region IX Regional Screening Level (RSL) Summary Table dated April 2012.
2. Final Guidance For The Evaluation And Mitigation Of Subsurface Vapor Intrusion To Indoor Air (Vapor Intrusion Guidance). Department of Toxic Substances Control, California Environmental Protection Agency. October 2011.
3. Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater. California Regional Water Quality Control Board San Francisco Bay Region. November 2007 (revised May 2008).

Notes:

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Calculated Screening Level for Deep Soil Gas Using Henry's Law Conversion

Groundwater to Soil Gas

Henry's Law Conversion

$C_{soil\ gas} = C_{groundwater} * H_c * Cf$

$C_{soil\ gas}$	concentration in soil gas
$C_{groundwater}$	concentration in groundwater
H_c	Henry's Law Constant
Cf	Conversion factor

source: Vapor Intrusion Guidance Document, DTSC - Cal/EPA, October 2011.

For	Freon 11	
H_c=	4.58	Enter the unitless Henry's Law Constant for your organic compound (as dimensionless value)
$C_{groundwater}$=	150	Enter the concentration of your organic compound as micrograms per liter (Freon 11 MCL of 150 ug/L used)
Cf=	1,000	Conversion factor (1 cubic meter = 1,000 Liters)

$C_{soil\ gas} = C_{groundwater} * H_c * Cf$

$= 150 * 4.58 * 1{,}000$

$C_{soil\ gas}$= 687,000 micrograms per cubic meter or 687 micrograms per liter

Sources:

1. Final Guidance For The Evaluation And Mitigation Of Subsurface Vapor Intrusion To Indoor Air (Vapor Intrusion Guidance). Department of Toxic Substances Control, California Environmental Protection Agency. October 2011.

2. Henry's Law Constant of 0.11 atm-m^3/mol at 20 degrees C is from Pesticide and Environmental Toxicology Section, Office of Environmental Health Hazard Assessment, Cal/EPA. Public Health Goal for Trichlorofluoromethane (FC-11) in Drinking Water. December 1997.

3. Henry's Law Constant is converted to dimensionless using USEPA's On-line Tools for Site Assessment Calculation (http://www.epa.gov/athens/learn2model/part-two/onsite/henryslaw.html)

4. Concentration of Freon 11 in groundwater is the California maximum contaminant level of 150 ug/L, per California Department of Public Health MCLs, DLRs, and PHGs for Regulated Drinking Water Contaminants table dated July 27, 2011.

Notes:

DTSC = Department of Toxic Substance Control; Cal/EPA = California Environmental Protection Agency; Freon 11 = trichlorofluoromethane; atm-m^3/mol = atmosphere-cubic meter per mole; C = Celsius; ug/L = micrograms per liter.

http://www.epa.gov/athens/learn2model/part-two/onsite/henryslaw.html

EPA On-line Tools for Site Assessment Calculation

Henry's law coefficients can be expressed in at least four sets of units. Two of these are nominally dimensionless, but because they represent either ratios of concentrations or ratios of mass fractions their values differ greatly.

Henry's Law Conversions

Input Henry's Law Constant 0.11 Hpc

Temperature 20.0 °C

Output 4.58 Hcc

Units for Henry's Law Constant Conversions

H_{cc} = Concentration/Concentration (dimensionless)
H_{yx} = Mole Fraction Y / Mole Fraction X (dimensionless)
H_{px} = Partial Pressure / Mole Fraction X (atmospheres)
H_{pc} = Parial Pressure / Concentration (atm m^3/mol)

Home | Glossary | Notation | Links | References | Calculators

WCMS
Last updated on Thursday, January 05, 2012

Department of Toxic Substances Control

Matthew Rodriquez
Secretary for
Environmental Protection

Barbara A. Lee, Director
9211 Oakdale Avenue
Chatsworth, California 91311

Edmund G. Brown Jr.
Governor

December 15, 2017

Mr. Daniel S. Samorano
Raytheon Company
1151 East Hermans Road
TU, Bldg 826
Tucson, AZ 85706

RAYTHEON CANOGA PARK SITE – 8433 FALLBROOK AVENUE, CANOGA PARK, CA 91304

Dear Mr. Samorano:

The Department of Toxic Substances Control (DTSC) received a notification from the Los Angeles Regional Water Quality Control Board (LARWQCB) regarding its determination to provide groundwater closure for the Southern Parcels at the Raytheon Site (Site) based on the information provided in the *Confirmation Sampling Report for No Further Action Status in the Southern Parcels* (Report) dated July 31, 2012. Please be aware that DTSC is the designated lead regulatory agency to oversee the corrective action at this facility.

Because DTSC does not have an agreement with Raytheon, DTSC cannot conduct a thorough review of the Report or determine whether requirements are met to provide closure for the southern parcels. Based on a limited review, DTSC has provided comments below.

Additionally, as previously stated in discussions with Raytheon, the Areas of Concern (AOCs) identified in the RCRA facility Assessment Report dated January 30, 2008 requires investigation. Please contact DTSC Project Manager, Jessy Fierro, to discuss entering into a Corrective Action Consent Agreement.

If you have any questions, please contact Jessy Fierro at (818) 717-6563 or me at (818) 717-6539.

Sincerely,

Juli Propes
Acting Branch Chief
Brownfields and Environmental Restoration Program – Chatsworth Office

DTSC COMMENTS

Document: *Confirmation Sampling Report for No Further Action Status in the Southern Parcels* (Report) dated July 31, 2012

1. Section 2.1 discusses previous characterization. Soil sampling was apparently conducted in August 1993 at borings B-RNDM-3, B-SL-8, and B-SL-10. The DTSC Geologic Service Branch (GSB) recommends that a map showing the location of these borings be attached to the confirmation sampling report. Additionally, it appears that no soil samples have been collected from within the area identified as the expected source of the Freon 11 contamination. Also, no soil impacted with Freon 11 was removed from the expected source area. However, the confirmation soil vapor samples collected in 2011 indicate that Freon 11 in soil vapor had decreased in the expected source area since soil gas samples first collected in 1995.

2. The last apparent groundwater sampling from existing wells in this area was in 2012. Monitoring well MW-31, located within the Freon 11 source has had reported concentrations less than the Freon-11 MCL since approximately 2000. As shown on Graph 1 data since approximately 2006 has shown a slightly increasing trend of Freon-11 with the last sample from April 30, 2012 to be 120 ug/L (see Table 2). Current groundwater concentrations are unknown since there is no reported data for the last 5 years. The GSB recommends that the existing groundwater monitoring wells in the area be resampled for VOCs prior to the LA RWQCB granting an NFA and allowing abandonment of the wells.

3. Table 1 - DTSC does not recommend using the Environmental Screening Levels (ESLs) established by Regional Water Quality Control Board, San Francisco Region (SFRWQCB),as these values are not representative of Southern California conditions. Soil gas screening levels (SLs) should be developed using DTSC Human Health Risk Assessment (HHRA) Note 3. If SLs are not available in HHRA Note 3, then DTSC recommends using USEPA Regional Screening Levels (RSLs). PCE showed slight exceedances for future residential scenario but no exceedance for future industrial use.

Please contact the following DTSC staff for questions regarding these comments:

Wendy Arano, PG – DTSC Geologist: Wendy.Arano@dtsc.ca.gov
Donald Greenlee, PhD – DTSC Toxicologist: Donald.Greenlee@dtsc.ca.gov
Jessy Fierro – Project Manager: Jessy.Fierro@dtsc.ca.gov

OTIE
An Oneida Nation Company

317 E. Main Street
Ventura, CA 93001
Tel: (805) 585-2110
Fax: (805) 585-2111

TECHNICAL MEMORANDUM

Date: February 8, 2018

Prepared For: Ms. Emily Wong
Regional Water Quality Control Board, Los Angeles
320 W. 4th Street, Suite 200
Los Angeles, CA 90013

Prepared By: Kim Sawyer, P.G.

PROFESSIONAL GEOLOGIST
KIMBERLY J. SAWYER
No. 7153
EXP. 5/31/18
STATE OF CALIFORNIA

Re: **Additional Groundwater Sampling for Southern Parcel Closure**
Former Raytheon Site
8433 Fallbrook Ave, Canoga Park, California
LARWQCB SCP File No. 0693
M&RP No. CI-8947; Site ID WDR 100000974

INTRODUCTION

On behalf of the Raytheon Company (Raytheon), Oneida Total Integrated Enterprises, LLC (OTIE) has prepared this memorandum documenting the collection and analysis of groundwater samples from the former Raytheon Canoga Park site located at 8433 Fallbrook Ave in Canoga Park California ("the Site"). The Site is located on the northwest corner of the intersection of Fallbrook Avenue and Roscoe Boulevard, as shown on Figure 1.

GROUNDWATER MONITORING

This groundwater monitoring event was conducted in response to Comment #2 of the DTSC letter dated December 15, 2017 (Attachment A). LARWQCB directed Raytheon to collect samples from monitoring wells CM-10 and MW-31 (Figure 2) to confirm that concentrations of trichlorofluoromethane (Freon-11) remain below the California maximum contaminant level (MCL) of 150 micrograms per liter (ug/L).

The wells were monitored on January 22, 2018, by OTIE personnel. Wells MW-31 and CM-10 were gauged using an electric depth to water meter that was cleaned between wells. While depth to water was 52.69 feet below top of casing (ft btoc) in well MW-31, well CM-10 did not contain groundwater to its total depth of 52.7 ft btoc, and therefore, could not be sampled. Water level data for the two wells since 2006 are presented in Table 1.

Well MW-31 was purged using the low flow method with a submersible "mini-monsoon" pump. As the well had been unused for over five years, extra groundwater volumes were removed to ensure a representative sample was collected. Approximately 10 gallons of water from was purged and then placed into a 55-gallon United States Department of Transportation-approved steel drum that was properly labeled and temporarily stored on site pending offsite disposal.

Immediately following collection, the sample was placed on ice, maintained at 4°C ± 2°C and transported under appropriate chain-of-custody protocol to California State-certified analytical laboratory, Eurofins

Calscience Environmental Laboratories, Inc. (Calscience), located in Garden Grove, California. A trip blank sample was also submitted for Quality assurance/quality control

All groundwater samples were transported to Calscience via courier to be analyzed for VOCs by EPA Method 8260B, following chain-of-custody protocol. Well purge records are provided in Attachment B.

GROUNDWATER RESULTS

Analysis of the sample from well MW-31 yielded a detection of Freon-11 at 64 ug/L, which is below the MCL of 150 ug/L. No other VOCs were detected in the sample. No VOCs were detected in the trip blank sample.

Table 2 summarizes the results of the 2012 and 2018 samples collected from wells CM-10 and MW-31. The laboratory report for the current sample is provided in Attachment C.

FIGURES

Figure 1 – Site Location Map

Figure 2 – Site Plan with Sampled Well Locations

TABLES

Table 1 – Summary of Water Level Data Since 2006

Table 2 – Groundwater Analytical Results for Southern Parcel Closure

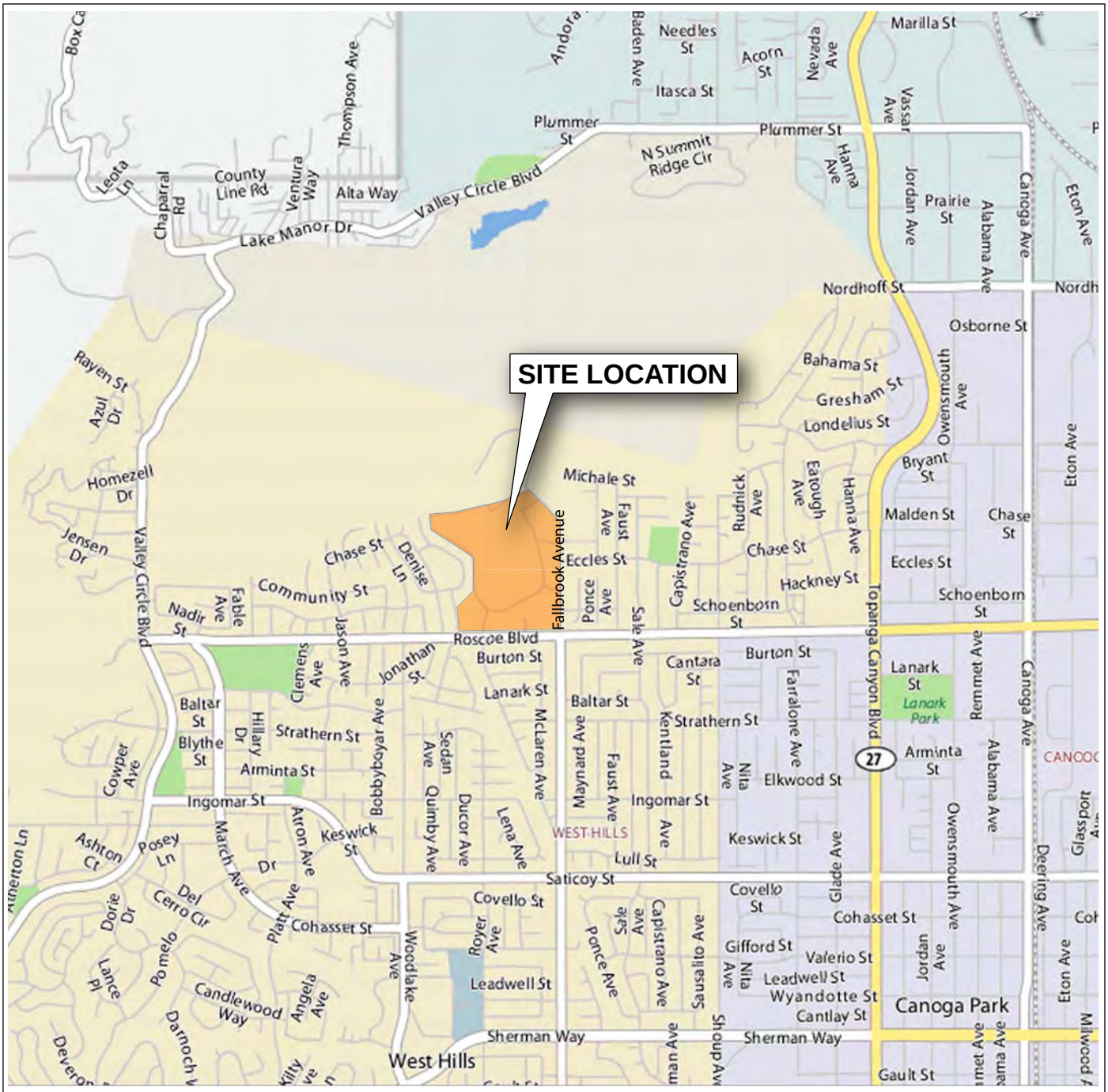
ATTACHMENTS

Attachment A – Regulatory Correspondence

Attachment B – Purge Sheets

Attachment C – Laboratory Report

Figures



Source: Map data from Yahoo, Inc./NAVTEO 2009



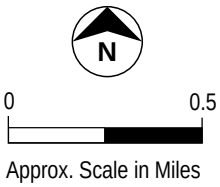


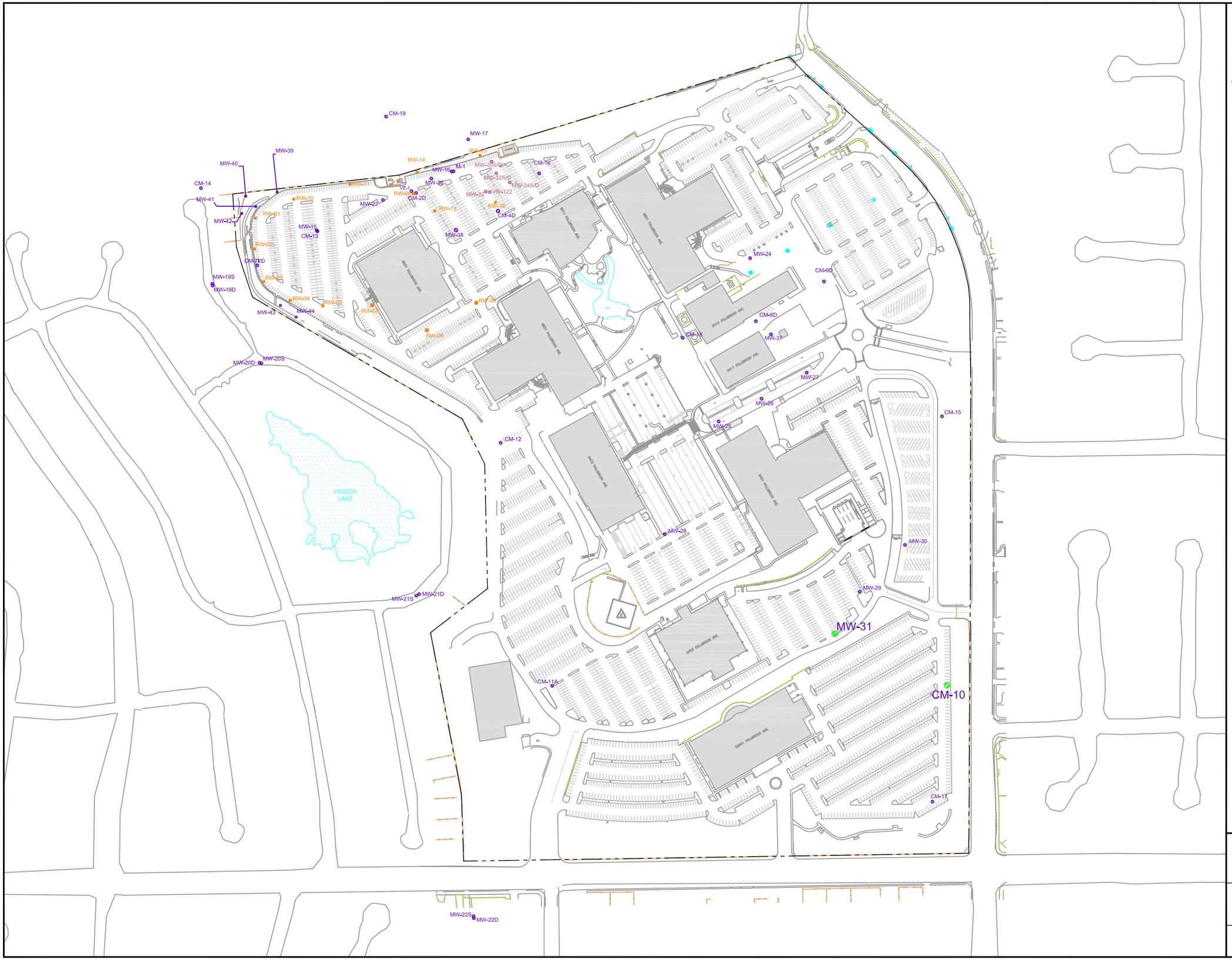
FIGURE 1

Site Vicinity Map

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

OTIE
An Oneida Nation Company

Site vicinity map_v6 8-10tll



Legend

- Property Line
- MW-# / CM-# — Groundwater Monitoring Well
- RW-# — Groundwater Recovery Well
- MW-# — Former Hazardous Waste Storage Area Monitoring Well
- Groundwater Monitoring Well

Approximate Scale in Feet

0 125 250 375

Figure 2
Site Plan with Sampled Wells

Former Raytheon Facility
8433 Fallbrook Avenue
Canoga Park, California

OTIE
An Oneida Nation Company

Date: January 30, 2018
File: RayCan.dwg

Tables

Table 1
Summary of Water Level Data Since 2006
Former Canoga Park Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Gauging Date	Depth to Water (ft, TOC)	Screened Interval (ft, TOC)	Top of Casing Elevation (ft, MSL)	Groundwater Elevation (ft, MSL)
CM-10	03/14/06	39.39	32-52	850.78	811.39
CM-10	07/12/06	39.09	32-52	850.78	811.69
CM-10	11/04/06	40.04	32-52	850.78	810.74
CM-10	11/03/07	41.65	32-52	850.78	809.13
CM-10	06/29/08	40.36	32-52	850.78	810.42
CM-10	11/14/08	41.80	32-52	850.78	808.98
CM-10	05/26/09	42.65	32-52	850.78	808.13
CM-10	12/16/10	44.59	32-52	850.78	806.19
CM-10	06/07/11	42.83	32-52	850.78	807.95
CM-10	12/01/11	44.26	32-52	850.78	806.52
CM-10	04/30/12	44.78	32-52	850.78	806.00
CM-10	12/12/12	46.43	32-52	850.78	804.35
CM-10	12/12/13	47.80	32-52	850.78	802.98
CM-10	01/22/18	52.7*	32-52	850.78	DRY
MW-31	03/14/06	46.89	45-70	864.70	817.81
MW-31	07/12/06	47.41	45-70	864.70	817.29
MW-31	11/04/06	46.65	45-70	864.70	818.05
MW-31	11/03/07	47.68	45-70	864.70	817.02
MW-31	11/14/08	46.94	45-70	864.70	817.76
MW-31	12/01/11	47.18	45-70	864.70	817.52
MW-31	04/30/12	49.42	45-70	864.70	815.28
MW-31	01/02/18	52.69	45-70	864.70	812.01

Notes:
1) ft = feet
2) TOC = top of well casing
3) MSL = Mean Sea Level, National Geodetic Vertical Datum of 1929 (NGVD29)
4) * = measured depth is to well bottom

Table 2
Groundwater Analytical Results for Southern Parcel Closure
Former Canoga Park Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Sampling Date	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	*cis* - 1,2-DCE	PCE	1,1,2-TCA	TCE	Freon-11	VC
	MCLs	**1**	**5**	**0.5**	**6**	**6**	**5**	**5**	**5**	**150**	**1**
CM-10	04/30/12	<0.5	<1	<0.5	<1	<1	<1	<1	<1	**35**	<0.5
	01/22/18	Well was Dry									
MW-31	04/30/12	<0.5	<1	<0.5	<1	<1	<1	<1	<1	**120**	<0.5
	01/22/18	<0.5	<1	<0.5	<1	<1	<1	<1	<1	**64**	<0.5
Trip Blank	01/22/18	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<10	<0.5

Notes:

1) All concentrations in micrograms per liter (μg/L).

2) Only detectable concentrations of chemicals of concern are shown; detections above reporting limit are **bolded**.

3) 1,1-DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; 1,1-DCE = 1,1-Dichloroethene; *cis* -1,2-DCE = *cis* -1,2-Dichloroethene; PCE =Tetrachloroethene; TCE = Trichloroethene; Freon-11 = Trichlorofluoromethane; VC = Vinyl Chloride.

4) MCL= Maximum Contaminant Level

Attachment A

Regulatory Correspondence

Department of Toxic Substances Control

Matthew Rodriquez
Secretary for
Environmental Protection

Barbara A. Lee, Director
9211 Oakdale Avenue
Chatsworth, California 91311

Edmund G. Brown Jr.
Governor

December 15, 2017

Mr. Daniel S. Samorano
Raytheon Company
1151 East Hermans Road
TU, Bldg 826
Tucson, AZ 85706

RAYTHEON CANOGA PARK SITE – 8433 FALLBROOK AVENUE, CANOGA PARK, CA 91304

Dear Mr. Samorano:

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If you have any questions, please contact Jessy Fierro at (818) 717-6563 or me at (818) 717-6539.

Sincerely,

Juli Propes
Acting Branch Chief
Brownfields and Environmental Restoration Program – Chatsworth Office

DTSC COMMENTS

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1. Section 2.1 discusses previous characterization. Soil sampling was apparently conducted in August 1993 at borings B-RNDM-3, B-SL-8, and B-SL-10. The DTSC Geologic Service Branch (GSB) recommends that a map showing the location of these borings be attached to the confirmation sampling report. Additionally, it appears that no soil samples have been collected from within the area identified as the expected source of the Freon 11 contamination. Also, no soil impacted with Freon 11 was removed from the expected source area. However, the confirmation soil vapor samples collected in 2011 indicate that Freon 11 in soil vapor had decreased in the expected source area since soil gas samples first collected in 1995.

2. The last apparent groundwater sampling from existing wells in this area was in 2012. Monitoring well MW-31, located within the Freon 11 source has had reported concentrations less than the Freon-11 MCL since approximately 2000. As shown on Graph 1 data since approximately 2006 has shown a slightly increasing trend of Freon-11 with the last sample from April 30, 2012 to be 120 ug/L (see Table 2). Current groundwater concentrations are unknown since there is no reported data for the last 5 years. The GSB recommends that the existing groundwater monitoring wells in the area be resampled for VOCs prior to the LA RWQCB granting an NFA and allowing abandonment of the wells.

3. Table 1 - DTSC does not recommend using the Environmental Screening Levels (ESLs) established by Regional Water Quality Control Board, San Francisco Region (SFRWQCB),as these values are not representative of Southern California conditions. Soil gas screening levels (SLs) should be developed using DTSC Human Health Risk Assessment (HHRA) Note 3. If SLs are not available in HHRA Note 3, then DTSC recommends using USEPA Regional Screening Levels (RSLs). PCE showed slight exceedances for future residential scenario but no exceedance for future industrial use.

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Wendy Arano, PG – DTSC Geologist: Wendy.Arano@dtsc.ca.gov
Donald Greenlee, PhD – DTSC Toxicologist: Donald.Greenlee@dtsc.ca.gov
Jessy Fierro – Project Manager: Jessy.Fierro@dtsc.ca.gov

Attachment B

Purge Sheets

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad
Well Identification	☐	☐
Vault Cover	☐	☐
Vault Seal	☐	☐
Bolts	☐	☐
Vault Lock	☐	☐
Concrete Completion	☐	☐
Well Lock/Seal	☐	☐

Well Number: CM-10 Date: 1-22-18 Project No: 2009.025 / 1504

A. Depth to water: DRY feet Location: Raytheon Canoga

B. Total depth of well: 52.7 feet Event: S. Parcel wells

C. Standing water in casing: Ø feet Sampler(s): D. ALLEN

D. PID: _____ ppm

Screened Interval: _____ to _____ ft bgs

Inlet Timer: _____ sec Discharge Timer: _____ sec Pressure: _____ psi

milliliters total purged volume (mL)	DTW (ft below casing)	Time	pH	Conductivity (mS/cm, S/m, or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
0			--	--	--	--	--	--	--	--
								--	--	
								--	--	
								--	--	
								--	--	
								--	--	
								--	--	
								--	--	
								--	--	
Stabilization Readings								--	--	

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☒ Monsoon ☐ Other: _____ Pump inlet depth: _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☒ Monsoon ☐ Other: _____ Sample depth: _____ ft

Water Meter Used:
- U-22-TN-01 ☐
- U-22-TN-02 ☐
- U-10 ☐
- YSI ☐
- Troll ☐
- Other: _____

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____ Sample ID: _____

Date/Time of QC Sample: _____ Date/Time of Sample: _____

Additional Comments:

- WELL IS DRY -

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad
Well Identification	☐	☐
Vault Cover	☐	☐
Vault Seal	☐	☐
Bolts	☐	☐
Vault Lock	☐	☐
Concrete Completion	☐	☐
Well Lock/Seal	☐	☐

Well Number: MW-31 Date: 1-22-18 Project No: 2009.025 / 1504

A. Depth to water 52.69 feet Location: Raytheon Canoga

B. Total depth of well 67.90 feet Event: S. Parcel wells

C. Standing water in casing 14.71 feet Sampler(s): DVA

D. PID — ppm

Screened Interval: _____ to _____ ft bgs

Inlet Timer: — sec Discharge Timer: — sec Pressure: — psi

milliliters total purged volume (mL)	DTW (ft below casing)	Time	pH	Conductivity (mS/cm S/m, or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	~~Salinity~~ (%)	~~TDS~~ (mg/L or g/L)	ORP (+/- mV)
BEGIN PURGE	52.64	1015	--	--	--	--	--	--	--	--
		1020	6.80	2.94	160	0.00	21.90	--	--	-59
	54.16	1025	6.81	3.04	120	0.00	22.32	--	--	-98
		1030	6.76	3.08	204	0.00	22.86	--	--	-81
		1035	6.73	3.09	72.2	0.00	23.04	--	--	-42
	53.19	1040	6.70	3.11	54.8	0.00	23.81	--	--	-38
		1045	6.74	3.12	16.8	0.00	23.80	--	--	-27
	53.42	1055	6.74	3.12	7.8	0.00	23.90	--	--	-21
10 GAL PURGED	SAMPLES TAKEN	1120						--	--	
Stabilization Readings								--	--	

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☒ Monsoon ☐ Other:_____ Pump inlet depth: ±62 ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☒ Monsoon ☐ Other:_____ Sample depth 11 ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☒ No QA/QC Sample

QA/QC Sample ID: _____ Sample ID: MW-31-180122

Date/Time of QC Sample: _____ / _____ Date/Time of Sample: 1-22-18 / 1120

Additional Comments:

Water Meter Used:
- U-22-TN-01 ✓
- U-22-TN-02 ☐
- U-10 ☐
- YSI ☐
- Troll ☐
- Other:_____

Attachment C

Laboratory Report

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WORK ORDER NUMBER: 18-01-1531

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For
Client: OTIE
Client Project Name: CANOGA PARK
Attention: Kim Sawyer
317 East Main Street
Ventura, CA 93001-2624

Approved for release on 01/24/2018 by:
Virendra Patel
Project Manager

ResultLink ▸

Email your PM ▸

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Contents

Client Project Name: CANOGA PARK
Work Order Number: 18-01-1531

1 Work Order Narrative. 3

2 Sample Summary. 4

3 QC Association Summary. 5

4 Detections Summary. 6

5 Client Sample Data. 7
5.1 EPA 8260B Volatile Organics (Aqueous). 7

6 Quality Control Sample Data. 13
6.1 MS/MSD. 13
6.2 LCS/LCSD. 15

7 Sample Analysis Summary. 17

8 Glossary of Terms and Qualifiers. 18

9 Chain-of-Custody/Sample Receipt Form. 19

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Work Order Narrative

Work Order: 18-01-1531 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 01/22/18. They were assigned to Work Order 18-01-1531.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Return to Contents

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Sample Summary

Client:	OTIE	Work Order:	18-01-1531
	317 East Main Street	Project Name:	CANOGA PARK
	Ventura, CA 93001-2624	PO Number:	2009.025-1504
		Date/Time Received:	01/22/18 18:10
		Number of Containers:	7
Attn:	Kim Sawyer		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
MW-31-180122	18-01-1531-1	01/22/18 11:20	5	Aqueous
TB-180122	18-01-1531-2	01/22/18 11:45	2	Aqueous

Return to Contents

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QC Association Summary

Work Order: 18-01-1531 Page 1 of 1

Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
MW-31-180122	EPA 8260B Volatile Organics		EPA 5030C	GC/MS Z	180122S017	180122L028
TB-180122	EPA 8260B Volatile Organics		EPA 5030C	GC/MS Z	180122S017	180122L028

Return to Contents

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Detections Summary

Client:	OTIE	Work Order:	18-01-1531
	317 East Main Street	Project Name:	CANOGA PARK
	Ventura, CA 93001-2624	Received:	01/22/18
Attn:	Kim Sawyer		Page 1 of 1

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
MW-31-180122 (18-01-1531-1)						
Trichlorofluoromethane	64		10	ug/L	EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

Return to Contents

* MDL is shown

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Analytical Report

OTIE
317 East Main Street
Ventura, CA 93001-2624

Project: CANOGA PARK

Date Received: 01/22/18
Work Order: 18-01-1531
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-31-180122	**18-01-1531-1-A**	**01/22/18 11:20**	**Aqueous**	**GC/MS Z**	**01/22/18**	**01/22/18 23:55**	**180122L028**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	20	1.00	
Benzene	ND	0.50	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	1.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	1.0	1.00	
Bromomethane	ND	10	1.00	
2-Butanone	ND	10	1.00	
n-Butylbenzene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
tert-Butylbenzene	ND	1.0	1.00	
Carbon Disulfide	ND	10	1.00	
Carbon Tetrachloride	ND	0.50	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	10	1.00	
2-Chlorotoluene	ND	1.0	1.00	
4-Chlorotoluene	ND	1.0	1.00	
Dibromochloromethane	ND	1.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
Dibromomethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
Dichlorodifluoromethane	ND	1.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
2,2-Dichloropropane	ND	1.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Return to Contents

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Analytical Report

OTIE	Date Received:	01/22/18
317 East Main Street	Work Order:	18-01-1531
Ventura, CA 93001-2624	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: CANOGA PARK		Page 2 of 6

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.0	1.00	
c-1,3-Dichloropropene	ND	0.50	1.00	
t-1,3-Dichloropropene	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
2-Hexanone	ND	10	1.00	
Isopropylbenzene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
4-Methyl-2-Pentanone	ND	10	1.00	
Naphthalene	ND	10	1.00	
n-Propylbenzene	ND	1.0	1.00	
Styrene	ND	1.0	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
1,2,3-Trichlorobenzene	ND	1.0	1.00	
1,2,4-Trichlorobenzene	ND	1.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
Trichloroethene	ND	1.0	1.00	
Trichlorofluoromethane	64	10	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	1.0	1.00	
1,3,5-Trimethylbenzene	ND	1.0	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	0.50	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	77-120	
Dibromofluoromethane	103	80-128	
1,2-Dichloroethane-d4	106	80-129	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Return to Contents

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Analytical Report

OTIE
317 East Main Street
Ventura, CA 93001-2624

Project: CANOGA PARK

Date Received: 01/22/18
Work Order: 18-01-1531
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-180122	**18-01-1531-2-A**	**01/22/18 11:45**	**Aqueous**	**GC/MS Z**	**01/22/18**	**01/22/18 23:20**	**180122L028**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	20	1.00	
Benzene	ND	0.50	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	1.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	1.0	1.00	
Bromomethane	ND	10	1.00	
2-Butanone	ND	10	1.00	
n-Butylbenzene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
tert-Butylbenzene	ND	1.0	1.00	
Carbon Disulfide	ND	10	1.00	
Carbon Tetrachloride	ND	0.50	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	10	1.00	
2-Chlorotoluene	ND	1.0	1.00	
4-Chlorotoluene	ND	1.0	1.00	
Dibromochloromethane	ND	1.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
Dibromomethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
Dichlorodifluoromethane	ND	1.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
2,2-Dichloropropane	ND	1.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Return to Contents

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Analytical Report

OTIE	Date Received:	01/22/18
317 East Main Street	Work Order:	18-01-1531
Ventura, CA 93001-2624	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: CANOGA PARK		Page 4 of 6

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.0	1.00	
c-1,3-Dichloropropene	ND	0.50	1.00	
t-1,3-Dichloropropene	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
2-Hexanone	ND	10	1.00	
Isopropylbenzene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
4-Methyl-2-Pentanone	ND	10	1.00	
Naphthalene	ND	10	1.00	
n-Propylbenzene	ND	1.0	1.00	
Styrene	ND	1.0	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
1,2,3-Trichlorobenzene	ND	1.0	1.00	
1,2,4-Trichlorobenzene	ND	1.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
Trichloroethene	ND	1.0	1.00	
Trichlorofluoromethane	ND	10	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	1.0	1.00	
1,3,5-Trimethylbenzene	ND	1.0	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	0.50	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	77-120	
Dibromofluoromethane	100	80-128	
1,2-Dichloroethane-d4	102	80-129	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Return to Contents

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Analytical Report

OTIE
317 East Main Street
Ventura, CA 93001-2624

Project: CANOGA PARK

Date Received: 01/22/18
Work Order: 18-01-1531
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-25034**	**N/A**	**Aqueous**	**GC/MS Z**	**01/22/18**	**01/22/18 17:51**	**180122L028**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	20	1.00	
Benzene	ND	0.50	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	1.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	1.0	1.00	
Bromomethane	ND	10	1.00	
2-Butanone	ND	10	1.00	
n-Butylbenzene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
tert-Butylbenzene	ND	1.0	1.00	
Carbon Disulfide	ND	10	1.00	
Carbon Tetrachloride	ND	0.50	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	10	1.00	
2-Chlorotoluene	ND	1.0	1.00	
4-Chlorotoluene	ND	1.0	1.00	
Dibromochloromethane	ND	1.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
Dibromomethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
Dichlorodifluoromethane	ND	1.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
2,2-Dichloropropane	ND	1.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Return to Contents

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Analytical Report

OTIE	Date Received:	01/22/18
317 East Main Street	Work Order:	18-01-1531
Ventura, CA 93001-2624	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: CANOGA PARK		Page 6 of 6

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.0	1.00	
c-1,3-Dichloropropene	ND	0.50	1.00	
t-1,3-Dichloropropene	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
2-Hexanone	ND	10	1.00	
Isopropylbenzene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
4-Methyl-2-Pentanone	ND	10	1.00	
Naphthalene	ND	10	1.00	
n-Propylbenzene	ND	1.0	1.00	
Styrene	ND	1.0	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
1,2,3-Trichlorobenzene	ND	1.0	1.00	
1,2,4-Trichlorobenzene	ND	1.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
Trichloroethene	ND	1.0	1.00	
Trichlorofluoromethane	ND	10	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	1.0	1.00	
1,3,5-Trimethylbenzene	ND	1.0	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	0.50	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	77-120	
Dibromofluoromethane	101	80-128	
1,2-Dichloroethane-d4	104	80-129	
Toluene-d8	97	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Return to Contents

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Quality Control - Spike/Spike Duplicate

OTIE		Date Received:	01/22/18
317 East Main Street		Work Order:	18-01-1531
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: CANOGA PARK			Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-01-1506-1	**Sample**	**Aqueous**	**GC/MS Z**	**01/22/18**	**01/22/18 19:55**	**180122S017**
18-01-1506-1	**Matrix Spike**	**Aqueous**	**GC/MS Z**	**01/22/18**	**01/22/18 21:03**	**180122S017**
18-01-1506-1	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS Z**	**01/22/18**	**01/22/18 21:38**	**180122S017**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acetone	ND	50.00	44.45	89	42.20	84	34-166	5	0-33	
Benzene	ND	50.00	48.62	97	48.54	97	75-125	0	0-20	
Bromobenzene	ND	50.00	49.47	99	48.58	97	75-125	2	0-20	
Bromochloromethane	ND	50.00	49.42	99	47.19	94	75-125	5	0-20	
Bromodichloromethane	ND	50.00	50.39	101	50.13	100	75-134	1	0-20	
Bromoform	ND	50.00	49.41	99	48.59	97	74-134	2	0-20	
Bromomethane	ND	50.00	47.70	95	47.25	95	20-168	1	0-40	
2-Butanone	ND	50.00	45.34	91	44.81	90	37-157	1	0-20	
n-Butylbenzene	ND	50.00	49.17	98	48.26	97	73-145	2	0-20	
sec-Butylbenzene	ND	50.00	47.97	96	47.39	95	75-135	1	0-20	
tert-Butylbenzene	ND	50.00	49.77	100	48.01	96	75-136	4	0-20	
Carbon Disulfide	ND	50.00	46.52	93	45.56	91	50-152	2	0-27	
Carbon Tetrachloride	ND	50.00	56.88	114	53.22	106	70-154	7	0-20	
Chlorobenzene	ND	50.00	48.51	97	47.01	94	75-125	3	0-20	
Chloroethane	ND	50.00	50.62	101	51.31	103	41-167	1	0-26	
Chloroform	ND	50.00	51.21	102	50.13	100	75-127	2	0-20	
Chloromethane	ND	50.00	41.49	83	44.17	88	41-149	6	0-20	
2-Chlorotoluene	ND	50.00	48.84	98	48.13	96	75-128	1	0-20	
4-Chlorotoluene	ND	50.00	47.69	95	46.14	92	75-125	3	0-20	
Dibromochloromethane	ND	50.00	51.88	104	50.57	101	75-131	3	0-20	
1,2-Dibromo-3-Chloropropane	ND	50.00	46.94	94	46.28	93	64-142	1	0-20	
1,2-Dibromoethane	ND	50.00	50.12	100	49.76	100	75-129	1	0-20	
Dibromomethane	ND	50.00	49.76	100	48.36	97	75-125	3	0-20	
1,2-Dichlorobenzene	ND	50.00	48.74	97	47.25	94	75-125	3	0-20	
1,3-Dichlorobenzene	ND	50.00	47.53	95	46.38	93	75-125	2	0-20	
1,4-Dichlorobenzene	ND	50.00	46.91	94	44.83	90	75-125	5	0-20	
Dichlorodifluoromethane	ND	50.00	46.95	94	45.23	90	25-157	4	0-26	
1,1-Dichloroethane	ND	50.00	50.42	101	49.08	98	73-139	3	0-20	
1,2-Dichloroethane	ND	50.00	50.80	102	50.63	101	75-125	0	0-20	
1,1-Dichloroethene	ND	50.00	53.01	106	51.12	102	61-145	4	0-20	
c-1,2-Dichloroethene	ND	50.00	49.99	100	48.78	98	75-125	2	0-20	
t-1,2-Dichloroethene	ND	50.00	50.45	101	49.33	99	64-142	2	0-20	
1,2-Dichloropropane	ND	50.00	49.54	99	49.21	98	75-127	1	0-20	
1,3-Dichloropropane	ND	50.00	49.57	99	48.01	96	75-125	3	0-20	
2,2-Dichloropropane	ND	50.00	65.52	131	61.10	122	24-180	7	0-20	

RPD: Relative Percent Difference. CL: Control Limits

Return to Contents

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Quality Control - Spike/Spike Duplicate

OTIE		Date Received:	01/22/18
317 East Main Street		Work Order:	18-01-1531
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: CANOGA PARK			Page 2 of 2

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,1-Dichloropropene	ND	50.00	51.32	103	49.34	99	75-135	4	0-20	
c-1,3-Dichloropropene	ND	50.00	49.15	98	48.42	97	75-137	1	0-20	
t-1,3-Dichloropropene	ND	50.00	48.70	97	46.82	94	74-146	4	0-20	
Ethylbenzene	ND	50.00	49.97	100	48.54	97	75-129	3	0-20	
2-Hexanone	ND	50.00	45.51	91	46.37	93	47-161	2	0-20	
Isopropylbenzene	ND	50.00	49.15	98	48.16	96	75-135	2	0-20	
p-Isopropyltoluene	ND	50.00	48.37	97	46.89	94	75-136	3	0-20	
Methylene Chloride	ND	50.00	48.97	98	47.57	95	63-141	3	0-20	
4-Methyl-2-Pentanone	ND	50.00	47.43	95	46.62	93	66-138	2	0-20	
Naphthalene	ND	50.00	46.20	92	46.38	93	59-143	0	0-20	
n-Propylbenzene	ND	50.00	50.05	100	49.18	98	75-133	2	0-20	
Styrene	ND	50.00	50.29	101	48.56	97	70-142	3	0-28	
1,1,1,2-Tetrachloroethane	ND	50.00	50.81	102	49.87	100	75-139	2	0-20	
1,1,2,2-Tetrachloroethane	ND	50.00	47.00	94	46.52	93	61-145	1	0-20	
Tetrachloroethene	ND	50.00	46.79	94	45.40	91	47-143	3	0-20	
Toluene	ND	50.00	49.47	99	49.12	98	75-125	1	0-20	
1,2,3-Trichlorobenzene	ND	50.00	46.96	94	46.33	93	73-133	1	0-20	
1,2,4-Trichlorobenzene	ND	50.00	47.68	95	47.09	94	71-137	1	0-20	
1,1,1-Trichloroethane	ND	50.00	52.29	105	50.96	102	75-136	3	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50.00	64.80	130	60.41	121	42-168	7	0-22	
1,1,2-Trichloroethane	ND	50.00	51.20	102	50.69	101	75-125	1	0-20	
Trichloroethene	ND	50.00	49.53	99	47.49	95	67-139	4	0-20	
Trichlorofluoromethane	ND	50.00	57.99	116	55.76	112	59-155	4	0-20	
1,2,3-Trichloropropane	ND	50.00	51.11	102	47.43	95	75-127	7	0-20	
1,2,4-Trimethylbenzene	ND	50.00	48.07	96	46.59	93	75-133	3	0-20	
1,3,5-Trimethylbenzene	ND	50.00	50.12	100	48.72	97	75-135	3	0-20	
Vinyl Acetate	ND	50.00	47.86	96	45.27	91	54-180	6	0-25	
Vinyl Chloride	ND	50.00	52.97	106	52.12	104	51-153	2	0-20	
p/m-Xylene	ND	100.0	99.40	99	96.74	97	75-133	3	0-20	
o-Xylene	ND	50.00	49.81	100	48.35	97	75-134	3	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	49.24	98	47.76	96	64-136	3	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

OTIE
317 East Main Street
Ventura, CA 93001-2624

Project: CANOGA PARK

Date Received: 01/22/18
Work Order: 18-01-1531
Preparation: EPA 5030C
Method: EPA 8260B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-25034	**LCS**	**Aqueous**	**GC/MS Z**	**01/22/18**	**01/22/18 15:29**	**180122L028**
099-14-001-25034	**LCSD**	**Aqueous**	**GC/MS Z**	**01/22/18**	**01/22/18 16:03**	**180122L028**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Acetone	50.00	34.22	68	41.13	82	53-137	39-151	18	0-21	
Benzene	50.00	45.42	91	46.25	93	79-121	72-128	2	0-20	
Bromobenzene	50.00	47.99	96	49.37	99	80-120	73-127	3	0-20	
Bromochloromethane	50.00	46.44	93	48.66	97	80-122	73-129	5	0-20	
Bromodichloromethane	50.00	47.42	95	49.37	99	80-124	73-131	4	0-20	
Bromoform	50.00	46.99	94	50.55	101	73-127	64-136	7	0-20	
Bromomethane	50.00	41.90	84	43.82	88	50-150	33-167	4	0-26	
2-Butanone	50.00	38.63	77	41.96	84	60-126	49-137	8	0-20	
n-Butylbenzene	50.00	49.61	99	46.56	93	72-138	61-149	6	0-20	
sec-Butylbenzene	50.00	46.87	94	45.44	91	77-131	68-140	3	0-20	
tert-Butylbenzene	50.00	47.61	95	46.46	93	80-125	72-132	2	0-20	
Carbon Disulfide	50.00	42.34	85	41.88	84	50-150	33-167	1	0-22	
Carbon Tetrachloride	50.00	49.44	99	49.06	98	65-143	52-156	1	0-20	
Chlorobenzene	50.00	46.33	93	46.49	93	80-120	73-127	0	0-20	
Chloroethane	50.00	44.64	89	46.71	93	62-128	51-139	5	0-20	
Chloroform	50.00	46.78	94	47.54	95	80-120	73-127	2	0-20	
Chloromethane	50.00	39.34	79	40.37	81	43-133	28-148	3	0-20	
2-Chlorotoluene	50.00	47.59	95	47.16	94	80-121	73-128	1	0-20	
4-Chlorotoluene	50.00	47.44	95	45.74	91	80-120	73-127	4	0-20	
Dibromochloromethane	50.00	49.22	98	51.35	103	80-123	73-130	4	0-20	
1,2-Dibromo-3-Chloropropane	50.00	41.75	83	47.78	96	66-126	56-136	13	0-20	
1,2-Dibromoethane	50.00	48.56	97	51.54	103	80-120	73-127	6	0-20	
Dibromomethane	50.00	46.98	94	50.61	101	80-120	73-127	7	0-20	
1,2-Dichlorobenzene	50.00	47.81	96	48.24	96	80-120	73-127	1	0-20	
1,3-Dichlorobenzene	50.00	47.23	94	46.93	94	80-120	73-127	1	0-20	
1,4-Dichlorobenzene	50.00	46.53	93	45.74	91	80-120	73-127	2	0-20	
Dichlorodifluoromethane	50.00	36.82	74	34.09	68	50-150	33-167	8	0-30	
1,1-Dichloroethane	50.00	45.76	92	46.44	93	72-126	63-135	1	0-20	
1,2-Dichloroethane	50.00	46.97	94	49.57	99	76-120	69-127	5	0-20	
1,1-Dichloroethene	50.00	45.22	90	45.62	91	66-132	55-143	1	0-20	
c-1,2-Dichloroethene	50.00	45.47	91	47.10	94	78-120	71-127	4	0-20	
t-1,2-Dichloroethene	50.00	46.90	94	46.69	93	66-132	55-143	0	0-20	
1,2-Dichloropropane	50.00	46.44	93	48.32	97	80-120	73-127	4	0-20	
1,3-Dichloropropane	50.00	46.39	93	49.39	99	80-120	73-127	6	0-20	
2,2-Dichloropropane	50.00	59.25	118	55.41	111	50-150	33-167	7	0-20	
1,1-Dichloropropene	50.00	46.44	93	44.96	90	75-123	67-131	3	0-20	

RPD: Relative Percent Difference. CL: Control Limits

Return to Contents

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Quality Control - LCS/LCSD

OTIE		Date Received:	01/22/18
317 East Main Street		Work Order:	18-01-1531
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: CANOGA PARK			Page 2 of 2

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
c-1,3-Dichloropropene	50.00	45.88	92	48.14	96	77-131	68-140	5	0-20	
t-1,3-Dichloropropene	50.00	46.06	92	47.95	96	76-136	66-146	4	0-20	
Ethylbenzene	50.00	47.89	96	47.19	94	80-120	73-127	1	0-20	
2-Hexanone	50.00	40.82	82	45.33	91	63-123	53-133	10	0-20	
Isopropylbenzene	50.00	47.62	95	46.30	93	80-128	72-136	3	0-20	
p-Isopropyltoluene	50.00	47.89	96	45.14	90	73-133	63-143	6	0-20	
Methylene Chloride	50.00	45.45	91	47.32	95	61-133	49-145	4	0-27	
4-Methyl-2-Pentanone	50.00	41.56	83	46.81	94	65-125	55-135	12	0-20	
Naphthalene	50.00	44.56	89	47.75	95	69-129	59-139	7	0-20	
n-Propylbenzene	50.00	49.01	98	46.95	94	80-128	72-136	4	0-20	
Styrene	50.00	48.65	97	49.51	99	80-126	72-134	2	0-20	
1,1,1,2-Tetrachloroethane	50.00	48.14	96	49.37	99	80-129	72-137	3	0-20	
1,1,2,2-Tetrachloroethane	50.00	43.82	88	48.02	96	74-122	66-130	9	0-20	
Tetrachloroethene	50.00	47.08	94	44.80	90	55-139	41-153	5	0-23	
Toluene	50.00	46.93	94	47.12	94	80-120	73-127	0	0-20	
1,2,3-Trichlorobenzene	50.00	47.71	95	48.50	97	72-132	62-142	2	0-20	
1,2,4-Trichlorobenzene	50.00	48.87	98	47.90	96	74-134	64-144	2	0-20	
1,1,1-Trichloroethane	50.00	47.27	95	47.43	95	76-124	68-132	0	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	50.00	48.87	98	44.32	89	54-150	38-166	10	0-30	
1,1,2-Trichloroethane	50.00	48.66	97	52.27	105	80-120	73-127	7	0-20	
Trichloroethene	50.00	47.17	94	47.01	94	79-121	72-128	0	0-20	
Trichlorofluoromethane	50.00	47.74	95	45.26	91	72-132	62-142	5	0-20	
1,2,3-Trichloropropane	50.00	46.42	93	50.42	101	75-123	67-131	8	0-20	
1,2,4-Trimethylbenzene	50.00	48.16	96	46.55	93	74-128	65-137	3	0-20	
1,3,5-Trimethylbenzene	50.00	49.55	99	47.32	95	77-131	68-140	5	0-20	
Vinyl Acetate	50.00	43.69	87	47.79	96	50-150	33-167	9	0-20	
Vinyl Chloride	50.00	45.68	91	45.39	91	63-129	52-140	1	0-20	
p/m-Xylene	100.0	96.02	96	94.36	94	80-122	73-129	2	0-20	
o-Xylene	50.00	47.93	96	48.07	96	80-128	72-136	0	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	46.08	92	49.66	99	69-123	60-132	7	0-20	

Total number of LCS compounds: 66
Total number of ME compounds: 0
Total number of ME compounds allowed: 3
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

Return to Contents

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Sample Analysis Summary Report

Work Order: 18-01-1531 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 8260B	EPA 5030C	849	GC/MS Z	2

Return to Contents

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Glossary of Terms and Qualifiers

Work Order: 18-01-1531 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

Return to Contents

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7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: 1-22-18

PAGE: 1 OF 1

LABORATORY CLIENT: OTIE

ADDRESS: 317 E. Main Street, Ventura CA 93001

TEL: 805.585.2110 | FAX: 805.585.2111 | E-MAIL: ksawyer@otie.com

CLIENT PROJECT NAME / NUMBER: CANOGA PARK

P.O. NO.: 2009.025/1504

PROJECT CONTACT: Kim Sawyer

LAB USE ONLY: 18-01-1531

SAMPLER(S): (SIGNATURE)

COELT LOG CODE: T N A V

COOLER RECEIPT: Temp = _____ °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48HR ☒ 72 HR ☐ 5 DAY ☒ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

☐ RWQCB REPORTING ☒ COELT EDF ☒ SL2043T1572

SPECIAL INSTRUCTIONS

** OTIE SPECIFIC EDDs **

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	EPA 8260B - VOCs	CONTAINER TYPE
	~~CM-10~~	~~CM-10~~			~~GW~~		X	
1	MW-31-180122	MW-31	1-22-18	1120	GW	5	X	
2	TB-180122	QCTB	1-22-18	1145	H2O	2	X	

Relinquished by: (Signature)	Received by: (Signature) EC	Date: 1/22/18	Time: 12.05
Relinquished by: (Signature)	Received by: (Signature) Danny EC	Date: 1/22/18	Time: 18:10
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Return to Contents

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WORK ORDER NUMBER: 18-01-1531

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: OTIE

DATE: 01/22/2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: +0.2°C); Temperature (w/o CF): 3.2 °C (w/ CF): 3.4 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: BDY

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: BDY

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: 180110B)

Aqueous: ☐ VOA ☑ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (___) ☐ EnCores® (___) ☐ TerraCores® (___) ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: BDY

Return to Contents

CALIFORNIA
Water Boards

EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIQUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

Los Angeles Regional Water Quality Control Board

March 22, 2018

Mr. Daniel S. Samorano
Raytheon Company
1151 East Hermans Road
TU, Bldg. 845
Tucson, AZ 85706

Certified Mail
Return Receipt Requested
Claim No. 7016 0750 0000 3359 3034

SUBJECT: NO FURTHER ACTION FOR GROUNDWATER

CASE/SITE: SOUTHERN PARCELS OF FORMER HUGHES MISSILE SYSTEMS COMPANY FACILITY, 8433 FALLBROOK AVENUE, CANOGA PARK, CALIFORNIA (SCP NO. 0693A, SITE ID NO. 2043T00)

Dear Mr. Samorano:

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) is the state agency with primary responsibility for the protection of groundwater and surface water quality within major portions of Los Angeles and Ventura counties, including the referenced site. To accomplish this, the Regional Board oversees the investigation and cleanup of discharges of waste that may affect the quality of waters of the state as authorized by the Porter-Cologne Water Quality Control Act (California Water Code [CWC], Division 7).

This site has been jointly lead by the California Regional Water Quality Control Board, Los Angeles Region (Regional Board) and the Department of Toxic Substances Control (DTSC). The Regional Board has been overseeing the investigation and remediation of groundwater contamination at the site, while the DTSC has jurisdiction to address the site soil contamination as a result of the historical operations under various Resource Conservation and Recovery Act (RCRA) permits.

Regional Board staff have reviewed the July 31, 2012, *Confirmation Sampling Report for No Further Action Status in the Southern Parcels* prepared and submitted by your environmental consultant, Oneida Total Integrated Enterprise, and other relevant information regarding the southern parcels of former Hughes Missile System Facility (site). The following information is presented in the submitted reports:

1. The subject site consists of three parcels, with current Los Angeles County Assessor Identification (Parcel) Numbers 2005-002-014, 2005-002 -901, and 2005-002 -013 (Attachment 1). The site is part of an approximately 56-acre property that was occupied and operated as an industrial park from 1959 through 1994. In 1959, the 56-acre property was developed as an industrial park by Bunker-Ramo, an electrical component design and testing company. From 1966 through 1994, the former Hughes Missile Systems operated the 56-acre property as an aerospace research and development facility. Since 1995, the site has been redeveloped with several commercial office buildings.

Since the early 1990s, numerous investigations and remedial activities have been conducted at the 56-acre property. Through a merger with Hughes in 1997, Raytheon assumed management of the environmental investigations and remediation activities at the 56-acre property.

2. During the 56-acre property-wide environmental investigation activities in the early 1990s, concentrations of Trichlorofluoromethane (also known as Freon-11) were detected up 300 micrograms per liter (µg/L), above its California drinking water maximum contaminant level (MCL) of 150 µg/L, in groundwater well CM-10. Monitoring well CM-10 is located within Parcel No.2005-002-013 of the site.

3. From 1993 to 1998, additional site characterization activities were conducted at and within the vicinity of well CM-10 to identify the source area and further define the extent of the Freon-11 plume. Based on the results of the soil, soil vapor, and groundwater investigations, the former parking lot, located between former Buildings 274 and 276, was identified as a source area. Historical operations in Buildings 274 and 276 included solvent cleaning using Freon-11.

4. In 2007, the Regional Board approved the removal of nine wells (CM-10, CM-11A, CM-12, CM-15, CM-17, MW-28, MW-29, MW-30, and MW-31) located at and in and vicinity of the site (Parcels 2005-002-014, 2005-002-013, and 2005-002-901) from the 56-acre property-wide groundwater monitoring program. Based on the cumulative groundwater monitoring data collected from these wells, the concentrations of VOCs had been consistently below MCLs or non-detect for several years and concentrations of Freon-11 in groundwater had decreased over the last several years and continued to be below its MCL of 150 µg/L.

5. In 2012, as part of the confirmation sampling activities, additional groundwater sampling was conducted both on-site and off-site. The results of this confirmation sampling indicates that the extent of Freon-11 impacted groundwater has been adequately defined. All detected concentrations of Freon-11 in groundwater during this confirmation sampling were below its MCL of 150 µg/L

6. The results of the source investigation and groundwater monitoring and sampling are summarized as follows:

    A. The occurrence of Freon-11 in well CM-10 has been adequately investigated and the source was identified. Since the associated former on-site building was demolished and operations stopped, there is no active or continued source at the site.

    B. The lateral and vertical extents of the Freon-11 groundwater impact have been fully assessed and defined both in the vicinity of the identified Freon Source Area and off-site downgradient direction.

    C. The groundwater monitoring data collected from 1993 to 2012 show decreasing trends of Freon-11 concentrations to levels continuously below its MCL of 150 µg/L.

    D. Groundwater investigation and continued monitoring data do not indicate any significant residual Freon-11 contamination that warrants further monitoring or remediation.

A Notice of Opportunity to Comment on the no further action determination was sent out on November 13, 2017, inviting comments. The due date to submit comments to this Regional Board was December

15, 2017. By the specified due date, the Regional Board received only one response letter, which was from the DTSC and is summarized below:

On December 15, 2017, the Regional Board received a comment letter from the DTSC, which was addressed to Raytheon (Attachment 2). In the letter, the DTSC recommended that the existing groundwater monitoring wells in the area be resampled for VOCs prior to the Regional Board granting an NFA and allowing well abandonment.

In response to the DTSC's recommendation, Raytheon's consultant monitored two related wells MW-31 and CM-10, which are located in and downgradient of the former area of concern. The results of this confirmation monitoring are presented in the February 8, 2018 technical memorandum titled *Additional Groundwater Sampling for Southern Parcel Closure* (Memo). The Memo indicates that wells MW-31 and CM-10 were monitored on January 22, 2018. Due to dryness of well CM-10, only one confirmation groundwater sample was collected from MW-31 and analyzed for VOCs. Freon-11 was detected at concentration of 64 µg/L, which was below its MCL of 150 µg/L. No other VOCs were detected in the sample collected from well MW-31.

No Further Action Determination

Based upon information provided to the Regional Board, and with the provision that the information was accurate and representative of site conditions, the Regional Board requires no further action (NFA) for groundwater beneath the site (APNs: 2005-002-013, 2005-002-901, and majority of 2005-002-014) at this time. However, the site owners/operators must notify the Regional Board immediately, following up with notification letter within 72 hours, if additional waste in soil and/or groundwater is encountered at the site.

Well Abandonment and Destruction

All monitoring wells (CM-10, CM-11A, CM-12, CM-15, CM-17, MW-21S, MW-21D, MW-22S, MW-22D, MW-28, MW-29, MW-30, and MW-31) shall be abandoned in accordance with the California Department of Water Resources, Bulletin 74-81 and Bulletin 74-90, *California Well Standards*. For well abandonment, you must comply with the following:

A. Well abandonment permits must be obtained from the Los Angeles County, Public Health Department, Environmental Health Division, Drinking Water Program. Any other necessary permits must be obtained from the appropriate agencies prior to the start of field work.

B. A well abandonment report shall be submitted to this Regional Board by **July 31, 2018**. This report must include, at a minimum, as site map showing the well location, a description of the well abandonment process and waste handling, and copies of all signed permits.

The jurisdiction requirements of other agencies, such as the United States Environmental Protection Agency, are not affected by the Regional Board's issuance of a NFA letter at the site. Such agencies may choose to make their own determination concerning this site.

We would like to take this opportunity to thank you for your full cooperation with the Regional Board during the course of the site assessment. Should you have any questions regarding this matter, please contact Ms. Emily Wong, Project Manager, at (213) 576-6736, emily.wong@waterboards.ca.gov, or Ms. Su Han, Unit Chief, at (213) 576-6735, su.han@waterboards.ca.gov.

Sincerely,

Samuel Unger, P.E.
Executive Officer

Attachment: Attachment 1 - Site Parcel Map
Attachment 2 - DTSC's letter dated December 15, 2017

cc: see next page

cc: **State and Local Agencies (via Electronic Copy)**
Mr. Sutida Bergquist, California Division of Drinking Water – Central
Mr. Luis Sepulveda, Watermaster, California Department of Water Resources
Mr. Richard Lavin, Los Angeles County, Department of Public Health
Mr. Richard Slade, Upper Los Angeles River Area Watermaster
Ms. Jessy Fierro, Department of Toxic Substances Control
Mr. Brian Partington, Water Replenishment District Southern California
Ms. Sarah Combe, City of Los Angeles, Department of Water and Power

Project Interested Parties (via Electronic Copy)
Mr. Daniel S. Samorano, Raytheon Company
Mr. Jacques Marcillac/Ms. Kim Sawyer, OTIE
Mr. William Preston Bowling, Aerospace Cancer Museum and Education
Ms. Christina Walsh, Cleanuprocketdyne.org
Ms. Bonnie Klea
Ms. Chris Rowe
Mr. Daniel Wiseman

Property Owners (via Electronic Copy)
Parcel Number 2005-002-014
BSREP West Hills Office Campus LLC
c/o Ms. Erin Sullivan, CBRE USA

Parcel Number 2005-002-013
BA Leasing BSC LLC
c/o Mr. John Gallant, Thermo Fisher Scientific

Parcel Number 2005-002-901
Ms. Melody McCormick, City of Los Angeles

Occupants Parcel Number 2005-002-014 (via Postal Service)
Quest Diagnostics
8401 and 8403 Fallbrook Ave.
Canoga Park, CA 91304

Sears Operations Center
8407 Fallbrook Ave., Ste, 100
Canoga Park, CA 91304

QBE/Westwood Insurance
8407 Fallbrook Ave., Stes, 150, 200, and 270
Canoga Park, CA 91304

Platinum Group of Companies, Top Finance
8407 Fallbrook Ave., Ste, 250
Canoga Park, CA 91304

Trimana Café
8411 Fallbrook Ave.
Canoga Park, CA 91304

Fiserv
8413 Fallbrook Ave.
Canoga Park, CA 91304

Central Plant for West Hills campus
8415 Fallbrook Ave.
Canoga Park, CA 91304

Occupant: Parcel Number 2005-002-013
No occupants at this time (facility under development)

Occupant: Parcel Number 2005-002-901 (via Postal Service)
LAPD - Valley Communications Dispatch Center
23001 Roscoe Blvd.
Canoga Park, CA 91304

2005	2 SHEET	P. A. 2011-27	TRA 16	REVISED: 671204059 97061105001001-29	97061105001002-29 97072104003001-29 97101603005001-29	97101603005002-29 2000121104002001-29 2003071107006001-23, 29	2016122002008001-23 2016122002008002-23		SEARCH NO		OFFICE OF THE ASSESSOR COUNTY OF LOS ANGELES COPYRIGHT © 2002

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Department of Toxic Substances Control

Matthew Rodriquez
Secretary for
Environmental Protection

Barbara A. Lee, Director
9211 Oakdale Avenue
Chatsworth, California 91311

Edmund G. Brown Jr.
Governor

December 15, 2017

Mr. Daniel S. Samorano
Raytheon Company
1151 East Hermans Road
TU, Bldg 826
Tucson, AZ 85706

RAYTHEON CANOGA PARK SITE – 8433 FALLBROOK AVENUE, CANOGA PARK, CA 91304

Dear Mr. Samorano:

The Department of Toxic Substances Control (DTSC) received a notification from the Los Angeles Regional Water Quality Control Board (LARWQCB) regarding its determination to provide groundwater closure for the Southern Parcels at the Raytheon Site (Site) based on the information provided in the *Confirmation Sampling Report for No Further Action Status in the Southern Parcels* (Report) dated July 31, 2012. Please be aware that DTSC is the designated lead regulatory agency to oversee the corrective action at this facility.

Because DTSC does not have an agreement with Raytheon, DTSC cannot conduct a thorough review of the Report or determine whether requirements are met to provide closure for the southern parcels. Based on a limited review, DTSC has provided comments below.

Additionally, as previously stated in discussions with Raytheon, the Areas of Concern (AOCs) identified in the RCRA facility Assessment Report dated January 30, 2008 requires investigation. Please contact DTSC Project Manager, Jessy Fierro, to discuss entering into a Corrective Action Consent Agreement.

If you have any questions, please contact Jessy Fierro at (818) 717-6563 or me at (818) 717-6539.

Sincerely,

Juli Propes
Acting Branch Chief
Brownfields and Environmental Restoration Program – Chatsworth Office

DTSC COMMENTS

Document: *Confirmation Sampling Report for No Further Action Status in the Southern Parcels* (Report) dated July 31, 2012

1. Section 2.1 discusses previous characterization. Soil sampling was apparently conducted in August 1993 at borings B-RNDM-3, B-SL-8, and B-SL-10. The DTSC Geologic Service Branch (GSB) recommends that a map showing the location of these borings be attached to the confirmation sampling report. Additionally, it appears that no soil samples have been collected from within the area identified as the expected source of the Freon 11 contamination. Also, no soil impacted with Freon 11 was removed from the expected source area. However, the confirmation soil vapor samples collected in 2011 indicate that Freon 11 in soil vapor had decreased in the expected source area since soil gas samples first collected in 1995.

2. The last apparent groundwater sampling from existing wells in this area was in 2012. Monitoring well MW-31, located within the Freon 11 source has had reported concentrations less than the Freon-11 MCL since approximately 2000. As shown on Graph 1 data since approximately 2006 has shown a slightly increasing trend of Freon-11 with the last sample from April 30, 2012 to be 120 ug/L (see Table 2). Current groundwater concentrations are unknown since there is no reported data for the last 5 years. The GSB recommends that the existing groundwater monitoring wells in the area be resampled for VOCs prior to the LA RWQCB granting an NFA and allowing abandonment of the wells.

3. Table 1 - DTSC does not recommend using the Environmental Screening Levels (ESLs) established by Regional Water Quality Control Board, San Francisco Region (SFRWQCB),as these values are not representative of Southern California conditions. Soil gas screening levels (SLs) should be developed using DTSC Human Health Risk Assessment (HHRA) Note 3. If SLs are not available in HHRA Note 3, then DTSC recommends using USEPA Regional Screening Levels (RSLs). PCE showed slight exceedances for future residential scenario but no exceedance for future industrial use.

Please contact the following DTSC staff for questions regarding these comments:

Wendy Arano, PG – DTSC Geologist: Wendy.Arano@dtsc.ca.gov
Donald Greenlee, PhD – DTSC Toxicologist: Donald.Greenlee@dtsc.ca.gov
Jessy Fierro – Project Manager: Jessy.Fierro@dtsc.ca.gov

July 6, 2018

Ms. Emily Wong, Site Cleanup I Unit
California Regional Water Quality Control Board, Los Angeles Region
320 W. 4th Street, Suite 200
Los Angeles, California 90013

RE: Extension Request for Report Submittal
Southern Parcels Well Abandonment
Former Canoga Park Facility
8433 Fallbrook Avenue, Canoga Park, California
SCP No. 0693A, Site ID No. 2043T00

Dear Ms. Wong:

On behalf of the Raytheon Company, OTIE is requesting an extension for the submittal of the well abandonment report requested in your letter dated March 22, 2018. The current due date is July 31, 2018: we would like to request an extension for submittal to October 1, 2018.

This extension is necessary due to delayed contracting for the well abandonment task. As it was not included in the original scope of work for 2018, additional funds needed to be awarded before the work could be performed.

Sincerely,
Oneida Total Integrated Enterprises

Kim Sawyer, PG
Senior Geologist

July 17, 2018

Mr. Daniel S. Samorano
Raytheon Company
1151 East Hermans Road
TU, Bldg 845
Tucson, AZ 85706

SUBJECT: APPROVAL EXTENSION REQUEST TO SUBMIT A TECHNICAL REPORT FOR GROUNDWATER MONITORING WELLS ABANDONMENT ACTIVITIES IN SOUTHERN PARCELS

CASE/SITE: RAYTHEON COMPANY (FORMER HUGHES MISSILE SYSTEMS COMPANY) 8433 FALLBROOK AVENUE, CANOGA PARK, CALIFORNIA (SCP NO. 0693A, SITE ID NO. 2043T00)

Dear Mr. Samorano:

Los Angeles Regional Water Quality Control Board (Regional Board) staff received an extension request letter to submit a technical report (Report) presenting the results of groundwater monitoring wells abandonment activities in the southern parcels of the site (Letter). The Letter was prepared and submitted by your consultant Oneida Total Integrated Enterprise (OTIE) on July 6, 2018. The Letter indicates the wells abandonment activities have been delayed due to limited budget/funding available to implement the field work. Therefore, the Letter requests a 60-day extension to submit the Report. The original due date of July 31, 2018 was specified in the Regional Board's letter dated March 22, 2018. Based on the information submitted, Regional Board staff approves the submittal of the Report from July 31, 2018 to **October 1, 2018**.

Should you have any questions, please contact me at (213) 576-6736 (emily.wongewong@waterboards.ca.gov).

Sincerely,

Emily Wong
Water Resource Control Engineer
Site Cleanup Unit I

cc: see next page.

cc: State and Local Agencies (via Electronic Copy)

Mr. Sutida Bergquist, California Division of Drinking Water – Central
Mr. Luis Sepulveda, Watermaster, California Department of Water Resources
Mr. Richard Lavin, Los Angeles County, Department of Public Health
Mr. Richard Slade, Upper Los Angeles River Area Watermaster
Ms. Jessy Fierro, Department of Toxic Substances Control
Mr. Brian Partington, Water Replenishment District Southern California
Ms. Sarah Combe, City of Los Angeles, Department of Water and Power

Project Interested Parties (via Electronic Copy)
Mr. Jacques Marcillac/Ms. Kim Sawyer, OTIE
Mr. William Preston Bowling, Aerospace Cancer Museum and Education
Ms. Christina Walsh, Cleanuprocketdyne.org
Ms. Bonnie Klea
Ms. Chris Rowe
Mr. Daniel Wiseman

Property Owners (via Electronic Copy)
Parcel Number 2005-002-014
BSREP West Hills Office Campus LLC
c/o Ms. Erin Sullivan, CBRE USA

Parcel Number 2005-002-013
BA Leasing BSC LLC
c/o Mr. John Gallant, Thermo Fisher Scientific

Parcel Number 2005-002-901
Ms. Melody McCormick, City of Los Angeles

SECOND QUARTER 2020
REMEDIAL PROGRESS AND SITE-WIDE GROUNDWATER MONITORING REPORT

Former Canoga Park Facility
8433 Fallbrook Avenue
Canoga Park, California

Oneida Total Integrated Enterprises Project No. 2009025
July 30, 2020

M&RP No. CI-8947
LARWQCB SCP File No. 0693
Site ID WDR 100000974

Prepared for:
Ann Chang
Site Cleanup I
Los Angeles Regional Water Quality Control Board
320 W. Fourth Street, Suite #200
Los Angeles, California 90013

Prepared by:

317 East Main Street
Ventura, California 93001
(805) 585-2110

SECOND QUARTER 2020
REMEDIAL PROGRESS AND SITE-WIDE GROUNDWATER MONITORING REPORT

Former Canoga Park Facility
8433 Fallbrook Avenue
Canoga Park, California

Oneida Total Integrated Enterprises Project No. 2009025
July 30, 2020

LARWQCB SCP File No. 0693
Site ID WDR 100000974

Prepared for:
Ann Chang
Site Cleanup I
Los Angeles Regional Water Quality Control Board
320 W. Fourth Street, Suite 200
Los Angeles, California 90013

ONEIDA
Total Integrated Enterprises

Prepared by:

Lindsey Larsen
Environmental Scientist

Reviewed by:

Kim Sawyer, PG
Senior Geologist

PROFESSIONAL GEOLOGIST
KIMBERLY J. SAWYER
No. 7153
EXP. 5/31/22
STATE OF CALIFORNIA

EXECUTIVE SUMMARY

On behalf of Raytheon Company (Raytheon), Oneida Total Integrated Enterprises, LLC has prepared this report for the Second Quarter 2020 to document remedial progress and waste discharge activities at the Former Canoga Park Facility (the Site). Remedial efforts have been implemented to treat groundwater and saturated soils that contain residual volatile organic compounds (VOCs) at the Site located at 8433 Fallbrook Avenue in Canoga Park, California. This report was prepared in accordance with the revised Monitoring and Reporting Program (M&RP) No. CI-8947 (December 7, 2018) issued by the Los Angeles Regional Water Quality Control Board (LARWQCB) and the Waste Discharge Requirements (WDR) Order No. R4-2014-0187 (Series No. 076). This document summarizes the results for the May 2020 Site-wide semiannual groundwater monitoring event, as well as remedial activities conducted between April and June 2020.

Groundwater remediation has been underway at the Site since 1995 to achieve cleanup criteria. The LARWQCB is the lead oversight agency for remediation activities at the Site (LARWQCB File No. 94-45). The primary objective of the remediation program is to accelerate the degradation of VOCs to concentrations below the cleanup goals established in the 1992 *Corrective Action Plan* (CAP).

Remediation techniques used at the Site have included remedial excavation, a groundwater recovery and treatment system, a soil vapor extraction system, and an air sparge system. Enhanced *in-situ* bioremediation (EISB) was first implemented in 2005. Recent *in-situ* remedies included EISB in the well CM-4D and well CM-8D areas implemented in November and December 2016, and *in-situ* chemical oxidation (ISCO) in the Northwest area implemented in March 2017. Injection programs followed OTIE's *CAP Addendum No. 5* dated December 2015. In their letter dated December 7, 2018, the LARWQCB revised the M&RP to discontinue post-injection monitoring at the CM-4D, CM-8D, and Northwest Areas, and to include the monitoring requirements for EISB injections planned at the North-Central Barriers and Former Tank T3 Area.

Pre-injection Baseline groundwater monitoring for the North-Central Barriers and Former Tank T3 Area EISB was conducted in March 2020 in accordance with M&RP No. CI-8947 and WDR Order No. R4-2014-0187. Raytheon conducted EISB injections at the North-Central Barriers and Former Tank T3 Area between April 13 and 24, 2020 and field activities are summarized herein.

The semiannual Site-wide groundwater monitoring event was conducted in May 2020 and is documented in this report. The monitoring event follows the previously active M&RP No. CI-7483 issued by the LARWQCB, File Number 94-45. This M&RP was directed under WDR Order No. 95-012, which was rescinded in 2010 due to high sulfate levels in effluent as well as asymptotic VOC concentrations. Raytheon voluntarily performs Site-wide semiannual and annual groundwater monitoring in general accordance with this rescinded M&RP. Raytheon will continue monitoring under the current sampling plan until a new program is in place.

The following summarizes the remedial activities and groundwater monitoring events conducted through Second Quarter 2020.

MAY 2020 SITE-WIDE SEMIANNUAL SAMPLING

- Site-wide gauging was performed May 18, 2020 for 44 monitoring and recovery wells. Depths to water ranged from 9.89 feet (well MW-19D) to 58.94 feet below top of casing (well CM-19). Groundwater elevations ranged from 836.98 feet (well MW-44) to 856.33 feet above mean sea level (well VW-122). The average groundwater elevation was 2.24 feet

higher in May 2020 than during the previous Site-wide gauging event in November 2019. The apparent groundwater gradient in the northwest portion of the Site was approximately 0.030 feet per foot (ft/ft) west. The apparent groundwater gradient over the north-central and northeast portions of the Site ranged from 0.024 ft/ft southeast to 0.025 ft/ft southwest. Depth to water measurements and average groundwater gradients for this event are consistent with historical trends;

- Monitoring wells CM-4D, CM-7D, CM-8D, CM-16, MW-15, MW-16, MW-19S, MW-19D, MW-20S, MW-37, and MW-39 were purged and sampled for VOC analysis between May 19 and 21, 2019. Well CM-2D was not sampled due to the presence of substrate from the April 2020 injections;
- VOCs were detected in 6 of the 11 monitoring wells sampled. VOCs were not detected in monitoring wells CM-7D, MW-15, MW-19S, MW-19D, and MW-20S. Concentrations of VOCs did not exceed CAP goals in any monitoring well sampled.
- The maximum concentrations of VOCs detected in monitoring wells include: chloroform at 4.6 micrograms per liter (µg/L) (MW-37); 1,1-dichloroethane (1,1-DCA) at 3.1 µg/L (CM-4D); 1,2-dichloroethane (1,2-DCA) at 2.8 µg/L (CM-4D); *cis*-1,2-dichloroethene (*cis*-1,2-DCE) at 3.2 µg/L (CM-4D); trichloroethene (TCE) at 5.4 µg/L (MW-37); trichlorofluoromethane at 1.8 µg/L (MW-37); vinyl chloride (VC) at 32 µg/L (MW-39); and chloroethane at 3.2 µg/L (CM-4D);
- Recovery wells sampled in May 2020 include RW-01, RW-04 through RW-11, RW-13, RW-15, and RW-16. Recovery well RW-02 was unable to be sampled due to obstruction and well RW-14 was not sampled due to the presence of injection substrate. VOCs were detected in 8 of the 12 recovery wells sampled. VOCs were not detected in recovery wells RW-05 and RW-07 through RW-09. VOC concentrations exceeded CAP goals only in well RW-11, with 1,1-DCE exceeding the CAP goal of 60 µg/L at 66 µg/L.
- The maximum concentrations of other VOCs detected in recovery wells below CAP goals include: benzene at 0.75 µg/L (RW-06); 1,1-DCA at 1.5 µg/L (RW-10); *cis*-1,2-DCE at 12 µg/L (RW-16); tetrachloroethene at 1.3 µg/L (RW-15); TCE at 3.6 µg/L (RW-15); and VC at 20 µg/L (RW-10).

SECOND QUARTER 2020 REMEDIAL PROGRESS MONITORING

EISB injections were implemented in the North-Central Barriers and Former Tank T3 Area in April 2020 to address residual contamination in the areas around wells RW-06, RW-14, CM-2D, and MW-23, and in the Former Tank T3 area. Activities were performed in accordance with the approved CAP Addendum No. 5 and are summarized below.

- Subsurface injections were performed between April 13 and 24, 2020 at nine injection points in the North-Central Barriers Area (IP-21, S-10-M, S-11-D, SW/VW-3, IP-22, IP-23, S-15-M, S-16-M, and SW/VW-16) and one injection point (IP-03) in the Former Tank T3 Area. Planned injection points SW/VW-2 and SW/VW-5 were discovered to have damaged casings and were unable to receive injection substrate.
- Approximately 465 gallons of sodium lactate; 1,583 gallons of EOS® PRO; and 48 liters of BAC-9™ were mixed with 19,955 gallons of anaerobic water and injected into the 10 injection points between approximately 39 and 55 feet bgs.

As there are no post-injection data to compare with Baseline results, a more thorough discussion of results will be included in the next remedial progress monitoring report. The Month #3 post-injection sampling event will be conducted in August 2020, per the revised M&RP. The EISB RPM results will be reported in the third quarter 2020 remedial progress report to be submitted by October 30, 2020.

TABLE OF CONTENTS

1.0 INTRODUCTION 1
1.1. Site Ownership and Redevelopment History 1
1.2. Historical Remediation Overview 2
2.0 MAY 2020 SITE-WIDE GROUNDWATER SAMPLING 5
2.1. Field Activities and Analyses 5
2.1.1. Groundwater Gauging and Sampling 5
2.1.2. Site-Wide Monitoring Well Sampling 6
2.1.3. Recovery Well Sampling 6
2.2. Laboratory Results 6
2.2.1. Monitoring Well Results 6
2.2.2. Recovery Well Results 7
3.0 EISB INJECTION ACTIVITIES 9
3.1. Project Treatment Areas and Deviations from CAP 9
3.2. Substrate Selection and Dosage 10
3.3. Substrate Delivery Program 10
3.3.1. North-Central Barriers Injections 11
3.3.2. Former Tank T3 Area Injections 11
4.0 QA/QC SAMPLE RESULTS 13
4.1. Field QA/QC samples 13
4.2. Laboratory QA/QC Samples 13
5.0 SUMMARY AND CONCLUSIONS 14
5.1. May 2020 Site-Wide Semiannual Sampling 14
5.2. Second Quarter 2020 Remedial Progress Monitoring 14
6.0 REFERENCES 16

FIGURES

Figure 1 Site Vicinity Map
Figure 2 Site Plan Showing Remedial Treatment Areas
Figure 3 Groundwater Gradient Map – May 2020

FIGURES (CONT'D)

Figure 4 Site Plan Showing Concentration Trends versus Time in Groundwater

Figure 5 Concentration Trends for Select COCs – North-Central Barriers and Former Tank T3 Area EISB

TABLES

Table 1 EISB/ISCR/ISCO Program Overview

Table 2 Depths to Water and Groundwater Elevation Data – May 18, 2020

Table 3 Well Construction and Survey Data

Table 4 VOC Groundwater Analytical Results, Second Quarter 2020

Table 5 Selected Groundwater Monitoring Results – North-Central Barriers and Former Tank T3 Areas

Table 6 EISB Injection Summary

Table 7 Groundwater Analytical Results for Field QA/QC Samples, Second Quarter 2020

GRAPHS

Graph 1 Hydrograph – CM-8D Area

Graph 2 Hydrograph – Northwest Area

Graph 3 Hydrograph – Northeast Area

Graph CM-2D VOC Concentrations and Groundwater Elevation vs. Time, Monitoring Well CM-2D

Graph CM-4D VOC Concentrations and Groundwater Elevation vs. Time, Monitoring Well CM-4D

Graph CM-7D VOC Concentrations and Groundwater Elevation vs. Time, Monitoring Well CM-7D

Graph CM-8D VOC Concentrations and Groundwater Elevation vs. Time, Monitoring Well CM-8D

Graph CM-16 VOC Concentrations and Groundwater Elevation vs. Time, Monitoring Well CM-16

Graph MW-15 VOC Concentrations and Groundwater Elevation vs. Time, Monitoring Well MW-15

Graph MW-16 VOC Concentrations and Groundwater Elevation vs. Time, Monitoring Well MW-16

Graph MW-19S VOC Concentrations and Groundwater Elevation vs. Time, Monitoring Well MW-19S

GRAPHS (CONT'D)

Graph MW-19D VOC Concentrations and Groundwater Elevation vs. Time, Monitoring Well MW-19D

Graph MW-20S VOC Concentrations and Groundwater Elevation vs. Time, Monitoring Well MW-20S

Graph MW-37 VOC Concentrations and Groundwater Elevation vs. Time, Monitoring Well MW-37

Graph MW-39 VOC Concentrations and Groundwater Elevation vs. Time, Monitoring Well MW-39

Graph RW-01 VOC Concentrations and Groundwater Elevation vs. Time, Recovery Well RW-01

Graph RW-02 VOC Concentrations vs. Time, Recovery Well RW-02

Graph RW-04 VOC Concentrations vs. Time, Recovery Well RW-04

Graph RW-05 VOC Concentrations vs. Time, Recovery Well RW-05

Graph RW-06 VOC Concentrations vs. Time, Recovery Well RW-06

Graph RW-07 VOC Concentrations vs. Time, Recovery Well RW-07

Graph RW-08 VOC Concentrations vs. Time, Recovery Well RW-08

Graph RW-09 VOC Concentrations vs. Time, Recovery Well RW-09

Graph RW-10 VOC Concentrations and Depth to Groundwater vs. Time, Recovery Well RW-10

Graph RW-11 VOC Concentrations and Groundwater Elevation vs. Time, Recovery Well RW-11

Graph RW-13 VOC Concentrations vs. Time, Recovery Well RW-13

Graph RW-14 VOC Concentrations and Groundwater Elevation vs. Time, Recovery Well RW-14

Graph RW-15 VOC Concentrations vs. Time, Recovery Well RW-15

Graph RW-16 VOC Concentrations vs. Time, Recovery Well RW-16

APPENDICES

Appendix A Purge Logs and Field Forms

Appendix B Summary of Water Level Data, January 1996 – Present

Appendix C Historical Volatile Organic Compound Concentrations

Appendix D Laboratory Reports

Appendix E Raytheon Company Certification Statement Letter

ACRONYMS AND ABBREVIATIONS

°C	degrees Celsius
1,1-DCA	1,1-dichloroethane
1,1-DCE	1,1-dichloroethene
1,2-DCA	1,2-dichloroethane
AS	air sparge
AST	aboveground storage tank
Bldg	building
btoc	below top of casing
CAP	Corrective Action Plan
Calscience	Eurofins Calscience Environmental Laboratories, Inc.
cis-1,2-DCE	*cis*-1,2-dichloroethene
COC	chemicals of concern
EISB	enhanced *in-situ* bioremediation
DHC	*Dehalococcoides mccartyi*
ft/ft	feet per foot
GRTS	groundwater recovery and treatment system
Hughes	Hughes Missile Systems Company
HWSA	hazardous waste storage area
ISCO	*in-situ* chemical oxidation
ISCR	*in-situ* chemical reduction
LARWQCB	Los Angeles Regional Water Quality Control Board
µg/L	micrograms per liter
M&RP	Monitoring and Reporting Program
MCL	maximum contaminant level
mV	millivolts
ORP	oxidation-reduction potential
OTIE	Oneida Total Integrated Enterprises, LLC
PCE	tetrachloroethene
QA/QC	quality assurance and quality control

ACRONYMS AND ABBREVIATIONS (CONT'D)

Raytheon	Raytheon Company
RPD	relative percent difference
RPM	remedial progress monitoring
SVE	soil vapor extraction
TCE	trichloroethene
TCFM	trichlorofluoromethane
TN&A	T N & Associates, Inc.
VC	vinyl chloride
VOC	volatile organic compound
WDR	Waste Discharge Requirements

1.0 INTRODUCTION

On behalf of Raytheon Company (Raytheon), Oneida Total Integrated Enterprises, LLC (OTIE) prepared this report to document remedial progress and waste discharge activities for the Second Quarter 2020. Remedial efforts have been implemented to treat groundwater and saturated soil containing residual concentrations of volatile organic compounds (VOCs) at the Former Canoga Park Facility (the Site) located at 8433 Fallbrook Avenue in Canoga Park, California (Figure 1).

This report was prepared in accordance with the revised Monitoring and Reporting Program (M&RP) No. CI-8947 issued by the Los Angeles Regional Water Quality Control Board (LARWQCB) on December 7, 2018 (LARWQCB, 2018) and the Waste Discharge Requirements (WDR) Order No. R4-2014-0187 (Series No. 076). The revised M&RP included the discontinuation of post-injection enhanced *in-situ* bioremediation (EISB) monitoring at CM-4D and CM-8D Areas and of post-injection *in-situ* chemical oxidation (ISCO) monitoring at the Northwest Area; and the addition of monitoring requirements for EISB injections at the North-Central Barriers and Former Tank T3 Area. Pre-injection Baseline sampling was performed in March 2020 and was reported on in the First Quarter Remedial Progress Monitoring Report (OTIE, 2020). The EISB injections were performed between April 13 and 24, 2020 and are summarized herein.

The monitoring program and remediation at the former Canoga Park facility are conducted under the coordination of:

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The lead agency for the monitoring and remediation is the LARWQCB. The current LARWQCB project manager for the remediation is Ms. Emily Wong, and Dr. Ann Chang oversees the WDR permit and associated monitoring program:

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1.1. SITE OWNERSHIP AND REDEVELOPMENT HISTORY

In 1959, the 8433 Fallbrook Avenue property was developed as an industrial park by Bunker-Ramo, an electrical component design and testing company. Bunker-Ramo was the sole

occupant of the facility from 1959 until 1966. From 1966 to 1976, Hughes Missile Systems Company (Hughes) was a co-occupant with Rocketdyne, a division of Rockwell International, and Bunker-Ramo. Hughes purchased the entire Site in the mid-1970s and became the sole occupant, operating as an aerospace research and development facility. The former Raytheon Facility was purchased from Hughes by Coast Federal Bank in May 1995. Parcels were subsequently purchased by DeVry and the Los Angeles Metropolitan Police Department. The northern portion of the Site was sold to Regent Properties, Inc. in 1997. Regent Properties, Inc. sold its portion of the property to Shamrock Holdings, Inc. in 2001, who subsequently, sold the property to MEPT West Hills, LLC in June 2002. In 2015, MEPT West Hills, LLC sold the property to BSREP West Hills Office Campus, LLC who is the current property owner. CB Richard Ellis is the current property manager and is the primary contact for Site logistical issues. Through a merger with Hughes in 1997, Raytheon assumed management of the environmental investigations and remediation activities at the Site.

1.2. HISTORICAL REMEDIATION OVERVIEW

Investigation activities at the Site have been ongoing since 1988. Groundwater remediation began in 1995 to achieve cleanup criteria established in the original Corrective Action Plan (CAP) (Hughes, 1992) for the site-specific chemicals of concern (COCs) which include chlorinated ethenes. Clean up goals for COCs are summarized below:

Chemical of Concern	CAP Goal [micrograms per liter (µg/L)]
Tetrachloroethene (PCE)	50
Trichloroethene (TCE)	50
cis-1,2-Dichloroethene (*cis*-1,2-DCE)	60
1,1- Dichloroethene (1,1-DCE)	60
1,1-Dichloroethane (1,1-DCA)	50
1,2-Dichloroethane (1,2-DCA)	5

Remediation techniques used at the Site have included a groundwater recovery and treatment system (GRTS), soil vapor extraction (SVE), an air sparge (AS) system, and *in-situ* remedial actions. In May 2002, the LARWQCB approved an EISB pilot test to evaluate the ability of EISB to reduce chlorinated ethenes in saturated soil and groundwater below CAP goals. Based on the successful results of the pilot test, a full-scale EISB application was approved by the LARWQCB and three separate phases (Phase I through Phase III) were implemented between October 2005 and November 2008 to remediate COCs in treatment areas along the northern perimeter of the Site and the “CM-8D” Area. As a result, the AS/SVE systems and GRTS were phased out and currently serve as contingency options if *in-situ* remedial actions are ineffective.

After the effects of EISB Phases I through III were evaluated, *Corrective Action Plan Addendum No. 3* (TN & Associates [TN&A], 2008) was prepared. The *CAP Addendum No. 3* proposed additional EISB activities and actions to voluntarily address the hexavalent chromium (Cr[VI]) concentrations in residual soil and groundwater at the Former Hazardous Waste Storage Area (HWSA). *In-situ* chemical reduction (ISCR) technology was proposed for the treatment of hexavalent chromium, which involved the injection of an approved reducing agent (calcium polysulfide) into groundwater. The approval and permitting process for *CAP Addendum No. 3* was completed in September 2009.

The *CAP Addendum No. 3* activities were completed in phases, referenced as Phase IV (Northwest Area EISB), Phase V (ISCR at HWSA), Phase VI (EISB at Former Building [Bldg] 269 Area), and Phase VII (EISB at Former Tank T3 Area), with injections performed in separate areas followed by a comprehensive groundwater monitoring program for each phase. Injections in the four areas were conducted in October-November 2009, June 2010, May 2011, and September 2012, respectively.

An additional groundwater investigation was conducted in the Northwest Perimeter area in October-November 2012 to determine the extent of residual VOC concentrations and to improve the understanding of groundwater flow in this area. Based on the VOC concentrations found in the newly installed wells and the continued presence of VOCs in well RW-01, OTIE prepared the *Corrective Action Plan Addendum No. 4: Work Plan for In Situ Chemical Oxidation* (OTIE, 2013). *CAP Addendum No. 4* was submitted to the LARWQCB in May 2013 and M&RP No. CI-8947 was revised on January 22, 2014 (LARWQCB, 2014). Phase VIII ISCO injections were implemented at the Northwest Perimeter area in July 2014 per the revised M&RP. The 2014-revised M&RP also discontinued the remedial progress monitoring for the Northwest Area (Phase IV) and the HWSA (Phase V).

After evaluating the extent of remaining VOCs in groundwater at the Site, the *Corrective Action Plan Addendum No. 5: Work Plan for In Situ* Ch*emical Oxidation and Enhanced In Situ Bioremediation* (OTIE, 2015) was submitted to LARWQCB on December 15, 2015. Additional remedial injections were proposed in four areas: ISCO in Northwest Area, and EISB in the CM-4D Area, the CM-8D Area, and the North-Central Area, near Former Tank T3.

LARWQCB approved *CAP Addendum No. 5* (LARWQCB, 2016a) and enrolled Raytheon under WDR Order No. R4-2014-0187 (Series No. 076) for the injection activities proposed in the CAP Addendum in a letter dated September 19, 2016 (LARWQCB, 2016b). The LARWQCB modified the M&RP for three of the four injection programs described in the CAP: EISB injections in two areas and ISCO in one area. Per the 2016-revised M&RP No. CI-8947, periodic monitoring for EISB in the Former Bldg 269 Area (Phase VI) and the Former Tank T3 Area (Phase VII) were discontinued, with the last remedial progress monitoring (RPM) event completed in May 2016. The revised M&RP also terminated additional monitoring requirements for Phase VIII ISCO in the Northwest Perimeter Area.

Baseline sampling for the CM-8D (previously Phase III) and CM-4D (previously “Phase VI - Former Bldg 269 Area”) EISB areas was conducted in October 2016, and EISB injections were completed in November-December 2016. Baseline sampling for ISCO in the Northwest Area was conducted in February 2017 and injections were performed in March 2017. LARWQCB modified the M&RP in a letter dated December 7, 2018 to discontinue post-injection monitoring requirements following the November 2018 Month #24 RPM events at CM-4D and CM-8D Areas and the Month #21 RPM event in the Northwest Area. The revised M&RP also incorporated RPM requirements for proposed EISB injections in the North-Central Barriers and Former Tank T3 Area.

Raytheon requested access from the Los Angeles Department of Water and Power (LADWP) to install proposed injection wells along the southern boundary of their Chatsworth Reservoir property, adjacent and to the north of the Site. As LADWP had not issued an access agreement as preparations were being made for the injection activities, a modification to the proposed program for the North-Central Barriers and Former Tank T3 Area injections was approved by LARWQCB in an email dated March 13, 2020. The revised injection program incorporated two existing onsite wells to replace the two proposed off-site “LADWP” wells. Pre-injection Baseline sampling was performed on March 9, 2020 for the six RPM wells (wells M-1, CM-2D, MW-23,

RW-11, RW-14, and RW-15). EISB injections were performed between April 13 and 24, 2020 and are summarized herein.

A summary of all phases of *in-situ* remedial efforts is provided in Table 1 and the remedial treatment areas are shown on Figure 2.

Additional site setting information on site geology, hydrogeology, and conceptual site model are included in the *CAP Addendum No. 3*, (TN&A, 2008).

2.0 MAY 2020 SITE-WIDE GROUNDWATER SAMPLING

2.1. FIELD ACTIVITIES AND ANALYSES

2.1.1. Groundwater Gauging and Sampling

Semiannual gauging was performed on May 18, 2020 at 44 monitoring and recovery wells. An electronic water level meter with an accuracy of ± 0.01 ft was used to measure depth to groundwater in each well. The wells were gauged in order from the lowest to highest expected VOC concentrations to minimize the potential for cross-contamination. The water level meter was cleaned prior to gauging each well.

Depths to water ranged from 9.89 feet below top of casing (btoc) at well MW-19D to 58.94 feet btoc at well CM-19. Groundwater elevations ranged from 836.98 feet above mean sea level (amsl) at well MW-44 to 856.33 feet amsl at well VW-122. The average groundwater elevation was 2.24 feet higher in May 2020 than during the previous Site-wide gauging event conducted November 2019. Groundwater elevation contours were plotted using shallow groundwater elevation data from monitoring wells located both on- and off-Site (Figure 3). Apparent groundwater gradient in the northwest corner of the Site was approximately 0.030 feet per foot (ft/ft) west. The apparent groundwater gradient in the north-central and northeast portions of the Site ranged from 0.024 ft/ft southeast to 0.025 ft/ft southwest. Groundwater elevation measurements collected on May 18, 2020 are summarized in Table 2.

Historical hydrographs for 26 monitoring wells are provided in Graphs 1 through 3. Field gauging documentation for May 2020 is included in Appendix A, and a summary of historical water level data for January 1996 through present is provided in Appendix B. Well completion information for Site monitoring and recovery wells is presented in Table 3.

Following gauging activities, and prior to sample collection, all but two wells were purged using the low flow purging method to minimize stress to the groundwater system by minimizing drawdown caused by pumping. The overall goal of low flow purging is to produce a drawdown of less than 10% of the saturated screened interval during purging. “Grab” samples were collected from wells MW-39 (due to an obstruction) and RW-06 (due to the presence of substrate). Specific sampling equipment used is included on the purge sheets for each well in Appendix A.

During groundwater purging, water quality parameters, including temperature, pH, electrical conductivity, dissolved oxygen, oxidation-reduction potential (ORP), and turbidity, were monitored continuously in a flow-through cell with a calibrated water quality meter. Water levels and water quality parameter measurements were recorded every three to five minutes until parameters stabilized to within 10% following three consecutive measurements.

Upon stabilization of water quality parameters, groundwater samples were collected following project-specific requirements and in accordance with the OTIE Standard Operating Practice Number OTIE008F in pre-labeled sample vials or containers. Immediately following collection, the samples were placed on ice, and maintained at 4°C ± 2°C until transported by courier under appropriate chain-of-custody protocol to Calscience Laboratories, Inc. (Calscience) for VOC analysis by EPA Method 8260B. Quality assurance/quality control (QA/QC) samples collected included field duplicates and trip blanks. Field sampling data sheets for this sampling event are provided in Appendix A.

Water generated from well purging was collected and placed into labeled drums pending off-site disposal.

2.1.2. Site-Wide Monitoring Well Sampling

Groundwater samples were collected from 11 Site monitoring wells between May 19 and 21, 2020. The 11 wells sampled include CM-4D, CM-7D, CM-8D, CM-16, MW-15, MW-16, MW-19S, MW-19D, MW-20S, MW-37, and MW-39. Well CM-2D was not sampled due to the presence of substrate from the April 2020 injections. Well CM-2D is an RPM well and was sampled in March 2020 for the Baseline event.

2.1.3. Recovery Well Sampling

Groundwater samples were collected from 12 Site recovery wells between May 19 and 20, 2020. The 12 wells sampled include RW-01, RW-04, RW-05, RW-06, RW-07, RW-08, RW-09, RW-10, RW-11, RW-13, RW-15, and RW-16. Well RW-02 was unable to be sampled due to limited groundwater recharge and a blockage within the well, and well RW-14 was not sampled due to the presence of injection substrate. Well RW-14 is an RPM well and was sampled in March 2020 for the Baseline event.

2.2. LABORATORY RESULTS

2.2.1. Monitoring Well Results

VOCs were detected in 6 of the 11 monitoring wells sampled. VOCs were not detected in monitoring wells CM-7D, MW-15, MW-19S, MW-19D, and MW-20S. VOC concentrations did not exceed CAP goals in any well.

VOCs detected at concentrations below their respective CAP goals are summarized below.

- 1,1-DCA was detected in two wells below the CAP goal of 50 µg/L at 2.7 µg/L (CM-8D) and 3.1 µg/L (CM-4D);
- 1,2-DCA was detected in two wells below the CAP goal of 5 µg/L at 0.96 µg/L (CM-8D) and 2.8 µg/L (CM-4D);
- 1,1-DCE was detected in five wells below the CAP goal of 60 µg/L and ranged from 0.94 µg/L (MW-16) to 47 µg/L (MW-37);
- *cis*-1,2-DCE was detected in three wells below the CAP goal of 60 µg/L at 0.73 µg/L (CM-16), 1.8 µg/L (CM-8D), and 3.2 µg/L (CM-4D);
- TCE was detected in three wells below the CAP goal of 50 µg/L at 0.65 µg/L (CM-16), 2.6 µg/L (CM-8D), and 5.4 µg/L (MW-37);
- Trichlorofluoromethane (TCFM) was detected in well MW-37 at 1.8 µg/L, below the CAP goal of 150 µg/L; and
- Vinyl chloride (VC) was detected in four wells and ranged from 0.88 µg/L (MW-16) to 32 µg/L (MW-39). There is no CAP goal established for VC since it was not detected prior to the initiation of EISB at the Site. VC concentrations at the Site are an intermediate daughter product resulting from the EISB dechlorination process.

Additional analyte detections included chloroform in well MW-37 at 4.6 µg/L and chloroethane in well CM-4D at 3.2 µg/L. There are no established CAP goals for chloroform or chloroethane. The concentration of chloroform in well MW-37 was below the California maximum contaminant level (MCL) of 80 µg/L for trihalomethanes. There is no MCL for chloroethane.

VOC concentrations in Site monitoring wells are generally stable or decreasing. In well MW-39, 1,1-DCE and VC concentrations have decreased significantly between November 2018 and May 2020, from 86 µg/L to 7.6 µg/L and from 62 µg/L to 32 µg/L, respectively. In well MW-37, 1,1-DCE concentrations decreased from a high of 140 µg/L in February 2017 to 18 µg/L in November 2019, below the CAP goal of 60 µg/L. Although 1,1-DCE increased to 47 µg/L in May 2020, it remains below the CAP goal.

Results of the May 2020 sampling event are summarized in Table 4. Historical concentrations from 1995 to present for 10 selected compounds in groundwater are summarized in Table C1 in Appendix C. Concentration trends of select VOCs versus time in monitoring wells are illustrated on Figure 4. Select historical VOC concentrations and groundwater elevations are illustrated on Graphs CM-2D through MW-39. Laboratory reports and chain-of-custody documentation are included in Appendix D.

2.2.2. Recovery Well Results

VOCs were detected in 8 of the 12 recovery wells sampled. VOCs were not detected in recovery wells RW-05, RW-07, RW-08, and RW-09. VOC concentrations exceeded CAP goals only in well RW-11, with 1,1-DCE exceeding the CAP goal of 60 µg/L at 66 µg/L.

VOCs detected in recovery wells at concentrations below their respective CAP goals are summarized below.

- Benzene was detected below the CAP goal of 1 µg/L in well RW-06 at 0.75 µg/L;
- 1,1-DCA was detected in three wells below the CAP goal of 50 µg/L at 0.54 µg/L (RW-01), 0.58 µg/L (RW-04), and 1.5 µg/L (RW-10);
- 1,1-DCE was detected in six wells below the CAP goal of 60 µg/L and ranged from 0.52 µg/L (RW-13) to 45 µg/L (RW-10);
- *cis*-1,2-DCE was detected in three wells below the CAP goal of 60 µg/L at 1.0 µg/L (RW-06), 3.5 µg/L (RW-15), and 12 µg/L (RW-16);
- PCE was detected below the CAP goal of 50 µg/L in well RW-15 at 1.3 µg/L;
- TCE was detected in three wells below the CAP goal of 50 µg/L at 0.52 µg/L (RW-06), 0.71 µg/L (RW-13), and 3.6 µg/L (RW-15); and
- VC was detected in three recovery wells at 2.0 µg/L (RW-04), 9.3 µg/L (RW-16), and 20 µg/L (RW-10). VC was not detected at the Site until EISB activities began in 2004. The VC concentrations are an intermediate daughter product resulting from EISB dechlorination and are anticipated to eventually dissipate.

Additional analyte detections included 2-butanone (MEK) in well RW-06 at 75 µg/L. There is no established CAP goal or MCL for MEK.

VOC concentrations in recovery wells are generally stable or decreasing. However, 1,1-DCE concentrations in well RW-10 have increased from below 2.0 µg/L in April 2017 to 45 µg/L in May 2020, but remain below CAP goals. In well RW-16, VOC concentrations increased between May 2018 and May 2020, including 1,1-DCE from less than 1.0 µg/L to 4.7 µg/L, *cis*-1,2-DCE from 1.4 µg/L to 12 µg/L, and VC from 0.98 µg/L to 9.3 µg/L. 1,1-DCE in well RW-11 remains above CAP goal of 60 µg/L at 66 µg/L, but has decreased from the Baseline concentration of 160 µg/L in March 2020. Well RW-11 is located downgradient of the EISB injection area and

injected substrates are anticipated to stimulate reductive dechlorination processes in the vicinity for further reduction of concentrations.

Results of May 2020 recovery well sampling are summarized in Table 4. Historical recovery well concentrations from 1995 to present for 11 constituents of concern are summarized in Table C2 in Appendix C. Select historical VOC concentration trends in the recovery wells are illustrated in Graphs RW-01 through RW-16. The laboratory reports are provided in Appendix D.

3.0 EISB INJECTION ACTIVITIES

LARWQCB approved CAP Addendum No. 5 (OTIE, 2015) in April 2016 for the implementation of the proposed EISB and ISCO programs in four treatment areas. In December 2018, the LARWQCB revised the M&RP to include the monitoring requirements for EISB injections planned at the North-Central Barriers and Former Tank T3 Area. The RPM program detailed in the M&RP includes collecting samples for water indicator parameters at the Site and off-site laboratory analyses prior to injections (Baseline) and quarterly following injection activities.

Baseline sampling was performed on March 9, 2020 and documented in the *First Quarter 2020 Remedial Progress Monitoring Report* (OTIE, 2020). Baseline results are presented in Table 5 and on Figure 5.

EISB injection activities were performed in April 2020 and are summarized in the following sections.

3.1. PROJECT TREATMENT AREAS AND DEVIATIONS FROM CAP

The EISB remedial injections were conducted per the CAP Addendum No. 5 (OTIE, 2015) in the following treatment areas (Figures 2 and 5):

- North-Central Barriers
- Former Tank T3 Area

The North-Central Barriers include east and southwest treatment areas focused on residual DCE and/or VC concentrations around wells RW-6, RW-14, CM-2D, and MW-23. Injection points were designed to form a barrier-like treatment zone for groundwater migrating northwest and westerly toward and away from these wells. Injection points proposed in CAP Addendum No. 5 for the eastern treatment area included sparge well S-15, the sparge well at SW/VW-16, onsite injection wells IP-22 and IP-23, and offsite injection wells IP-26 and IP-27. Injection points proposed for the southwest treatment area included sparge well S-11; sparge wells at SW/VW-2, SW/VW-3 and SW/VW-5; and injection well IP-21.

Once the CAP addendum was approved, Raytheon requested access from LADWP to install proposed injection wells IP-26 and IP-27 along the southern boundary of their Chatsworth Reservoir property, adjacent and to the north of the Site. LADWP had not issued an access agreement as preparations were being made for the injection event and therefore a modification to the injection program was required. OTIE submitted a request to replace injection points IP-26 and IP-27 with existing on-site sparge wells S-10 and S-16 and LARWQCB approved the modification in an email dated March 13, 2020, prior to mobilization. During the injection activities, wells SW/VW-2 and SW/VW-5 were discovered to have broken well casings. Volumes of substrate intended for these wells were injected into wells IP-21 and SW/VW-3 within the same treatment area.

The Former Tank T3 Area is located along the northern edge of the Site and addresses remaining VOC concentrations in the area. Sparge/vapor extraction well SW/VW-27 was the proposed injection point for this area, however, the well casing was found to be broken and unable to receive substrate injections. Replacement injection well IP-03 was approved by LARWQCB in an email on April 23, 2020.

A well construction summary is included in Table 3.

3.2. SUBSTRATE SELECTION AND DOSAGE

A variety of amendments are available to be added to EISB systems, as described in the CAP Addendum No. 5 (OTIE, 2015). Based on a site-specific evaluation and historical usage, the substrates selected for this EISB project were food-grade sodium lactate, emulsified vegetable oil (EVO), and bioaugmentation culture. EVO was selected because it degrades less quickly than other products and, therefore, the performance period of the substrate is extended. The EOS® PRO formulation of EVO selected for use contains a fast-release soluble substrate to help kick-start the biodegradation of VOCs, and a longer-lasting emulsified soybean oil. Sodium lactate, a soluble substrate, generally degrades and disperses rapidly resulting in effective delivery and kick-off of a rapid biodegradation process. However, the use of sodium lactate as the sole substrate generally requires replenishment every several months as the organic acids can fully degrade before the dechlorination process is complete.

The commercially available bioaugmentation culture, BAC-9™, was selected to ensure that maximum biodegradation rates and furthest extent of dechlorination are achieved during the EISB process. The bioaugmentation culture provides a microbial consortium consisting of various *Dehalococcoides mccartyi* (DHC) strains that can fully dechlorinate PCE, TCE, *cis*-1,2-DCE and VC to ethane and ethene.

The calculations for determining the volumes of EOS® PRO required for each of the treatment areas were included in the CAP Addendum No. 5 (OTIE, 2015). The revised M&RP (LARWQCB, 2018) approved the injection of an estimated 22,990 gallons of substrate containing 1,595 gallons of EOS® PRO, 495 gallons of sodium lactate, and 13 gallons (48 liters) of BAC-9™ into 12 injection points between approximately 39 and 55 feet bgs.

The April 2020 EISB injections included approximately 22,016 gallons of substrate containing 1,583 gallons of EOS® PRO, 465 gallons of sodium lactate, and 48 liters of BAC-9™ injected into 10 injection points.

3.3. SUBSTRATE DELIVERY PROGRAM

Prior to the injection of the substrate solution (water, sodium lactate, EOS® PRO, and BAC-9™), wells were primed from the surface with approximately 4 gallons of sodium lactate and 1.5 grams of vitamin B12 powder (per manufacturer recommendations) into each of the injection points under their natural anaerobic conditions.

Municipal water was transferred into two 6,500-gallon polyethylene aboveground storage tanks (ASTs) near the injection areas prior to the start of injections. The municipal water was treated with sodium lactate to achieve anaerobic conditions (low DO and ORP) prior to mixing with substrate and injection into the wells. Suction hose was connected to the outlet of the tank to a transfer pump (Grundfos® Model CRN 1-9). Anaerobic water was transferred from the ASTs through flexible hose using the transfer pump to a portable injection system equipped with a metering chemical injector (Dosatron® D14MZ10-14 gpm) to control dosing of substrate and amended water. A wellhead assembly was constructed with flexible hose to connect the outlet of the chemical injector to the injection well. An instantaneous flow meter and flow totalizer were utilized to determine the injected flow rate and volumes, respectively, at each well. Pressures and flow rates were monitored and recorded during injections at each well.

Mixing and injection equipment and reagent were stored within a chemical-resistant secondary containment area during injections. A schematic of the mixing and injection system was provided as Figure 7 in CAP.

3.3.1. North-Central Barriers Injections

EISB injections were performed in the North-Central Barriers at the east and southwest barriers between April 13 and 24, 2020.

- East area injection wells were divided into East Area A (IP-22, S-15-M, and S-16-M) and East Area B (IP-23, SW/VW-16).
- Southwest barrier wells were divided into West Area A (IP-21) and West Area B (S-10-M, S-11-D, and SW/VW-3) used for injections. Wells SW/VW-2 and SW/VW-5 were found to have broken casing and were unable to receive substrate.

The injection wells are screened between approximately 39 and 55 feet bgs (Table 6).

Approximately 4 gallons of sodium lactate and 1.5 grams of Vitamin B12 were added to each injection well prior to substrate injection, according to manufacturer recommendations. Each injection well received approximately 4.89 liters of BAC-9™. BAC-9™ was injected in doses during the injection program with half the total volume (2.44 liters) injected with the first 10 gallons of substrate; a quarter of the volume (1.22 liter) injected at 1/3 of total substrate volume; and the final quarter volume (1.22 liter) injected at 2/3 of total substrate volume. Each injection well was designed to receive a total of approximately 40 gallons of sodium lactate and 140 gallons of EOS® PRO mixed with 1,600 gallons of anaerobic water. Between 1,369 and 3,323 gallons of substrate solution were injected at each injection point at rates ranging from 0.7 to 6.1 gallons per minute (gpm), with corresponding injection pressures ranging from 10 to 35 pounds per square inch gauge (psig). Approximately 100 gallons of anaerobic water was injected into each well at the end of the injection process to flush and rinse the well casing and injection equipment. Table 6 summarizes the injection details.

Nearby wells were monitored for influence during injections. Wells RW-14, S-15(S,M,D), S-16(S,M,D), SW/VW-16, SW/VW-19, SW/VW-20, MW-36, and IP-23 were monitored for influence during East Area A injections. Mounding and visual evidence of substrate were noted in well RW-14. Wells CM-2D, RW-06, and VE-1 were monitored during East Area B injections. Mounding and visual evidence of substrate were noted in wells CM-2D and RW-06. A maximum distance of influence of approximately 15 feet was observed in well RW-14 during injections at well IP-22.

Wells MW-23 and SW/VW-5 were monitored for influence during injections at southwest barrier West Area A, and wells RW-11, S-9(S,M,D), S-10(S,M,D), S-11(S,M,D) were monitored for influence during injections at West Area B. Mounding and evidence of substrate were noted in wells RW-11, SW/VW-3, and SW/VW-5. A maximum distance of influence of approximately 28 feet was observed in well RW-11 during injections at well S-10-M.

3.3.2. Former Tank T3 Area Injections

Former Tank T3 Area injections were conducted on April 23, 2020. Injection well IP-03 replaced proposed injection point SW/VW-27 due to a broken casing. Approximately 4 gallons of sodium lactate and 1.5 grams of Vitamin B12 were added to well IP-03 prior to substrate injections. Well IP-03 (screened 40 to 60 ft bgs) received approximately 4.0 liters of BAC-9™ injected in doses, with half the total volume (2.0 liters) injected with the first 10 gallons of substrate; a quarter volume (1.0 liter) injected at 1/3 of the total substrate volume; and the final quarter volume (1.0 liter) injected at 2/3 of total injection volume. Well IP-03 received approximately 55 gallons of sodium lactate and 55 gallons of EOS® PRO mixed with 1,028 gallons of anaerobic water.

Approximately 100 gallons of anaerobic water was injected into the well at the end of the injection process to flush and rinse the well casing and injection equipment. Approximately 1,238 gallons of the substrate solution and rinse water was injected at IP-03 at rates ranging from 4 to 6 gpm with corresponding injection pressures of 4 psig. Table 6 summarizes the injection details.

4.0 QA/QC SAMPLE RESULTS

Calscience analyzed all groundwater samples and data were validated by an OTIE Chemist. The complete laboratory reports are provided in Appendix D. Sections below summarize data validation of field and laboratory QA/QC samples (Table 7).

4.1. FIELD QA/QC SAMPLES

Field QA/QC measures included the collection and analysis of a field duplicate sample at a 10% frequency, and one trip blank per sample shipment. A total of 23 normal samples, 3 field duplicate samples, and 2 trip blank samples were collected and analyzed.

Field duplicate samples are collected and analyzed as an indication of overall precision. The following field duplicate sample pairs were collected:

- Well CM-4D (sample DUP1-202105 duplicate of sample CM-4D-202105);
- Well MW-37 (sample DUP3-202105 duplicate of sample MW-37-202105); and
- Well RW-16 (sample DUP2-201905 duplicate of sample RW-16-201905).

Evaluation of the precision was accomplished by calculating the relative percent difference (RPD) of detected compounds in the field samples and field sample duplicates. The RPD calculated for each field duplicate pairs listed above were below the established control limit of 40%. Initial duplicate pair results for well RW-16 exceeded control limits and OTIE requested that Calscience re-run the associated samples due to suspect RPD values. Results for the confirmation run analysis were below the RPD control limit of 40% and are included herein and provided in Appendix D.

Trip blanks are used to determine whether the samples may have been contaminated by VOCs during shipment, handling, or storage on Site and at the laboratory. Two trip blank samples were submitted and no VOCs were detected.

4.2. LABORATORY QA/QC SAMPLES

Laboratory QA/QC procedures were carried out in accordance with EPA method specifications and the data was accepted based on the QA/QC criteria established by the EPA. All groundwater samples were shipped under appropriate chain of custody protocol at the method-specified temperature limit (4°C ± 2°C) and all sample analyses were completed within the prescribed holding time.

Laboratory blanks were analyzed as required by the analytical methods. No contaminants were found in the laboratory blanks. All surrogate percent recoveries were within QC limits.

Laboratory control samples and laboratory control sample duplicates were analyzed as required by the analytical methods. All percent recoveries and RPDs were within QC limits.

Matrix spike/ matrix spike duplicates were analyzed as required by the analytical methods. All percent recoveries and RPDs were within QC limits.

5.0 SUMMARY AND CONCLUSIONS

The semiannual Site-wide groundwater monitoring event was conducted between May 18 and 21, 2020, per rescinded M&RP No. CI-8947. Field activities and data results from the May 2020 sampling event are summarized below. In addition, EISB injections were implemented in the North-Central Barriers and Former Tank T3 Area in April 2020. Activities were performed in accordance with the approved CAP Addendum No. 5 and WDR Order No. R4-2014-0187 (Series No. 076) and are summarized below.

5.1. MAY 2020 SITE-WIDE SEMIANNUAL SAMPLING

- Site-wide gauging was performed May 18, 2020 for 44 monitoring and recovery wells. Depths to water ranged from 9.89 feet (well MW-19D) to 58.94 feet btoc (well CM-19). Groundwater elevations ranged from 836.98 feet (well MW-44) to 856.33 feet amsl level (well VW-122). The average groundwater elevation was 2.24 feet higher in May 2020 than during the previous Site-wide gauging event in November 2019. The apparent groundwater gradient in the northwest portion of the Site was approximately 0.030 ft/ft west. The apparent groundwater gradient over the north-central and northeast portions of the Site ranged from 0.024 ft/ft southeast to 0.025 ft/ft southwest. Depth to water measurements and average groundwater gradients for this event are consistent with historical trends.

- Monitoring wells CM-4D, CM-7D, CM-8D, CM-16, MW-15, MW-16, MW-19S, MW-19D, MW-20S, MW-37, and MW-39 were purged and sampled for VOC analysis between May 19 and 21, 2019. Well CM-2D was not sampled due to the presence of substrate from the April 2020 injections.

- VOCs were detected in 6 of the 11 monitoring wells sampled. VOCs were not detected in monitoring wells CM-7D, MW-15, MW-19S, MW-19D, and MW-20S. Concentrations of VOCs did not exceed CAP goals in any monitoring well sampled.

- The maximum concentrations of VOCs detected in monitoring wells include: chloroform at 4.6 µg/L (MW-37); 1,1-DCA at 3.1 µg/L (CM-4D); 1,2-DCA at 2.8 µg/L (CM-4D); *cis*-1,2-DCE at 3.2 µg/L (CM-4D); TCE at 5.4 µg/L (MW-37); TCFM at 1.8 µg/L (MW-37); VC at 32 µg/L (MW 39); and chloroethane at 3.2 µg/L (CM-4D).

- Recovery wells sampled in May 2020 include RW-01, RW-04 through RW-11, RW-13, RW-15, and RW-16. Recovery well RW-02 was unable to be sampled due to obstruction and well RW-14 was not sampled due to the presence of injection substrate in the well. VOCs were detected in 8 of the 12 recovery wells sampled. VOCs were not detected in recovery wells RW-05, RW-07, RW-08, and RW-09. VOC concentrations exceeded CAP goals only in well RW-11, with 1,1-DCE exceeding the CAP goal of 60 µg/L at 66 µg/L.

- The maximum concentrations of other VOCs detected in recovery wells below CAP goals include: benzene at 0.75 µg/L (RW-06); 1,1-DCA at 1.5 µg/L (RW-10); *cis*-1,2-DCE at 12 µg/L (RW-16); PCE at 1.3 µg/L (RW-15); TCE at 3.6 µg/L (RW-15); and VC at 20 µg/L (RW-10).

5.2. SECOND QUARTER 2020 REMEDIAL PROGRESS MONITORING

EISB injections were implemented in the North-Central Barriers and Former Tank T3 Area in April 2020 to address residual contamination in the area around wells RW-06, RW-14, CM-2D, and MW-23, and in the Former Tank T3 area. Activities were performed in accordance with the approved CAP Addendum No. 5 and are summarized below:

- Subsurface injections were performed between April 13 and 24, 2020 at nine injection points in the North-Central Barriers Area (IP-21, S-10-M, S-11-D, SW/VW-3, IP-22, IP-23, S-15-M, S-16-M, and SW/VW-16) and at one injection point (IP-03) in the Former Tank T3 Area. Panned injection points SW/VW-2 and SW/VW-5 were discovered to have damaged casings and were unable to receive injection substrate.
- Approximately 465 gallons of sodium lactate; 1,583 gallons of EOS® PRO; and 48 liters of BAC-9™ were mixed with 19,955 gallons of anaerobic water and injected into the 10 injection points between approximately 39 and 60 feet bgs.

As there are no post-injection data to compare with Baseline results, a more thorough discussion of results will be included in the next remedial progress monitoring report. The Month #3 post-injection sampling event will be conducted in August 2020, per the revised M&RP. The EISB RPM results will be reported in the third quarter 2020 remedial progress report to be submitted by October 30, 2020.

6.0 REFERENCES

Hughes. 1992. *Corrective Action Plan for Hughes Missile Systems Company, Canoga Park, California.* November 13.

Oneida Total Integrated Enterprises, LLC. (OTIE). 2013. *Corrective Action Plan Addendum No. 4, Work Plan for In Situ Chemical Oxidation, Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California.* May.

OTIE. 2015. *Corrective Action Plan Addendum No. 5, Work Plan for In Situ Chemical Oxidation and Enhanced In Situ Bioremediation, Former Canoga Park Site, 8433 Fallbrook Avenue, Canoga Park, California*. December 15.

_____. 2020. *First Quarter 2020 Remedial Progress Monitoring Report, Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California*. April 30.

Los Angeles Regional Water Quality Control Board, Los Angeles Region (LARWQCB), 2010. *Final Order – Termination of Waste Discharge Requirements for Former Hughes Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park, California (Order No. R4-2010-0162, CI-7483)*, September 16.

LARWQCB. 2014. *Revised Monitoring and Reporting Program No. CI-8947, Raytheon Company (Former Hughes Missile Systems Company), 8433 Fallbrook Avenue, Canoga Park, California, (File No. 94-45, Order No. R-2007-0019, Series No. 092, CI-8947, Global ID. WDR100000976)*. January 22.

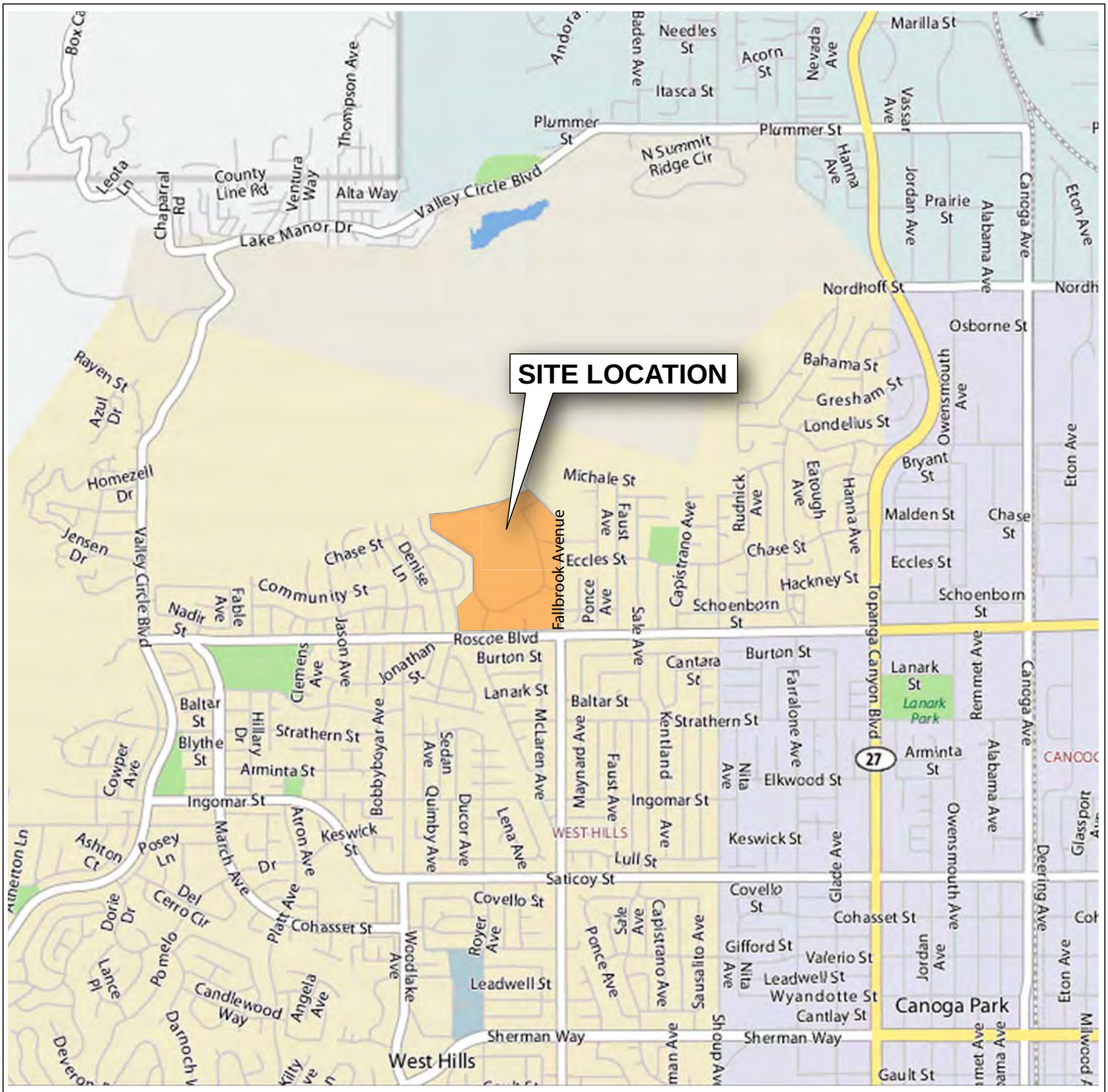
LARWQCB. 2016a. *Conditional Approval of Corrective Action Plan Addendum No. 5, Work Plan for In Situ Chemical Oxidation and Enhanced In Situ Bioremediation; Raytheon Company (Former Hughes Missile Systems Company), 8433 Fallbrook Avenue, Canoga Park, California, (SCP No. 0693, Site ID No. 2043T00)*. April 26.

LARWQCB. 2016b. *General Waste Discharge Requirements and Revised Monitoring and Reporting Program No. CI-8947; Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California, (File No. 94-45, Order No. R4-2014-0187, Series No. 076, CI-8947, Global ID. WDR100000974)*. September 19.

LARWQCB. 2018. *Revised Monitoring and Reporting Program No. CI-8947; Former Raytheon Systems Company, 8433 Fallbrook Avenue, Canoga Park, California, (File No. 94-45, Order No. R4-2014-0187, Series No. 076, CI-8947, Global ID. WDR100000974)*. December 7.

TN & Associates, Inc. (TN&A). 2008. *Corrective Action Plan Addendum No. 3 - Work Plan for Additional Enhanced In Situ Bioremediation and In Situ Chemical Reduction Activities, Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California*. September.

Figures



Source: Map data from Yahoo, Inc./NAVTEO 2009



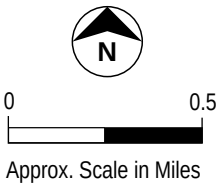


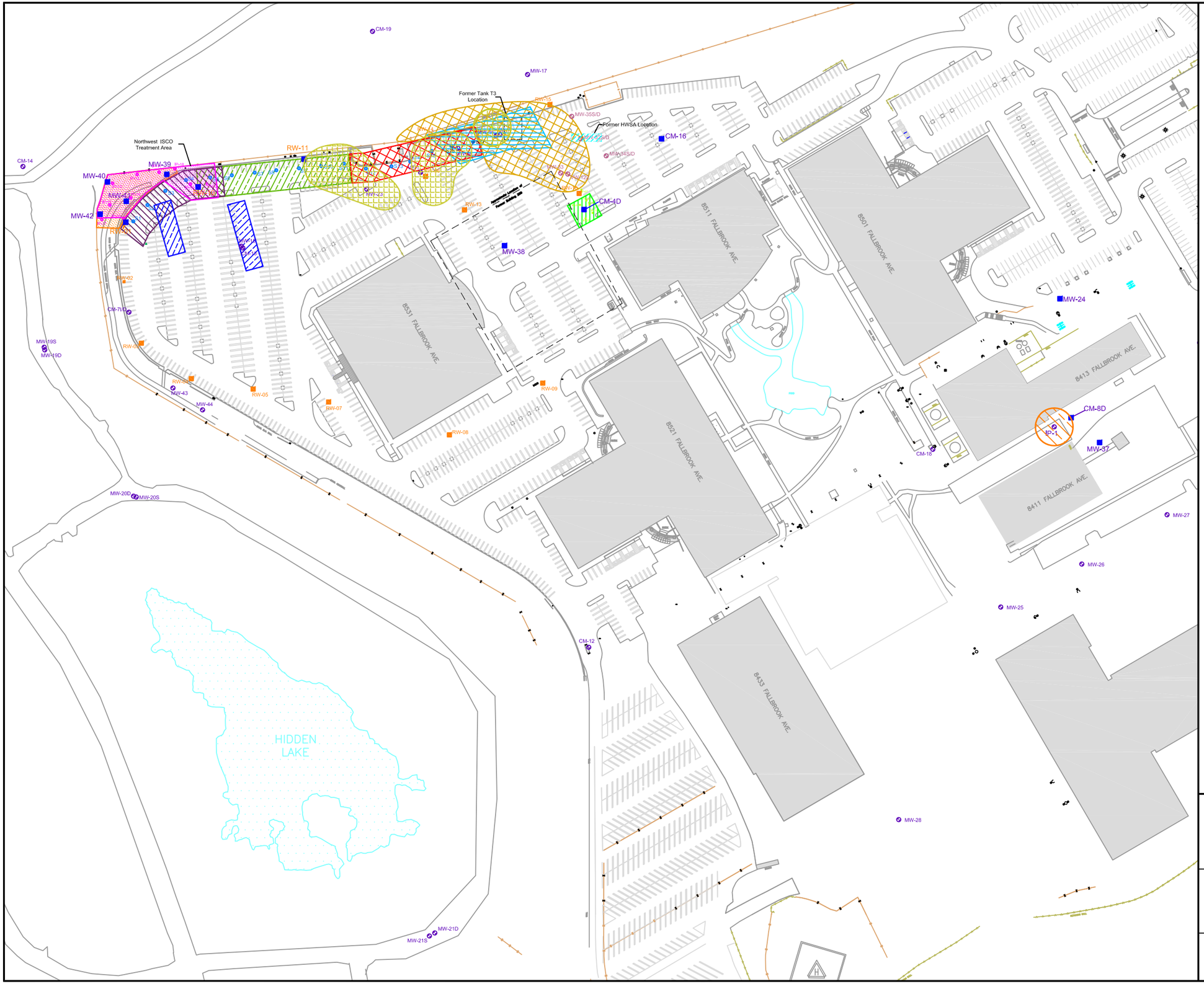
FIGURE 1

Site Vicinity Map

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

OTIE
An Oneida Nation Company

Site vicinity map_v6 8-10tll



Legend

MW-# CM-#	Groundwater Monitoring Well
RW-#	Groundwater Recovery Well
VW-#	Vapor Extraction Well
MW-#	Former Hazardous Waste Storage Area Monitoring Well
SW/VW-#	Air Sparge/Vapor Extraction Well
S#	Triple Nested Sparge Well

Treatment Areas

Treatment Area "A" EISB - Oct 2005	Phase I
Treatment Area "B-I" EISB - Oct 2005	Phase I
Treatment Area "B-II" EISB - May 2006	Phase II
Treatment Area "C" EISB - May 2006	Phase II
Treatment Area "D" EISB - Dec 2006 and Nov 2016	Phase III and CM-8D Area
Treatment Area "E" EISB - Nov 2009	Phase IV
Treatment Area "H" ISCR - Jun 2010	Phase V
CM-4D Area EISB - May 2011 and Dec 2016	Phase VI and CM-4D Area
Treatment Area "F" EISB - Sep 2012	Phase VII
Northwest Perimeter Area ISCO - Jul 2014	Phase VIII
Northwest Area ISCO - March 2017	Northwest Area ISCO
North-Central Barriers and Former Tank T3 Area EISB - April 2020	North-Central Barriers and Former Tank T3 Area EISB

Notes

1) EISB = enhanced *in-situ* bioremediation
2) ISCR = *in-situ* chemical reduction
3) ISCO = *in-situ* chemical oxidation

N
W E
S

Approximate Scale in Feet

0 150 300

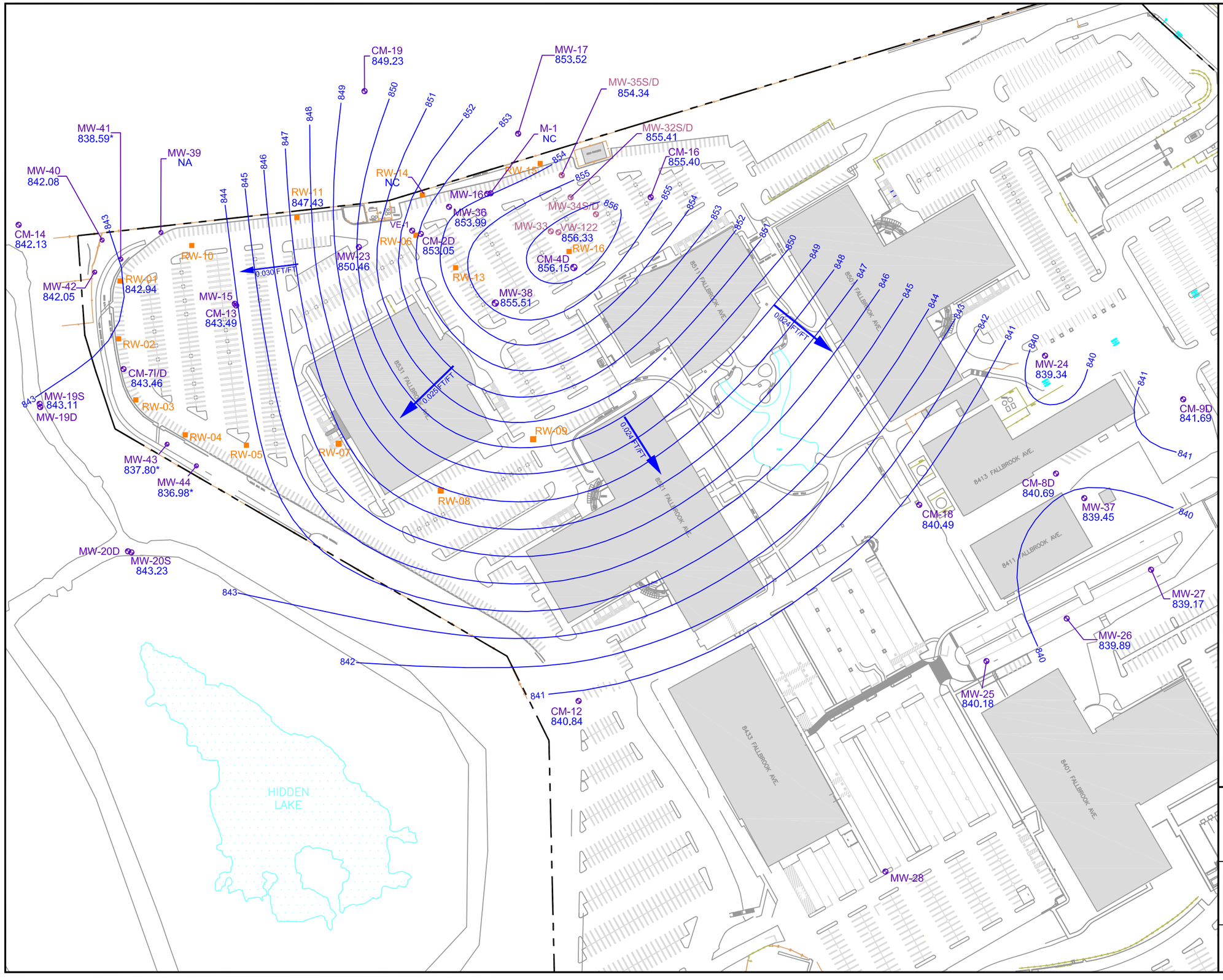
Figure 2
Site Plan Showing Remedial Treatment Areas

Former Canoga Park Facility
8433 Fallbrook Ave, Canoga Park, California

ONEIDA Total Integrated Enterprises

Date: April 2020

File: Canoga_EISB.dwg



Legend

- MW-# / CM-# — Groundwater Monitoring Well
- RW-# — Groundwater Recovery Well
- MW-# — Former Hazardous Waste Storage Area Monitoring Well
- 835.57 — Groundwater Elevation (feet above mean sea level)
- 848 — Groundwater Contour (Dashed where estimated)
- Apparent Groundwater Flow Direction and Gradient (feet per foot)

Notes

1) Depth to water gauged May 18, 2020.
2) Contour interval = 1 foot
3) Contours represent approximate elevations above mean sea level. Estimated contours are based on historical data.
4) NA = not available; NC = not calculated due to the presence of substrate.
5) Groundwater elevation values with an asterisk (*) were not used for contouring.
6) Wells screened in the deeper zones were not used in this shallow groundwater elevation map.

N
W E
S

Approximate Scale in Feet

0 150 300

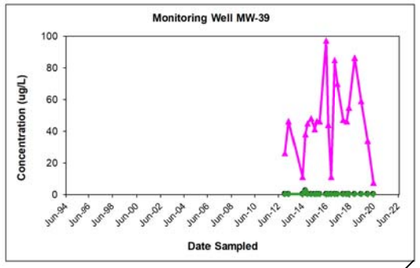
Figure 3
Groundwater Gradient Map
May 2020

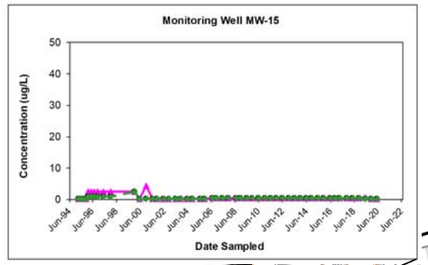
Former Canoga Park Facility
8433 Fallbrook Avenue, Canoga Park, California

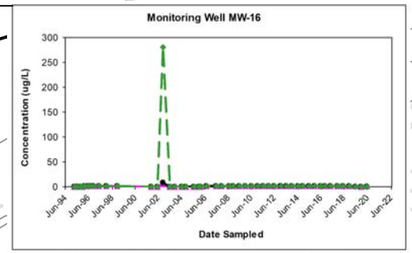
ONEIDA Total Integrated Enterprises

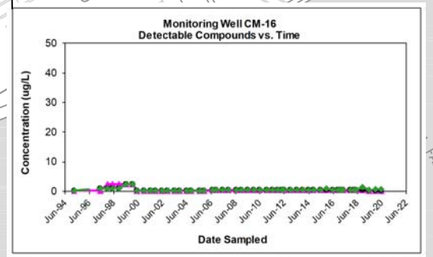
Date: June 2020

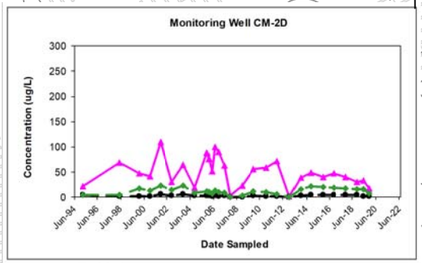
File: Fig 4 GWE.dwg

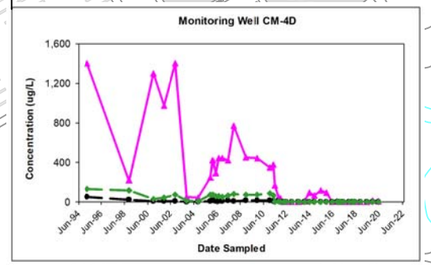


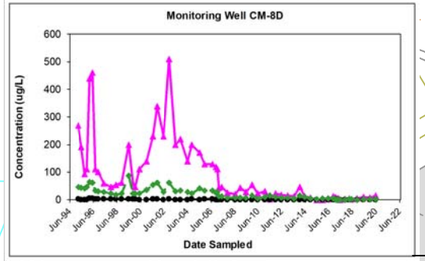


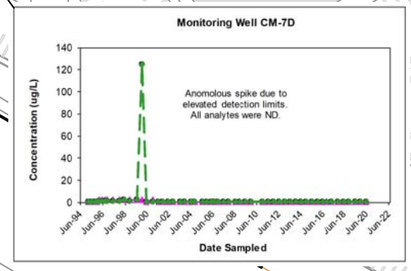


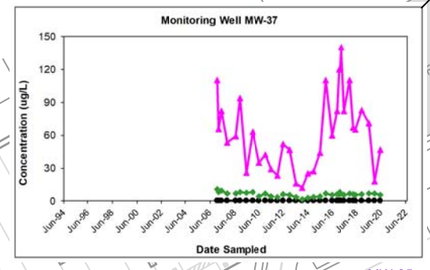












MW-19S	ALL SELECTED CHEMICALS - ND	03/95-05/20
MW-19D	ALL SELECTED CHEMICALS - ND	03/95-05/20

MW-20S	ALL SELECTED CHEMICALS - ND	03/95-05/20

Approximate Scale in Feet

0 120 240

Legend

- MW-# / CM-# — Groundwater Monitoring Well
- RW-# — Groundwater Recovery Well
- VW-# — Vapor Extraction Well
- MW-# — Former Hazardous Waste Storage Area Monitoring Well

Graph Legend

- 1,1-Dichloroethene (1,1-DCE)
- Tetrachloroethene (PCE)
- Trichloroethene (TCE)

WELL ID	SELECTED CHEMICALS	DATES

Selected Chemicals	Corrective Action Plan (CAP Goals (ug/L)
1,1-Dichloroethene	60
Tetrachloroethene	50
Trichloroethene	50

Notes

1. All concentrations in micrograms per liter.
2. Most recent sampling event conducted May 2020.
3. Non-detected values graphed as half the detection limit. See Table 4 for specific concentrations and detection units.

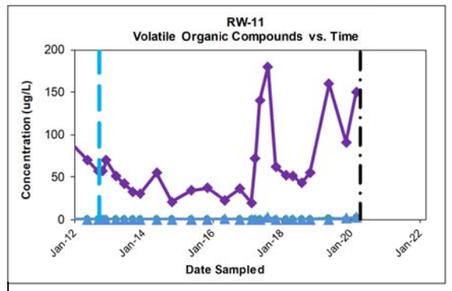
Figure 4
Site Plan Showing Concentration Trends Versus Time in Groundwater

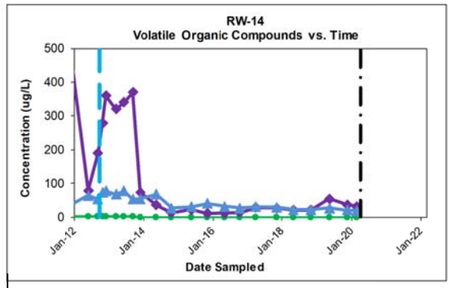
Former Canoga Park Facility
8433 Fallbrook Avenue, Canoga Park, California

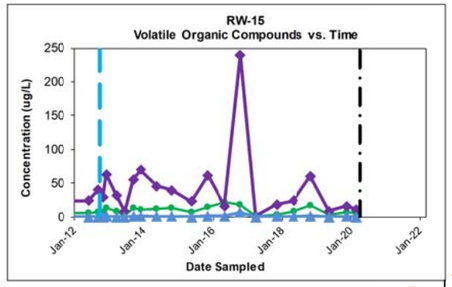
ONEIDA Total Integrated Enterprises

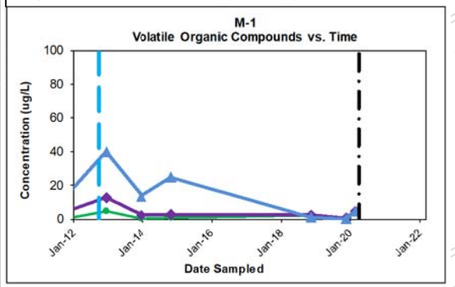
Date: June 2020

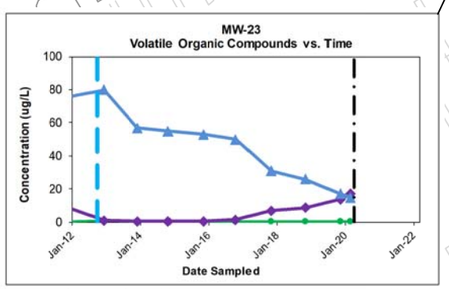
File: fig4 1SA20 grphs.dwg

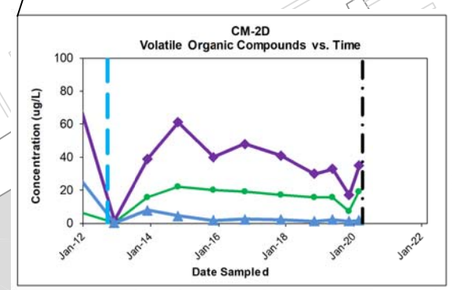












Former Tank T3 Location

ASPHALT DITCH

TANKS

RW-11 RW-14 RW-15 RW-6 RW-13

S-7 S-8 S-9 S-10 S-11 S-12 S-13 S-14 S-15 S-16 S-17

IP-02 IP-03 IP-04 IP-05 IP-06 IP-21 IP-22 IP-23

M-1 MW-16 MW-23 MW-36 MW-38

VE-1 CM-2D

VW-128

SW/VW-1 SW/VW-2 SW/VW-3 SW/VW-4 SW/VW-5 SW/VW-6 SW/VW-8 SW/VW-9 SW/VW-10 SW/VW-12 SW/VW-15 SW/VW-16 SW/VW-17 SW/VW-18 SW/VW-19 SW/VW-20 SW/VW-21 SW/VW-22 SW/VW-23 SW/VW-24 SW/VW-26 SW/VW-27 SW/VW-28

Legend

- MW-# / CM-# — Groundwater Monitoring Well
- RW-# — Groundwater Recovery Well
- S# — Triple Nested Sparge Well
- IP-# — Injection Well
- SW/VW-# — Air Sparge/Vapor Extraction Well
- IP-# / S-# / SW/VW-# — North-Central Barriers and Former Tank T3 EISB Injection Well

Graph Legend

- Trichloroethene (TCE)
- 1,1-Dichloroethene (1,1-DCE)
- Vinyl Chloride (VC)
- Phase VII EISB Injections - Sept 2012
- EISB Injections - Apr 2020

Notes

1) All results are in micrograms per liter (µg/L).
2) For wells with duplicate pairs, the highest concentrations are shown.

N W E S

Approximate Scale in Feet

0 40 80

Figure 5
Concentration Trends for Select COCs - North-Central Barriers and Former Tank T-3 Area EISB

Former Canoga Park Facility
8433 Fallbrook Ave, Canoga Park, California

ONEIDA Total Integrated Enterprises

Date: July 2020

File: Fig 5 EISB.dwg

Tables

Table 1

EISB/ISCR/ISCO Program Overview

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California

Injection Phase:	**EISB PhI**		**EISB PhII**			**EISB PhIII**	**EISB PhIV**	**ISCR PhV**	**EISB PhVI**	**EISB PhVII**	**ISCO PhVIII**	**EISB**	**EISB**	**ISCO**	**EISB**
Treatment Area:	Area "A"	Area "B-I"	Area "A"	Area "B-II"	Area "C"	Area "D" (CM-8D Area)	Area "E" (Northwest Area)	Area "H" (HWSA)	Area "G" (Former Bldg 269)	Area "F" (Former Tank T3)	Northwest Perimeter	CM-8D Area	CM-4D Area	Northwest Area	North-Central Barriers / Tank T3
Injection points:	DPT points	S-12 through S-17	SW/VW-27	S-5 through S-11	DPT points	IP-1	S-1 through S-5	IP-HWSA-01 through IP-HWSA-04	IP-07 through IP-10	IP-02 through IP-06, S-16, S-17	IP-11 through IP-17	IP-1	IP-08, IP-09, IP-10, IP-24, and IP-25	IP-13, IP-14, IP-15, IP-17, IP-18, IP-19, and IP-20	IP-03, IP-21 through IP-23, S-10, S-11, S-15, S-16, SW/VW-3, SW/VW-16
No. of injection points:	27	18	1	21	14	1	5	4	4	7	7	1	5	7	10
Injection depths (feet bgs):	30 - 50	34 - 50	50 - 55	29 - 50	30 - 52	50 - 70	29 - 50	30 - 50	40 - 60	45 - 60	25 - 50	50 - 70	40 - 60	25 - 50	39 - 55
Substrate injections:	10/3-7/05	10/6-8/05	5/24/06	5/23-24/06	5/22-23/06	12/28/06	10/26/09 - 11/3/09	6/16-17/10	5/9-11/11	9/24-27/12	7/1-23/14	11/14-18/16	11/29/16 - 12/1/16	3/13-23/17	4/13-4/24/20
RPM wells:	CM-2D CM-4D M-1 MW-16 MW-17 MW-35S MW-35D RW-14 RW-15	MW-17 MW-23 RW-11 RW-14	CM-2D CM-4D M-1 MW-16 MW-17 MW-35S MW-35D RW-14 RW-15	MW-17 MW-23 RW-11 RW-14	CM-7D CM-13 RW-01 RW-10 RW-11	CM-8D MW-24 MW-37	RW-01 RW-02 RW-10 RW-11	MW-32S MW-32D MW-33 MW-35S MW-35D VW-122	CM-16 CM-4D MW-38	RW-11 RW-14 RW-15	RW-01 MW-39 MW-40 MW-41 MW-42	CM-8D MW-24 MW-37	CM-16 CM-4D MW-38	RW-01 RW-10 RW-11 MW-39 MW-40 MW-41 MW-42	RW-11 RW-14 RW-15 CM-2D MW-23 M-1
Summary Reference for Injection Activities:	*Enhanced In Situ Bioremediation Progress Report, Fourth Quarter 2005* TN&A, Jan 2006		*Enhanced In Situ Bioremediation Progress Report, Third Quarter 2006* TN&A, Oct 2006			*Enhanced In Situ Bioremediation Progress Report, First Quarter 2007* TN&A, May 2007	*Enhanced In Situ Bioremediation Progress Report, Fourth Quarter 2009 and Annual Summary 2009* OTIE, Feb 2010	*Enhanced In Situ Bioremediation and In Situ Chemical Reduction Progress Report, Second Quarter 2010* OTIE, Aug 2010	*Enhanced In Situ Bioremediation and In Situ Chemical Reduction Progress Report, Second Quarter 2011* OTIE, Aug 2011	*Enhanced In Situ Bioremediation and In Situ Chemical Reduction Progress Report, Third Quarter 2012* OTIE, Nov 2012	*Third Quarter 2014 Remedial Progress Report,* OTIE, Oct 2014	*Enhanced In Situ Bioremediation Progress Report, Fourth Quarter 2016* OTIE, Jan 2017	*Enhanced In Situ Bioremediation Progress Report, Fourth Quarter 2016* OTIE, Jan 2017	*First Quarter 2017 Remedial Progress Report,* OTIE, Apr 2017	*Second Quarter 2020 Remedial Progress Report,* OTIE, Jul 2020
EISB/ISCR RPM Events															
Baseline	10/2/05		4/23/06			12/28/06	10/23-26/09	6/8/10	5/5/11	9/18/12	6/4/14	10/18/16	10/17/16	2/22/17	3/9/20
Month #1	11/13/05		--			--	11/30/09 - 12/3/09	7/7/10	6/16/11	11/6/12	--	12/28/16	12/28/16	--	--
Month #2	--		7/15-16/06			2/18/07	--	--	--	--	--	1/24/17	1/24/17	--	--
Month #3	1/21-22/06		--			--	2/2/10	9/16/10	9/22/11	12/10/12	9/3/14	2/21/17	2/21/17	5/24/17	August 2020
Month #6	4/23/06		11/4-5/06			5/14/07	6/9/10	12/21/10	11/30/11	3/26/13	11/3/14	5/22/17	5/23/17	8/16/17	November 2020
Month #9	7/15-16/06		2/18/07			8/24/07	9/15/10	3/15/11	3/27/12	6/20/13	2/11/15	8/17/17	8/17/17	11/8/17	February 2021
Month #12	11/4-5/06		5/13-14/07			11/4/07	12/20/10	6/8/11	5/31/12	9/18/13	6/2/15	11/7/17	11/7/17	3/1/18	May 2021
Month #15	--		--			--	--	--	--	12/5&9/13	8/5/15	2/28/18	2/27/18	5/9/18	NA
Month #18	5/13/07		11/4/07			6/30/08 - 7/2/08	6/9/11	12/7/11	12/11/12	--	11/17/15	5/8/18	5/8/18	8/9/18	NA
Month #21	NA		NA			NA	--	--	--	5/29/14	2/23/16	8/22/18	8/8/18	11/8/18	NA
Month #24	NA		NA			NA	11/29/11	6/4/12	6/19/13	--	5/19/16	11/6/18	11/7/18	NA	NA
Month #27	NA		NA			NA	--	--	--	11/4/14	8/9/16	NA	NA	NA	NA
Month #30	NA		NA			NA	5/30/12	12/4/12	12/10/13	--	NA	NA	NA	NA	NA
Month #33	NA		NA			NA	--	--	--	5/28/15	NA	NA	NA	NA	NA
Month #36	NA		NA			NA	12/10/12	6/13/13	5/28/14	--	NA	NA	NA	NA	NA
Month #39	NA		NA			NA	--	--	--	11/18/15	NA	NA	NA	NA	NA
Month #42	NA		NA			NA	6/9/13	12/17/13	11/4/14	--	NA	NA	NA	NA	NA
Month #45	NA		NA			NA	--	--	--	5/17/16	NA	NA	NA	NA	NA
Month #48	NA		NA			NA	12/9&11/13	NA	6/2/15	NA	NA	NA	NA	NA	NA
Month #54	NA		NA			NA	NA	NA	11/18/15	NA	NA	NA	NA	NA	NA
Month #60	NA		NA			NA	NA	NA	5/18/16	NA	NA	NA	NA	NA	NA

Notes:

1) feet bgs = feet below ground surface
2) EISB = enhanced *in situ* bioremediation; ISCR = *in situ* chemical reduction; ISCO = *in situ* chemical oxidation
3) RPM = remedial progress monitoring
4) Blue indicates a future monitoring event
5) "Summary Reference" refers to the document which presents the details for each of the injection events.
6) "NA" = Not applicable, M&RP requirement ended

Table 2
Depths to Water and Groundwater Elevation Data - May 18, 2020
Former Canoga Park Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well I.D.	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Screen Interval (ft, bgs)	Groundwater Elevation (ft, MSL)	Comments
M-1	28.68	882.42	50-70	NC	Substrate present
CM-2D	23.45	876.50	20-60	853.05	
CM-4D	31.31	887.46	20-60	856.15	
CM-7D	16.33	859.79	70-75	843.46	
CM-8D	49.50	890.19	30-70	840.69	
CM-9D	31.60	873.29	20-60	841.69	
CM-12	34.96	875.80	46-66	840.84	
CM-13	24.90	868.39	39-74	843.49	
CM-14	16.52	858.65	18-33	842.13	Stand pipe completion
CM-16	37.01	892.68	40-70	855.67	
CM-18	47.40	887.89	41-72	840.49	
CM-19	58.94	908.17	69-99	849.23	Stand pipe completion
MW-15	25.05	868.23	92-101.5	843.18	
MW-16	33.39	882.19	100-120	848.80	
MW-17	30.00	883.52	37-47	853.52	Stand pipe completion
MW-19S	17.55	860.66	20-30	843.11	
MW-19D	9.89	860.38	80-100	850.49	
MW-20S	14.80	858.03	30-40	843.23	
MW-20D	14.27	858.35	60-80	844.08	
MW-23	23.20	873.66	25-55	850.46	
MW-24	37.95	877.29	35-65	839.34	
MW-25	50.10	890.28	40-70	840.18	
MW-26	45.61	885.50	40-70	839.89	
MW-27	38.34	877.51	35-65	839.17	
MW-32S	31.69	887.10	35-45	855.41	
MW-35S	33.01	887.35	35-45	854.34	
MW-36	25.29	879.28	30-40	853.99	
MW-37	49.89	889.34	50-60	839.45	
MW-38	26.40	881.91	40.5-60.5	855.51	
MW-39	--	864.07	30-40	--	Obstruction at 14.4 ft
MW-40	14.61	856.69	26-41	842.08	
MW-41	24.95	863.54	25-40	838.59	
MW-42	18.42	860.47	25-40	842.05	
MW-43	17.56	855.36	26-41	837.80	
MW-44	18.25	855.23	26-41	836.98	
VW-122	29.10	885.43	25-40	856.33	
RW-01	18.62	861.56	10-50	842.94	
RW-02	16.74	--	10-50	--	Root obstruction at 16.8 ft
RW-10	18.62	--	15-55	--	
RW-11	21.74	869.17	25-65	847.43	
RW-14	24.92	874.37	10-50	NC	Substrate present
RW-15	32.69	--	29-69	--	
RW-16	31.32	--	25-65	--	

Notes:
1) ft = feet
2) TOC = top of well casing
3) MSL = Mean Sea Level, National Geodetic Vertical Datum of 1929 (NGVD29)
4) bgs = below ground surface
5) -- = data not available; NC = not calculated due to the presence of substrate

Table 3
Well Construction and Survey Data
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California

Well ID	Type	Date Installed	Drilling Method	Depth Zone/ Formation Screened	Northing or Latitude	Easting or Longitude	Top of Casing Elevation	Vault Cover Elevation	Casing Diameter (inches) & Type	Screen Interval (feet bgs)	Screen Slot Size (inches) & Type	Filter Pack Material	Constructed Total Depth (feet bgs)	Borehole Diameter (inches)
MONITORING WELLS														
M-1	Monitoring Well	12/09/88	Air-rotary	Modelo	--	--	882.42	--	4, PVC	50-70	0.030, PVC	No. 3 Sand	70	10
CM-2D	Monitoring Well	07/17/90	HSA	Modelo	1037.507	762.816	876.50	--	4, SS	20-60	0.020, Wire-Wrap SS	No. 3 Sand	60	12
CM-4D	Monitoring Well	08/09/90	Mud rotary	Modelo	907.386	980.709	887.46	--	4, SS	20-60	0.020, Wire-Wrap SS	No. 3 Sand	60	12
CM-7D	Monitoring Well	12/14/92	HSA	Modelo	971.037	239.806	859.79	--	3, PVC	70-75	0.020, PVC	--	75	14
CM-8D	Monitoring Well	06/19/90	HSA	Modelo	358.921	1620.624	885.52	--	4, SS	30-70	0.020, Wire-Wrap SS	No. 3 Sand	70	12
CM-9D	Monitoring Well	07/30/90	Mud rotary	Modelo	--	--	873.29	--	4, SS	20-60	0.020, Wire-Wrap SS	No. 3 Sand	60	12
CM-12	Monitoring Well	11/18/88	HSA	Alluvium	34.2232816	118.6285770	875.80	876.08	4, PVC	46-66	0.030, PVC	No. 3 Sand	65.5	12
CM-13	Monitoring Well	11/21/88	HSA	Alluvium	1015.209	443.494	868.39	--	4, PVC	39-74	0.030, PVC	No. 3 Sand	74	12
CM-14	Monitoring Well	11/10/88	HSA	Alluvium	1263.516	55.511	858.65	--	4, PVC	18-33	0.030, PVC	No. 3 Sand	33	12
CM-16	Monitoring Well	09/26/91	HSA	Modelo	34.2251415	118.6279341	892.41	892.68	4, SS	40-70	0.020, Wire-Wrap SS	No. 2/12 Sand	70	10
CM-18	Monitoring Well	09/30/91	HSA	Modelo	34.2237891	118.6264968	887.89	888.66	4, SS	41-72	0.020, Wire-Wrap SS	No. 2/12 Sand	70	10
CM-19	Monitoring Well	--	--	Alluvium	1326.088	687.961	908.17	--	4, PVC	69-99	0.020, PVC	--	99	10
MW-15	Monitoring Well	08/03/90	Mud rotary	Modelo	1018.556	442.350	868.23	--	4, SS	92-101.5	0.020, Wire-Wrap SS	No. 3 Sand	101.5	10
MW-16	Monitoring Well	07/20/90	Mud rotary	Modelo	1067.147	883.391	882.19	--	4, SS	100-120	0.020, Wire-Wrap SS	No. 3 Sand	120	10
MW-17	Monitoring Well	07/10/90	HSA	Alluvium	1143.878	960.388	883.52	--	2, SS	37-47	0.020, Wire-Wrap SS	No. 3 Sand	47	10
MW-19S	Monitoring Well	06/20/90	HSA	Alluvium	963.068	93.078	860.66	--	2, SS	20-30	0.020, Wire-Wrap SS	No. 3 Sand	30	10
MW-19D	Monitoring Well	06/20/90	HSA	Alluvium	958.817	92.700	860.38	--	2, SS	80-100	0.020, Wire-Wrap SS	No. 3 Sand	100	10
MW-20S	Monitoring Well	06/15/90	HSA	Alluvium	690.555	160.819	858.03	--	2, SS	30-40	0.020, Wire-Wrap SS	No. 3 Sand	40	10
MW-20D	Monitoring Well	06/18/90	HSA	Alluvium	693.120	157.087	858.35	--	2, SS	60-80	0.020, Wire-Wrap SS	No. 3 Sand	80	10
MW-23	Monitoring Well	09/25/91	HSA	Modelo	34.2249241	118.6294888	873.66	874.22	4, SS	25-55	0.020, Wire-Wrap SS	No. 2/12 Sand	55	10
MW-24	Monitoring Well	08/25/93	HSA	Modelo	34.2244362	118.6258216	877.29	877.66	4, PVC	35-65	0.020, PVC	No. 2/12 Sand	65	10
MW-25	Monitoring Well	08/23/93	HSA	Modelo	34.2230793	118.6261535	890.28	890.72	4, PVC	40-70	0.020, PVC	No. 2/12 Sand	70	10
MW-26	Monitoring Well	08/23/93	HSA	Modelo	130.661	1566.226	885.50	--	4, PVC	40-70	0.020, PVC	No. 2/12 Sand	70	10
MW-27	Monitoring Well	08/24/93	HSA	Modelo	164.493	1719.764	877.51	--	4, PVC	35-65	0.020, PVC	No. 2/12 Sand	65	10
MW-32S	Monitoring Well	06/14/00	HSA	Shallow	1021.581	1010.198	887.10	887.53	2, PVC	35-45	0.020, PVC	No. 3 Sand	45	10
MW-35S	Monitoring Well	06/13/00	HSA	Shallow	1059.600	1007.238	887.35	887.70	2, PVC	35-45	0.020, PVC	No. 3 Sand	45	10
MW-36	Monitoring Well	12/01/01	--	Modelo	34.2251010	118.6290094	879.28	879.65	4, PVC	30-40	0.010, PVC	--	40	--
MW-37	Monitoring Well	12/18/06	HSA	Shallow	34.2238322	118.6256113	889.34	889.73	4, PVC	50-60	0.010, PVC	No. 2/16 Sand	60	12
MW-38	Monitoring Well	04/25/11	HSA	Shallow	1904740.790	6371600.780	881.91	882.18	4, PVC	40.8-60.2	0.010, PVC	No. 2/16 Sand	60.7	10.5
MW-39	Monitoring Well	10/09/12	DPT	--	1904855.887	6371062.540	864.07	864.38	3/4, PVC	30-40	0.010, PVC	No. 2/16 Sand	40	2.25
MW-40	Monitoring Well	10/09/12	DPT	--	1904843.476	6370967.894	856.69	856.84	3/4, PVC	26-41	0.010, PVC	No. 2/16 Sand	41	2.25
MW-41	Monitoring Well	10/10/12	DPT	--	1904812.664	6370997.975	863.54	863.73	3/4, PVC	25-40	0.010, PVC	No. 2/16 Sand	40	2.25
MW-42	Monitoring Well	10/10/12	DPT	--	1904791.880	6370955.788	860.47	860.69	3/4, PVC	25-40	0.010, PVC	No. 2/16 Sand	40	2.25
MW-43	Monitoring Well	11/29/12	DPT	--	1904514.497	6371072.451	855.36	855.71	3/4, PVC	26-41	0.010, PVC	No. 2/16 Sand	41	2.25
MW-44	Monitoring Well	11/29/12	DPT	--	1904479.560	6371119.683	855.23	855.48	3/4, PVC	26-41	0.010, PVC	No. 2/16 Sand	41	2.25
VW-122	Monitoring Well	--	--	Shallow	973.799	972.572	885.43	--	3, PVC	25-40	0.020 V-Wrap	--	40	--

Table 3
Well Construction and Survey Data
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California

Well ID	Type	Date Installed	Drilling Method	Depth Zone/ Formation Screened	Northing or Latitude	Easting or Longitude	Top of Casing Elevation	Vault Cover Elevation	Casing Diameter (inches) & Type	Screen Interval (feet bgs)	Screen Slot Size (inches) & Type	Filter Pack Material	Constructed Total Depth (feet bgs)	Borehole Diameter (inches)
GROUNDWATER RECOVERY WELLS														
RW-01	Recovery Well	01/04/93	HSA	Alluvium	34.2247686	118.6307642	860.71	861.56	6	10-50	0.020, PVC	No. 3 Sand	50	14
RW-02	Recovery Well	12/21/92	HSA	Alluvium	1018.904	248.292	--	--	4	10-50	0.020, Wire-Wrap SS	No. 3 Sand	50	14
RW-03	Abandoned		HSA	Alluvium	919.747	243.929	--	--	6	10-50	0.020, PVC	No. 3 Sand	50	14
RW-04	Recovery Well	12/22/92	HSA	Alluvium	840.980	302.030	--	--	6	10-50	0.020, PVC	No. 3 Sand	50	14
RW-05	Recovery Well	01/04/93	HSA	Alluvium	804.119	401.320	--	--	6	10-50	0.020, PVC	No. 3 Sand	50	14
RW-06	Recovery Well	03/25/93	HSA	Modelo	1037.890	758.983	--	--	5, PVC	19-69	0.020, PVC	No. 3 Sand	70	12
RW-07	Recovery Well	--	HSA	Modelo	755.186	533.602	--	--	5	20-60	0.020 V-Wrap	--	65	--
RW-08	Recovery Well	--	HSA	Modelo	633.459	668.750	--	--	5	25-65	0.020 V-Wrap	--	70	--
RW-09	Recovery Well	--	HSA	Modelo	668.127	835.536	--	--	5	25-65	0.020 V-Wrap	--	70	--
RW-10	Recovery Well	--	HSA	Modelo	1129.300	405.545	--	--	5	15-55	0.020 V-Wrap	--	60	--
RW-11	Recovery Well	--	HSA	Modelo	1904880.922	6371281.813	866.75	869.17	5	25-65	0.020 V-Wrap	--	70	--
RW-12	Abandoned		HSA	Modelo	919.251	599.028	--	--	5	20-60	0.020 V-Wrap	--	60	--
RW-13	Recovery Well	--	HSA	Modelo	968.807	798.410	--	--	5	25-65	0.020 V-Wrap	--	70	--
RW-14	Recovery Well	--	HSA	Modelo	1904916.827	6371485.004	870.18	874.37	5	15-55	0.020 V-Wrap	--	60	--
RW-15	Recovery Well	--	HSA	Modelo	1089.803	979.441	--	--	5	29-69	0.020 V-Wrap	--	74	--
RW-16	Recovery Well	--	HSA	Modelo	940.407	981.779	--	--	5	25-65	0.020 V-Wrap	--	70	--
RW-17	Recovery Well	Abandoned	HSA	Modelo	792.545	1016.686	--	--	5	25-65	0.020 V-Wrap	--	70	--
VAPOR EXTRACTION WELLS AND AIR SPARGE/INJECTION WELLS														
IP-03	Injection Well	09/11/12	HSA	--	1904931.503	6371581.218	881.92	882.30	2, PVC	45.9 - 60.3	0.020, PVC	No. 2/12 Sand	60.8	8.5
IP-21	Injection Well	12/16/15	HSA	Modelo	34.2249	-118.6294	874.99	875.29	2, PVC	40 - 55	0.020, PVC	No. 2/12 Sand	55	8.5
IP-22	Injection Well	12/16/15	HSA	Modelo	34.2251	-118.6291	878.16	878.65	2, PVC	40 - 55	0.020, PVC	No. 2/12 Sand	55	8.5
IP-23	Injection Well	12/15/15	HSA	Modelo	34.2250	-118.6291	877.23	877.60	2, PVC	40 - 55	0.020, PVC	No. 2/12 Sand	55	8.5
SW/VW-2	Sparge (SW-2)	--	--	--	--	--	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
SW/VW-3	Sparge (SW-3)	--	--	--	1087.427	628.322	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
SW/VW-5	Sparge (SW-5)	--	--	--	1020.702	678.838	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
SW/VW-16	Sparge (SW-16)	--	--	--	1024.616	753.671	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
SW/VW-27	Sparge (SW-27)	--	--	--	1063.559	892.836	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
S-10	Sparge	12/01/01	--	Mid	34.2250236	118.6297300	--	872.23	1	39 - 40	0.01	--	40	--
S-11	Sparge	12/01/01		Deep	34.2250373	118.6296110	--	873.09	1	49 - 50	0.01	--	50	--
S-15	Sparge	12/01/01	--	Mid	34.2250907	118.6291483	--	877.63	1	42 - 43	0.01	--	43	--
S-16	Sparge	12/01/01	--	Mid	34.2251132	118.6290422	--	879.22	1	42 - 43	0.01	--	43	--

Notes:
1) bgs = below ground surface; HSA = hollow stem auger; DPT = direct push technoology; PVC = poly vinyl chloride
2) '--' = not available.
3) Latitude/longitude in decimal degree format.

Table 4
VOC Groundwater Analytical Results, Second Quarter 2020
Former Canoga Park Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Sample ID	Sample Type	Sampling Date	Benzene	Chloroform	1,1-DCA	1,2-DCA	1,1-DCE	*cis* - 1,2-DCE	PCE	TCE	TCFM	VC	MEK	Chloroethane
CAP Goals (µg/L):				**1**	**--**	**50**	**5**	**60**	**60**	**50**	**50**	**--**	**--**	**--**	**--**
MONITORING WELLS															
CM-2D	Not sampled due to substrate in well														
CM-4D	CM-4D-202105	N	05/21/20	<0.5	<0.5	**3.0**	**2.8**	**7.2**	**3.1**	<0.5	<0.5	<0.5	**17**	<5	**3.2**
	DUP1-202105	FD	05/21/20	<0.5	<0.5	**3.1**	**2.7**	**7.1**	**3.2**	<0.5	<0.5	<0.5	**17**	<5	**2.2**
CM-7D	CM-7D-201905	N	05/19/20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5
CM-8D	CM-8D-202105	N	05/21/20	<0.5	<0.5	**2.7**	**0.96**	**15**	**1.8**	<0.5	**2.6**	<0.5	**7.8**	<5	<0.5
CM-16	CM-16-202105	N	05/21/20	<0.5	<0.5	<0.5	<0.5	<0.5	**0.73**	<0.5	**0.65**	<0.5	<0.5	<5	<0.5
MW-15	MW-15-201905	N	05/19/20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5
MW-16	MW-16-202105	N	05/21/20	<0.5	<0.5	<0.5	<0.5	**0.94**	<0.5	<0.5	<0.5	<0.5	**0.88**	<5	<0.5
MW-19S	MW-19D-202005	N	05/20/20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5
MW-19D	MW-19S-202005	N	05/20/20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5
MW-20S*	MW-20S-202005	N	05/20/20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2
MW-37	MW-37-202105	N	05/21/20	<1	**4.3**	<1	<1	**44**	<1	<1	**5.0**	**1.5**	<1	<10	<1
	DUP3-202105	FD	05/21/20	<1	**4.6**	<1	<1	**47**	<1	<1	**5.4**	**1.8**	<1	<10	<1
MW-39	MW-39-202005	N	05/20/20	<1	<1	<1	<1	**7.6**	<1	<1	<1	<1	**32**	<10	<1
RECOVERY WELLS															
RW-01	RW-01-201905	N	05/19/20	<0.5	<0.5	**0.54**	<0.5	**12**	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5
RW-02	Unable to be sampled due to obstruction and limited recharge														
RW-04	RW-04-202005	N	05/20/20	<0.5	<0.5	**0.58**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**2.0**	<5	<0.5
RW-05	RW-05-201905	N	05/19/20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5
RW-06	RW-06-201905	N	05/19/20	**0.75**	<0.5	<0.5	<0.5	**5.6**	**1.0**	<0.5	**0.52**	<0.5	<0.5	**75**	<0.5
RW-07	RW-07-201905	N	05/19/20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5
RW-08	RW-08-201905	N	05/19/20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5
RW-09	RW-09-202005	N	05/20/20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5
RW-10	RW-10-202005	N	05/20/20	<1	<1	**1.5**	<1	**45**	<1	<1	<1	<1	**20**	<10	<1
RW-11	RW-11-201905	N	05/19/20	<2	<2	<2	<2	**66 J**	<2	<2	<2	<2	<2	<20	<2
RW-13	RW-13-201905	N	05/19/20	<0.5	<0.5	<0.5	<0.5	**0.52**	<0.5	<0.5	**0.71**	<0.5	<0.5	<5	<0.5
RW-14	Not sampled due to substrate in well														
RW-15	RW-15-202005	N	05/20/20	<0.5	<0.5	<0.5	<0.5	**7.1**	**3.5**	**1.3**	**3.6**	<0.5	<0.5	<5	<0.5
RW-16	RW-16-201905	N	05/19/20	<0.5	<0.5	<0.5	<0.5	**3.8**	**12**	<0.5	<0.5	<0.5	**9.3**	<5	<0.5
	DUP2-201905	FD	05/19/20	<0.5	<0.5	<0.5	<0.5	**4.7**	**12**	<0.5	<0.5	<0.5	**9.3**	<5	<0.5

Notes:

1) All concentrations in micrograms per liter (µg/L).

2) Only detectable concentrations of chemicals of concern are shown; detections above reporting limit are **bolded**.

3) 1,1-DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; 1,1-DCE = 1,1-Dichloroethene; *cis* -1,2-DCE = *cis* -1,2-Dichloroethene; PCE =Tetrachloroethene; TCE = Trichloroethene; TCFM = trichlorofluoromethane; VC = Vinyl Chloride; MEK = 2-Butanone.

4) CAP Goals = Corrective Action Plan Groundwater Cleanup Goals (Hughes Environmental Systems, 1992); N = Normal Sample; FD = Field Duplicate Sample; "<" = not detected above the stated reporting limit.

5) Concentrations exceeding CAP Goals are shaded in gray. Not all analytes have CAP goals.

6) "J" - result qualified as estimated due to quality control issues. See text for details.

7) * = Sample from MW-20S had elevated detection limits due to matrix interference.

Table 5
Selected Groundwater Monitoring Results – North-Central Barriers and Former Tank T3 Areas
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California

	Well Identification:		CM-2D		M-1	MW-23	RW-11	RW-14	RW-15
	Sample Type:		N	FD	N	N	N	N	N
	Sample Date:		03/09/20	03/09/20	03/09/20	03/09/20	03/09/20	03/09/20	03/09/20
	Sampling Event:		Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline
Parameter	**Method**	**Units**							
Primary Chemicals of Concern									
Tetrachloroethene	EPA 8260B	µg/L	**5.3**	**5.4**	< 10	< 0.5	< 5.0	< 1.0	**2.2**
Trichloroethene	EPA 8260B	µg/L	**19**	**19**	< 10	< 0.5	< 5.0	< 1.0	**5.7**
cis -1,2-Dichloroethene	EPA 8260B	µg/L	**3.0**	**3.0**	< 10	**2.8**	< 5.0	**4.0**	**4.7**
1,1-Dichloroethene	EPA 8260B	µg/L	**35**	**35**	< 10	**17**	**150**	**32**	**11**
1,1-Dichloroethane	EPA 8260B	µg/L	< 0.5	< 0.5	< 10	< 0.5	< 5.0	< 1.0	< 0.5
Vinyl chloride	EPA 8260B	µg/L	**1.8**	**1.7**	< 10	**15**	< 5.0	**20**	< 0.5
Volatile Fatty Acids									
Acetic acid	HPCL/UV	mg/L	< 4.0	--	**200**	< 4.0	< 4.0	< 4.0	< 4.0
Butyric acid	HPCL/UV	mg/L	< 4.0	--	**15**	< 4.0	< 4.0	< 4.0	< 4.0
Lactic acid	HPCL/UV	mg/L	< 4.0	--	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Propionic acid	HPCL/UV	mg/L	< 4.0	--	**17**	< 4.0	< 4.0	< 4.0	< 4.0
Pyruvic Acid	HPCL/UV	mg/L	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Microbial Analyses									
DHC Microbial Analyses	qPCR	cells/ml	**7.17E+01**	--	**2.78E+02**	**3.92E+01**	**3.50E+00**	**1.98E+02**	**2.57E+01**
tceA	qPCR	cells/ml	**1.60E+00**	--	**1.20E+00 J**	**4.90E+00**	< 5.00E-01	**1.58E+01**	**8.00E-01**
bvcA	qPCR	cells/ml	**1.00E-01 J**	--	< 2.10E+00	< 6.00E-01	< 5.00E-01	< 5.00E-01	< 5.00E-01
vcrA	qPCR	cells/ml	**1.18E+01**	--	**9.73E+01**	**1.60E+00**	**3.00E-01 J**	**6.83E+01**	**4.90E+00**
Dissolved Gases									
Ethane	RSK 175M	µg/L	< 1.0	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethene	RSK 175M	µg/L	< 1.0	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methane	RSK 175M	µg/L	**3.5**	--	**3,000**	**100**	**2.0**	**490**	**48**
Inorganic Parameters									
Total dissolved solids	EPA 160.1	mg/L	**1,180**	--	**1,300**	**1,510**	**1,670**	**1,210**	**1,430**
Total organic carbon	SM5310D	mg/L	**2.30**	--	**425**	**5.53**	**4.23**	**2.82**	**2.88**
Chloride	EPA 300.0	mg/L	**320**	--	**150**	**230**	**290**	**260**	**180**
Nitrate as N	EPA 300.0	mg/L	**2.2**	--	< 0.10	< 0.10	**45**	< 0.10	< 0.10
Nitrite as N	EPA 300.0	mg/L	< 0.10	--	**0.40**	< 0.10	< 0.10	< 0.10	< 0.10
Sulfate	EPA 300.0	mg/L	**120**	--	**2.1**	**350**	**460**	**140**	**360**
Major Cations									
Boron	EPA 200.8	mg/L	**0.190**	--	**0.195**	**0.342**	**1.22**	**0.296**	**0.383**
Field Measurements									
DO	Field	mg/L	**0.0**	--	NM	**0.0**	**1.27**	**0.0**	**0.0**
ORP	Field	mV	**65.7**	--	NM	**30.4**	**95.4**	**-19.7**	**42.2**
pH	Field	pH units	**6.84**	--	NM	**6.43**	**6.80**	**6.64**	**6.76**
Specific Conductivity	Field	mS/cm	**1,868**	--	NM	**2,010**	**2,694**	**1,934**	**1,951**
Temperature	Field	°C	**24.7**	--	NM	**22.9**	**19.5**	**22.6**	**21.8**
Turbidity	Field	NTU	**5.27**	--	NM	**35.2**	**2.12**	**3.67**	**20.4**

Notes:

1) DHC = Dehalococcoides; tceA = TCE reductase; bvcA = BAV1 vinyl chloride reductase; vcrA = vinyl chloride reductase; DO = dissolved oxygen; FD = field duplicate; ORP= oxidation-reduction potential; µg/L = micrograms per liter; mg/L = milligrams per liter; cells/ml = cells per milliliter; mV = millivolts; N = normal sample; °C = degrees Celsius; mS/cm = milliSiemens per centimeter; NTU = nephelometric turbidity units

2) < = Analyte was not detected above the stated reporting limit; J = estimated value.

3) -- = Not applicable; NM = Not measured.

Table 6
EISB Injection Summary - Northern-Central Barriers and Former Tank T3 Areas
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California

Injection Well ID	Injection Depth Interval (feet bgs)	Injection Dates April 2020	Volume of 60% Sodium Lactate Injected (gallons)[1]	Volume of EVO Injected (gallons)	Volume of Municipal Water Injected[2] (gallons)	Volume of BAC-9® Injected[1] (liters)	Average Injection Pressure[3] (psi)	Average Flow Rate (gpm)
North-Central Barriers								
		M&RP No. CI-8947 Volumes:	440	1,540	20,900	48	--	--
Southwest Barrier								
IP-21	40-55	4/15, 4/16, 4/17	45	232	2,871	4.9	27	2.8
S-10-M	39-40	4/20, 4/21, 4/22, 4/23, 4/24	30	108	1,331	4.9	30	0.7
S-11-D	49-50	4/20, 4/21, 4/22, 4/23	39	138	1,697	4.9	30	1.7
SW/VW-2[4]	50-55	4/17	0.3	1.2	10	0	--	--
SW/VW-3	50-55	4/17, 4/20, 4/21, 4/23	49	174	2,138	4.9	30	1.6
SW/VW-5[4]	50-55	4/17	0.3	1.2	10	0	--	--
East Barrier								
IP-22	40-55	4/13, 4/24	71	252	3,100	4.9	25	4.6
IP-23	40-55	4/15, 4/16, 4/24	55	194	2,392	4.9	27	2.7
S-15-M	42-43	4/14	40	142	1,748	4.9	33	3.9
S-16-M	42-43	4/14, 4/22	40	142	1,748	4.9	27	3.9
SW/VW-16	50-55	4/15, 4/16, 4/21, 4/22, 4/23	41	145	1,782	4.9	30	1.6
		Area Totals:	*410*	*1,528*	*18,827*	*44*	--	--
Former Tank T3 Area								
		M&RP No. CI-8947 Volumes:	55	55	1,000	4	--	--
IP-03	40-60	4/23	55	55	1,128	4	25	5.5
SW/VW-27	50-55	4/23	Well is damaged - unable to perform injections. Replaced with well IP-03.					
		Area Totals:	*55*	*55*	*1,128*	*4*	--	--
		Total Volume:	465	1,583	19,955	48	--	--
		Total Substrate Volume Injected (gallons):	**22,016**					

Notes:

1) Total volume includes amount used for priming wells.
2) Total volume includes flush water.
3) Injections pressures were measured at the well head.
4) Injections at wells SW/VW-2 and SW/VW-5 were discontinued after discovering damaged well casings that caused surfacing of injection substrate in the well vault.
5) EISB = enhanced *in situ* bioremediation; EVO = emulsified vegetable oil; feet bgs = feet below ground surface; gpm = gallons per minute; psi = pounds per square inch

Table 7

Groundwater Analytical Results for Field QA/QC Samples, Second Quarter 2020

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, California

Well ID	Sample ID	Sample Type	Sampling Date	Chloroform	1,1-DCA	1,2-DCA	1,1-DCE	*cis* - 1,2-DCE	TCE	TCFM	VC
CM-4D	CM-4D-202105	N	05/21/20	<0.5	**3.0**	**2.8**	**7.2**	**3.1**	<0.5	<0.5	**17**
	DUP1-202105	FD	05/21/20	<0.5	**3.1**	**2.7**	**7.1**	**3.2**	<0.5	<0.5	**17**
Relative Percent Difference				NA	**3.3%**	**3.6%**	**1.4%**	**3.2%**	NA	NA	**0%**
MW-37	MW-37-202105	N	05/21/20	**4.3**	<1	<1	**44**	<1	**5.0**	**1.5**	<1
	DUP3-202105	FD	05/21/20	**4.6**	<1	<1	**47**	<1	**5.4**	**1.8**	<1
Relative Percent Difference				**6.7%**	NA	NA	**6.6%**	NA	**7.7%**	**18%**	NA
RW-16	RW-16-201905	N	05/19/20	<0.5	<0.5	<0.5	**3.8**	**12**	<0.5	<0.5	**9.3**
	DUP2-201905	FD	05/19/20	<0.5	<0.5	<0.5	**4.7**	**12**	<0.5	<0.5	**9.3**
Relative Percent Difference				NA	NA	NA	**21%**	**0%**	NA	NA	**0%**
TRIP BLANK											
FieldQC	TB-201905	TB	05/19/20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FieldQC	TB-202005	TB	05/20/20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

1) All analyses by EPA Method 8260B.

2) All concentrations in micrograms per liter (μg/L).

3) All detected concentrations of constituents of concern are shown.

4) 1,1-DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; 1,1-DCE = 1,1-Dichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; TCE = Trichloroethene; TCFM = trichlorofluoromethane; VC = Vinyl Chloride.

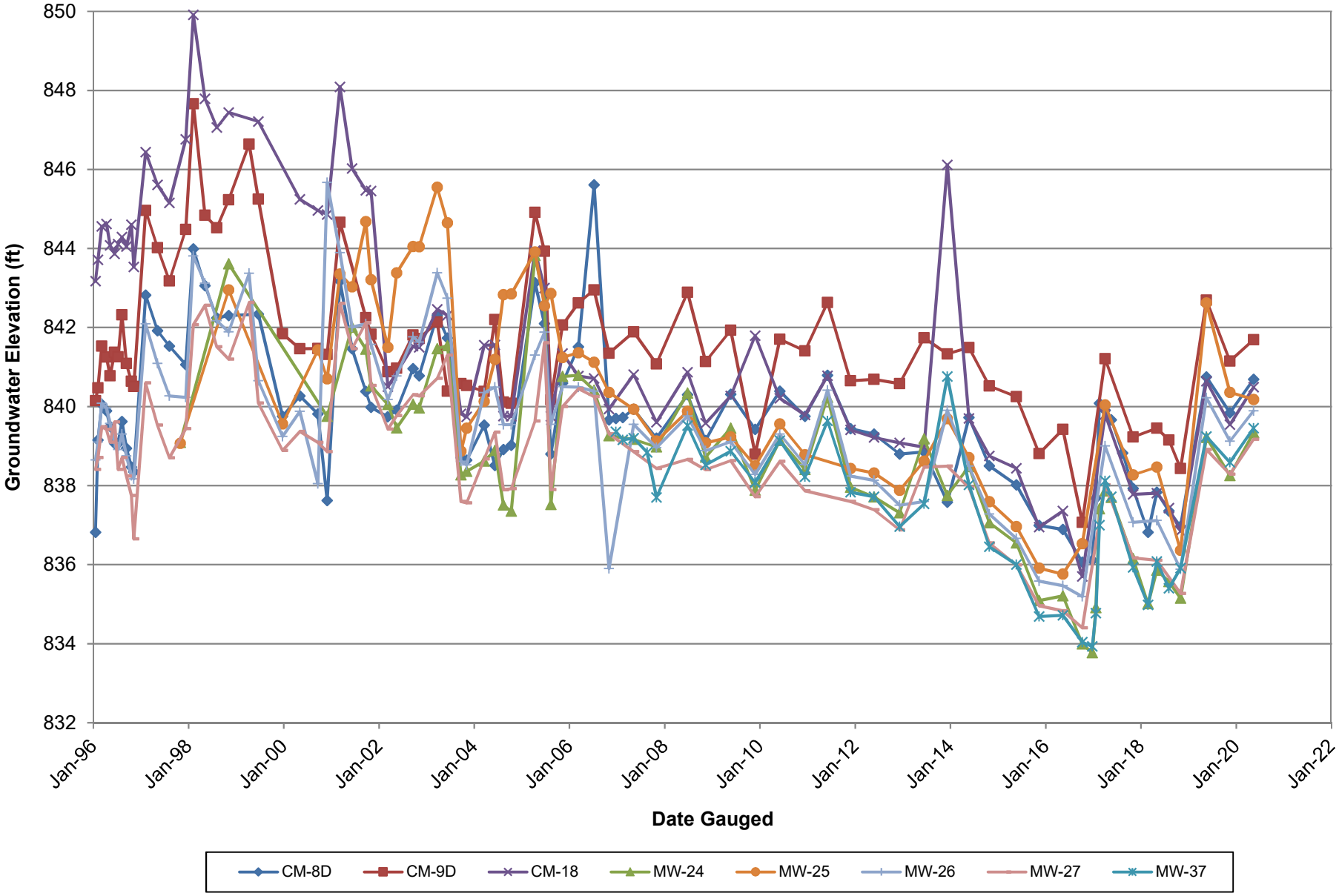
5) N = normal sample; FD = field duplicate; TB = trip blank; < = not detected above the stated reporting limit.

Graphs

Graph 1: Hydrograph - CM-8D Area

Former Canoga Park Facility

8433 Fallbrook Ave., Canoga Park, California

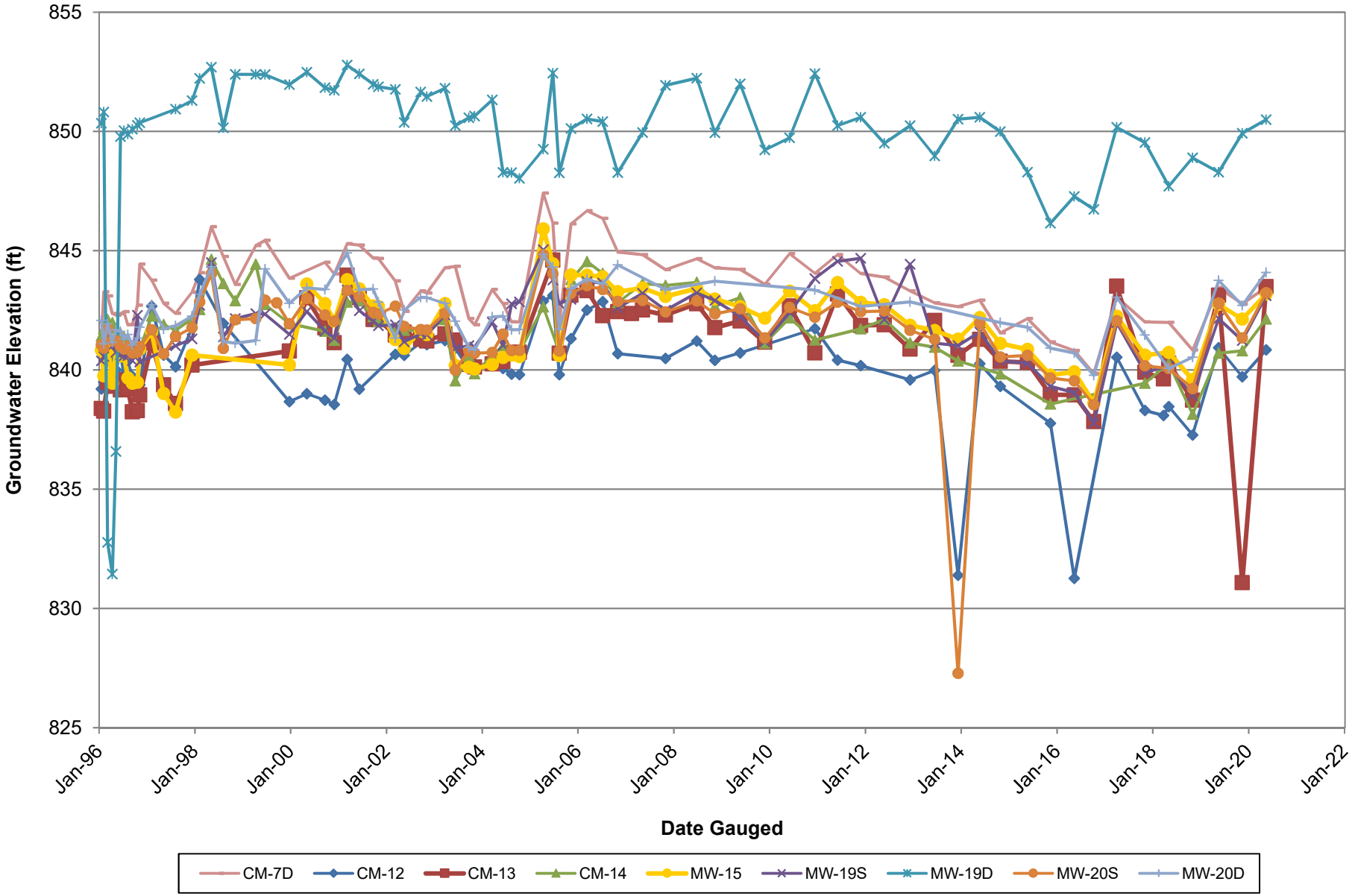


Data collected by FDGTI 1996-1999 and by OTIE-TN&A 2000-present.

Graph 2 Hydrograph - Northwest Area

Former Canoga Park Facility

8433 Fallbrook Ave., Canoga Park, California



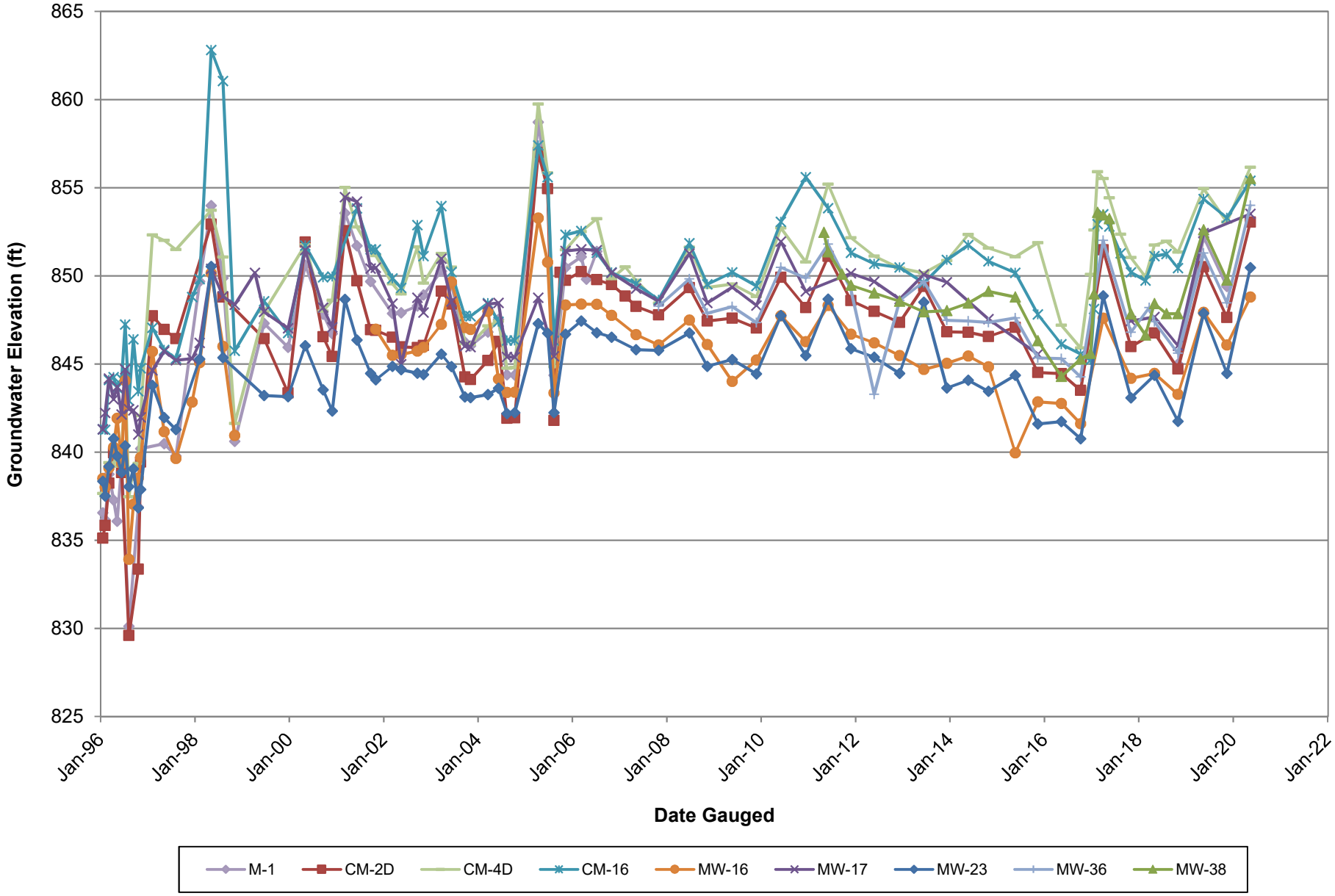
Data collected by FDGTI 1996-1999 and by OTIE-TN&A 2000-present.

OTIE

Graph 3: Hydrograph - Northeast Area

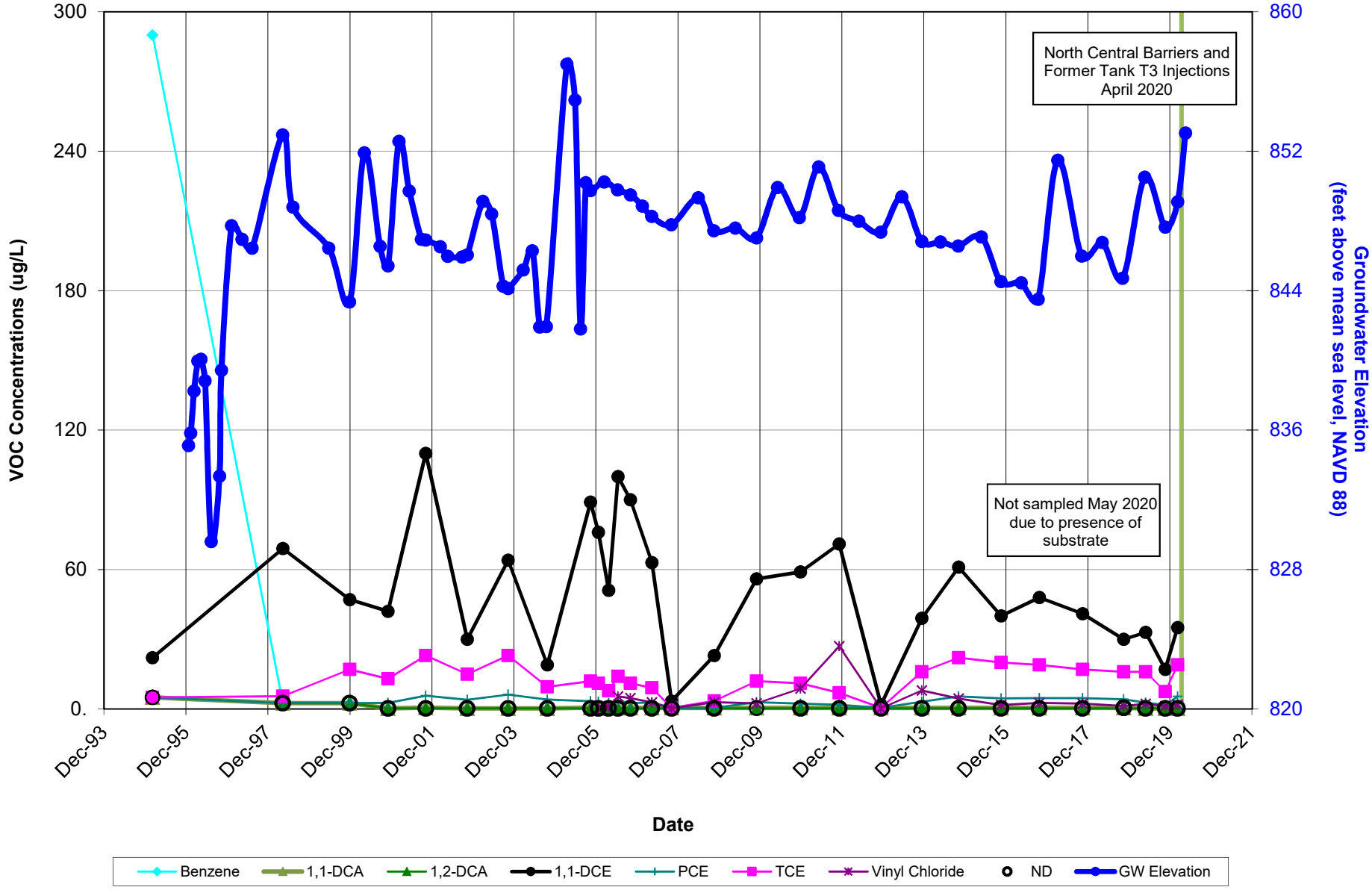
Former Canoga Park Facility

8433 Fallbrook Ave., Canoga Park, California



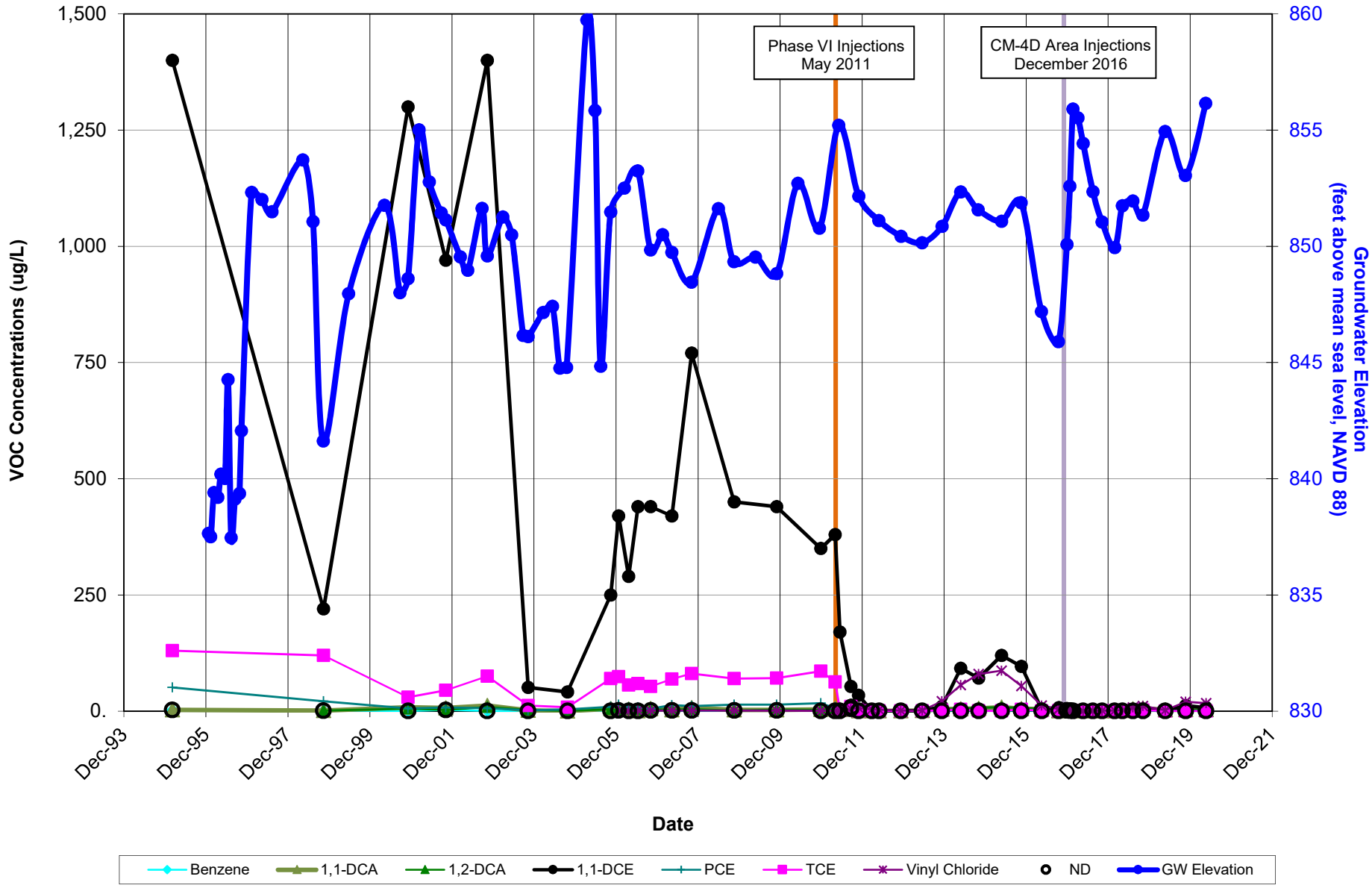
Data collected by FDGTI 1996-1999 and by OTIE-TN&A 2000-present.

Graph CM-2D: VOC Concentrations and Groundwater Elevation vs. Time
Monitoring Well CM-2D
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



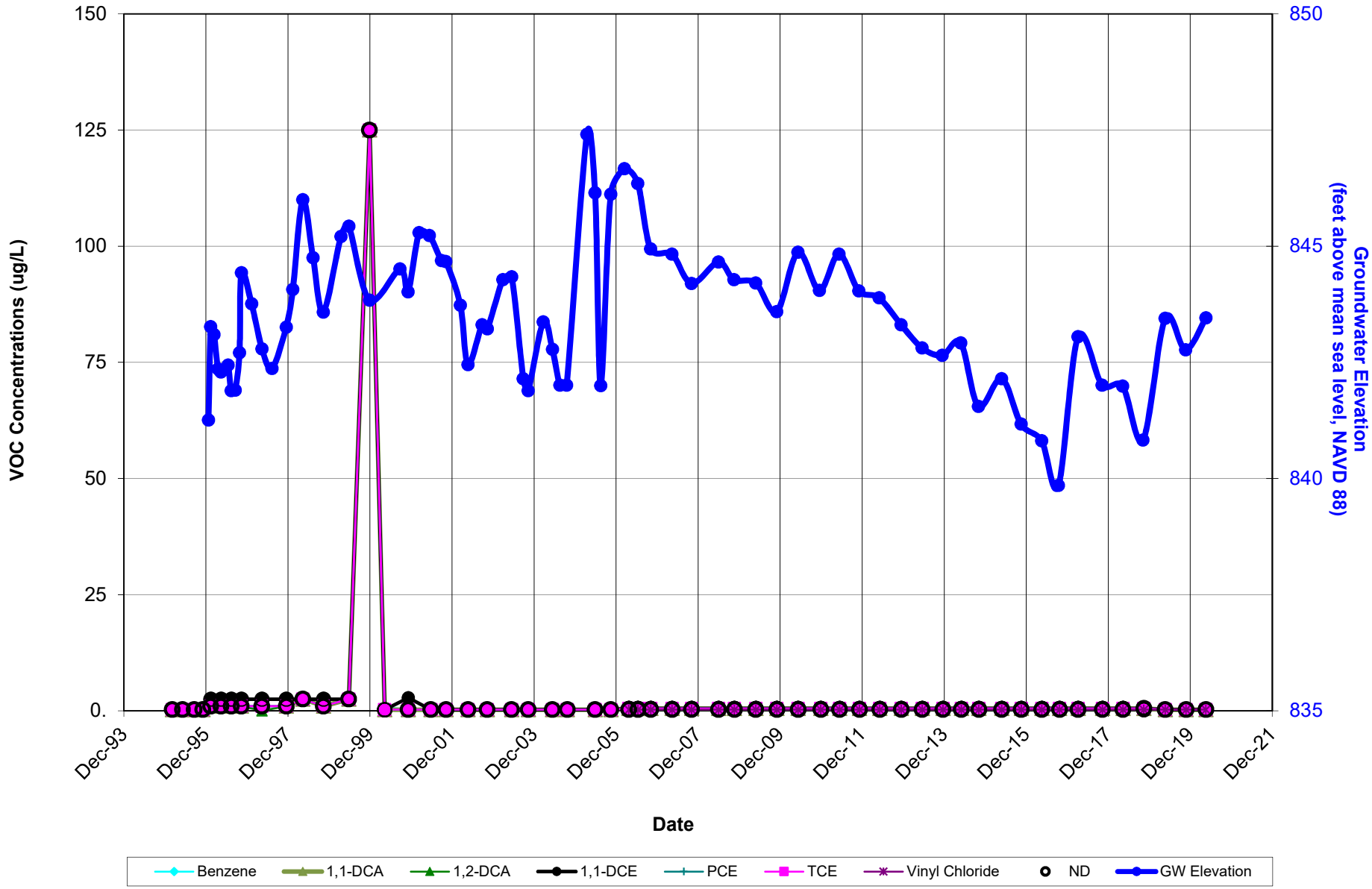
OTIE

Graph CM-4D: VOC Concentrations and Groundwater Elevation vs. Time
Monitoring Well CM-4D
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



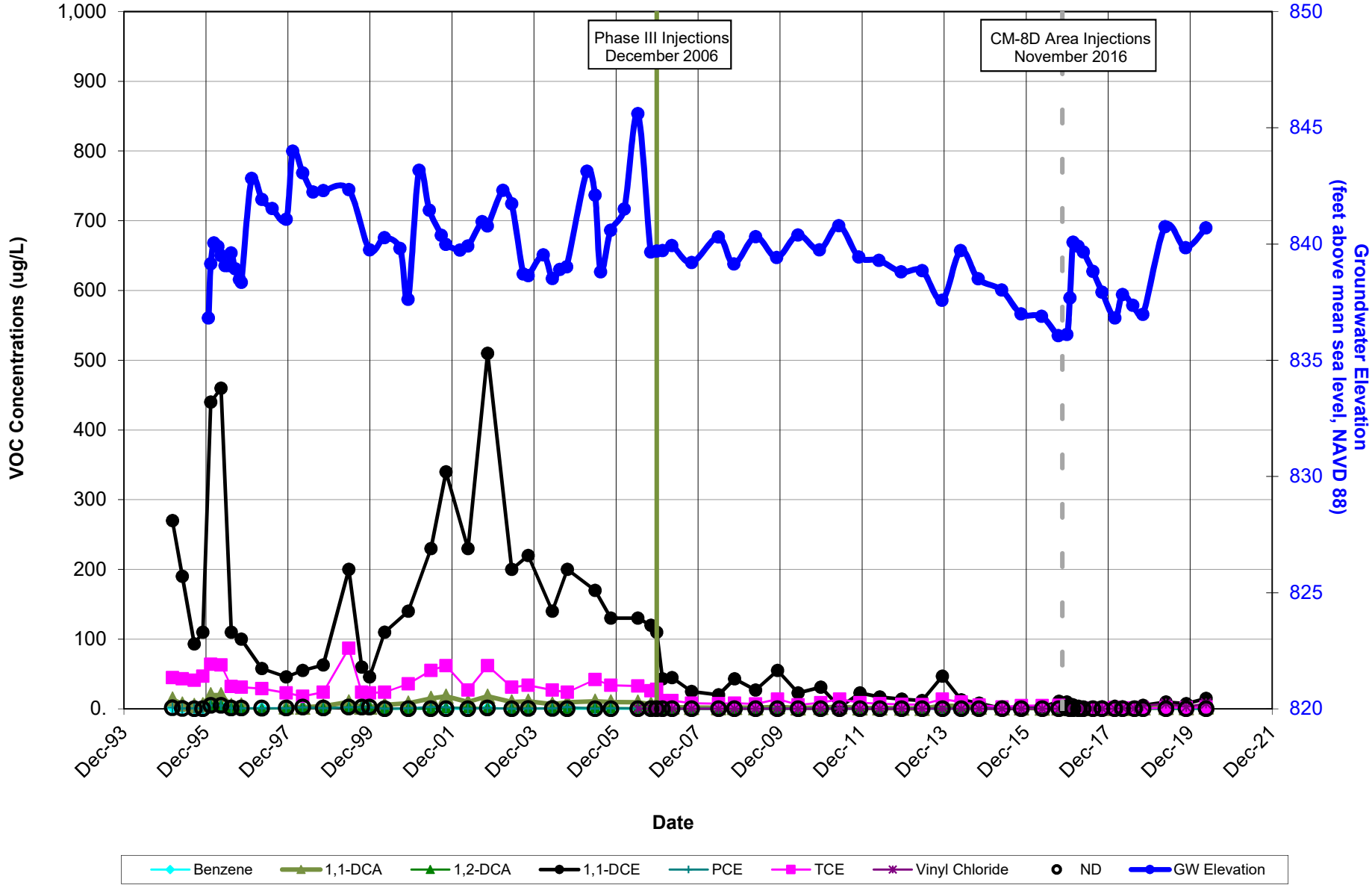
OTIE

Graph CM-7D: VOC Concentrations and Groundwater Elevation vs. Time
Monitoring Well CM-7D
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



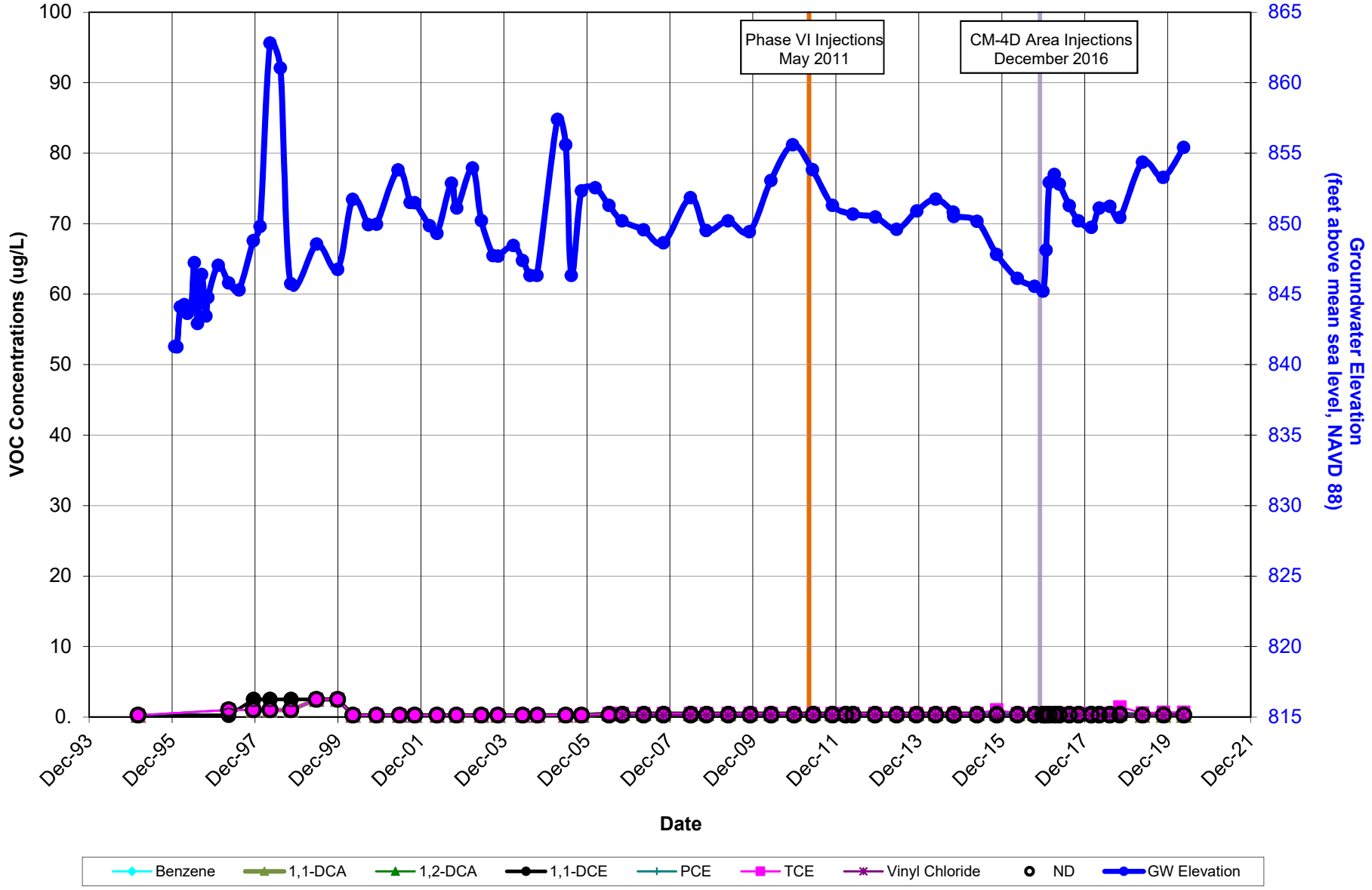
OTIE

Graph CM-8D: VOC Concentrations and Groundwater Elevation vs. Time
Monitoring Well CM-8D
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



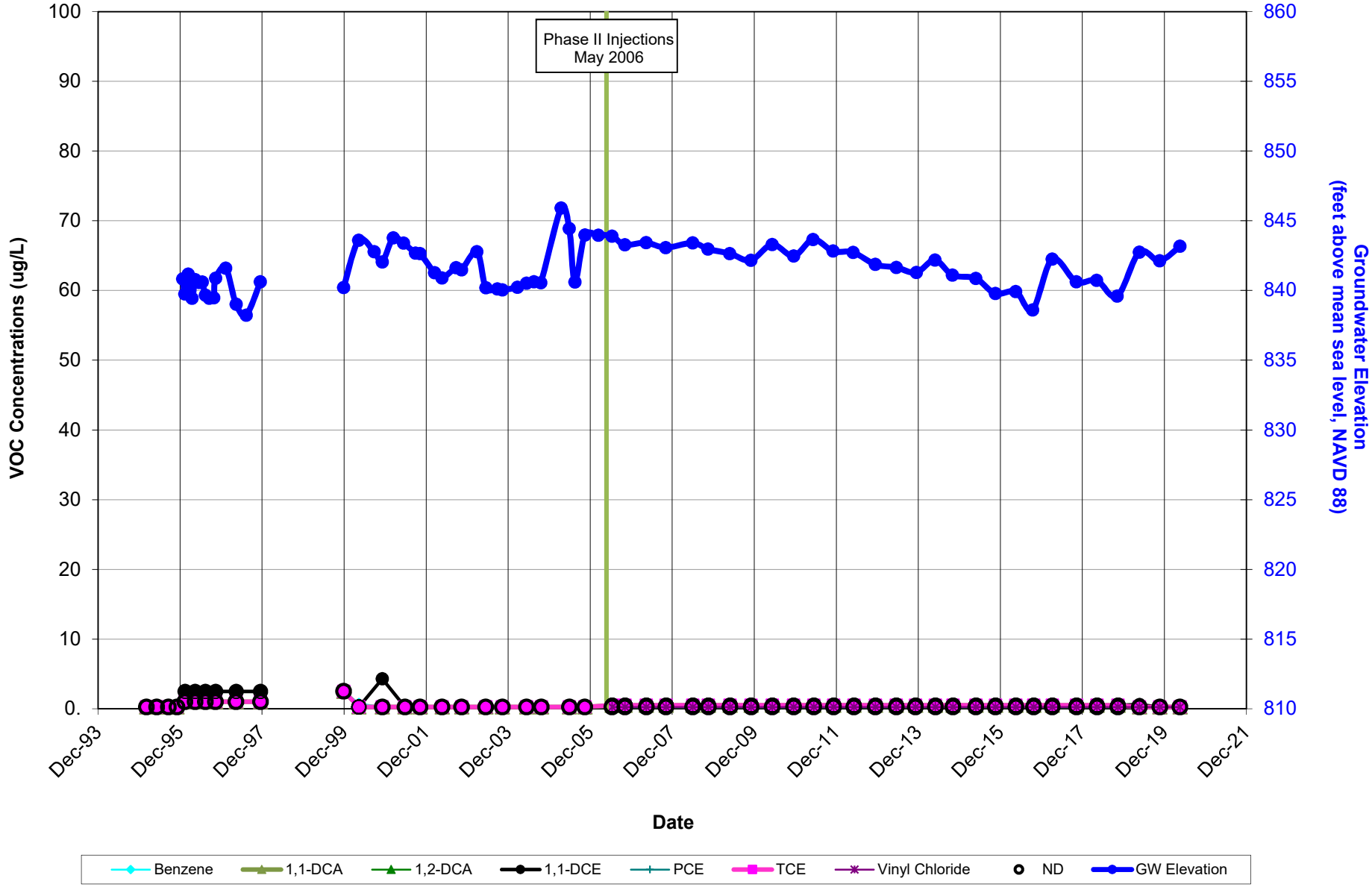
OTIE

Graph CM-16: VOC Concentrations and Groundwater Elevation vs. Time
Monitoring Well CM-16
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



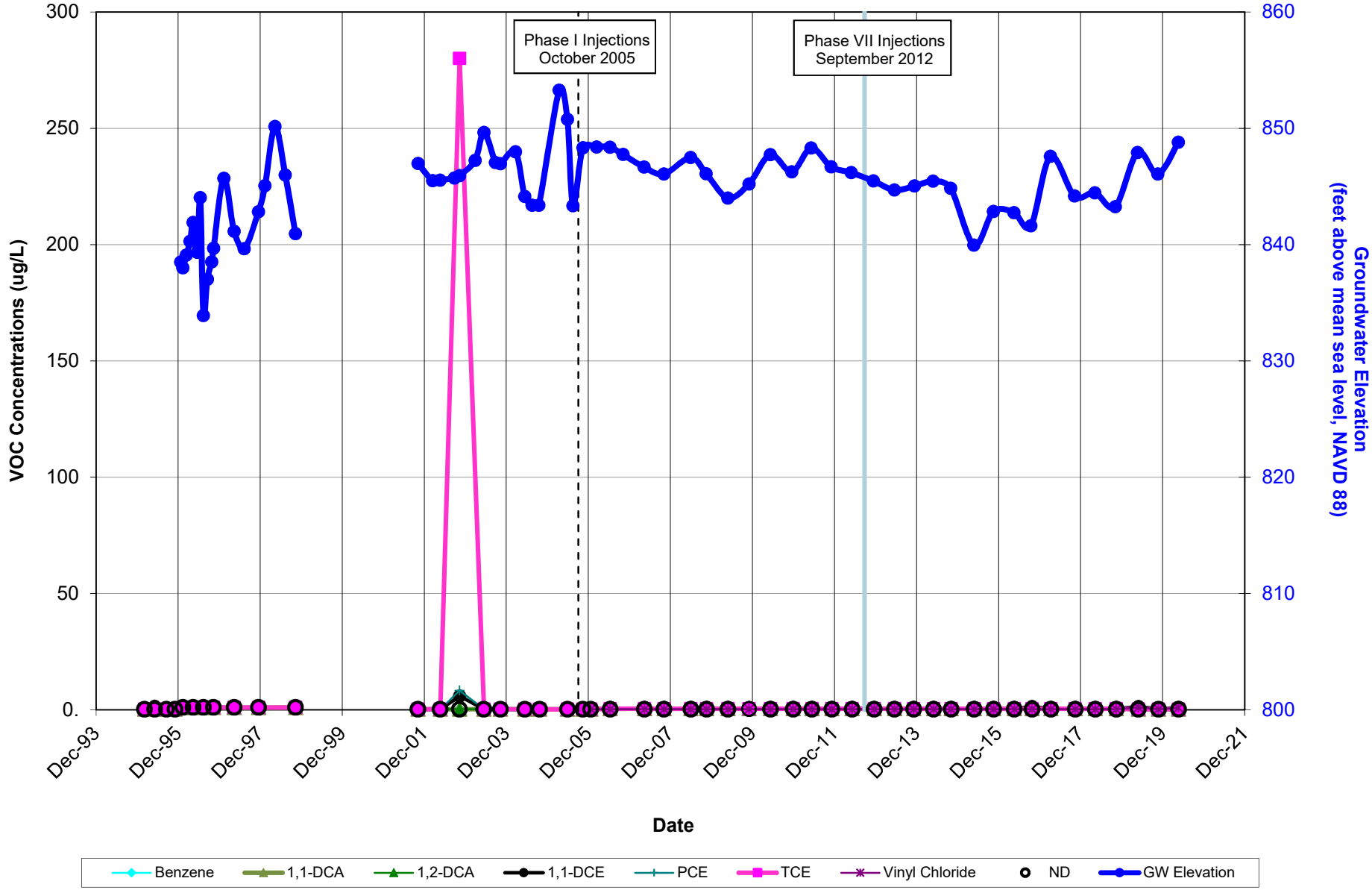
OTIE

Graph MW-15: VOC Concentrations and Groundwater Elevation vs. Time
Monitoring Well MW-15
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



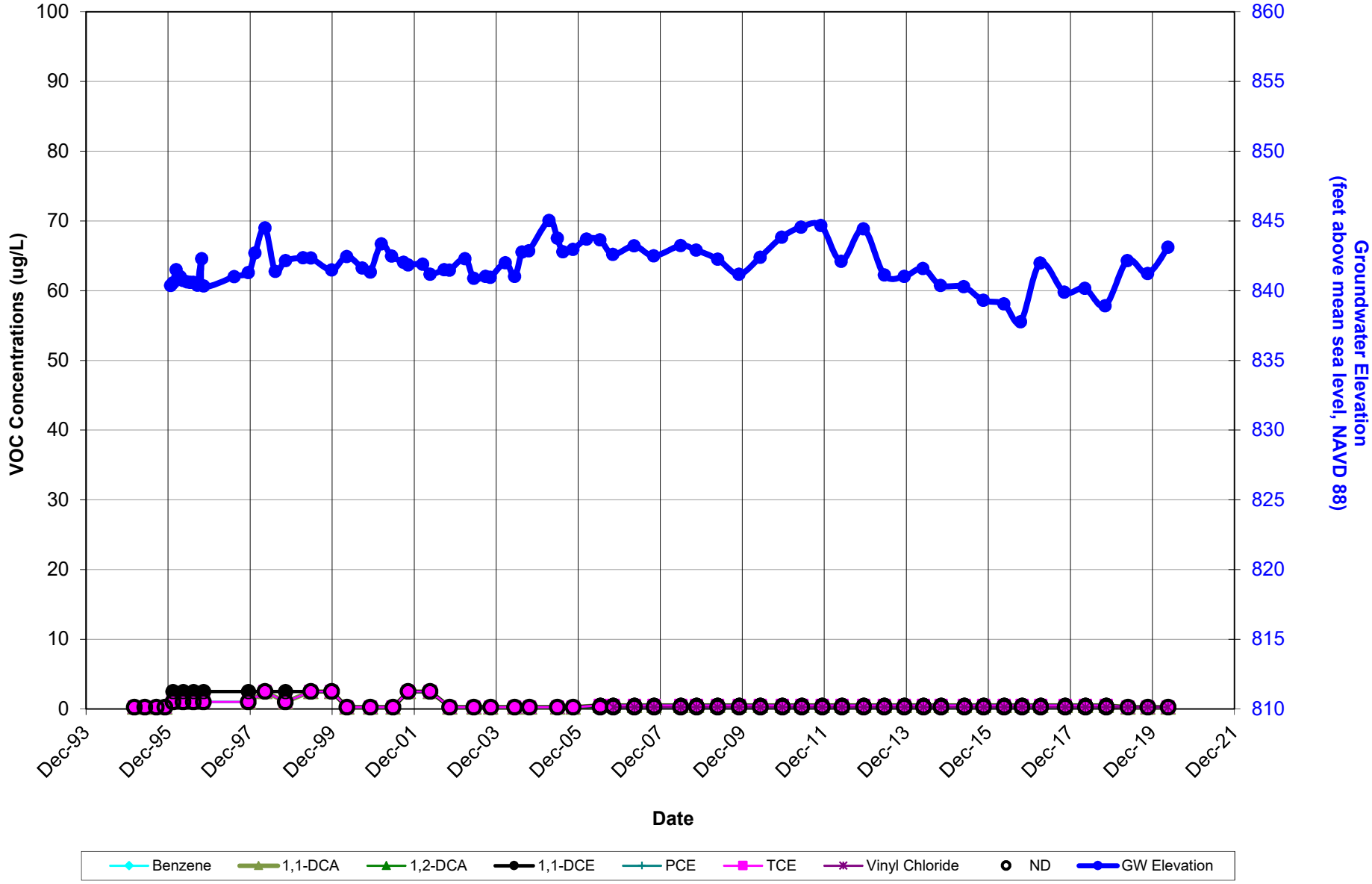
OTIE

Graph MW-16: VOC Concentrations and Groundwater Elevation vs. Time
Monitoring Well MW-16
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



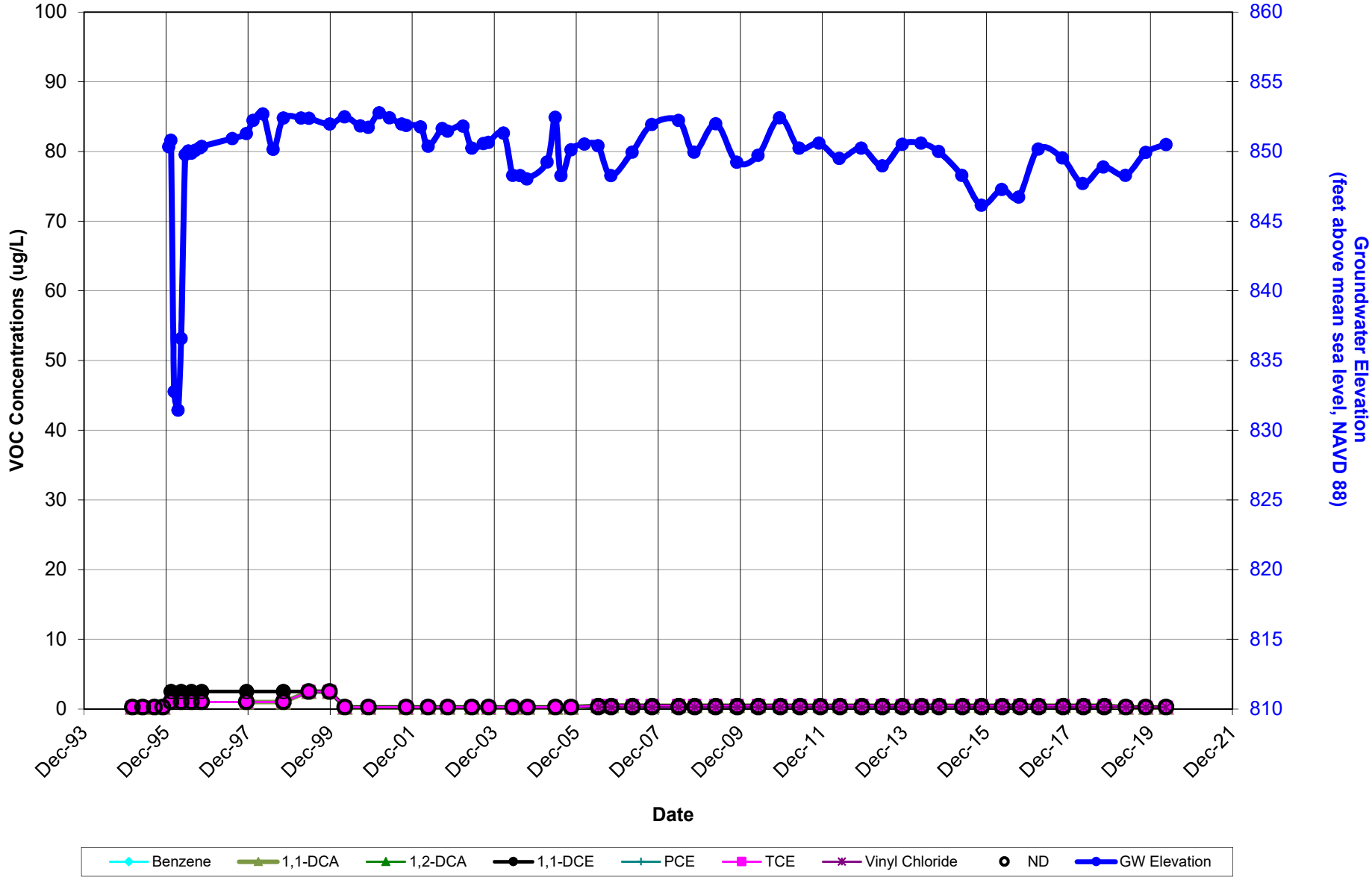
OTIE

Graph MW-19S: VOC Concentrations and Groundwater Elevation vs. Time
Monitoring Well MW-19S
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



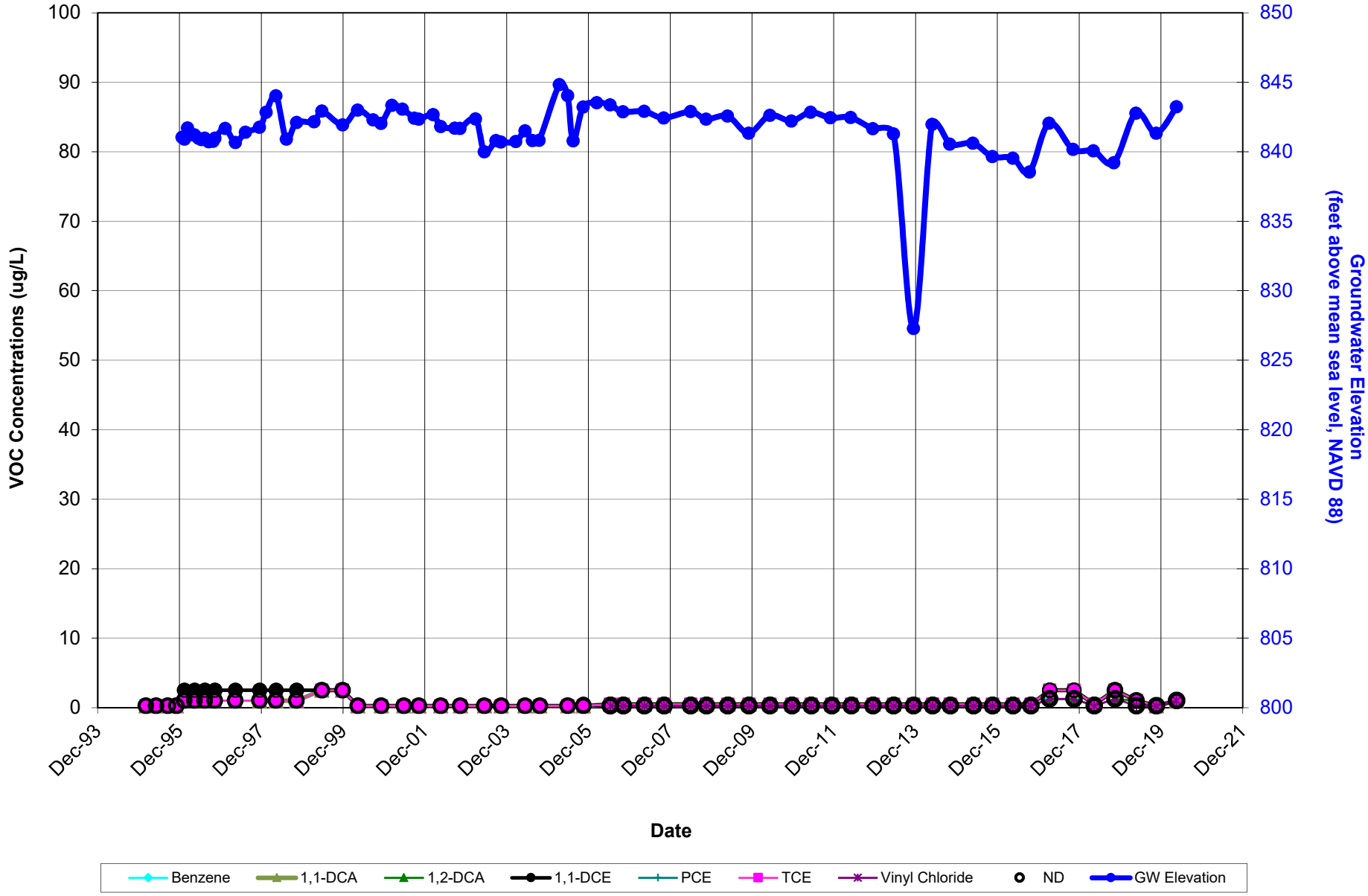
OTIE

Graph MW-19D: VOC Concentrations and Groundwater Elevation vs. Time
Monitoring Well MW-19D
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



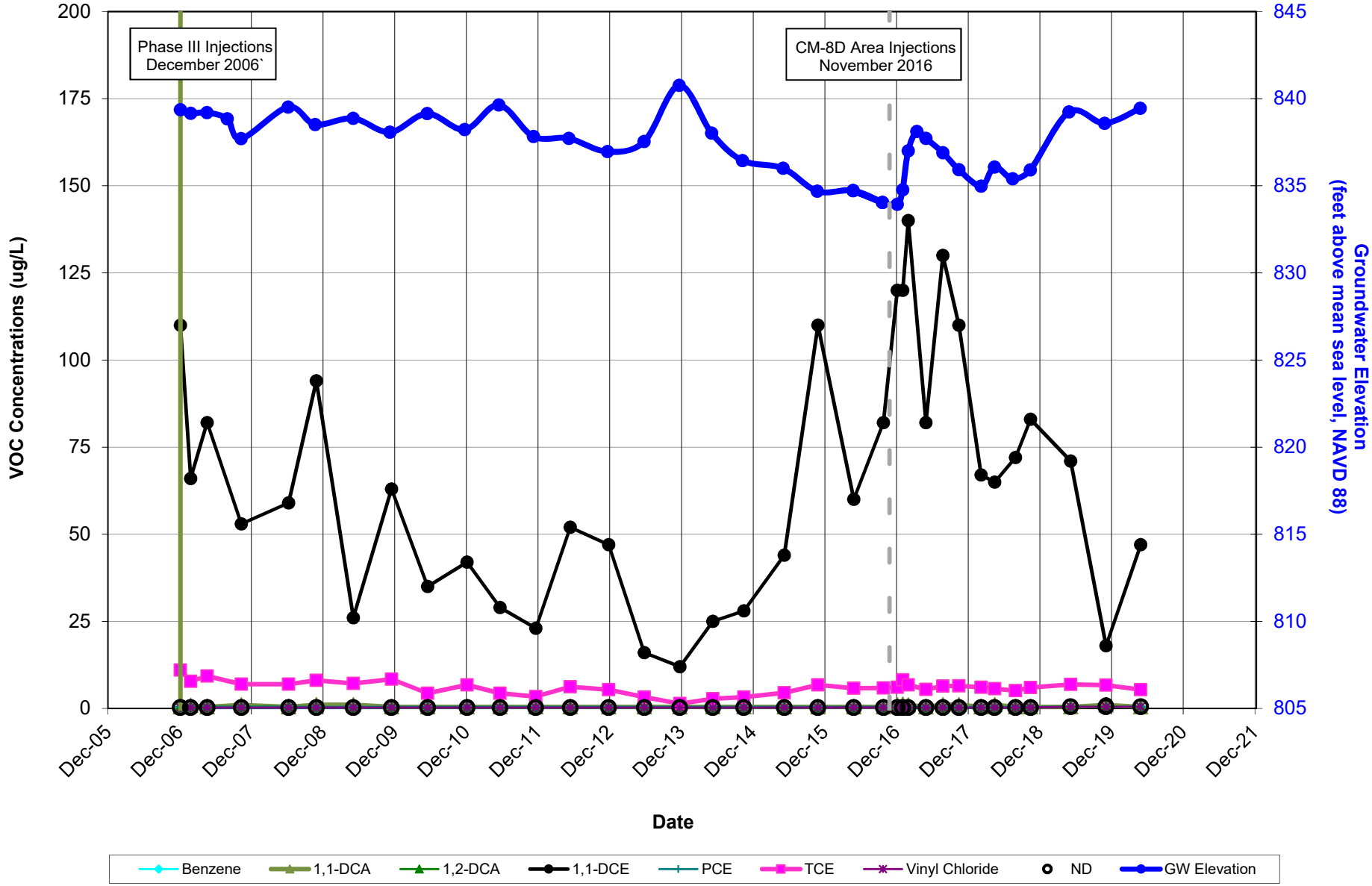
OTIE

Graph MW-20S: VOC Concentrations and Groundwater Elevation vs. Time
Monitoring Well MW-20S
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



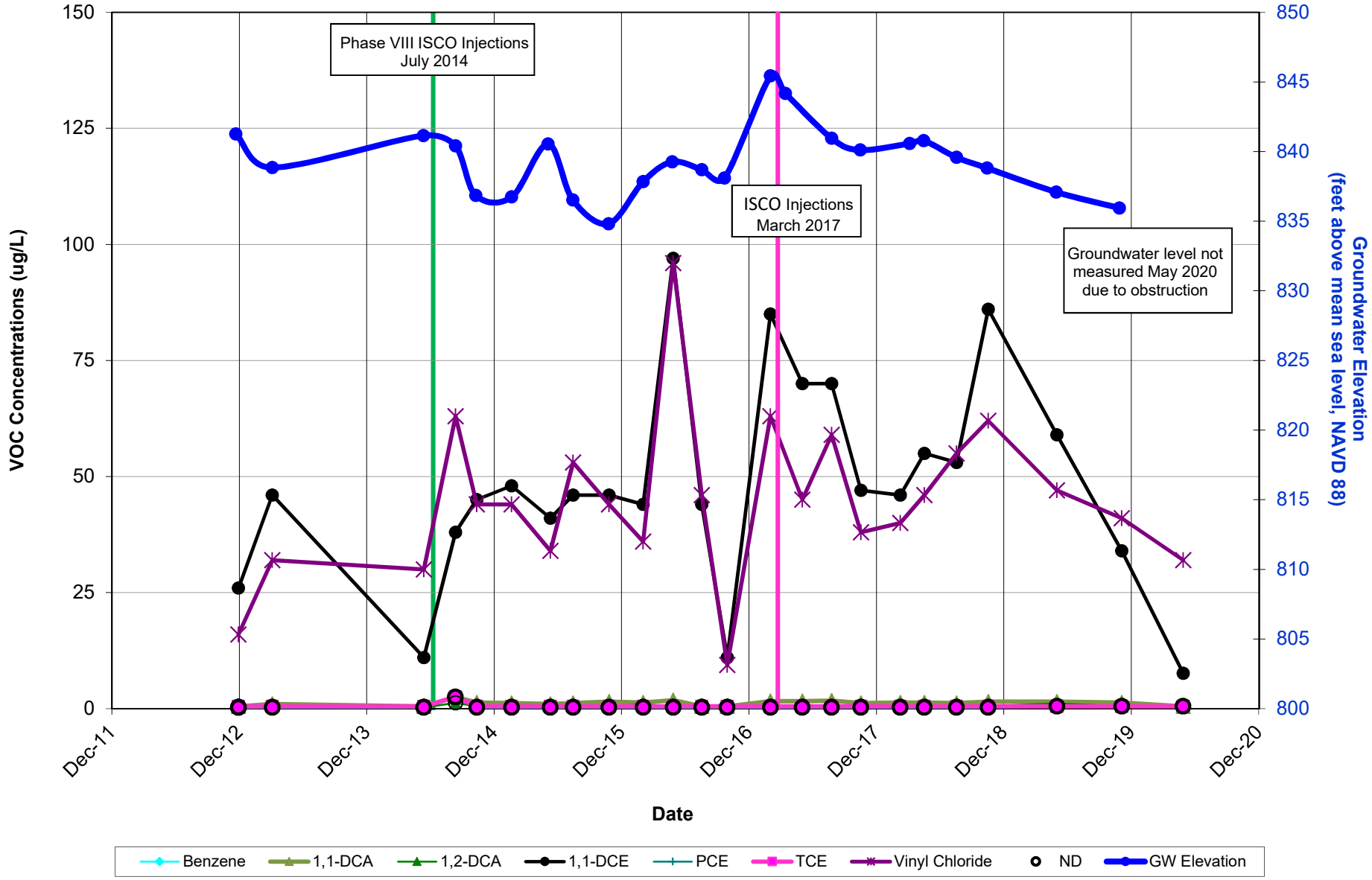
OTIE

Graph MW-37: VOC Concentrations and Groundwater Elevation vs. Time
Monitoring Well MW-37
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



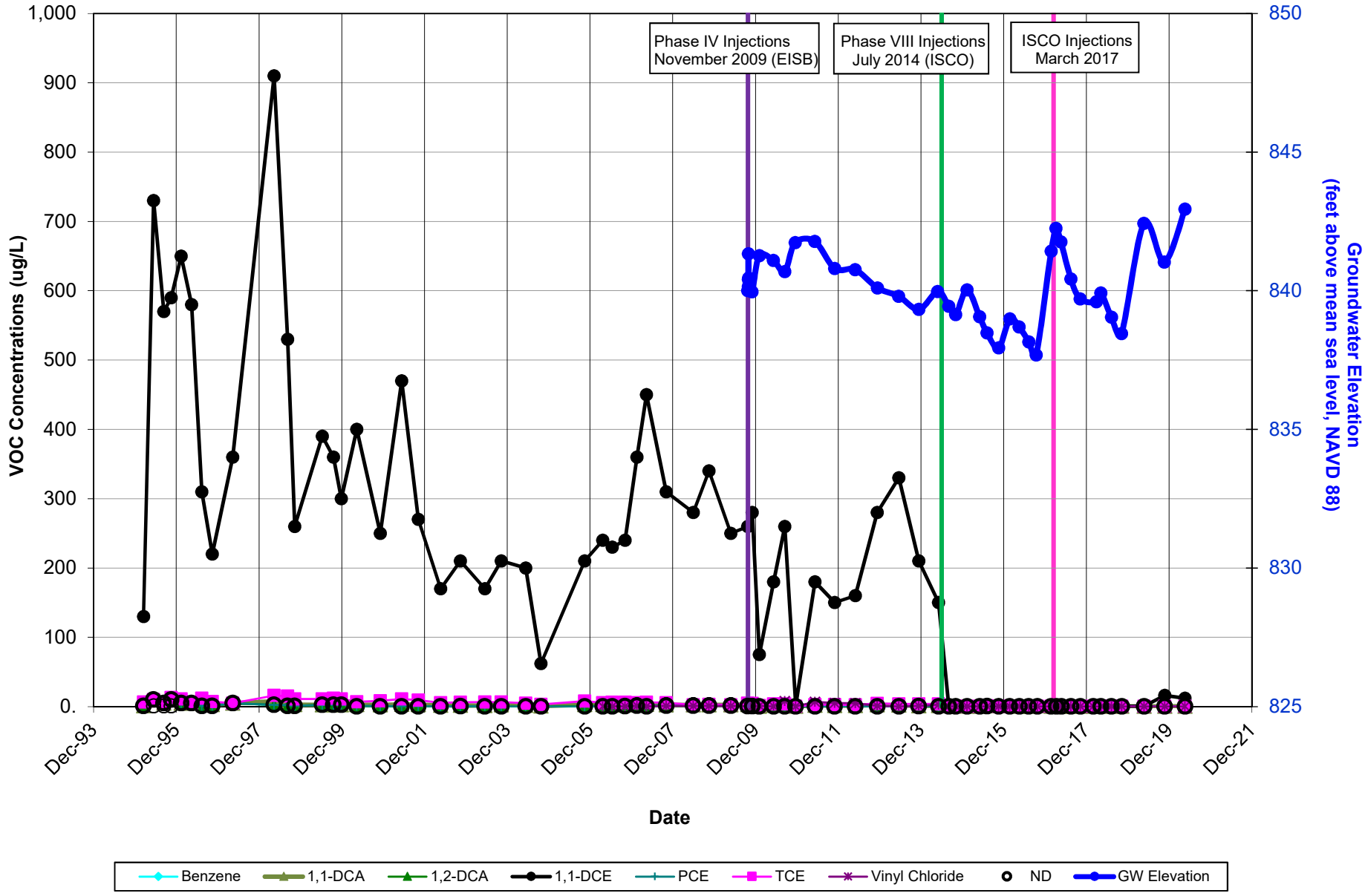
OTIE

Graph MW-39: VOC Concentrations and Groundwater Elevation vs. Time
Monitoring Well MW-39
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



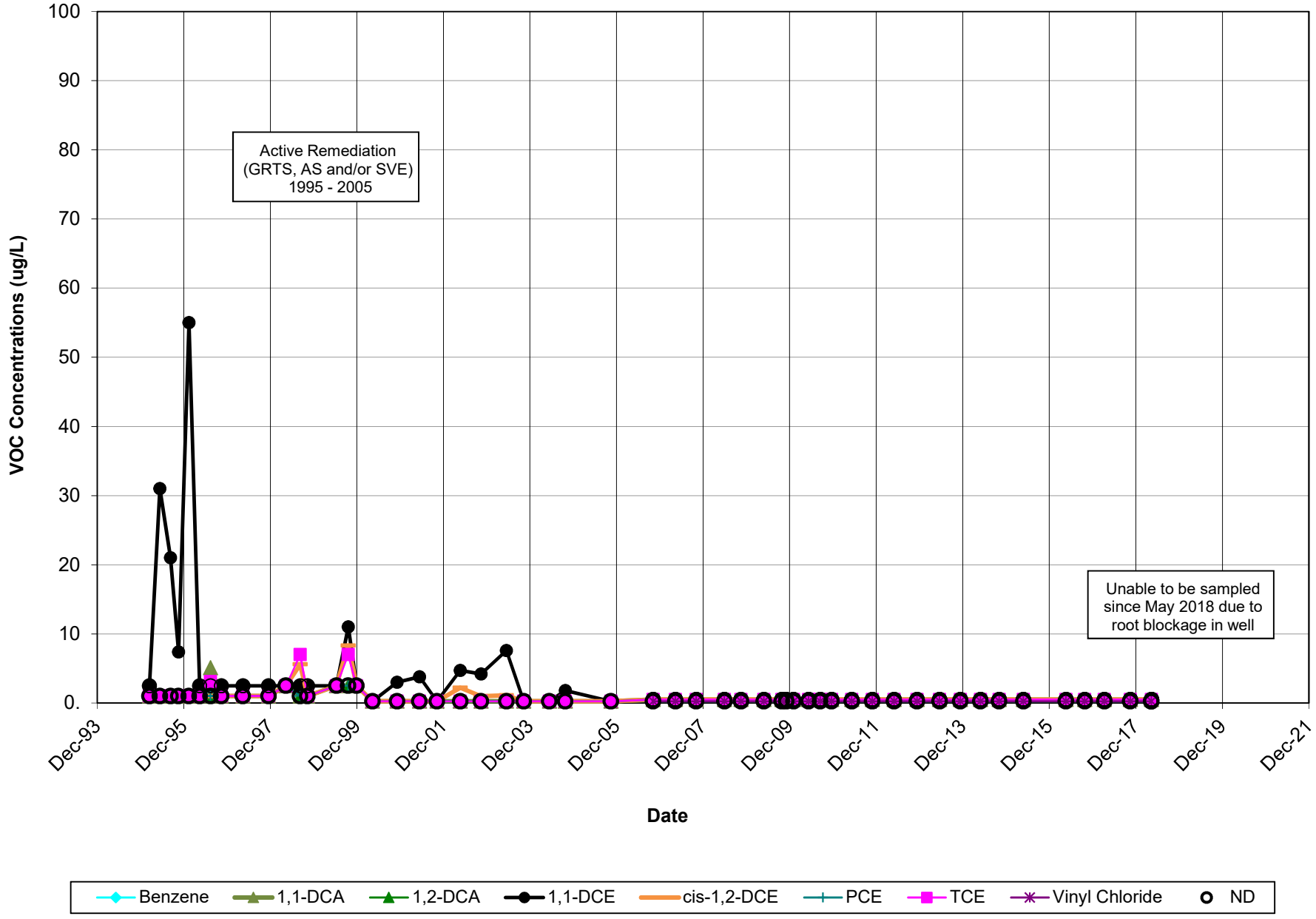
OTIE

Graph RW-01: VOC Concentrations and Groundwater Elevation vs. Time
Recovery Well RW-01
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



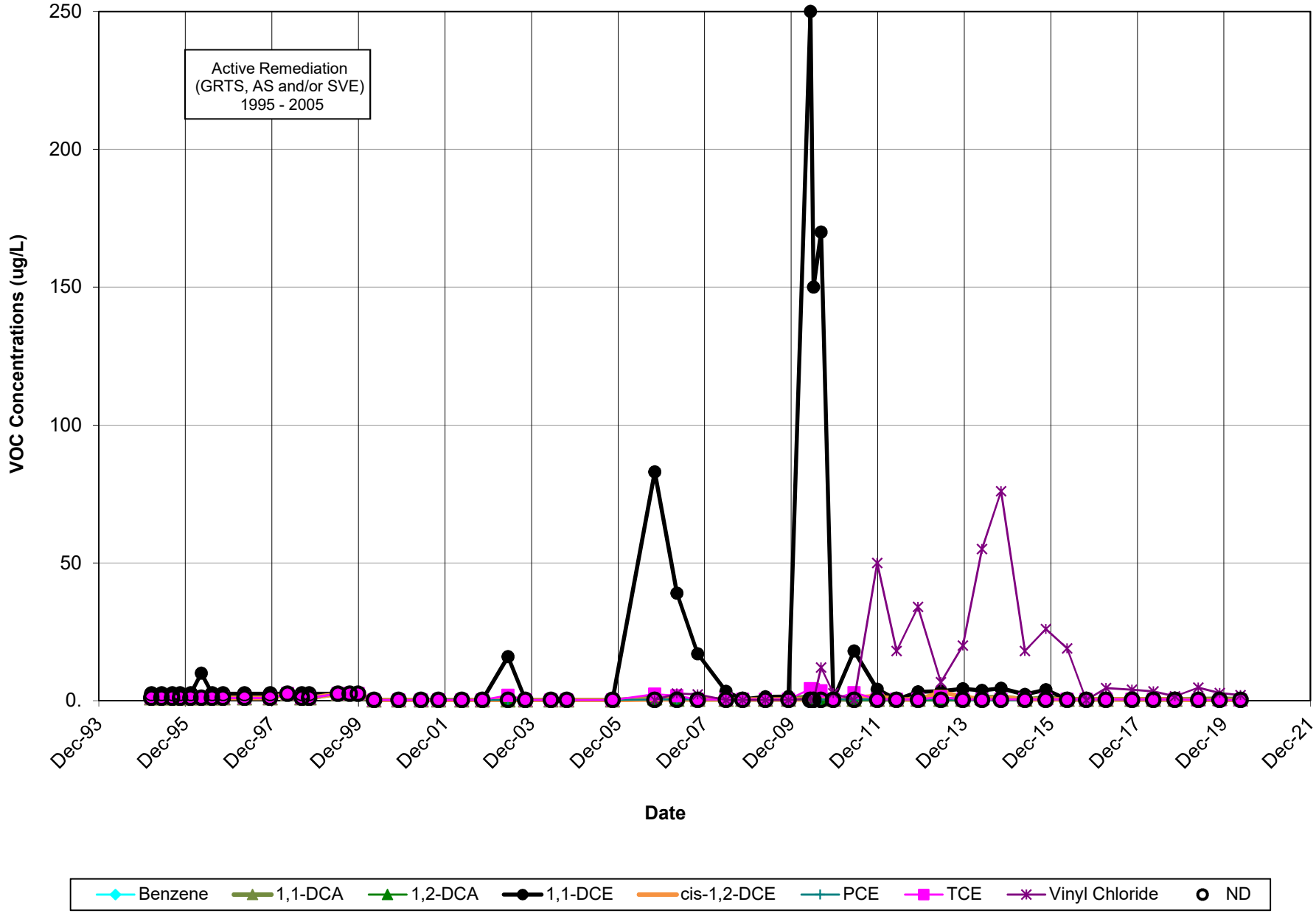
OTIE

Graph RW-02: VOC Concentrations vs. Time
Recovery Well RW-02
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



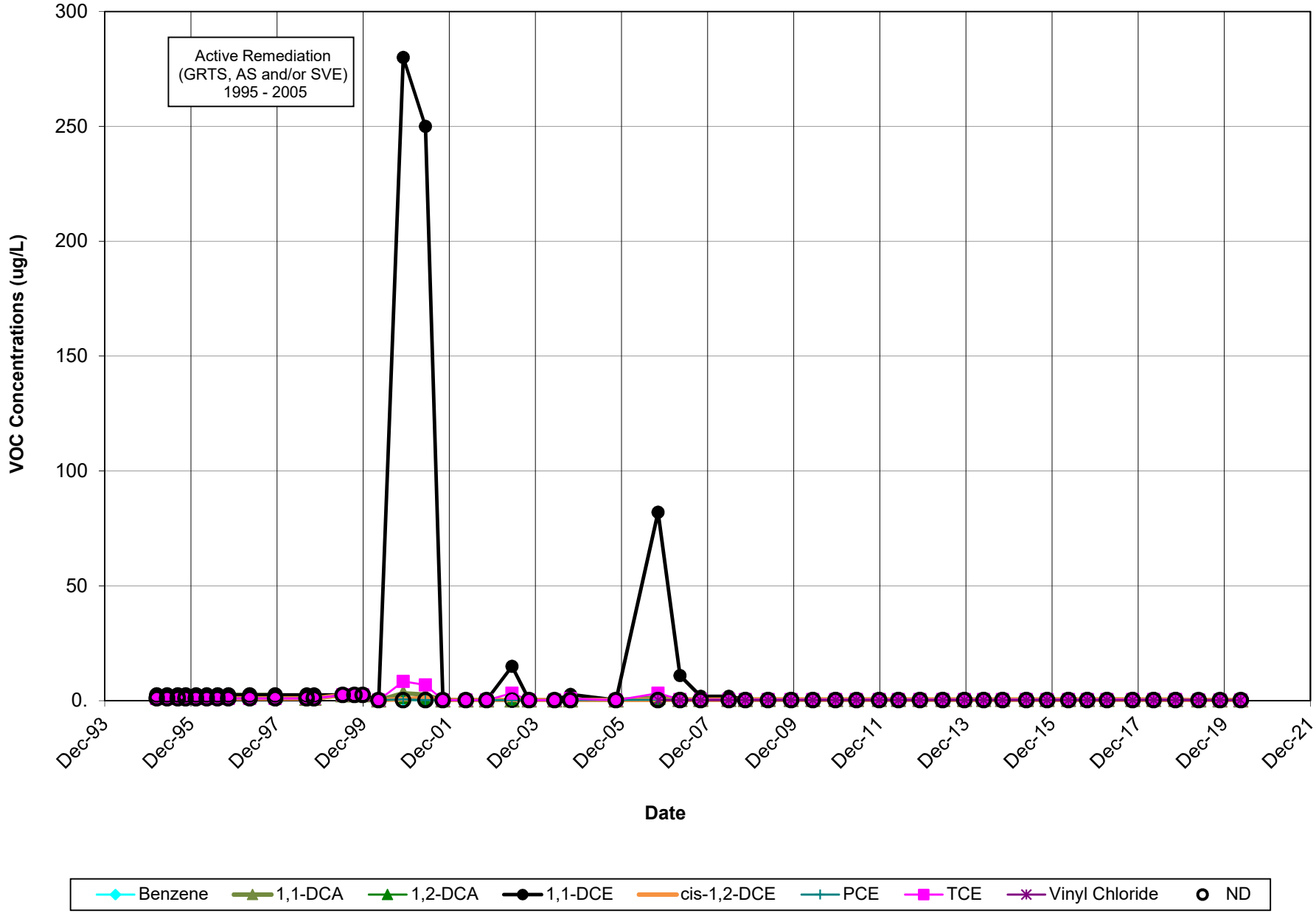
OTIE

Graph RW-04: VOC Concentrations vs. Time
Recovery Well RW-04
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



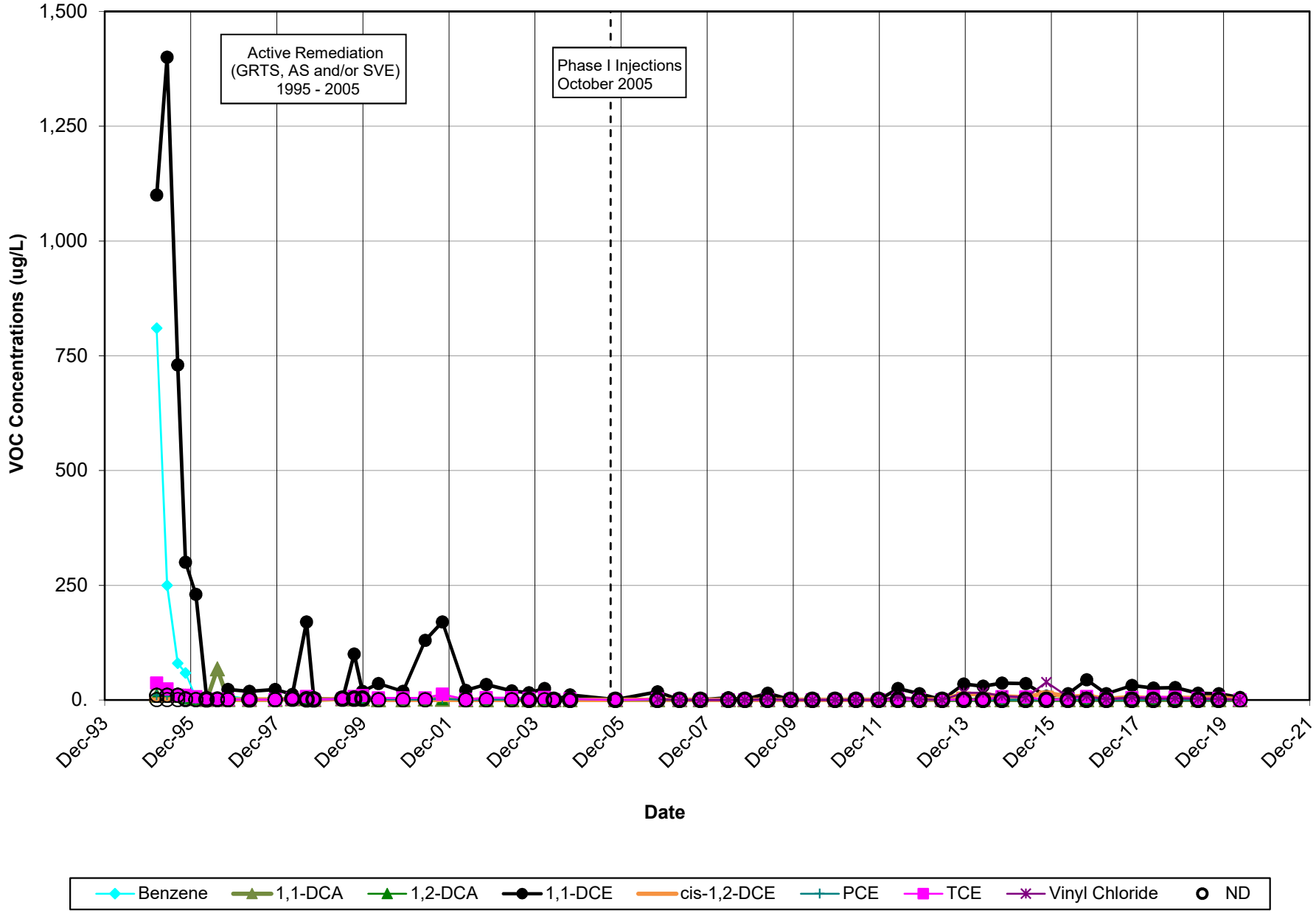
OTIE

Graph RW-05: VOC Concentrations vs. Time
Recovery Well RW-05
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



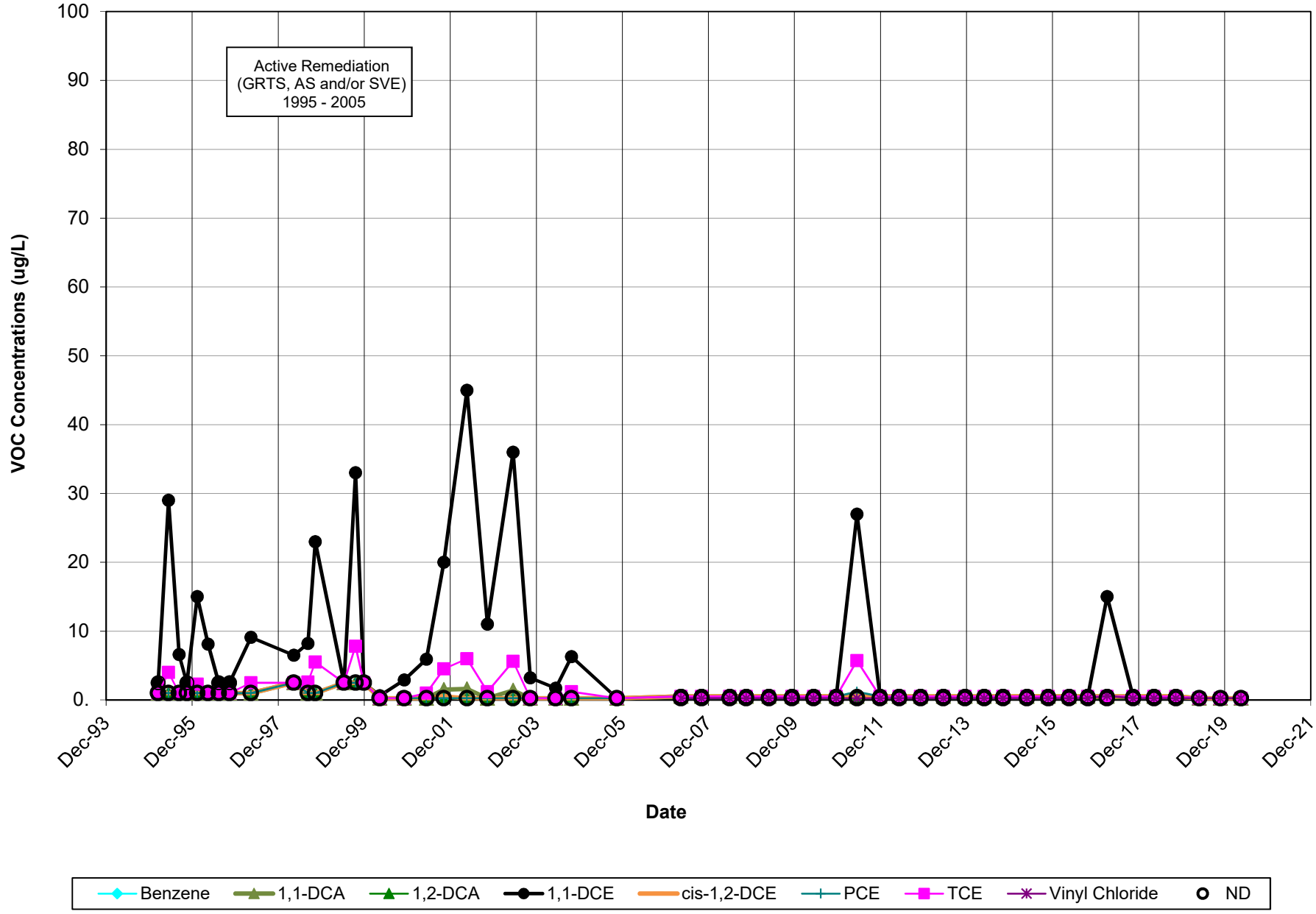
OTIE

Graph RW-06: VOC Concentrations vs. Time
Recovery Well RW-06
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



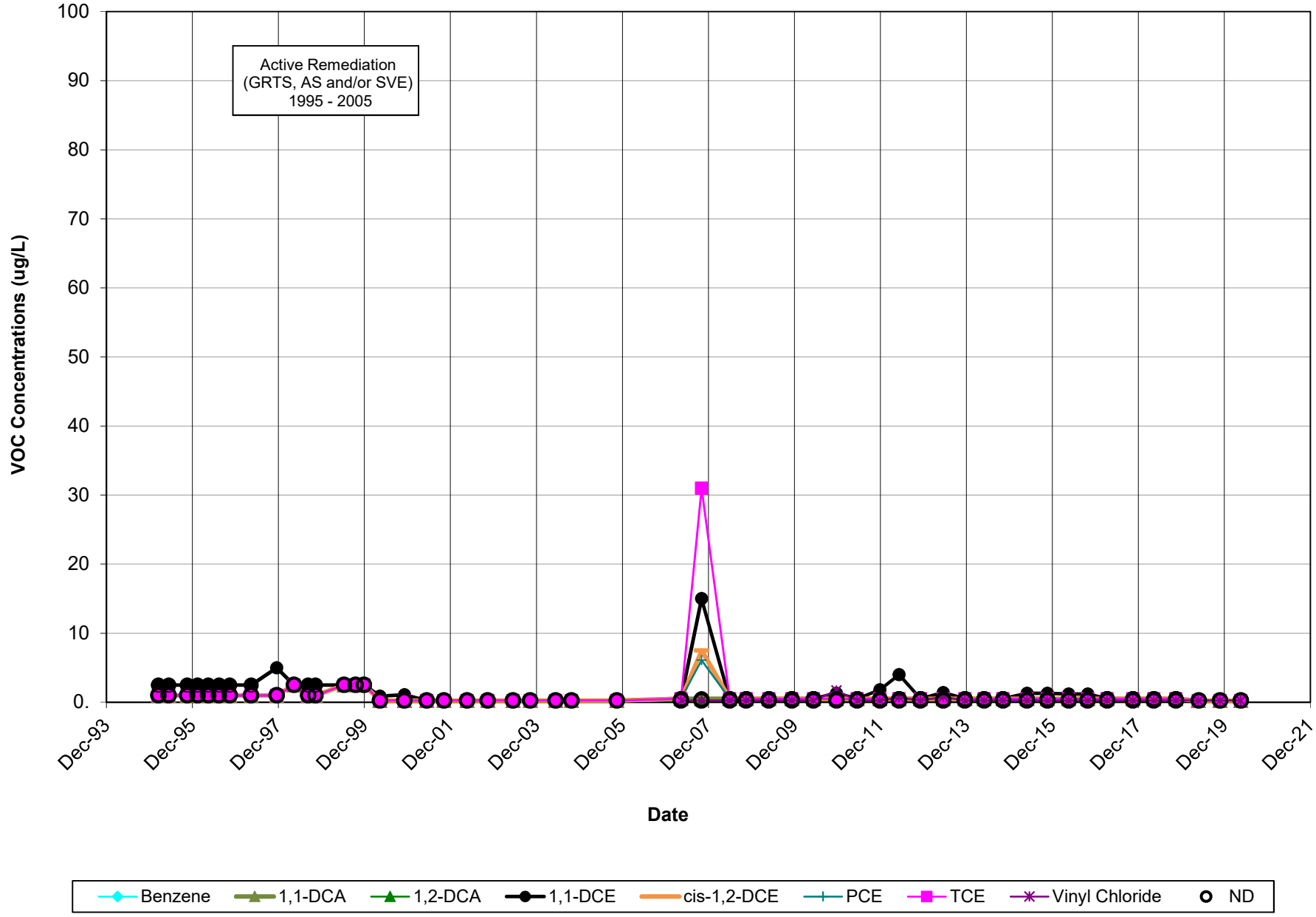
OTIE

Graph RW-07: VOC Concentrations vs. Time
Recovery Well RW-07
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



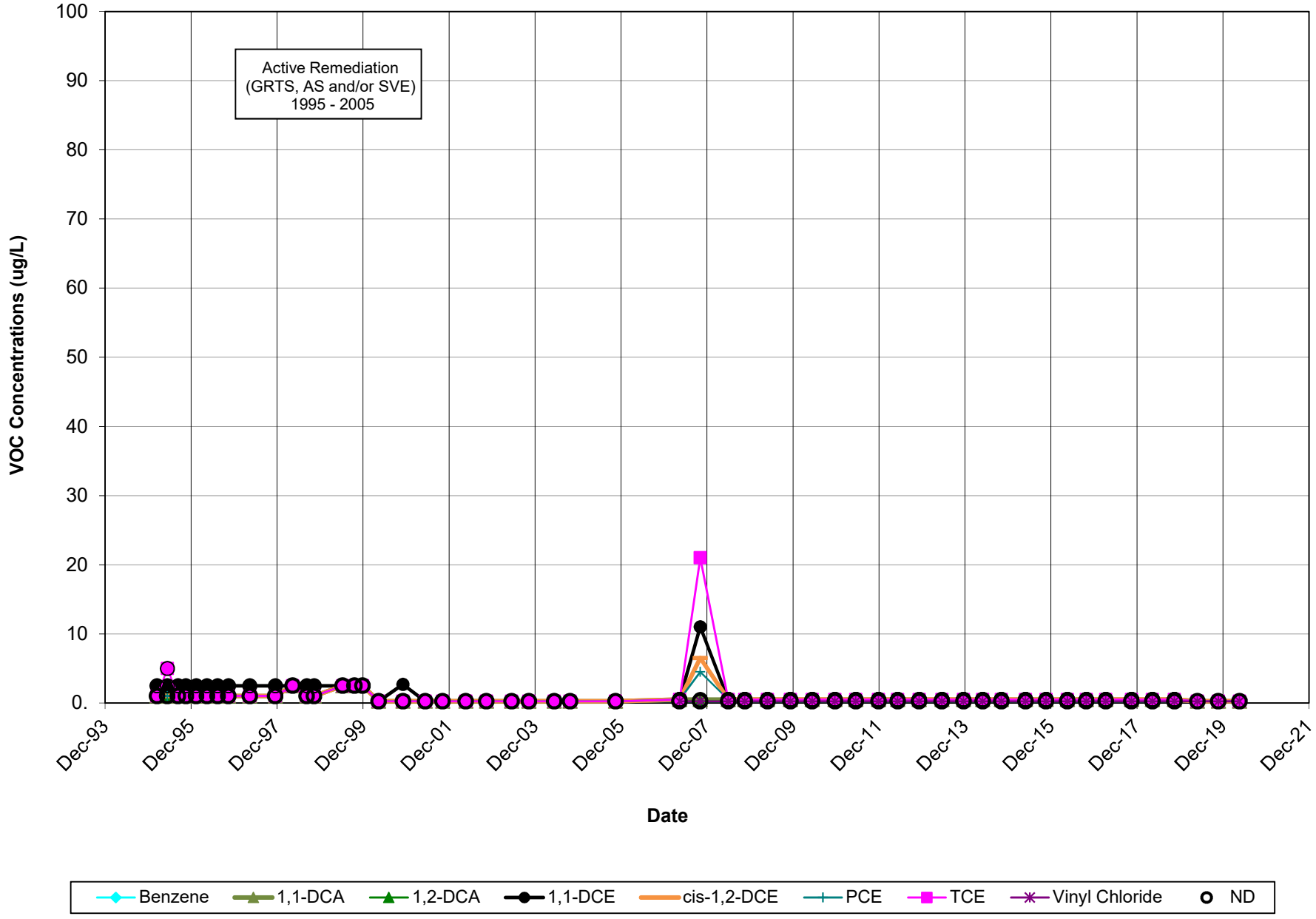
OTIE

Graph RW-08: VOC Concentrations vs. Time
Recovery Well RW-08
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



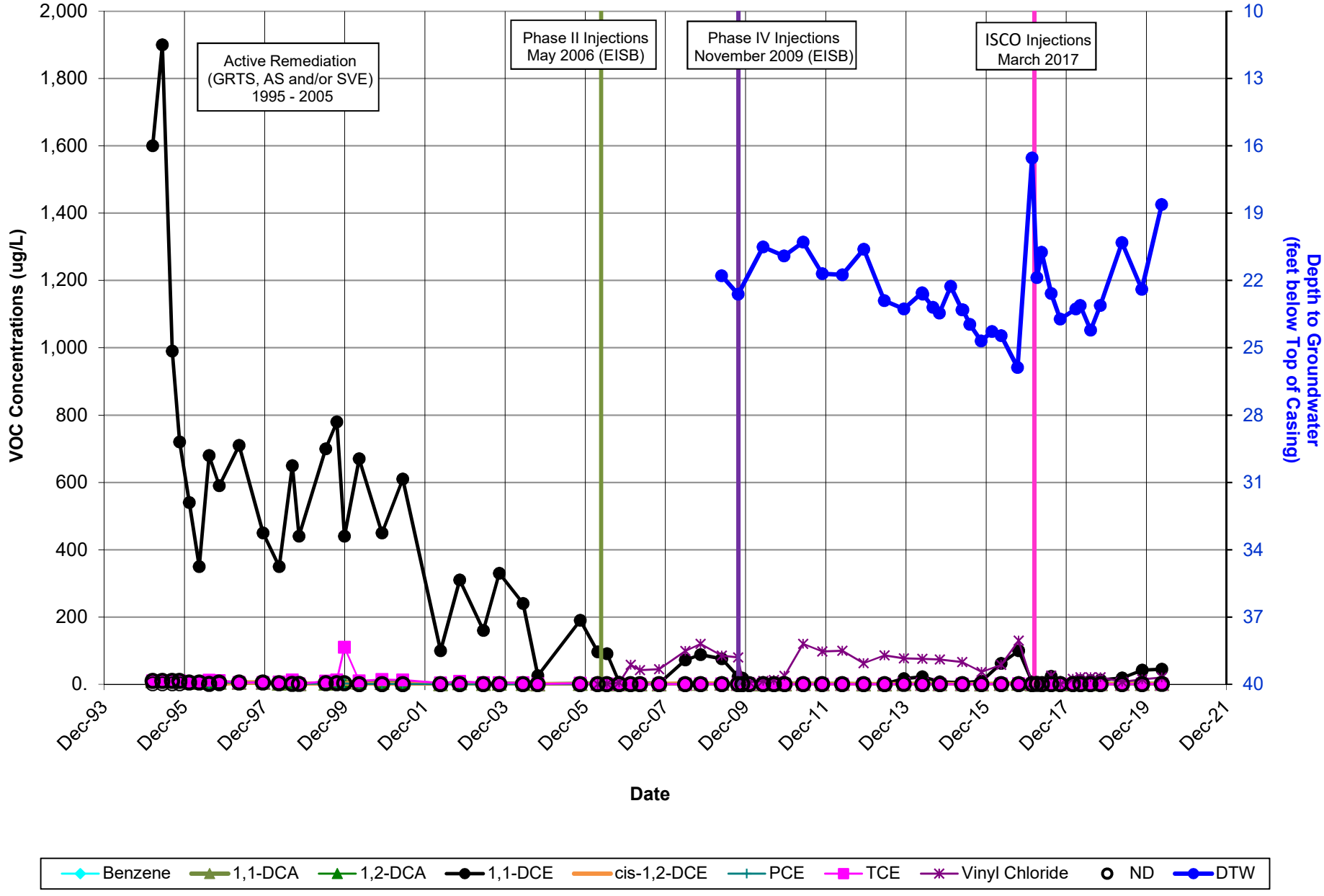
OTIE

Graph RW-09: VOC Concentrations vs. Time
Recovery Well RW-09
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



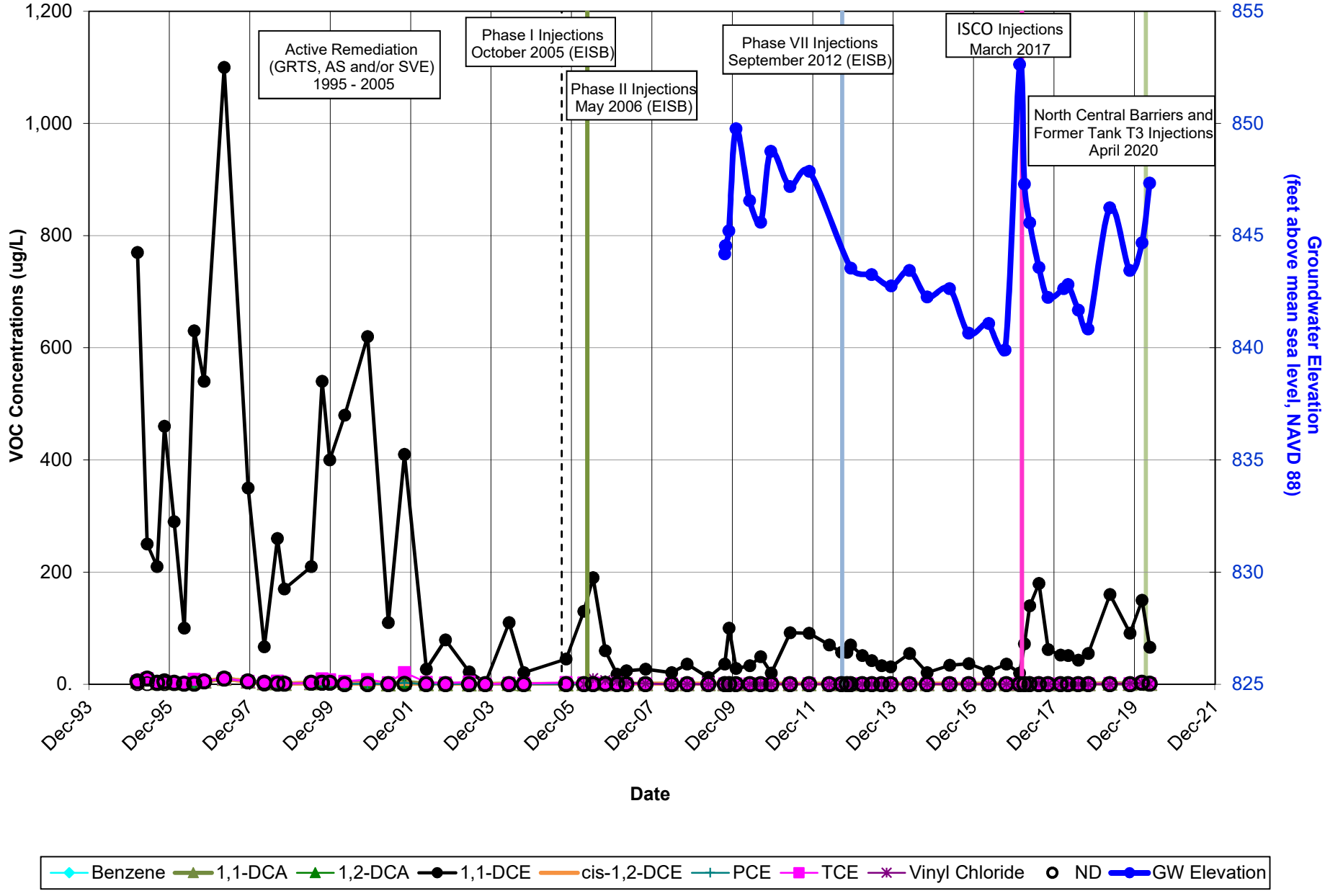
OTIE

Graph RW-10: VOC Concentrations and Depth to Groundwater vs. Time
Recovery Well RW-10
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



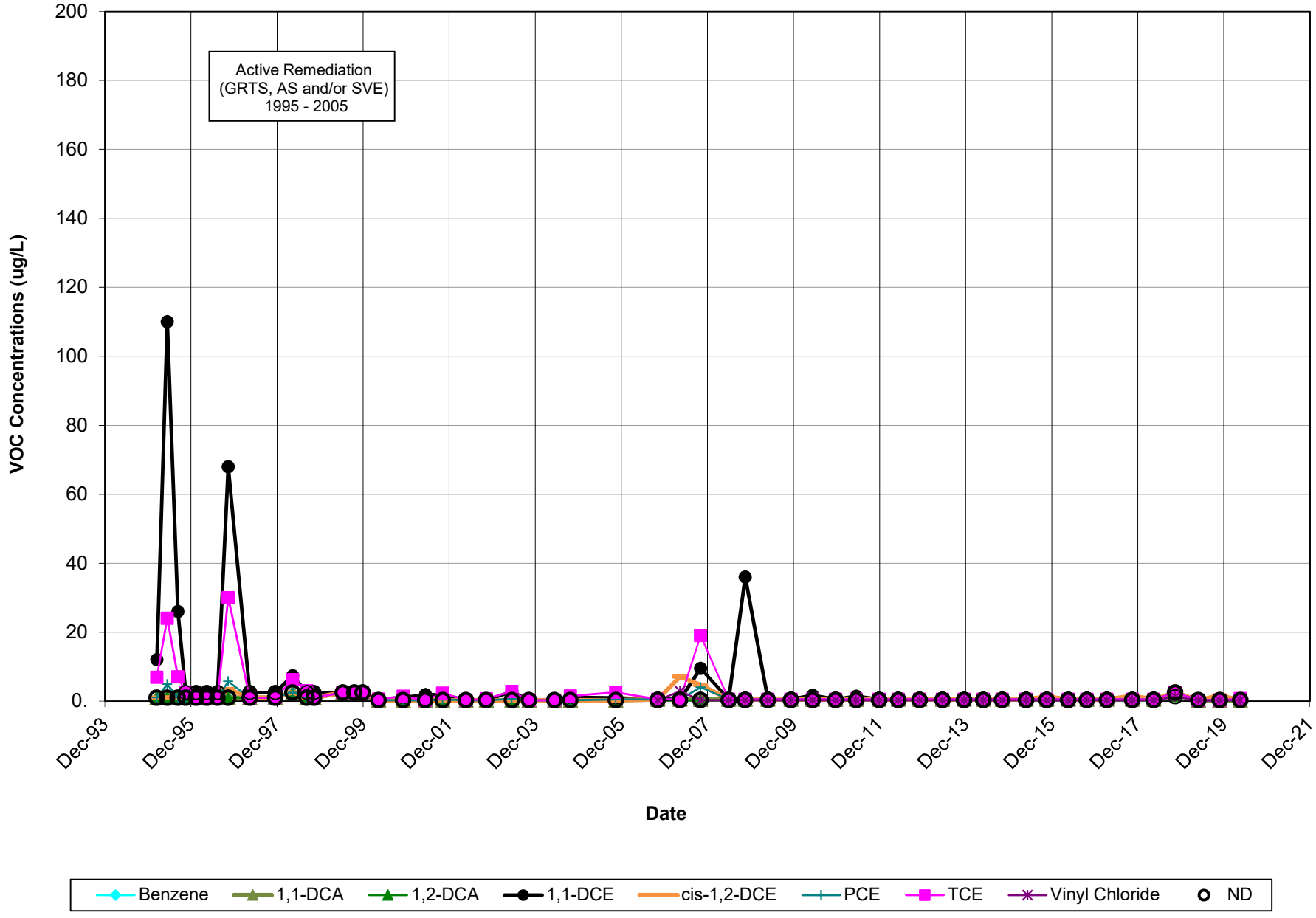
OTIE

Graph RW-11: VOC Concentrations and Groundwater Elevation vs. Time
Recovery Well RW-11
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



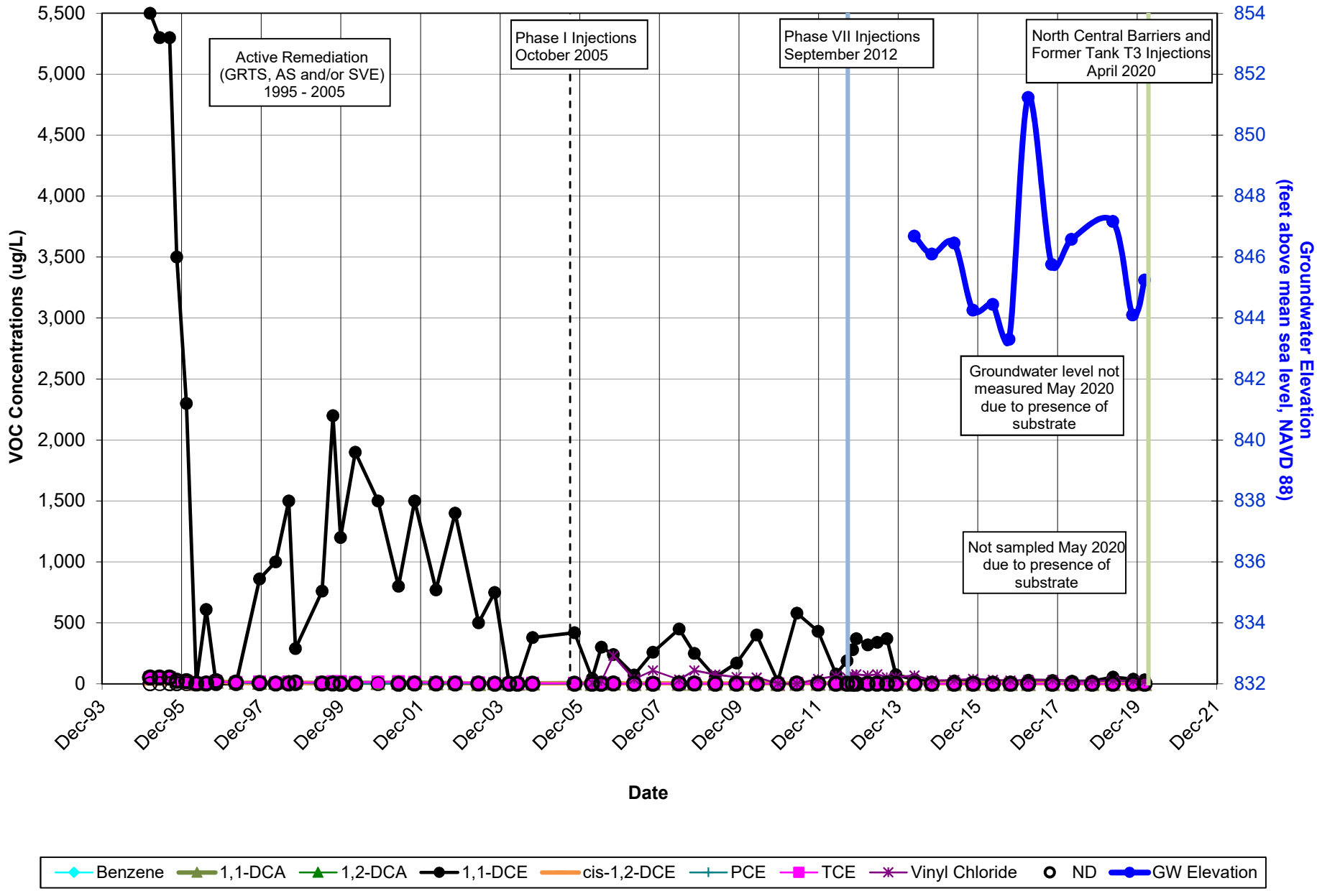
OTIE

Graph RW-13: VOC Concentrations vs. Time
Recovery Well RW-13
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



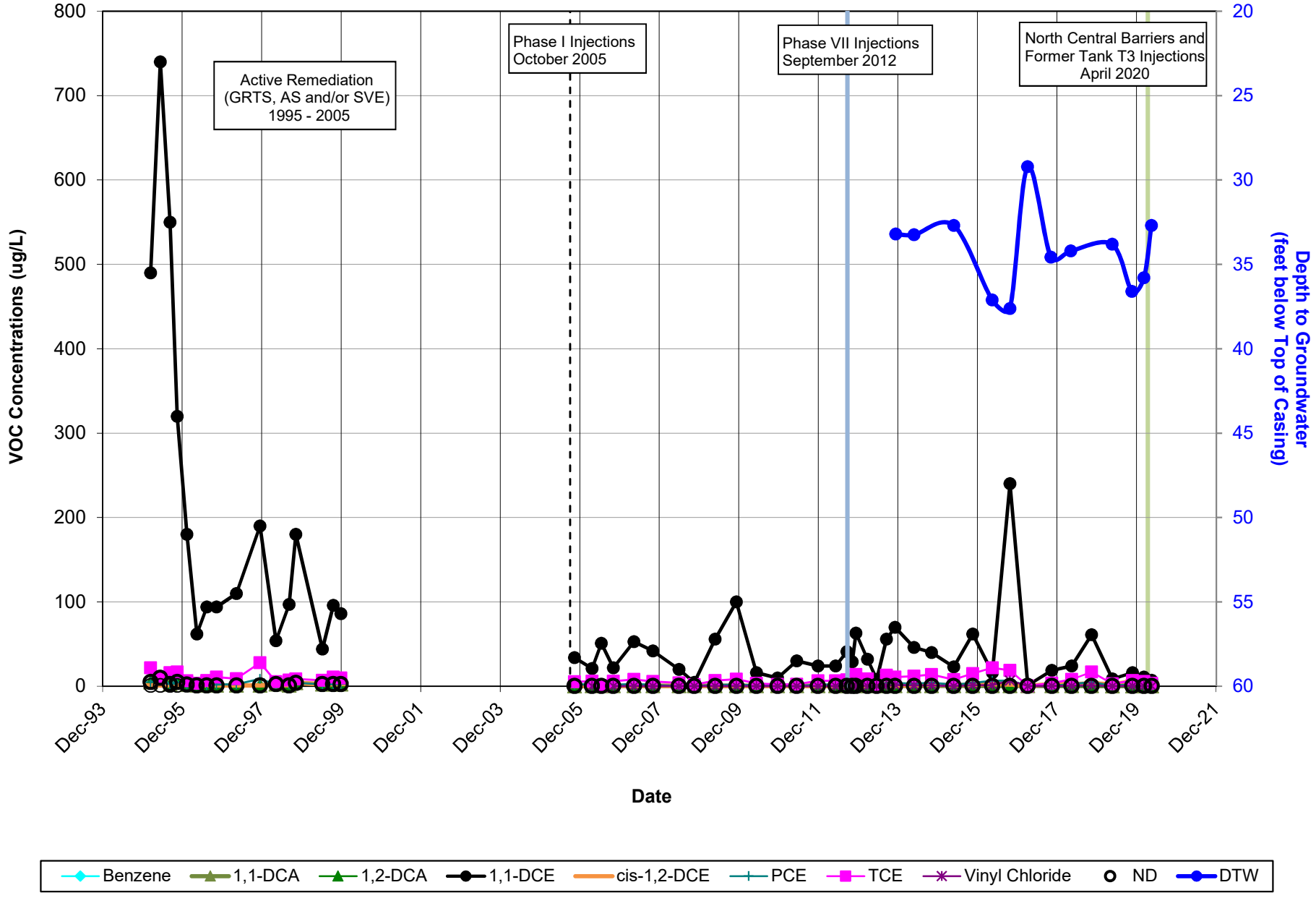
OTIE

Graph RW-14: VOC Concentrations and Groundwater Elevation vs. Time
Recovery Well RW-14
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



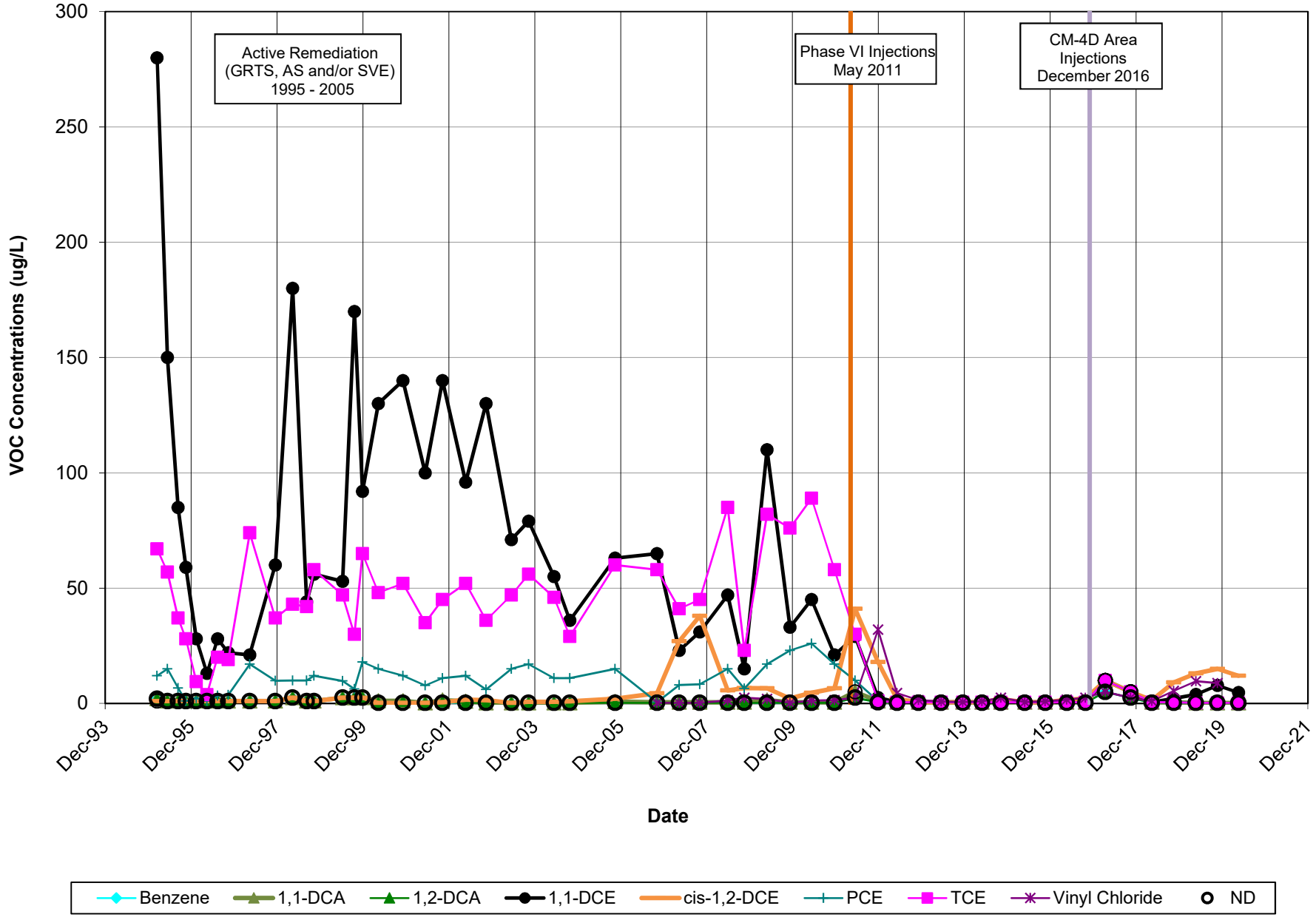
OTIE

Graph RW-15: VOC Concentrations and Depth to Groundwater vs. Time
Recovery Well RW-15
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



OTIE

Graph RW-16: VOC Concentrations vs. Time
Recovery Well RW-16
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



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Appendix A

Purge Logs and Field Forms

DEPTH TO WATER AND GROUNDWATER ELEVATION DATA

Former Raytheon Facility,8433 Fallbrook Avenue, Canoga Park, CA

Date: 5/18/20
Time: 0730

Technician: JF / EM

Well I.D.	Depth to Water (ft, TOC)	Measured Total Depth (ft, TOC)	Constructed Total Depth (feet bgs)	Screen Interval (ft, bgs)	Casing Diameter (inches) & Type	Depth to Water Nov 2019	Comments
M-1	28.68	NM	70.0	50-70	4, PVC	33.03	OILY INT SUBSTRATE
CM-2D	23.45	26.8	60.0	20-60	4, SS	28.86	INJECT. MATERIAL
CM-4D	31.31	44.4	60.0	20-60	4, SS	34.41	0 BOLTS
CM-7D	16.33	62.8	75.0	70-75	3, PVC	17.02	
CM-8D	49.50	74.2	70.0	30-70	4, SS	50.35	
CM-9D	31.60	60.1	60.0	20-60	4, SS	32.14	
CM-12	34.96	64.0	65.5	46-66	4, PVC	36.09	
CM-13	24.90	46.4??	(74.0)	39-74	4, PVC	37.31	DOUBLE MEASURED T.D
CM-14	16.52	35.9	33.0	18-33	4, PVC	17.85	LADWP
CM-16	37.01	75.3	70.0	40-70	4, SS	39.12	
CM-18	47.40	68.5	70.0	41-72	4, SS	48.35	
CM-19	58.94	100.5	99.0	69-99	4, PVC	62.41	LADWP
MW-15	25.05	98.4	101.5	92-101.5	4, SS	26.10	
MW-16	33.39	97.6	120.0	100-120	4, SS	36.12	
MW-17	30.0	50.0	47.0	37-47	2, SS	dry	LADWP
MW-19S	17.55	30.2	30.0	20-30	2, SS	19.43	
MW-19D	9.89	100.2	100.0	80-100	2, SS	10.46	
MW-20S	14.80	40.0	40.0	30-40	2, SS	16.69	
MW-20D	14.27	75.8	80.0	60-80	2, SS	15.65	
MW-23	23.20	56.6	55.0	25-55	4, SS	29.20	No Bolts / INJECTION MATERIAL
MW-24	37.95	64.5	65.0	35-65	4, PVC	39.04	
MW-25	50.10	68.9	70.0	40-70	4, PVC	49.92	
MW-26	45.61	70.0	70.0	40-70	4, PVC	46.38	
MW-27	38.34	64.7	65.0	35-65	4, PVC	39.22	
MW-32S	31.69	37.1	45.0	35-45	2, PVC	36.02	
MW-35S	33.01	37.0	45.0	35-45	2, PVC	37.00	
MW-36	25.29	38.9	40.0	30-40	4, PVC	30.82	
MW-37	49.89	58.8	60.0	50-60	4, PVC	50.75	
MW-38	26.40	60.5	60.7	40.5-60.5	4, PVC	32.16	
MW-39	14.4	—	40.0	30-40	3/4, PVC	28.12	NWA OBSTRUCTION AT 14.4 ftbgs. 0 mg/L

Suspect

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DEPTH TO WATER AND GROUNDWATER ELEVATION DATA

Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Date: 5/18/20
Time: 0730

Technician: JF, EM

Well I.D.	Depth to Water (ft, TOC)	Measured Total Depth (ft, TOC)	Constructed Total Depth (feet bgs)	Screen Interval (ft, bgs)	Casing Diameter (inches) & Type	Depth to Water Nov 2019	Comments
MW-40	14.61	41.0	41.0	26-41	3/4, PVC	15.68	NWA
MW-41	24.95	39.5	40.0	25-40	3/4, PVC	25.93	NWA ~25mg/L
MW-42	18.42	38.8	40.0	25-40	3/4, PVC	27.04	NWA ~0 mg/L
MW-43	18.25	41.0	41.0	26-41	3/4, PVC	18.23	
MW-44	17.56	49.0	41.0	26-41	3/4, PVC	18.88	
VW-122	~~29.10~~ ~~#6.74~~	~~40.0~~ ~~#6.38~~	40.0	25-40	3, PVC	32.89	DTW OBSTRUCTED / ROOTS
RW-01	18.62	49.2	50.0	10-50	6, PVC	20.53	NWA
RW-02	16.74	16.8	50.0	--	4, PVC	4.73	
RW-10	18.62	49.2	60.0	--	5, PVC	22.40	
RW-11	21.74	61.3	70.0	--	5, PVC	25.72	
RW-14	24.92	59.4	55.0	10-50	5, PVC	30.27	
RW-15	32.69	74.6	74.0	29-69	5, PVC	36.60	
RW-16	31.32	72.3	70.0	25-65	5, PVC	27.90	Taken 74" above well casing
IP-01	49.82	71.7	70.0	50-70	2, PVC	50.62	0 BOLTS

VW-122 = 3" PVC 30.5" * 48.5" * 6' 1.5"
RUSTED, MISSING HINGES

Notes:

1) ft = feet

2) TOC = top of well casing

3) MSL = Mean Sea Level, National Geodetic Vertical Datum of 1929 (NGVD29)

4) bgs = below ground surface

5) A = annual; SA = semiannual

6) HWSA = former hazardous waste storage area

7) -- = data not available.

Observe groundwater in all NWA wells for Permanganate. Note "screening" color on purge logs and gauging

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☐	☑
Vault Seal	☐	☑
Bolts	☐	☑
Vault Lock	☐	☐ NA
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: CM-2D **Date:** 5/19/20 **Project No:** 2020047/0102

A. Depth to water 23.58 feet **Location:** Canoga Park

B. Total depth of well 26.8 feet **Event:** 1SA20

C. Standing water in casing — feet **Sampler(s):** JF

D. 80% column height — feet **80% DTW** — feet

Screened Interval: — to — ft bgs

Inlet Timer: ____sec **Discharge Timer:** ____sec **Pressure:** ____psi

Purge Rate (mL/Min)	Milliliters total purged volume (mL)	DTW (ft below casing)	Time	pH	Conductivity (mS/cm, S/m, or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	TDS (mg/L or g/L)	ORP (+/- mV)
	0			--	--	--	--	--	--	--
		INJECTION		SUBSTRATE		IN	WELL.		--	
									--	
				DID	NOT	SAMPLE.			--	
									--	
									--	
						-JF			--	
									--	
									--	
									--	

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☐ Other:____ **Pump inlet depth:** ____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☐ Other:____ **Sample depth** ____ ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: ____ **Sample ID:** ____

Date/Time of QC Sample: ____ **Date/Time of Sample:** ____

Sample Filtered?: Y N **Filter Size:** ____

Additional Comments:

Water Meter Used:

U-22-TN-01	☐
U-22-TN-02	☐
YSI	☐
Smartroll	☐
Troll 9500	☐
Other:____	

ONEIDA Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad	
Well Identification	☑	☐	
Vault Cover	☑	☐	
Vault Seal	☐	☑	
Bolts	☐	☑	
Vault Lock	☐	☐	NA
Concrete Completion	☑	☐	
Well Lock/Seal	☑	☐	

Well Number: CM-4D **Date:** 5/21/20 **Project No:** 2020047/0102

A. Depth to water 31.40 feet **Location:** Canoga Park

B. Total depth of well 44.4 feet **Event:** 1SA20

C. Standing water in casing 13.0 feet **Sampler(s):** JF

D. 80% column height 19.28 feet **80% DTW** 25.12 feet

Screened Interval: 20 to 60 ft bgs

Inlet Timer: _____ sec **Discharge Timer:** _____ sec **Pressure:** _____ psi

Purge Rate (mL/Min)	Milliliters total purged volume (mL)	DTW (ft below casing)	Time	pH	Conductivity (mS/cm, S/m, or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	TDS (mg/L or g/L)	ORP (+/- mV)
200	0	31.53	1050	--	--	--	--	--	--	--
		31.62	1055	7.04	1468	0.0	0.51	26.1	--	-70.4
		31.80	1100	6.98	1452	0.0	0.30	25.7	--	-85.1
		31.89	1105	6.97	1472	0.0	0.20	25.8	--	-89.7
		31.93	1110	6.97	1494	0.0	0.21	25.5	--	-91.4
	5,000	31.96	1115	6.98	1498	0.0	0.23	25.8	--	-90.4
									--	
									--	
									--	
									--	

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: MONSOON **Pump inlet depth:** 37 ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☐ Other: MONSOON **Sample depth** 37 ft

QA/QC Sample Collected Here? ☒ Duplicate ☒ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: DUP1 - 202185 | 11 | 11 **Sample ID:** CM-4D - 202105

Date/Time of QC Sample: 5/21/20 1140 | 5/21/20 **Date/Time of Sample:** 5/21/20 1116

Sample Filtered?: Y (N) **Filter Size:** _____

Water Meter Used:

U-22-TN-01	☐
U-22-TN-02	☐
YSI	☑
Smartroll	☐
Troll 9500	☐
Other:	

Additional Comments:

ONEIDA Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad	
Well Identification	☑	☐	
Vault Cover	☐	☑	
Vault Seal	☐	☑	
Bolts	☐	☑	
Vault Lock	☐	☐	N/A
Concrete Completion	☑	☐	
Well Lock/Seal	☐	☐	

Well Number: CM-7D/D **Date:** 5/14/20 **Project No:** 2020047/0102

A. Depth to water 16.99 feet **Location:** Canoga Park

B. Total depth of well 62.8 feet **Event:** 1SA20

C. Standing water in casing 46.31 feet **Sampler(s):** JF

D. 80% column height 37.048 feet **80% DTW** 13.192 feet

Screened Interval: 20 to 60 ft bgs

Inlet Timer: _____sec **Discharge Timer:** _____sec **Pressure:** _____psi

Purge Rate (mL/Min)	Milliliters total purged volume (mL)	DTW (ft below casing)	Time	pH	Conductivity (mS/cm, S/m, or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	TDS (mg/L or g/L)	ORP (+/- mV)
200	0	16.90	1305	--	--	--	--	--	--	--
100	1,000	17.51	1310	7.31	2239	0.0	0.35	23.1	--	-294.8
1	1500	17.80	1315	7.29	2359	0.0	0.24	23.7	--	-300.9
50	|	18.00	1320	7.29	2374	0.0	0.63	23.8	--	-307.0
	|	18.20	1325	7.29	2379	0.0	0.49	23.8	--	-302.6
	|	18.40	1330	7.29	2375	0.0	0.44	23.8	--	-295.7
	1600	18.58	1335	7.30	2369	0.0	0.43	23.9	--	-296.3
									--	
									--	
									--	

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: NONSOON **Pump inlet depth:** ~~47~~ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: NONSOON **Sample depth** ~~47~~ ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☒ No QA/QC Sample

QA/QC Sample ID: _____ **Sample ID:** CM-7D-201905

Date/Time of QC Sample: _____ **Date/Time of Sample:** 5/14/20 1336

Sample Filtered?: Y (N) **Filter Size:** _____

Additional Comments:

Water Meter Used:

U-22-TN-01	☐
U-22-TN-02	☐
YSI	☑
Smartroll	☐
Troll 9500	☐
Other:	_____

ONEIDA Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad	
Well Identification	☑	☐	
Vault Cover	☑	☐	
Vault Seal	☑	☐	
Bolts	☑	☐	
Vault Lock	☐	☐	NA
Concrete Completion	☑	☐	
Well Lock/Seal	☑	☐	

Well Number: CM-8D **Date:** 5/21/20 **Project No:** 2020047/0102

A. Depth to water 49.55 feet **Location:** Canoga Park

B. Total depth of well 74.2 feet **Event:** 1SA20

C. Standing water in casing 24.65 feet **Sampler(s):** JF

D. 80% column height 19.72 feet **80% DTW** 39.64 feet

Screened Interval: 30 to 70 ft bgs

Inlet Timer: _____ sec **Discharge Timer:** _____ sec **Pressure:** _____ psi

Purge Rate (mL/Min)	Milliliters total purged volume (mL)	DTW (ft below casing)	Time	pH	Conductivity (mS/cm, S/m, or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	TDS (mg/L or g/L)	ORP (+/- mV)
200	0	49.70	0830	--	--	--	--	--	--	--
		49.70	0835	7.21	2298	2.1	0.43	21.5	--	-68.0
		49.72	0840	7.17	2469	1.8	0.27	21.5	--	-75.0
		49.72	0845	7.14	2473	1.6	0.22	21.4	--	-71.1
		49.72	0850	7.13	2474	2.2	0.21	21.9	--	-70.6
	5,000	49.72	0855	7.13	2476	0.8	0.20	21.5	--	-71.6
									--	
									--	
									--	
									--	

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: MONSOON **Pump inlet depth:** -62 ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: MONSOON **Sample depth** -62 ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☒ No QA/QC Sample

QA/QC Sample ID: _____ **Sample ID:** CM-8D-202105

Date/Time of QC Sample: _____ **Date/Time of Sample:** 5/21/20 0856

Sample Filtered?: Y (N) **Filter Size:** _____

Water Meter Used:

U-22-TN-01	☐
U-22-TN-02	☐
YSI	☑
Smartroll	☐
Troll 9500	☐
Other:	

Additional Comments:

ONEIDA Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☐	☑ 0/R
Bolts	☐	☑ MM
Vault Lock	☐	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: CM-16 **Date:** 5/21/20 **Project No:** 2020047/0102

A. **Depth to water** 37.35 feet **Location:** Canoga Park

B. **Total depth of well** 75.3 feet **Event:** 1SA20

C. **Standing water in casing** 37.95 feet **Sampler(s):** JF

D. **80% column height** 30.36 feet **80% DTW** 29.88 feet

Screened Interval: 40 to 70 ft bgs

Inlet Timer: _____ sec **Discharge Timer:** _____ sec **Pressure:** _____ psi

Purge Rate (mL/Min)	Milliliters total purged volume (mL)	DTW (ft below casing)	Time	pH	Conductivity (mS/cm, S/m, or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	TDS (mg/L or g/L)	ORP (+/- mV)
200	0	37.74	1244	--	--	--	--	--	--	--
		38.00	1249	7.18	1579	6.6	0.85	26.4	--	-98.2
		38.09	1254	7.11	1542	0.0	0.73	27.6	--	-91.2
		38.01	1259	7.11	1547	0.0	0.77	28.2	--	-93.7
	4,000	38.01	1304	7.12	1540	0.0	0.83	28.1	--	-91.7
									--	
									--	
									--	
									--	
									--	

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: MONSOON **Pump inlet depth:** 55 ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: MONSOON **Sample depth** 55 ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☒ No QA/QC Sample

QA/QC Sample ID: _____ **Sample ID:** CM-16-202105

Date/Time of QC Sample: _____ **Date/Time of Sample:** 5/21/20 1305

Sample Filtered?: Y (N) **Filter Size:** _____

Additional Comments:

Water Meter Used:

U-22-TN-01	☐
U-22-TN-02	☐
YSI	☑
Smartroll	☐
Troll 9500	☐
Other:	

ONEIDA Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad	
Well Identification	☑	☐	
Vault Cover	☐	☑	
Vault Seal	☐	☑	
Bolts	☐	☑	
Vault Lock	☐	☐	N/A
Concrete Completion	☑	☐	
Well Lock/Seal	☑	☐	

Well Number: MW-15 **Date:** 5/19/20 **Project No:** 2020047/0102

A. Depth to water 25.05 feet **Location:** Canoga Park

B. Total depth of well 98.04 feet **Event:** 1SA20

C. Standing water in casing 72.99 feet **Sampler(s):** JF

D. 80% column height 58.392 feet **80% DTW** 20.04 feet

Screened Interval: 92 to 101.5 ft bgs

Inlet Timer: _____ sec **Discharge Timer:** _____ sec **Pressure:** _____ psi

Purge Rate (mL/Min)	Milliliters total purged volume (mL)	DTW (ft below casing)	Time	pH	Conductivity (mS/cm, S/m, or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	TDS (mg/L or g/L)	ORP (+/- mV)
200	0	25.30	0842	--	--	--	--	--	--	--
		25.30	0847	8.22	164.6	0.0	2.85	24.0	--	+51.1
		25.30	0852	8.14	163.7	0.0	2.42	24.5	--	+46.8
		25.35	0857	8.11	163.8	0.0	1.74	24.9	--	+42.1
		25.34	0902	8.10	164.2	0.0	1.67	24.9	--	+40.8
	5.000	25.30	0907	8.10	164.6	0.0	1.46	25.3	--	+42.3
									--	
									--	
									--	
									--	

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: MONSOON **Pump inlet depth:** ~ 97 ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: MONSOON **Sample depth** ~ 97 ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☒ No QA/QC Sample

QA/QC Sample ID: _____ **Sample ID:** 201905 - MW-15

Date/Time of QC Sample: _____ **Date/Time of Sample:** 5/19/20 0908

Sample Filtered?: Y (N) **Filter Size:** N/A

Additional Comments:

Water Meter Used:

U-22-TN-01	☐
U-22-TN-02	☐
YSI	☑
Smartroll	☐
Troll 9500	☐
Other: _____	

ONEIDA Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad
Well Identification	☑	☐
Vault Cover	☐	☑
Vault Seal	☐	☑
Bolts	☐	☑
Vault Lock	☐	☐ NK
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: MW-16 **Date:** 5/21/20 **Project No:** 2020047/0102

A. Depth to water 33.59 feet **Location:** Canoga Park

B. Total depth of well 97.0 feet **Event:** 1SA20

C. Standing water in casing 61.41 feet **Sampler(s):** JF

D. 80% column height 49.128 feet **80% DTW** 26.87 feet

Screened Interval: 100 to 120 ft bgs

Inlet Timer: _____ sec **Discharge Timer:** _____ sec **Pressure:** _____ psi

Purge Rate (mL/Min)	Milliliters total purged volume (mL)	DTW (ft below casing)	Time	pH	Conductivity (mS/cm, S/m, or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	TDS (mg/L or g/L)	ORP (+/- mV)
200	0	33.94	1152	--	--	--	--	--	--	--
		34.29	1157	6.99	1633	0.0	0.77	26.8	--	+243.4
		34.40	1202	6.96	1679	0.0	0.45	27.4	--	+278.7
		34.63	1207	6.95	1707	0.9	0.41	26.2	--	+284.0
		34.82	1212	6.94	1725	4.7	0.38	26.3	--	+289.2
		35.03	1217	6.94	1732	5.5	0.38	26.3	--	+291.1
	6,000	35.21	1222	6.94	1728	6.7	0.35	26.3	--	+293.7
									--	
									--	
									--	

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: MONSOON **Pump inlet depth:** "95" ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: _____ **Sample depth** "95" ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☒ No QA/QC Sample

QA/QC Sample ID: _____ **Sample ID:** MW-16-202005

Date/Time of QC Sample: _____ **Date/Time of Sample:** 5/21/20 1223

Sample Filtered?: Y (N) **Filter Size:** _____

Additional Comments:

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☐
YSI	☑
Smartroll	☐
Troll 9500	☐
Other:	_____

ONEIDA Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad	
Well Identification	☑	☐	
Vault Cover	☑	☐	
Vault Seal	☑	☐	
Bolts	☐	☑	
Vault Lock	☐	☐	MH
Concrete Completion	☑	☐	
Well Lock/Seal	☑	☐	

Well Number: MW-19S **Date:** 5/20/20 **Project No:** 2020047/0102

A. Depth to water 18.26 feet **Location:** Canoga Park

B. Total depth of well 30.2 feet **Event:** 1SA20

C. Standing water in casing 11.94 feet **Sampler(s):** JF

D. 80% column height 9.55 feet **80% DTW** 14.61 feet

Screened Interval: 20 to 30 ft bgs

Inlet Timer: _____ sec **Discharge Timer:** _____ sec **Pressure:** _____ psi

Purge Rate (mL/Min)	Milliliters total purged volume (mL)	DTW (ft below casing)	Time	pH	Conductivity (mS/cm, S/m, or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	TDS (mg/L or g/L)	ORP (+/- mV)
200	0	18.69	1146	--	--	--	--	--	--	--
		18.94	1151	7.02	1394	148.8	1.55	20.4	--	-21.1
		18.85	1156	6.98	1404	108.1	1.99	22.3	--	-15.2
		19.12	1201	6.99	1401	75.5	1.41	21.4	--	-13.5
		19.23	1206	6.99	1380	48.0	1.42	21.4	--	-11.9
		19.34	1211	6.99	1396	32.9	1.40	21.7	--	-10.5
	6,000	19.44	1216	6.99	1372	19.3	1.37	21.9	--	-10.1
									--	
									--	
									--	

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: MONSOON **Pump inlet depth:** 25 ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: MONSOON **Sample depth** 25 ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☒ No QA/QC Sample

QA/QC Sample ID: _____ **Sample ID:** MW-19S-2020047

Date/Time of QC Sample: _____ **Date/Time of Sample:** 5/20/20 1217

Sample Filtered?: Y (N) **Filter Size:** _____

Additional Comments:

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☐
YSI	☑
Smartroll	☐
Troll 9500	☐
Other:	

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☐	☑
Vault Lock	☐	☐ NA
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: MW-19D **Date:** 5/20/20 **Project No:** 2020047/0102

A. Depth to water 9.99 feet **Location:** Canoga Park

B. Total depth of well 100.2 feet **Event:** 1SA20

C. Standing water in casing 90.21 feet **Sampler(s):** JF

D. 80% column height 72.168 feet **80% DTW** 7.99 feet

Screened Interval: 80 to 100 ft bgs

Inlet Timer: _____ sec **Discharge Timer:** _____ sec **Pressure:** _____ psi

Purge Rate (mL/Min)	Milliliters total purged volume (mL)	DTW (ft below casing)	Time	pH	Conductivity (mS/cm, S/m, or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	TDS (mg/L or g/L)	ORP (+/- mV)
200	0	10.11	1230	--	--	--	--	--	--	--
		10.95	1235	7.19	1267	0.0	3.10	23.6	--	-1.8
		11.14	1240	7.18	1250	20.8	3.18	25.0	--	-5.2
		11.20	1245	7.19	1299	39.0	3.12	26.5	--	-11.4
		11.46	1250	7.20	1571	71.3	2.67	24.9	--	-19.9
		11.61	1255	7.21	1572	55.0	2.50	24.3	--	-21.3
		11.83	1300	7.21	1565	57.3	2.80	26.1	--	-22.4
	8,000	11.98	1305	7.21	1573	54.0	3.04	28.1	--	-25.1
									--	
									--	

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: MONSOON **Pump inlet depth:** 90 ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: MONSOON **Sample depth** 90 ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☒ No QA/QC Sample

QA/QC Sample ID: _____ **Sample ID:** MW-19D-20200S

Date/Time of QC Sample: _____ **Date/Time of Sample:** 5/20/20 1306

Sample Filtered?: Y (N) **Filter Size:** _____

Water Meter Used:

U-22-TN-01	☐
U-22-TN-02	☐
YSI	☑
Smartroll	☐
Troll 9500	☐
Other: _____	

Additional Comments:

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad	
Well Identification	☐	☐	
Vault Cover	☑	☐	
Vault Seal	☑	☐	
Bolts	☐	☑	1/3
Vault Lock	☐	☐	MK
Concrete Completion	☑	☐	
Well Lock/Seal	☑	☐	

Well Number: MW-20S **Date:** 5/20/26 **Project No:** 2020047/0102

A. Depth to water 15.20 feet **Location:** Canoga Park

B. Total depth of well 40.0 feet **Event:** 1SA20

C. Standing water in casing 24.8 feet **Sampler(s):** JF

D. 80% column height 19.84 feet **80% DTW** 12.16 feet

Screened Interval: 30 to 40 ft bgs

Inlet Timer: _____ sec **Discharge Timer:** _____ sec **Pressure:** _____ psi

Purge Rate (mL/Min)	Milliliters total purged volume (mL)	DTW (ft below casing)	Time	pH	Conductivity (mS/cm, S/m, or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	TDS (mg/L or g/L)	ORP (+/- mV)
200	0	15.94	1057	--	--	--	--	--	--	--
		15.98	1102	7.33	191.2	121.0	0.34	21.8	--	-92.5
		15.96	1107	7.14	187.9	129.3	0.15	22.9	--	-104.8
		15.96	1112	7.10	189.6	112.3	0.10	22.4	--	-107.8
		15.96	1117	7.09	189.2	89.3	0.08	22.5	--	-110.4
		15.96	1121	7.08	188.9	97.7	0.06	22.4	--	-112.5
	6,000	15.98	1127	7.08	188.8	96.5	0.07	22.5	--	-115.2
									--	
									--	
									--	

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: MONSOON **Pump inlet depth:** 35 ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: MONSOON **Sample depth** 35 ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☒ No QA/QC Sample

QA/QC Sample ID: _____ **Sample ID:** MW-20S-202005

Date/Time of QC Sample: _____ **Date/Time of Sample:** 5/20/20 1130

Sample Filtered?: Y (N) **Filter Size:** _____

Additional Comments:

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☐
YSI	☑
Smartroll	☐
Troll 9500	☐
Other:	

ONEIDA Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad	
Well Identification	☑	☐	
Vault Cover	☑	☐	
Vault Seal	☐	☑	
Bolts	☐	☑	
Vault Lock	☐	☐	NA
Concrete Completion	☑	☐	
Well Lock/Seal	☑	☐	

Well Number: MW-37 **Date:** 5/21/20 **Project No:** 2020047/0102

A. Depth to water 49.91 feet **Location:** Canoga Park

B. Total depth of well 58.8 feet **Event:** 1SA20

C. Standing water in casing 8.89 feet **Sampler(s):** JF

D. 80% column height 7.112 feet **80% DTW** 39.93 feet

Screened Interval: 50 to 60 ft bgs

Inlet Timer: ____ sec **Discharge Timer:** ____ sec **Pressure:** ____ psi

Purge Rate (mL/Min)	Milliliters total purged volume (mL)	DTW (ft below casing)	Time	pH	Conductivity (mS/cm, S/m, or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	TDS (mg/L or g/L)	ORP (+/- mV)
250	0	50.12	0916	--	--	--	--	--	--	--
		50.12	0926	6.94	3747	+200	0.41	22.0	--	-17.2
		50.20	0936	6.90	3756	+200	0.37	21.9	--	-58.9
		50.31	0946	6.91	3654	143.4	0.33	22.4	--	-106.5
		50.31	0956	6.88	3636	115.0	0.32	22.1	--	-105.7
		50.34	1006	6.88	3285	87.6	0.30	22.5	--	-104.2
	15,000	50.38	1016	6.88	3363	41.2	0.40	22.5	--	-100.8
									--	
									--	
									--	

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☐ Other: MONSOON **Pump inlet depth:** 55 ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☐ Other: MONSOON **Sample depth** 55 ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: DUP3-202105 **Sample ID:** MW-37-202105

Date/Time of QC Sample: 5/21/20 1036 **Date/Time of Sample:** 5/21/20 1017

Sample Filtered?: Y (N) **Filter Size:** ____

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☐
YSI	☑
Smartroll	☐
Troll 9500	☐
Other:	

Additional Comments:

ONEIDA Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☐	☑
Vault Cover	☐	☑
Vault Seal	☐	☑
Bolts	☐	☑
Vault Lock	☐	☐ MA
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: MW-39 **Date:** 5/19/20 **Project No:** 2020047/0102

A. Depth to water 14.4 feet **Location:** Canoga Park

B. Total depth of well – feet **Event:** 1SA20

C. Standing water in casing – feet **Sampler(s):** JF

D. 80% column height – feet 80% DTW – feet

Screened Interval: 30 to 40 ft bgs

Inlet Timer: ____sec **Discharge Timer:** ____sec **Pressure:** ____psi

Purge Rate (mL/Min)	Milliliters total purged volume (mL)	DTW (ft below casing)	Time	pH	Conductivity (mS/cm, S/m, or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	TDS (mg/L or g/L)	ORP (+/- mV)
	0			--	--	--	--	--	--	--
	14.4	DTW	OBSTRUCTED		By SILT				--	
	5/19/20		Purged until		no more water came through the				Waterra.	
									--	
	5/20/20		0945	7.06	2001	65.9	3.66	21.5	--	-95.6
			Took a grab Sample.						--	
									--	
									--	
									--	
									--	

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: Waterra **Pump inlet depth:** 35 ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: Waterra **Sample depth** 35 ft

Water Meter Used:

U-22-TN-01	☐
U-22-TN-02	☐
YSI	☐
Smartroll	☐
Troll 9500	☐
Other: GRAB	

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☒ No QA/QC Sample

QA/QC Sample ID: _____ **Sample ID:** MW-39-202005

Date/Time of QC Sample: _____ **Date/Time of Sample:** 5/20/20 0946

Sample Filtered?: Y (N) **Filter Size:** _____

Additional Comments:

ONEIDA Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad
Well Identification	☒	☐
Vault Cover	☒	☐
Vault Seal	☐	☒
Bolts	☐	☒ 1/2
Vault Lock	☐	☐ N/A
Concrete Completion	☒	☐
Well Lock/Seal	☐	☒

Well Number: RW-01 **Date:** 5/19/20 **Project No:** 2020047/0102

A. **Depth to water** 18.63 feet **Location:** Canoga Park

B. **Total depth of well** 49.2 feet **Event:** 1SA20

C. **Standing water in casing** 30.57 feet **Sampler(s):** ~~JF~~ EM

D. **80% column height** 24.46 feet **80% DTW** 24.74 feet

Screened Interval: 10 to 50 ft bgs

Inlet Timer: _____ sec **Discharge Timer:** _____ sec **Pressure:** _____ psi

Purge Rate (mL/Min)	Milliliters total purged volume (mL)	DTW (ft below casing)	Time	pH	Conductivity (mS/cm, S/m, or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	TDS (mg/L or g/L)	ORP (+/- mV)
300	0	18.76	0858	--	--	--	--	--	--	--
↓	↓	18.92	0903	7.47	1.48	32.8	2.51	19.77	--	138
↓	↓	18.87	0908	7.45	1.49	34.7	2.26	20.22	--	138
	4500	18.59	← At return	Pump stopped working					--	
200	—	18.73	1117	Purge resumed					--	
↓	↓	18.80	1122	7.35	1.35	34.4	7.88	25.34	--	153
		18.83	1127	7.35	1.37	27.3	7.58	25.14	--	151
		18.89	1132	7.33	1.39	28.0	7.27	24.65	--	149
		18.92	1137	7.33	1.43	25.3	1.89	24.65	--	150
		18.94	1142	7.34	1.41	25.1	1.59	24.43	--	148

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☒ Other: Hurricane Pro **Pump inlet depth:** 40 ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☒ Other: Hurricane Pro **Sample depth** 40 ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☒ No QA/QC Sample

QA/QC Sample ID: _____ **Sample ID:** RW-01-200519

Date/Time of QC Sample: _____ **Date/Time of Sample:** 5/19/20 1155

Sample Filtered?: Y (N) **Filter Size:** _____

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☐
YSI	☐
Smartroll	☐
Troll 9500	☐
Other: Geotech	

Additional Comments:

High DO causes CO2 air in water quality meter

ONEIDA Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad	
Well Identification	☑	☐	
Vault Cover	☑	☐	
Vault Seal	☐	☑	
Bolts	☐	☑	0/2
Vault Lock	☐	☐	N/A
Concrete Completion	☑	☐	
Well Lock/Seal	☐	☑	

Well Number: RW-01 **Date:** 5/19/20 **Project No:** 2020047/0102

A. Depth to water 18.63 feet **Location:** Canoga Park

B. Total depth of well 49.2 feet **Event:** 1SA20

C. Standing water in casing 30.57 feet **Sampler(s):** ~~JF~~ EM

D. 80% column height 24.46 feet **80% DTW** 24.74 feet

Screened Interval: 10 to 50 ft bgs

Inlet Timer: _____sec **Discharge Timer:** _____sec **Pressure:** _____psi

Purge Rate (mL/Min)	Milliliters total purged volume (mL)	DTW (ft below casing)	Time	pH	Conductivity (mS/cm, S/m, or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	TDS (mg/L or g/L)	ORP (+/- mV)
	0			--	--	--	--	--	--	--
200		18.95	1147	7.34	1.41	25.5	1.44	24.10	--	147
↓	11500	18.95	1152	7.33	1.42	25.4	1.54	23.87	--	146
									--	
									--	
									--	
									--	
									--	
									--	
									--	

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☒ Other: Hurricane Pro **Pump inlet depth:** 40 ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☒ Other: Hurricane Pro **Sample depth** 40 ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☒ No QA/QC Sample

QA/QC Sample ID: _____ **Sample ID:** RW-01-200519

Date/Time of QC Sample: _____ **Date/Time of Sample:** 5/19/20 1155

Sample Filtered?: Y (N) **Filter Size:** _____

Additional Comments: Extra purging to confirm DO

Water Meter Used:
- U-22-TN-01 ☐
- U-22-TN-02 ☐
- YSI ☐
- Smartroll ☐
- Troll 9500 ☐
- Other: Geotech

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad
Well Identification	☑	☐
Vault Cover	☐	☑
Vault Seal	☐	☑
Bolts	☐	☑
Vault Lock	☐	☐ NA
Concrete Completion	☑	☐
Well Lock/Seal	☐	☑ gone

Well Number: RW-02 **Date:** 5/19/20 **Project No:** 2020047/0102

A. Depth to water 16.73 feet **Location:** Canoga Park

B. Total depth of well – feet **Event:** 1SA20

C. Standing water in casing – feet **Sampler(s):** JF

D. 80% column height – feet **80% DTW** – feet

Screened Interval: – to – ft bgs

Inlet Timer: ____sec **Discharge Timer:** ____sec **Pressure:** ____psi

Purge Rate (mL/Min)	Milliliters total purged volume (mL)	DTW (ft below casing)	Time	pH	Conductivity (mS/cm, S/m, or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	TDS (mg/L or g/L)	ORP (+/- mV)
	0			--	--	--	--	--	--	--
		DTW	OBSTRUCTION	AT	ROOTS.				--	
	ATTEMPTED	TO	TAKE	DTW	THROUGH	BLACK	TUBING	BUT	--	
	ENCOUNTERED	BLACK	SILTY	SLUDGE.					--	
									--	
		WATERRA	PUMP	COULD	NOT	DRAW	UP	WATER	--	
		DUE	TO	SLUDGE.					--	
									--	
									--	
									--	

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☐ Other:_____ **Pump inlet depth:** X ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☐ Other:_____ **Sample depth** X ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____ **Sample ID:** _____

Date/Time of QC Sample: _____ **Date/Time of Sample:** _____

Sample Filtered?: Y N **Filter Size:** _____

Additional Comments:

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☐
YSI	☐
Smartroll	☐
Troll 9500	☐
Other:_____	

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15k101205

no hinges on vault. Bad Condition.

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad
Well Identification	☐	☑
Vault Cover	☐	☑
Vault Seal	☐	☑
Bolts	☐	☐ NA
Vault Lock	☐	☐ NA
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: RW-04 **Date:** 5/20/20 **Project No:** 2020047/0102

A. **Depth to water** 15.45 feet **Location:** Canoga Park

B. **Total depth of well** 42.3 feet **Event:** 1SA20

C. **Standing water in casing** 26.85 feet **Sampler(s):** JF

D. **80% column height** 21.48 feet **80% DTW** 12.33 feet

Screened Interval: 10 to 30 ft bgs

Inlet Timer: _____ sec **Discharge Timer:** _____ sec **Pressure:** _____ psi

Purge Rate (mL/Min)	Milliliters total purged volume (mL)	DTW (ft below casing)	Time	pH	Conductivity (mS/cm, S/m, or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	TDS (mg/L or g/L)	ORP (+/- mV)
200	0	15.54	0817	--	--	--	--	--	--	--
|	|	15.70	0822	7.46	2279	0.0	1.89	21.4	--	-259.3
|	|	15.79	0827	7.42	2457	0.0	1.65	21.5	--	-266.4
|	|	15.83	0832	7.40	2461	0.0	1.66	21.8	--	-266.3
|	4000	15.86	0837	7.40	2462	0.0	1.70	22.2	--	-267.8
									--	
									--	
									--	
									--	
									--	

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: MONSOON **Pump inlet depth:** 32 ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: MONSOON **Sample depth** 32 ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☒ No QA/QC Sample

QA/QC Sample ID: _____ **Sample ID:** RW-04-20200005

Date/Time of QC Sample: _____ **Date/Time of Sample:** 5/20/20 0838

Sample Filtered?: Y (N) **Filter Size:** _____

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☐
YSI	☑
Smartroll	☐
Troll 9500	☐
Other:	

Additional Comments:

Sulfur Odor

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☐	☑
Vault Cover	☑	☐
Vault Seal	☐	☑
Bolts	☑	☐
Vault Lock	☐	☐ NA
Concrete Completion	☑	☐
Well Lock/Seal	☒	☑ gone

Well Number: RW-05 **Date:** 5/19/20 **Project No:** 2020047/0102

A. **Depth to water** 200 feet **Location:** Canoga Park

B. **Total depth of well** 449 feet **Event:** 1SA20

C. **Standing water in casing** 249 feet **Sampler(s):** JF

D. **80% column height** 19.92 feet **80% DTW** 16.0 feet

Screened Interval: 10 to 50 ft bgs

Inlet Timer: _____sec **Discharge Timer:** _____sec **Pressure:** _____psi

Purge Rate (mL/Min)	Milliliters total purged volume (mL)	DTW (ft below casing)	Time	pH	Conductivity (mS/cm, S/m, or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	TDS (mg/L or g/L)	ORP (+/- mV)
200	0	25.10	0938	--	--	--	--	--	--	--
		25.12	0943	7.46	1729	0.0	2.48	28.9	--	-266.7
		25.13	0948	7.44	1751	0.8	1.76	23.5	--	-278.2
		25.15	0953	7.43	1746	12.6	1.54	23.7	--	-282.3
		25.18	0958	7.43	1746	18.8	1.20	23.7	--	-288.2
	5,000	25.16	1003	7.42	1786	26.0	1.21	24.0	--	-289.7
									--	
									--	
									--	
									--	

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: MONSOON **Pump inlet depth:** ~32 ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: MONSOON **Sample depth** ~32 ft

Water Meter Used:

U-22-TN-01	☐
U-22-TN-02	☐
YSI	☑
Smartroll	☐
Troll 9500	☐
Other:	

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____ **Sample ID:** RW-05-201905

Date/Time of QC Sample: _____ **Date/Time of Sample:** 5/19/20 1004

Sample Filtered?: Y (N) **Filter Size:** _____

Additional Comments: Sulfur Odor / Turbidity increasing w/ purging

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad
Well Identification	☐	☑
Vault Cover	☑	☐
Vault Seal	☐	☑
Bolts	☐	☑
Vault Lock	☐	☐ N/A
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: RW-06 **Date:** 5/19/20 **Project No:** 2020047/0102

A. **Depth to water** 22.65 feet **Location:** Canoga Park

B. **Total depth of well** – feet **Event:** 1SA20

C. **Standing water in casing** – feet **Sampler(s):** EM

D. **80% column height** – feet **80% DTW** – feet

Screened Interval: 20 to 69 ft bgs

Inlet Timer: ____sec **Discharge Timer:** ____sec **Pressure:** ____psi

Purge Rate (mL/Min)	Milliliters total purged volume (mL)	DTW (ft below casing)	Time	pH	Conductivity (mS/cm, S/m, or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	TDS (mg/L or g/L)	ORP (+/- mV)
	0			--	--	--	--	--	--	--
									--	
			GRAB SAMPLE						--	
									--	
									--	
					NO PARAMETERS				--	
							TAKEN		--	
									--	
									--	
									--	

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: Hand Bailer **Pump inlet depth:** ~23 ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: Hand Bailer **Sample depth** ~23 ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☒ No QA/QC Sample

QA/QC Sample ID: ____ **Sample ID:** RW-06-200519

Date/Time of QC Sample: ____ **Date/Time of Sample:** 5/19/20 1417

Sample Filtered?: Y (N) **Filter Size:** ____

Additional Comments: Lots of substrate in well, 1" thick layer of substrate above water.

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☐
YSI	☐
Smartroll	☐
Troll 9500	☐
Other: Geotech	

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad	
Well Identification	☐	☑	
Vault Cover	☑	☐	
Vault Seal	☑	☐	
Bolts	☑	☐	
Vault Lock	☐	☐	N/A
Concrete Completion	☑	☐	
Well Lock/Seal	☒	☑	gone

Well Number: RW-07 **Date:** 5/19/20 **Project No:** 2020047/0102

A. Depth to water 24.26 feet **Location:** Canoga Park

B. Total depth of well 58.4 feet **Event:** 1SA20

C. Standing water in casing 34.3 feet **Sampler(s):** JF

D. 80% column height 27.44 feet **80% DTW** 19.28 feet

Screened Interval: 19 to 69 ft bgs

Inlet Timer: _____ sec **Discharge Timer:** _____ sec **Pressure:** _____ psi

Purge Rate (mL/Min)	Milliliters total purged volume (mL)	DTW (ft below casing)	Time	pH	Conductivity (mS/cm, S/m, or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	TDS (mg/L or g/L)	ORP (+/- mV)
200	0	24.26	1026	--	--	--	--	--	--	--
		24.26	1031	7.36	2454	15.3	0.22	23.5	--	-313.5
		24.26	1036	7.34	2443	25.9	0.30	22.8	--	-318.7
		24.26	1041	7.33	2449	35.4	0.22	23.8	--	-323.7
	4,000	24.27	1046	7.34	2454	44.0	0.19	24.6	--	-322.7
									--	
									--	
									--	
									--	
									--	

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: MONSOON **Pump inlet depth:** ~44 ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: MONSOON **Sample depth** ~44 ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☒ No QA/QC Sample

QA/QC Sample ID: _____ **Sample ID:** RW-07-201905

Date/Time of QC Sample: _____ **Date/Time of Sample:** 5/19/20 1047

Sample Filtered?: Y (N) **Filter Size:** _____

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☐
YSI	☑
Smartroll	☐
Troll 9500	☐
Other:	

Additional Comments:

Turbidity increasing w/ purging

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad	
Well Identification	☑	☐	
Vault Cover	☑	☐	
Vault Seal	☑	☐	
Bolts	☑	☐	
Vault Lock	☐	☐	N/A
Concrete Completion	☑	☐	
Well Lock/Seal	☑	☐	

Well Number: RW-08 **Date:** 5/19/20 **Project No:** 2020047/0102

A. Depth to water 30.76 feet **Location:** Canoga Park

B. Total depth of well 66.1 feet **Event:** 1SA20

C. Standing water in casing 35.34 feet **Sampler(s):** JF

D. 80% column height 28.3 feet **80% DTW** 24.608 feet

Screened Interval: 25 to 65 ft bgs

Inlet Timer: _____ sec **Discharge Timer:** _____ sec **Pressure:** _____ psi

Purge Rate (mL/Min)	Milliliters total purged volume (mL)	DTW (ft below casing)	Time	pH	Conductivity (mS/cm, S/m, or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	TDS (mg/L or g/L)	ORP (+/- mV)
200	0	30.79	1110	--	--	--	--	--	--	--
	|	31.04	1115	6.99	4392	0.0	1.66	24.2	--	-147.6
	|	31.06	1120	6.93	4396	0.0	1.63	24.2	--	-141.5
	|	31.07	1125	6.91	4392	0.0	1.70	24.3	--	-139.5
	9000	31.08	1130	6.90	4392	0.0	1.67	25.0	--	-135.3
									--	
									--	
									--	
									--	
									--	

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: MONSOON **Pump inlet depth:** ~ 51 ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☐ Other: _____ **Sample depth** ~ 51 ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☒ No QA/QC Sample

QA/QC Sample ID: _____ **Sample ID:** RW-08-201905

Date/Time of QC Sample: _____ **Date/Time of Sample:** 5/19/20 1131

Sample Filtered?: Y (N) **Filter Size:** _____

Water Meter Used:

U-22-TN-01	☐
U-22-TN-02	☐
YSI	☑
Smartroll	☐
Troll 9500	☐
Other: _____	

Additional Comments:

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad	
Well Identification	☑	☑	
Vault Cover	☑	☐	
Vault Seal	☑	☐	
Bolts	☑	☐	
Vault Lock	☐	☐	N/A
Concrete Completion	☑	☐	
Well Lock/Seal	☑	☐	

Well Number: RW-09 **Date:** 5/20/20 **Project No:** 2020047/0102

A. **Depth to water** 31.53 feet **Location:** Canoga Park

B. **Total depth of well** 52.4 feet **Event:** 1SA20

C. **Standing water in casing** 20.87 feet **Sampler(s):** JF

D. **80% column height** 16.70 feet **80% DTW** 25.24 feet

Screened Interval: 25 to 65 ft bgs

Inlet Timer: _____ sec **Discharge Timer:** _____ sec **Pressure:** _____ psi

Purge Rate (mL/Min)	Milliliters total purged volume (mL)	DTW (ft below casing)	Time	pH	Conductivity (mS/cm, S/m, or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	TDS (mg/L or g/L)	ORP (+/- mV)
200	0	31.73	1003	--	--	--	--	--	--	--
		31.94	1008	7.23	2688	64.1	1.96	24.1	--	-169.8
		31.97	1013	7.18	2668	44.4	2.06	24.9	--	-168.6
		31.97	1018	7.16	2702	34.7	2.06	25.1	--	-170.2
		31.98	1023	7.15	2698	36.0	1.98	24.9	--	-177.9
		32.06	1028	7.15	2697	30.0	1.88	25.1	--	-180.3
	6,000	32.02	1033	7.15	2704	24.8	1.84	25.2	--	-183.6
									--	
									--	
									--	

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: MONSOON **Pump inlet depth:** ~ 42 ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: MONSOON **Sample depth** ~ 42 ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☒ No QA/QC Sample

QA/QC Sample ID: _____ **Sample ID:** RW-09-202005

Date/Time of QC Sample: _____ **Date/Time of Sample:** 5/20/20 1034

Sample Filtered?: Y (N) **Filter Size:** _____

Additional Comments:

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☐
YSI	☑
Smartroll	☐
Troll 9500	☐
Other:	

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☐	☑ 1/2
Vault Lock	☐	☐ NA
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: RW-10 **Date:** 5/20/20 **Project No:** 2020047/0102

A. **Depth to water** 19.47 feet **Location:** Canoga Park

B. **Total depth of well** 48.6 feet **Event:** 1SA20

C. **Standing water in casing** 29.13 feet **Sampler(s):** JF

D. **80% column height** 23.304 feet **80% DTW** 15.576 feet

Screened Interval: 15 to 85 ft bgs

Inlet Timer: _____ sec **Discharge Timer:** _____ sec **Pressure:** _____ psi

Purge Rate (mL/Min)	Milliliters total purged volume (mL)	DTW (ft below casing)	Time	pH	Conductivity (mS/cm, S/m, or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	TDS (mg/L or g/L)	ORP (+/- mV)
200	0	19.83	0857	--	--	--	--	--	--	--
		19.83	0902	7.21	2549	46.1	0.25	23.5	--	-98.5
		19.83	0907	7.13	2550	52.8	0.18	23.5	--	-126.5
		19.84	0912	7.09	2551	61.6	0.09	23.5	--	-128.5
		19.84	0917	7.08	2545	62.4	0.07	23.5	--	-127.1
	5,000	19.84	0922	7.08	2542	60.1	0.05	23.6	--	-126.4
									--	
									--	
									--	
									--	

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: MONSOON **Pump inlet depth:** 34 ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: MONSOON **Sample depth** 34 ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☒ No QA/QC Sample

QA/QC Sample ID: _____ **Sample ID:** RW-10-202005

Date/Time of QC Sample: _____ **Date/Time of Sample:** 5/20/20 0923

Sample Filtered?: Y (N) **Filter Size:** _____

Additional Comments:

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☐
YSI	☑
Smartroll	☐
Troll 9500	☐
Other:	_____

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☐	☑
Vault Cover	☑	☐
Vault Seal	☐	☑
Bolts	☐	☑
Vault Lock	☐	☐ N/A
Concrete Completion	☑	☐
Well Lock/Seal	☒	☑ gone

Well Number: RW-11 **Date:** 5/19/20 **Project No:** 2020047/0102

A. Depth to water 21.60 feet **Location:** Canoga Park

B. Total depth of well 61.3 feet **Event:** 1SA20

C. Standing water in casing 39.7 feet **Sampler(s):** JF

D. 80% column height 31.76 feet 80% DTW 17.28 feet

Screened Interval: 25 to 65 ft bgs

Inlet Timer: _____sec **Discharge Timer:** _____sec **Pressure:** _____psi

Purge Rate (mL/Min)	Milliliters total purged volume (mL)	DTW (ft below casing)	Time	pH	Conductivity (mS/cm, S/m, or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	TDS (mg/L or g/L)	ORP (+/- mV)
200	0	21.99	~~1400~~	--	--	--	--	--	--	--
		22.13	1405	7.09	2086	41.3	2.33	24.6	--	-313.2
		22.13	1410	7.06	2097	67.5	2.23	25.4	--	-319.7
		22.15	1415	7.08	2094	71.5	2.20	25.6	--	-318.4
		22.16	1420	7.05	2080	69.2	1.96	24.9	--	-325.1
		22.20	1425	7.09	2088	70.4	1.99	25.1	--	-329.1
		22.22	1430	7.05	2091	65.4	1.96	26.1	--	-320.2
	7,000	22.26	1435	7.04	2086	64.3	1.90	24.3	--	-325.2
									--	
									--	

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: MONSOON **Pump inlet depth:** 42 ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: MONSOON **Sample depth** 42 ft

QA/QC Sample Collected Here? ☐ Duplicate ☒ Matrix Spike ☐ Equip. Blank ☒ No QA/QC Sample

QA/QC Sample ID: " **Sample ID:** RW-11-201905

Date/Time of QC Sample: 5/19/20 1436 **Date/Time of Sample:** 5/19/20 1436

Sample Filtered?: Y (N) **Filter Size:** _____

Additional Comments: Sulfur Smell

Water Meter Used:

U-22-TN-01	☐
U-22-TN-02	☐
YSI	☑
Smartroll	☐
Troll 9500	☐
Other:	

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MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad
Well Identification	☒	☐
Vault Cover	☐	☒
Vault Seal	☐	☒
Bolts	☐	☒
Vault Lock	☐	☐ N/A
Concrete Completion	☒	☐
Well Lock/Seal	☒	☐

Well Number: RW-13 **Date:** 5/19/20 **Project No:** 2020047/0102

A. Depth to water 22.65 feet **Location:** Canoga Park

B. Total depth of well 59.4 feet **Event:** 1SA20

C. Standing water in casing 36.75 feet **Sampler(s):** ~~JF~~ EM

D. 80% column height 29.4 feet **80% DTW** 30 feet

Screened Interval: 25 to 65 ft bgs

Inlet Timer: _____ sec **Discharge Timer:** _____ sec **Pressure:** _____ psi

Purge Rate (mL/Min)	Milliliters total purged volume (mL)	DTW (ft below casing)	Time	pH	Conductivity (mS/cm, S/m, or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	TDS (mg/L or g/L)	ORP (+/- mV)
250	0	22.71	1311	--	--	--	--	--	--	--
↓	↓	22.79	1316	7.22	0.757	5.70	2.42	25.46	--	146
		22.84	1321	7.23	0.757	1.99	1.84	25.69	--	145
		22.89	1326	7.23	0.755	1.50	1.60	25.95	--	142
	↓	22.93	1331	7.23	0.749	1.26	1.57	26.32	--	141
	6250	22.99	1336	7.21	0.751	1.26	1.48	26.29	--	141
									--	
									--	
									--	
									--	

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☒ Other: Hurricane Pro **Pump inlet depth:** 45 ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☒ Other: Hurricane Pro **Sample depth** 45 ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☒ No QA/QC Sample

QA/QC Sample ID: _____ **Sample ID:** RW-13-200519

Date/Time of QC Sample: _____ **Date/Time of Sample:** 5/19/20 1339

Sample Filtered?: Y (N) **Filter Size:** _____

Additional Comments: _____

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☐
YSI	☐
Smartroll	☐
Troll 9500	☐
Other: Geotech	

ONEIDA Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad	
Well Identification	☑	☐	
Vault Cover	☑	☐	
Vault Seal	☑	☐	
Bolts	☑	☐	
Vault Lock	☐	☐	N/A
Concrete Completion	☑	☐	
Well Lock/Seal	☑	☐	

Well Number: RW-14 **Date:** 5/20/20 **Project No:** 2020047/0102

A. Depth to water 25.0 feet **Location:** Canoga Park

B. Total depth of well 59.4 feet **Event:** 1SA20

C. Standing water in casing — feet **Sampler(s):** JF

D. 80% column height — feet **80% DTW** — feet

Screened Interval: — to — ft bgs

Inlet Timer: ____sec **Discharge Timer:** ____sec **Pressure:** ____psi

Purge Rate (mL/Min)	Milliliters total purged volume (mL)	DTW (ft below casing)	Time	pH	Conductivity (mS/cm, S/m, or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	TDS (mg/L or g/L)	ORP (+/- mV)
	0			--	--	--	--	--	--	--
INJECTION SUBSTRATE IN WELL.									--	
									--	
									--	
		DID NOT SAMPLE. — JF							--	
									--	
									--	
									--	
									--	
									--	

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☐ Other:_____ **Pump inlet depth:** ____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☐ Other:_____ **Sample depth** ____ ft

QA/QC Sample Collected Here? ☐ Duplicate ☒ Matrix Spike ☐ Equip. Blank ☒ No QA/QC Sample

QA/QC Sample ID: ____ **Sample ID:** ____

Date/Time of QC Sample: ____ **Date/Time of Sample:** ____

Sample Filtered?: Y N **Filter Size:** ____

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☐
YSI	☐
Smartroll	☐
Troll 9500	☐
Other:_____	

Additional Comments:

ONEIDA Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad	
Well Identification	☑	☐	
Vault Cover	☑	☐	
Vault Seal	☑	☐	
Bolts	☑	☐	
Vault Lock	☐	☐	MK
Concrete Completion	☑	☐	
Well Lock/Seal	☑	☐	

Well Number: RW-15 **Date:** 5/20/20 **Project No:** 2020047/0102

A. Depth to water 32.7 feet **Location:** Canoga Park

B. Total depth of well 74.6 feet **Event:** 1SA20

C. Standing water in casing 41.9 feet **Sampler(s):** JF

D. 80% column height 33.52 feet **80% DTW** 26.16 feet

Screened Interval: 29 to 69 ft bgs

Inlet Timer: _____ sec **Discharge Timer:** _____ sec **Pressure:** _____ psi

Purge Rate (mL/Min)	Milliliters total purged volume (mL)	DTW (ft below casing)	Time	pH	Conductivity (mS/cm, S/m, or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	TDS (mg/L or g/L)	ORP (+/- mV)
200	0	32.75	1354	--	--	--	--	--	--	--
		32.75	1359	7.18	1678	0.0	4.46	28.4	--	-6.8
		32.78	1404	7.14	1684	0.0	4.34	28.8	--	-1.4
		32.80	1409	7.09	1670	3.8	2.80	25.9	--	+9.1
		32.82	1414	7.08	1671	4.2	2.49	25.7	--	+10.3
		32.84	1419	7.07	1671	2.8	2.42	25.9	--	+13.8
		32.86	1424	7.00	1671	1.6	2.40	26.1	--	+14.6
	7,000	32.88	1429	7.00	1672	1.1	2.36	26.2	--	+14.7
									--	
									--	

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: MONSOON **Pump inlet depth:** ~ 56 ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☑ Other: MONSOON **Sample depth** ~ 56 ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☒ No QA/QC Sample

QA/QC Sample ID: _____ **Sample ID:** RW-15-202005

Date/Time of QC Sample: _____ **Date/Time of Sample:** 5/20/20 1430

Sample Filtered?: Y (N) **Filter Size:** _____

Additional Comments:

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☐
YSI	☑
Smartroll	☐
Troll 9500	☐
Other:	

ONEIDA Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad
Well Identification	☐	☐
Vault Cover	☐	☐
Vault Seal	☐	☐
Bolts	☐	☐
Vault Lock	☐	☐
Concrete Completion	☐	☐
Well Lock/Seal	☐	☐

Well Number: RW-16 **Date:** 5/19/20 **Project No:** 2020047/0102

A. Depth to water 31.49 ~~30.73~~ feet (72" above casing) **Location:** Canoga Park

B. Total depth of well 70'+72" = 76 feet **Event:** 1SA20

C. Standing water in casing 44.51 feet **Sampler(s):** ~~JF~~ EM

D. 80% column height 35.61 feet **80% DTW** 40.39 feet

Screened Interval: 25 to 65 ft bgs

Inlet Timer: _____ sec **Discharge Timer:** _____ sec **Pressure:** _____ psi

Purge Rate (mL/Min)	Milliliters total purged volume (mL)	DTW (ft below casing)	Time	pH	Conductivity (mS/cm, S/m, or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	TDS (mg/L or g/L)	ORP (+/- mV)
150	0	31.77	1512	--	--	--	--	--	--	--
		31.84	1517	6.58	1.74	16.0	4.10	26.04	--	-122
		31.96	1522	6.56	1.73	16.5	2.56	26.87	--	-118
		32.07	1527	6.55	1.71	15.7	2.17	26.67	--	-125
		32.23	1532	6.55	1.70	15.5	2.05	26.74	--	-130
		32.35	1537	6.54	1.70	16.7	1.66	26.79	--	-133
		32.40	1542	6.54	1.69	17.2	1.73	26.91	--	-136
	5250	32.44	1547	6.53	1.69	16.8	1.64	27.08	--	-135
									--	
									--	

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☒ Other: Hurricane Pro **Pump inlet depth:** 45 ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Tornado ☒ Other: Hurricane Pro **Sample depth** 45 ft

QA/QC Sample Collected Here? ☒ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: DUP-200519 **Sample ID:** RW-16-200519

Date/Time of QC Sample: 5/19/20 **Date/Time of Sample:** 5/19/20 1549

Sample Filtered?: Y (N) **Filter Size:**

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☐
YSI	☐
Smartroll	☐
Troll 9500	☐
Other: Geotech	

Additional Comments:

ONEIDA Total Integrated Enterprises

Appendix B

Summary of Water Level Data

APPENDIX B

SUMMARY OF WATER LEVEL DATA, 1996 - PRESENT

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Gauging Date	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Groundwater Elevation (ft, MSL)
M-1	01/23/96	41.78	882.42	836.55
M-1	02/12/96	42.17	882.42	836.16
M-1	03/12/96	39.59	882.42	838.74
M-1	04/16/96	41.05	882.42	837.28
M-1	05/13/96	42.25	882.42	836.08
M-1	06/18/96	39.00	882.42	839.33
M-1	08/12/96	48.22	882.42	830.11
M-1	10/25/96	41.45	882.42	836.88
M-1	11/11/96	38.13	882.42	840.20
M-1	05/13/97	37.86	882.42	840.47
M-1	08/11/97	38.55	882.42	839.78
M-1	02/12/98	28.65	882.42	849.68
M-1	05/11/98	24.35	882.42	853.98
M-1	08/11/98	28.46	882.42	849.87
M-1	11/10/98	37.72	882.42	840.61
M-1	06/25/99	35.12	882.42	847.30
M-1	12/27/99	36.48	882.42	845.94
M-1	05/08/00	31.81	882.42	850.61
M-1	09/24/00	34.60	882.42	847.82
M-1	12/04/00	35.70	882.42	846.72
M-1	03/12/01	28.87	882.42	853.55
M-1	06/12/01	30.72	882.42	851.70
M-1	09/27/01	32.74	882.42	849.68
M-1	03/15/02	34.56	882.42	847.86
M-1	05/21/02	34.52	882.42	847.90
M-1	09/24/02	34.13	882.42	848.29
M-1	11/10/02	33.51	882.42	848.91
M-1	03/28/03	32.16	882.42	850.26
M-1	06/15/03	32.91	882.42	849.51
M-1	09/26/03	36.18	882.42	846.24
M-1	11/09/03	36.40	882.42	846.02
M-1	03/22/04	35.61	882.42	846.81
M-1	06/12/04	34.89	882.42	847.53
M-1	08/17/04	38.04	882.42	844.38
M-1	10/16/04	38.05	882.42	844.37
M-1	04/15/05	23.70	882.42	858.72
M-1	06/27/05	27.56	882.42	854.86
M-1	08/16/05	38.06	882.42	844.36
M-1	11/13/05	31.96	882.42	850.46
M-1	03/14/06	31.35	882.42	851.07
M-1	04/23/06	32.61	882.42	849.81
M-1	07/12/06	31.04	882.42	851.38
M-1	Substrate in well 11/4/06 through 11/06/17			
M-1	05/07/18	35.60	882.42	846.82
M-1	11/05/18	37.42	882.42	845.00
M-1	05/22/19	30.23	882.42	852.19
M-1	11/19/19	33.03	882.42	849.39
M-1	03/09/20	31.95	882.42	850.47
M-1	Substrate in well 5/18/2020			
CM-2D	01/23/96	40.45	876.50	835.11
CM-2D	02/12/96	39.73	876.50	835.83
CM-2D	03/12/96	37.32	876.50	838.24
CM-2D	04/16/96	35.60	876.50	839.96
CM-2D	05/13/96	35.50	876.50	840.06
CM-2D	06/18/96	36.73	876.50	838.83
CM-2D	08/12/96	45.96	876.50	829.60
CM-2D	10/25/96	42.20	876.50	833.36
CM-2D	11/11/96	36.13	876.50	839.43
CM-2D	02/10/97	27.83	876.50	847.73
CM-2D	05/13/97	28.61	876.50	846.95
CM-2D	08/11/97	29.13	876.50	846.43
CM-2D	05/11/98	22.63	876.50	852.93
CM-2D	08/11/98	26.77	876.50	848.79
CM-2D	06/25/99	30.06	876.50	846.44
CM-2D	12/27/99	33.15	876.50	843.35
CM-2D	05/08/00	24.59	876.50	851.91
CM-2D	09/24/00	29.96	876.50	846.54
CM-2D	12/04/00	31.08	876.50	845.42
CM-2D	03/12/01	23.94	876.50	852.56

APPENDIX B

SUMMARY OF WATER LEVEL DATA, 1996 - PRESENT

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Gauging Date	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Groundwater Elevation (ft, MSL)
CM-2D	06/12/01	26.79	876.50	849.71
CM-2D	09/27/01	29.56	876.50	846.94
CM-2D	11/06/01	29.60	876.50	846.90
CM-2D	03/15/02	29.98	876.50	846.52
CM-2D	05/21/02	30.53	876.50	845.97
CM-2D	09/24/02	30.57	876.50	845.93
CM-2D	11/10/02	30.45	876.50	846.05
CM-2D	03/28/03	27.37	876.50	849.13
CM-2D	06/15/03	28.10	876.50	848.40
CM-2D	09/26/03	32.24	876.50	844.26
CM-2D	11/09/03	32.38	876.50	844.12
CM-2D	03/22/04	31.31	876.50	845.19
CM-2D	06/12/04	30.22	876.50	846.28
CM-2D	08/17/04	34.59	876.50	841.91
CM-2D	10/16/04	34.56	876.50	841.94
CM-2D	04/15/05	19.51	876.50	856.99
CM-2D	06/27/05	21.56	876.50	854.94
CM-2D	08/16/05	34.70	876.50	841.80
CM-2D	10/02/05	26.31	876.50	850.19
CM-2D	11/13/05	26.76	876.50	849.74
CM-2D	03/14/06	26.26	876.50	850.24
CM-2D	07/12/06	26.72	876.50	849.78
CM-2D	11/04/06	27.00	876.50	849.50
CM-2D	02/18/07	27.65	876.50	848.85
CM-2D	05/12/07	28.24	876.50	848.26
CM-2D	11/03/07	28.72	876.50	847.78
CM-2D	06/29/08	27.17	876.50	849.33
CM-2D	11/14/08	29.06	876.50	847.44
CM-2D	05/26/09	28.91	876.50	847.59
CM-2D	11/30/09	29.47	876.50	847.03
CM-2D	06/07/10	26.58	876.50	849.92
CM-2D	12/16/10	28.31	876.50	848.19
CM-2D	06/07/11	25.40	876.50	851.10
CM-2D	12/01/11	27.90	876.50	848.60
CM-2D	05/29/12	28.52	876.50	847.98
CM-2D	12/12/12	29.14	876.50	847.36
CM-2D	06/17/13	27.11	876.50	849.39
CM-2D	12/12/13	29.68	876.50	846.82
CM-2D	05/27/14	29.71	876.50	846.79
CM-2D	10/31/14	29.94	876.50	846.56
CM-2D	05/26/15	29.42	876.50	847.08
CM-2D	11/16/15	31.98	876.50	844.52
CM-2D	05/16/16	32.05	876.50	844.45
CM-2D	10/13/16	33.00	876.50	843.50
CM-2D	04/06/17	25.02	876.50	851.48
CM-2D	11/06/17	30.52	876.50	845.98
CM-2D	05/07/18	29.74	876.50	846.76
CM-2D	11/05/18	31.79	876.50	844.71
CM-2D	05/22/19	25.99	876.50	850.51
CM-2D	11/19/19	28.86	876.50	847.64
CM-2D	03/09/20	27.41	876.50	849.09
CM-2D	05/18/20	23.45	876.50	853.05
CM-4D	01/23/96	45.28	887.46	837.65
CM-4D	02/12/96	45.43	887.46	837.50
CM-4D	03/12/96	43.53	887.46	839.40
CM-4D	04/16/96	43.73	887.46	839.20
CM-4D	05/13/96	42.74	887.46	840.19
CM-4D	06/18/96	42.92	887.46	840.01
CM-4D	07/15/96	38.67	887.46	844.26
CM-4D	08/12/96	45.47	887.46	837.46
CM-4D	09/16/96	43.80	887.46	839.13
CM-4D	10/25/96	43.57	887.46	839.36
CM-4D	11/11/96	40.87	887.46	842.06
CM-4D	02/10/97	30.61	887.46	852.32
CM-4D	05/13/97	30.92	887.46	852.01
CM-4D	08/11/97	31.44	887.46	851.49
CM-4D	05/11/98	29.21	887.46	853.72
CM-4D	08/11/98	31.87	887.46	851.06
CM-4D	11/10/98	41.31	887.46	841.62

APPENDIX B

SUMMARY OF WATER LEVEL DATA, 1996 - PRESENT

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Gauging Date	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Groundwater Elevation (ft, MSL)
CM-4D	06/25/99	39.50	887.46	847.96
CM-4D	05/08/00	35.70	887.46	851.76
CM-4D	09/24/00	39.46	887.46	848.00
CM-4D	12/04/00	38.85	887.46	848.61
CM-4D	03/12/01	32.45	887.46	855.01
CM-4D	06/12/01	34.69	887.46	852.77
CM-4D	09/27/01	36.21	887.46	851.43
CM-4D	11/06/01	36.32	887.46	851.14
CM-4D	03/15/02	37.92	887.46	849.54
CM-4D	05/21/02	38.49	887.46	848.97
CM-4D	09/24/02	35.83	887.46	851.63
CM-4D	11/10/02	37.88	887.46	849.58
CM-4D	03/28/03	36.20	887.46	851.26
CM-4D	06/15/03	36.97	887.46	850.49
CM-4D	09/26/03	41.30	887.46	846.16
CM-4D	11/09/03	41.35	887.46	846.11
CM-4D	03/22/04	40.31	887.46	847.15
CM-4D	06/12/04	40.04	887.46	847.42
CM-4D	08/17/04	42.70	887.46	844.76
CM-4D	10/16/04	42.67	887.46	844.79
CM-4D	04/15/05	27.72	887.46	859.74
CM-4D	06/27/05	31.62	887.46	855.84
CM-4D	08/16/05	42.62	887.46	844.84
CM-4D	11/13/05	35.98	887.46	851.48
CM-4D	03/14/06	34.96	887.46	852.50
CM-4D	07/12/06	34.22	887.46	853.24
CM-4D	11/04/06	37.62	887.46	849.84
CM-4D	02/18/07	36.96	887.46	850.50
CM-4D	05/12/07	37.72	887.46	849.74
CM-4D	11/03/07	39.01	887.46	848.45
CM-4D	06/29/08	35.84	887.46	851.62
CM-4D	11/14/08	38.12	887.46	849.34
CM-4D	05/26/09	37.93	887.46	849.53
CM-4D	11/30/09	38.64	887.46	848.82
CM-4D	06/07/10	34.75	887.46	852.71
CM-4D	12/16/10	36.68	887.46	850.78
CM-4D	06/07/11	32.26	887.46	855.20
CM-4D	12/01/11	35.31	887.46	852.15
CM-4D	05/29/12	36.35	887.46	851.11
CM-4D	12/12/12	37.03	887.46	850.43
CM-4D	06/17/13	37.31	887.46	850.15
CM-4D	12/12/13	36.60	887.46	850.86
CM-4D	05/27/14	35.12	887.46	852.34
CM-4D	10/31/14	35.89	887.46	851.57
CM-4D	05/26/15	36.38	887.46	851.08
CM-4D	11/16/15	35.58	887.46	851.88
CM-4D	05/16/16	40.27	887.46	847.19
CM-4D	10/13/16	41.56	887.46	845.90
CM-4D	12/28/16	37.38	887.46	850.08
CM-4D	01/24/17	34.87	887.46	852.59
CM-4D	02/21/17	31.56	887.46	855.90
CM-4D	04/06/17	31.94	887.46	855.52
CM-4D	05/22/17	33.04	887.46	854.42
CM-4D	08/17/17	35.11	887.46	852.35
CM-4D	11/06/17	36.42	887.46	851.04
CM-4D	02/27/18	37.52	887.46	849.94
CM-4D	05/07/18	35.72	887.46	851.74
CM-4D	08/08/18	35.51	887.46	851.95
CM-4D	11/05/18	36.12	887.46	851.34
CM-4D	05/22/19	32.52	887.46	854.94
CM-4D	11/19/19	34.41	887.46	853.05
CM-4D	03/09/20	34.10	887.46	853.36
CM-4D	05/18/20	31.31	887.46	856.15
CM-7D	01/23/96	18.53	859.79	841.26
CM-7D	02/12/96	16.52	859.79	843.27
CM-7D	03/12/96	16.69	859.79	843.10
CM-7D	04/16/96	17.43	859.79	842.36
CM-7D	05/13/96	17.50	859.79	842.29
CM-7D	06/18/96	17.44	859.79	842.35

APPENDIX B

SUMMARY OF WATER LEVEL DATA, 1996 - PRESENT

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Gauging Date	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Groundwater Elevation (ft, MSL)
CM-7D	07/15/96	17.35	859.79	842.44
CM-7D	08/12/96	17.90	859.79	841.89
CM-7D	09/16/96	17.89	859.79	841.90
CM-7D	10/25/96	17.08	859.79	842.71
CM-7D	11/11/96	15.36	859.79	844.43
CM-7D	02/10/97	16.03	859.79	843.76
CM-7D	05/13/97	17.00	859.79	842.79
CM-7D	08/11/97	17.42	859.79	842.37
CM-7D	12/15/97	16.53	859.79	843.26
CM-7D	02/12/98	15.72	859.79	844.07
CM-7D	05/11/98	13.79	859.79	846.00
CM-7D	08/11/98	15.04	859.79	844.75
CM-7D	11/10/98	16.21	859.79	843.58
CM-7D	04/16/99	14.58	859.79	845.21
CM-7D	06/25/99	14.36	859.79	845.43
CM-7D	12/27/99	15.95	859.79	843.84
CM-7D	09/24/00	15.28	859.79	844.51
CM-7D	12/04/00	15.77	859.79	844.02
CM-7D	03/12/01	14.50	859.79	845.29
CM-7D	06/12/01	14.56	859.79	845.23
CM-7D	09/27/01	15.10	859.79	844.69
CM-7D	11/06/01	15.12	859.79	844.67
CM-7D	03/15/02	16.06	859.79	843.73
CM-7D	05/21/02	17.34	859.79	842.45
CM-7D	09/24/02	16.48	859.79	843.31
CM-7D	11/10/02	16.57	859.79	843.22
CM-7D	03/28/03	15.51	859.79	844.28
CM-7D	06/15/03	15.45	859.79	844.34
CM-7D	09/26/03	17.64	859.79	842.15
CM-7D	11/09/03	17.90	859.79	841.89
CM-7D	03/22/04	16.42	859.79	843.37
CM-7D	06/12/04	17.01	859.79	842.78
CM-7D	08/17/04	17.78	859.79	842.01
CM-7D	10/16/04	17.78	859.79	842.01
CM-7D	04/15/05	12.38	859.79	847.41
CM-7D	06/27/05	13.64	859.79	846.15
CM-7D	08/16/05	17.79	859.79	842.00
CM-7D	11/13/05	13.67	859.79	846.12
CM-7D	03/14/06	13.12	859.79	846.67
CM-7D	07/12/06	13.44	859.79	846.35
CM-7D	11/04/06	14.85	859.79	844.94
CM-7D	05/12/07	14.96	859.79	844.83
CM-7D	11/03/07	15.59	859.79	844.20
CM-7D	06/29/08	15.13	859.79	844.66
CM-7D	11/14/08	15.51	859.79	844.28
CM-7D	05/26/09	15.58	859.79	844.21
CM-7D	11/30/09	16.20	859.79	843.59
CM-7D	06/07/10	14.92	859.79	844.87
CM-7D	12/16/10	15.74	859.79	844.05
CM-7D	06/07/11	14.96	859.79	844.83
CM-7D	12/01/11	15.75	859.79	844.04
CM-7D	05/29/12	15.90	859.79	843.89
CM-7D	12/12/12	16.48	859.79	843.31
CM-7D	06/17/13	16.98	859.79	842.81
CM-7D	12/12/13	17.14	859.79	842.65
CM-7D	05/27/14	16.87	859.79	842.92
CM-7D	10/31/14	18.24	859.79	841.55
CM-7D	05/26/15	17.64	859.79	842.15
CM-7D	11/16/15	18.62	859.79	841.17
CM-7D	05/16/16	18.98	859.79	840.81
CM-7D	10/13/16	19.94	859.79	839.85
CM-7D	04/06/17	16.74	859.79	843.05
CM-7D	11/06/17	17.78	859.79	842.01
CM-7D	05/07/18	17.80	859.79	841.99
CM-7D	11/05/18	18.96	859.79	840.83
CM-7D	05/22/19	16.34	859.79	843.45
CM-7D	11/19/19	17.02	859.79	842.77
CM-7D	05/18/20	16.33	859.79	843.46

APPENDIX B

SUMMARY OF WATER LEVEL DATA, 1996 - PRESENT

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Gauging Date	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Groundwater Elevation (ft, MSL)
CM-8D	01/23/96	48.70	885.52	836.82
CM-8D	02/12/96	46.37	885.52	839.15
CM-8D	03/12/96	45.47	885.52	840.05
CM-8D	04/16/96	45.63	885.52	839.89
CM-8D	05/13/96	46.02	885.52	839.50
CM-8D	06/18/96	46.45	885.52	839.07
CM-8D	07/15/96	46.45	885.52	839.07
CM-8D	08/12/96	45.90	885.52	839.62
CM-8D	09/16/96	46.58	885.52	838.94
CM-8D	10/25/96	47.05	885.52	838.47
CM-8D	11/11/96	47.17	885.52	838.35
CM-8D	02/10/97	42.70	885.52	842.82
CM-8D	05/13/97	43.60	885.52	841.92
CM-8D	08/11/97	43.99	885.52	841.53
CM-8D	12/15/97	44.46	885.52	841.06
CM-8D	02/12/98	41.53	885.52	843.99
CM-8D	05/11/98	42.46	885.52	843.06
CM-8D	08/11/98	43.28	885.52	842.24
CM-8D	11/10/98	43.22	885.52	842.30
CM-8D	06/25/99	43.18	885.52	842.34
CM-8D	12/27/99	45.77	885.52	839.75
CM-8D	05/08/00	45.25	885.52	840.27
CM-8D	09/24/00	45.71	885.52	839.81
CM-8D	12/04/00	47.90	885.52	837.62
CM-8D	03/12/01	42.35	885.52	843.17
CM-8D	06/12/01	44.06	885.52	841.46
CM-8D	09/27/01	45.14	885.52	840.38
CM-8D	11/06/01	45.54	885.52	839.98
CM-8D	03/12/02	45.78	885.52	839.74
CM-8D	05/21/02	45.61	885.52	839.91
CM-8D	09/24/02	44.56	885.52	840.96
CM-8D	11/10/02	44.74	885.52	840.78
CM-8D	03/28/03	43.21	885.52	842.31
CM-8D	06/15/03	43.79	885.52	841.73
CM-8D	09/26/03	46.81	885.52	838.71
CM-8D	11/09/03	46.88	885.52	838.64
CM-8D	03/22/04	45.99	885.52	839.53
CM-8D	06/12/04	47.01	885.52	838.51
CM-8D	08/17/04	46.61	885.52	838.91
CM-8D	10/16/04	46.50	885.52	839.02
CM-8D	04/15/05	42.39	885.52	843.13
CM-8D	06/27/05	43.42	885.52	842.10
CM-8D	08/16/05	46.72	885.52	838.80
CM-8D	11/13/05	44.93	885.52	840.59
CM-8D	03/14/06	44.01	885.52	841.51
CM-8D	07/12/06	39.91	885.52	845.61
CM-8D	11/04/06	45.86	885.52	839.66
CM-8D	12/28/06	45.82	885.52	839.70
CM-8D	02/18/07	45.80	885.52	839.72
CM-8D	05/12/07	45.59	885.52	839.93
CM-8D	11/03/07	46.32	885.52	839.20
CM-8D	06/29/08	45.22	885.52	840.30
CM-8D	11/14/08	46.38	885.52	839.14
CM-8D	05/26/09	49.88	890.19	840.31
CM-8D	11/30/09	50.77	890.19	839.42
CM-8D	06/07/10	49.80	890.19	840.39
CM-8D	12/16/10	50.44	890.19	839.75
CM-8D	06/07/11	49.40	890.19	840.79
CM-8D	12/01/11	50.75	890.19	839.44
CM-8D	05/29/12	50.89	890.19	839.30
CM-8D	12/12/12	51.39	890.19	838.80
CM-8D	06/17/13	51.34	890.19	838.85
CM-8D	12/12/13	47.94	890.19	837.58
CM-8D	05/27/14	50.47	890.19	839.72
CM-8D	10/31/14	51.69	890.19	838.50
CM-8D	05/26/15	52.17	890.19	838.02
CM-8D	11/16/15	53.20	890.19	836.99
CM-8D	05/16/16	53.30	890.19	836.89
CM-8D	10/13/16	54.13	890.19	836.06

APPENDIX B

SUMMARY OF WATER LEVEL DATA, 1996 - PRESENT

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Gauging Date	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Groundwater Elevation (ft, MSL)
CM-8D	12/28/16	54.08	890.19	836.11
CM-8D	01/24/17	52.51	890.19	837.68
CM-8D	02/21/17	50.11	890.19	840.08
CM-8D	04/06/17	50.29	890.19	839.90
CM-8D	05/23/17	50.53	890.19	839.66
CM-8D	08/17/17	51.37	890.19	838.82
CM-8D	11/06/17	52.26	890.19	837.93
CM-8D	02/28/18	53.37	890.19	836.82
CM-8D	05/07/18	52.36	890.19	837.83
CM-8D	08/07/18	52.83	890.19	837.36
CM-8D	11/05/18	53.22	890.19	836.97
CM-8D	05/22/19	49.44	890.19	840.75
CM-8D	11/19/19	50.35	890.19	839.84
CM-8D	05/18/20	49.50	890.19	840.69
CM-9D	01/23/96	33.14	873.29	840.15
CM-9D	02/12/96	32.82	873.29	840.47
CM-9D	03/12/96	31.76	873.29	841.53
CM-9D	04/16/96	32.04	873.29	841.25
CM-9D	05/13/96	32.51	873.29	840.78
CM-9D	06/18/96	31.92	873.29	841.37
CM-9D	07/15/96	32.03	873.29	841.26
CM-9D	08/12/96	30.97	873.29	842.32
CM-9D	09/16/96	32.20	873.29	841.09
CM-9D	10/25/96	32.65	873.29	840.64
CM-9D	11/11/96	32.78	873.29	840.51
CM-9D	02/10/97	28.33	873.29	844.96
CM-9D	05/13/97	29.27	873.29	844.02
CM-9D	08/11/97	30.11	873.29	843.18
CM-9D	12/15/97	28.81	873.29	844.48
CM-9D	02/12/98	25.63	873.29	847.66
CM-9D	05/11/98	28.45	873.29	844.84
CM-9D	08/11/98	28.77	873.29	844.52
CM-9D	11/10/98	28.06	873.29	845.23
CM-9D	04/16/99	26.65	873.29	846.64
CM-9D	06/25/99	28.04	873.29	845.25
CM-9D	12/27/99	31.45	873.29	841.84
CM-9D	05/08/00	31.83	873.29	841.46
CM-9D	09/24/00	31.82	873.29	841.47
CM-9D	12/04/00	31.97	873.29	841.32
CM-9D	03/12/01	28.63	873.29	844.66
CM-9D	09/27/01	31.04	873.29	842.25
CM-9D	11/06/01	31.46	873.29	841.83
CM-9D	03/15/02	32.41	873.29	840.88
CM-9D	05/21/02	32.32	873.29	840.97
CM-9D	09/24/02	31.48	873.29	841.81
CM-9D	11/10/02	31.57	873.29	841.72
CM-9D	03/28/03	31.15	873.29	842.14
CM-9D	06/15/03	32.90	873.29	840.39
CM-9D	09/26/03	32.71	873.29	840.58
CM-9D	11/09/03	32.76	873.29	840.53
CM-9D	03/22/04	32.91	873.29	840.38
CM-9D	06/12/04	31.09	873.29	842.20
CM-9D	08/17/04	33.18	873.29	840.11
CM-9D	10/16/04	33.21	873.29	840.08
CM-9D	04/15/05	28.38	873.29	844.91
CM-9D	06/27/05	29.36	873.29	843.93
CM-9D	08/16/05	33.12	873.29	840.17
CM-9D	11/13/05	31.23	873.29	842.06
CM-9D	03/14/06	30.67	873.29	842.62
CM-9D	07/12/06	30.34	873.29	842.95
CM-9D	11/04/06	31.94	873.29	841.35
CM-9D	05/12/07	31.40	873.29	841.89
CM-9D	11/03/07	32.21	873.29	841.08
CM-9D	06/29/08	30.40	873.29	842.89
CM-9D	11/14/08	32.15	873.29	841.14
CM-9D	05/26/09	31.36	873.29	841.93
CM-9D	11/30/09	34.50	873.29	838.79
CM-9D	06/07/10	31.59	873.29	841.70
CM-9D	12/16/10	31.88	873.29	841.41

APPENDIX B

SUMMARY OF WATER LEVEL DATA, 1996 - PRESENT

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Gauging Date	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Groundwater Elevation (ft, MSL)
CM-9D	06/07/11	30.66	873.29	842.63
CM-9D	12/01/11	32.64	873.29	840.65
CM-9D	05/29/12	32.60	873.29	840.69
CM-9D	12/12/12	32.71	873.29	840.58
CM-9D	06/17/13	31.55	873.29	841.74
CM-9D	12/12/13	31.96	873.29	841.33
CM-9D	05/27/14	31.80	873.29	841.49
CM-9D	10/31/14	32.77	873.29	840.52
CM-9D	05/26/15	33.04	873.29	840.25
CM-9D	11/16/15	34.48	873.29	838.81
CM-9D	05/16/16	33.87	873.29	839.42
CM-9D	10/13/16	36.22	873.29	837.07
CM-9D	04/06/17	32.08	873.29	841.21
CM-9D	11/06/17	34.06	873.29	839.23
CM-9D	05/07/18	33.84	873.29	839.45
CM-9D	11/05/18	34.86	873.29	838.43
CM-9D	05/22/19	30.60	873.29	842.69
CM-9D	11/19/19	32.14	873.29	841.15
CM-9D	05/18/20	31.60	873.29	841.69
CM-12	01/23/96	36.86	875.80	839.20
CM-12	02/12/96	36.57	875.80	839.49
CM-12	03/12/96	35.56	875.80	840.50
CM-12	04/16/96	35.73	875.80	840.33
CM-12	05/13/96	36.05	875.80	840.01
CM-12	06/18/96	35.41	875.80	840.65
CM-12	07/15/96	36.24	875.80	839.82
CM-12	08/12/96	35.70	875.80	840.36
CM-12	09/16/96	36.33	875.80	839.73
CM-12	10/25/96	36.68	875.80	839.38
CM-12	11/11/96	36.69	875.80	839.37
CM-12	02/10/97	33.39	875.80	842.67
CM-12	05/13/97	35.44	875.80	840.62
CM-12	08/11/97	35.93	875.80	840.13
CM-12	12/15/97	34.29	875.80	841.77
CM-12	02/12/98	32.27	875.80	843.79
CM-12	08/11/98	34.11	875.80	841.95
CM-12	12/27/99	35.19	875.80	838.67
CM-12	05/08/00	34.86	875.80	839.00
CM-12	09/24/00	35.13	875.80	838.73
CM-12	12/04/00	35.31	875.80	838.55
CM-12	03/12/01	33.42	875.80	840.44
CM-12	06/12/01	34.67	875.80	839.19
CM-12	03/15/02	35.41	875.80	840.65
CM-12	05/21/02	35.45	875.80	840.61
CM-12	09/24/02	34.92	875.80	841.14
CM-12	11/10/02	35.00	875.80	841.06
CM-12	03/28/03	34.83	875.80	841.23
CM-12	06/15/03	35.15	875.80	840.91
CM-12	09/26/03	36.01	875.80	840.05
CM-12	11/09/03	36.02	875.80	840.04
CM-12	03/22/04	35.89	875.80	840.17
CM-12	06/12/04	36.00	875.80	840.06
CM-12	08/17/04	36.24	875.80	839.82
CM-12	10/16/04	36.26	875.80	839.80
CM-12	04/15/05	33.18	875.80	842.88
CM-12	06/27/05	32.94	875.80	843.12
CM-12	08/16/05	36.26	875.80	839.80
CM-12	11/13/05	34.75	875.80	841.31
CM-12	03/14/06	33.29	875.80	842.51
CM-12	07/12/06	32.94	875.80	842.86
CM-12	11/04/06	35.12	875.80	840.68
CM-12	11/03/07	35.32	875.80	840.48
CM-12	06/29/08	34.59	875.80	841.21
CM-12	11/14/08	35.40	875.80	840.40
CM-12	05/26/09	35.09	875.80	840.71
CM-12	12/16/10	34.07	875.80	841.73
CM-12	06/07/11	35.39	875.80	840.41
CM-12	12/01/11	35.62	875.80	840.18
CM-12	12/12/12	36.22	875.80	839.58

APPENDIX B

SUMMARY OF WATER LEVEL DATA, 1996 - PRESENT

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Gauging Date	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Groundwater Elevation (ft, MSL)
CM-12	06/17/13	35.82	875.80	839.98
CM-12	12/12/13	44.41	875.80	831.39
CM-12	05/27/14	35.54	875.80	840.26
CM-12	10/31/14	36.49	875.80	839.31
CM-12	11/16/15	38.04	875.80	837.76
CM-12	05/16/16	44.54	875.80	831.26
CM-12	04/06/17	35.27	875.80	840.53
CM-12	11/06/17	37.50	875.80	838.30
CM-12	03/28/18	37.71	875.80	838.09
CM-12	05/07/18	37.34	875.80	838.46
CM-12	11/05/18	38.53	875.80	837.27
CM-12	05/22/19	34.87	875.80	840.93
CM-12	11/19/19	36.09	875.80	839.71
CM-12	05/18/20	34.96	875.80	840.84
CM-13	01/23/96	30.01	868.39	838.38
CM-13	02/12/96	30.12	868.39	838.27
CM-13	03/12/96	28.92	868.39	839.47
CM-13	04/16/96	29.08	868.39	839.31
CM-13	05/13/96	28.81	868.39	839.58
CM-13	06/18/96	29.23	868.39	839.16
CM-13	07/15/96	29.08	868.39	839.31
CM-13	08/12/96	29.17	868.39	839.22
CM-13	09/16/96	30.15	868.39	838.24
CM-13	10/25/96	30.10	868.39	838.29
CM-13	11/11/96	29.44	868.39	838.95
CM-13	02/10/97	27.26	868.39	841.13
CM-13	05/13/97	29.02	868.39	839.37
CM-13	08/11/97	29.80	868.39	838.59
CM-13	12/15/97	28.19	868.39	840.20
CM-13	12/27/99	27.60	868.39	840.79
CM-13	05/08/00	25.37	868.39	843.02
CM-13	09/24/00	26.63	868.39	841.76
CM-13	12/04/00	27.25	868.39	841.14
CM-13	03/12/01	24.42	868.39	843.97
CM-13	06/12/01	25.36	868.39	843.03
CM-13	09/27/01	26.28	868.39	842.11
CM-13	11/06/01	26.29	868.39	842.10
CM-13	03/15/02	26.93	868.39	841.46
CM-13	05/21/02	26.81	868.39	841.58
CM-13	09/24/02	27.11	868.39	841.28
CM-13	11/10/02	27.18	868.39	841.21
CM-13	03/28/03	26.88	868.39	841.51
CM-13	06/15/03	27.14	868.39	841.25
CM-13	09/26/03	28.16	868.39	840.23
CM-13	11/09/03	28.27	868.39	840.12
CM-13	03/22/04	28.14	868.39	840.25
CM-13	06/12/04	28.04	868.39	840.35
CM-13	08/17/04	27.66	868.39	840.73
CM-13	10/16/04	27.65	868.39	840.74
CM-13	06/27/05	23.79	868.39	844.60
CM-13	08/16/05	27.69	868.39	840.70
CM-13	11/13/05	25.26	868.39	843.13
CM-13	03/14/06	25.07	868.39	843.32
CM-13	07/12/06	26.12	868.39	842.27
CM-13	11/04/06	25.95	868.39	842.44
CM-13	02/18/07	26.03	868.39	842.36
CM-13	05/12/07	25.88	868.39	842.51
CM-13	11/03/07	26.09	868.39	842.30
CM-13	06/29/08	25.62	868.39	842.77
CM-13	11/14/08	26.62	868.39	841.77
CM-13	05/26/09	26.34	868.39	842.05
CM-13	11/30/09	27.23	868.39	841.16
CM-13	06/07/10	25.71	868.39	842.68
CM-13	12/16/10	27.68	868.39	840.71
CM-13	06/07/11	25.21	868.39	843.18
CM-13	12/01/11	26.53	868.39	841.86
CM-13	05/29/12	26.50	868.39	841.89
CM-13	12/12/12	27.52	868.39	840.87
CM-13	06/17/13	26.32	868.39	842.07

APPENDIX B

SUMMARY OF WATER LEVEL DATA, 1996 - PRESENT

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Gauging Date	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Groundwater Elevation (ft, MSL)
CM-13	12/12/13	27.78	868.39	840.61
CM-13	05/27/14	27.11	868.39	841.28
CM-13	10/31/14	28.03	868.39	840.36
CM-13	05/26/15	28.08	868.39	840.31
CM-13	11/16/15	29.43	868.39	838.96
CM-13	05/16/16	29.44	868.39	838.95
CM-13	10/13/16	30.56	868.39	837.83
CM-13	04/06/17	24.88	868.39	843.51
CM-13	11/06/17	28.49	868.39	839.90
CM-13	03/28/18	28.77	868.39	839.62
CM-13	05/07/18	28.11	868.39	840.28
CM-13	11/05/18	29.66	868.39	838.73
CM-13	05/22/19	25.26	868.39	843.13
CM-13	11/19/19	37.31	868.39	831.08
CM-13	03/09/20	26.16	868.39	842.23
CM-13	05/18/20	24.90	868.39	843.49
CM-14	01/23/96	17.23	858.65	841.42
CM-14	02/12/96	16.92	858.65	841.73
CM-14	03/12/96	16.54	858.65	842.11
CM-14	04/16/96	16.67	858.65	841.98
CM-14	05/13/96	16.92	858.65	841.73
CM-14	06/18/96	17.12	858.65	841.53
CM-14	07/15/96	17.29	858.65	841.36
CM-14	08/12/96	17.48	858.65	841.17
CM-14	09/16/96	17.77	858.65	840.88
CM-14	10/25/96	17.77	858.65	840.88
CM-14	11/11/96	17.76	858.65	840.89
CM-14	02/10/97	16.39	858.65	842.26
CM-14	05/13/97	16.75	858.65	841.90
CM-14	08/11/97	16.99	858.65	841.66
CM-14	12/15/97	16.50	858.65	842.15
CM-14	02/12/98	16.12	858.65	842.53
CM-14	05/11/98	14.02	858.65	844.63
CM-14	08/11/98	15.03	858.65	843.62
CM-14	11/10/98	15.75	858.65	842.90
CM-14	04/16/99	14.22	858.65	844.43
CM-14	06/25/99	15.91	858.65	842.74
CM-14	12/27/99	16.71	858.65	841.94
CM-14	09/24/00	17.03	858.65	841.62
CM-14	12/04/00	17.41	858.65	841.24
CM-14	03/12/01	15.81	858.65	842.84
CM-14	06/12/01	15.76	858.65	842.89
CM-14	09/27/01	16.41	858.65	842.24
CM-14	11/06/01	16.63	858.65	842.02
CM-14	03/15/02	16.89	858.65	841.76
CM-14	05/21/02	16.99	858.65	841.66
CM-14	09/24/02	17.00	858.65	841.65
CM-14	11/10/02	17.01	858.65	841.64
CM-14	03/28/03	16.54	858.65	842.11
CM-14	06/15/03	19.11	858.65	839.54
CM-14	09/26/03	18.08	858.65	840.57
CM-14	11/09/03	18.81	858.65	839.84
CM-14	03/22/04	18.04	858.65	840.61
CM-14	06/12/04	17.64	858.65	841.01
CM-14	08/17/04	17.89	858.65	840.76
CM-14	10/16/04	17.88	858.65	840.77
CM-14	04/15/05	16.01	858.65	842.64
CM-14	08/16/05	17.91	858.65	840.74
CM-14	11/13/05	14.86	858.65	843.79
CM-14	03/14/06	14.11	858.65	844.54
CM-14	07/12/06	14.61	858.65	844.04
CM-14	11/04/06	15.83	858.65	842.82
CM-14	05/12/07	15.03	858.65	843.62
CM-14	11/03/07	15.11	858.65	843.54
CM-14	06/29/08	14.98	858.65	843.67
CM-14	11/14/08	15.98	858.65	842.67
CM-14	05/26/09	15.62	858.65	843.03
CM-14	11/30/09	17.53	858.65	841.12
CM-14	06/07/10	16.47	858.65	842.18

APPENDIX B

SUMMARY OF WATER LEVEL DATA, 1996 - PRESENT

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Gauging Date	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Groundwater Elevation (ft, MSL)
CM-14	12/16/10	17.40	858.65	841.25
CM-14	12/01/11	16.93	858.65	841.72
CM-14	05/29/12	16.54	858.65	842.11
CM-14	12/12/12	17.52	858.65	841.13
CM-14	06/17/13	17.70	858.65	840.95
CM-14	12/12/13	18.28	858.65	840.37
CM-14	10/31/14	18.82	858.65	839.83
CM-14	11/16/15	20.08	858.65	838.57
CM-14	11/06/17	19.21	858.65	839.44
CM-14	05/07/18	18.38	858.65	840.27
CM-14	11/05/18	20.51	858.65	838.14
CM-14	05/22/19	17.95	858.65	840.70
CM-14	11/19/19	17.85	858.65	840.80
CM-14	05/18/20	16.52	858.65	842.13
CM-16	01/23/96	44.62	892.41	841.29
CM-16	02/12/96	44.65	892.41	841.26
CM-16	03/12/96	41.82	892.41	844.09
CM-16	04/16/96	41.66	892.41	844.25
CM-16	05/13/96	42.28	892.41	843.63
CM-16	06/18/96	41.75	892.41	844.16
CM-16	07/15/96	38.67	892.41	847.24
CM-16	08/12/96	43.00	892.41	842.91
CM-16	09/16/96	39.52	892.41	846.39
CM-16	10/25/96	42.46	892.41	843.45
CM-16	11/11/96	41.15	892.41	844.76
CM-16	02/10/97	38.86	892.41	847.05
CM-16	05/13/97	40.12	892.41	845.79
CM-16	08/11/97	40.61	892.41	845.30
CM-16	12/15/97	37.12	892.41	848.79
CM-16	02/12/98	36.10	892.41	849.81
CM-16	05/11/98	23.10	892.41	862.81
CM-16	08/11/98	24.86	892.41	861.05
CM-16	11/10/98	40.17	892.41	845.74
CM-16	06/25/99	44.06	892.41	848.55
CM-16	12/27/99	45.85	892.41	846.76
CM-16	05/08/00	40.89	892.41	851.72
CM-16	09/24/00	42.69	892.41	849.92
CM-16	12/04/00	42.65	892.41	849.96
CM-16	06/12/01	38.79	892.41	853.82
CM-16	09/27/01	41.11	892.41	851.50
CM-16	11/06/01	41.12	892.41	851.49
CM-16	03/15/02	42.76	892.41	849.85
CM-16	05/21/02	43.30	892.41	849.31
CM-16	09/24/02	39.73	892.41	852.88
CM-16	11/10/02	41.50	892.41	851.11
CM-16	03/28/03	38.66	892.41	853.95
CM-16	06/15/03	42.40	892.41	850.21
CM-16	09/26/03	44.88	892.41	847.73
CM-16	11/09/03	44.91	892.41	847.70
CM-16	03/22/04	44.16	892.41	848.45
CM-16	06/12/04	45.22	892.41	847.39
CM-16	08/17/04	46.28	892.41	846.33
CM-16	10/16/04	46.28	892.41	846.33
CM-16	04/15/05	35.21	892.41	857.40
CM-16	06/27/05	37.01	892.41	855.60
CM-16	08/16/05	46.29	892.41	846.32
CM-16	11/13/05	40.28	892.41	852.33
CM-16	03/14/06	39.87	892.41	852.54
CM-16	07/12/06	41.11	892.41	851.30
CM-16	11/04/06	42.21	892.41	850.20
CM-16	05/12/07	42.85	892.41	849.56
CM-16	11/03/07	43.77	892.41	848.64
CM-16	06/29/08	40.56	892.41	851.85
CM-16	11/14/08	42.90	892.41	849.51
CM-16	05/26/09	42.21	892.41	850.20
CM-16	11/30/09	42.99	892.41	849.42
CM-16	06/07/10	39.35	892.41	853.06
CM-16	12/16/10	36.82	892.41	855.59
CM-16	06/07/11	38.58	892.41	853.83

APPENDIX B

SUMMARY OF WATER LEVEL DATA, 1996 - PRESENT

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Gauging Date	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Groundwater Elevation (ft, MSL)
CM-16	12/01/11	41.11	892.41	851.30
CM-16	05/29/12	41.73	892.41	850.68
CM-16	12/12/12	41.94	892.41	850.47
CM-16	06/17/13	42.81	892.41	849.60
CM-16	12/12/13	41.51	892.41	850.90
CM-16	05/27/14	40.67	892.41	851.74
CM-16	10/31/14	41.59	892.41	850.82
CM-16	05/26/15	42.24	892.41	850.17
CM-16	11/16/15	44.60	892.41	847.81
CM-16	05/16/16	46.29	892.41	846.12
CM-16	10/13/16	46.86	892.41	845.55
CM-16	12/28/16	47.19	892.41	845.22
CM-16	01/24/17	44.29	892.41	848.12
CM-16	02/21/17	39.48	892.41	852.93
CM-16	04/06/17	38.92	892.41	853.49
CM-16	05/22/17	39.61	892.41	852.80
CM-16	08/17/17	41.14	892.41	851.27
CM-16	11/06/17	42.21	892.41	850.20
CM-16	02/27/18	42.68	892.41	849.73
CM-16	05/07/18	41.30	892.41	851.11
CM-16	08/08/18	41.18	892.41	851.23
CM-16	11/05/18	41.97	892.41	850.44
CM-16	05/22/19	38.05	892.41	854.36
CM-16	11/19/19	39.12	892.41	853.29
CM-16	03/09/20	38.47	892.41	853.94
CM-16	05/18/20	37.01	892.41	855.40
CM-18	01/23/96	49.54	887.89	843.17
CM-18	02/12/96	49.00	887.89	843.71
CM-18	03/12/96	48.15	887.89	844.56
CM-18	04/16/96	48.09	887.89	844.62
CM-18	05/13/96	48.63	887.89	844.08
CM-18	06/18/96	48.85	887.89	843.86
CM-18	07/15/96	48.60	887.89	844.11
CM-18	08/12/96	48.42	887.89	844.29
CM-18	09/16/96	48.66	887.89	844.05
CM-18	10/25/96	48.11	887.89	844.60
CM-18	11/11/96	49.18	887.89	843.53
CM-18	02/10/97	46.27	887.89	846.44
CM-18	05/13/97	47.10	887.89	845.61
CM-18	08/11/97	47.56	887.89	845.15
CM-18	12/15/97	45.95	887.89	846.76
CM-18	02/12/98	42.80	887.89	849.91
CM-18	05/11/98	44.92	887.89	847.79
CM-18	08/11/98	45.65	887.89	847.06
CM-18	11/10/98	45.27	887.89	847.44
CM-18	06/25/99	45.50	887.89	847.21
CM-18	05/08/00	47.47	887.89	845.24
CM-18	09/24/00	47.75	887.89	844.96
CM-18	12/04/00	47.85	887.89	844.86
CM-18	03/12/01	44.62	887.89	848.09
CM-18	06/12/01	46.69	887.89	846.02
CM-18	09/27/01	47.24	887.89	845.47
CM-18	11/06/01	47.26	887.89	845.45
CM-18	03/15/02	48.16	887.89	840.50
CM-18	09/24/02	47.13	887.89	841.53
CM-18	11/10/02	47.16	887.89	841.50
CM-18	03/28/03	46.20	887.89	842.46
CM-18	06/15/03	46.35	887.89	842.31
CM-18	09/26/03	48.84	887.89	839.82
CM-18	11/09/03	48.92	887.89	839.74
CM-18	03/22/04	47.11	887.89	841.55
CM-18	06/12/04	47.10	887.89	841.56
CM-18	08/17/04	48.90	887.89	839.76
CM-18	10/16/04	48.91	887.89	839.75
CM-18	04/15/05	44.72	887.89	843.94
CM-18	06/27/05	45.66	887.89	843.00
CM-18	08/16/05	48.91	887.89	839.75
CM-18	11/13/05	47.32	887.89	841.34
CM-18	03/14/06	47.12	887.89	840.77

APPENDIX B

SUMMARY OF WATER LEVEL DATA, 1996 - PRESENT

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Gauging Date	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Groundwater Elevation (ft, MSL)
CM-18	07/12/06	47.18	887.89	840.71
CM-18	11/04/06	47.95	887.89	839.94
CM-18	05/12/07	47.08	887.89	840.81
CM-18	11/03/07	48.29	887.89	839.60
CM-18	06/29/08	47.02	887.89	840.87
CM-18	11/14/08	48.31	887.89	839.58
CM-18	05/26/09	47.62	887.89	840.27
CM-18	11/30/09	46.10	887.89	841.79
CM-18	06/07/10	47.68	887.89	840.21
CM-18	12/16/10	48.10	887.89	839.79
CM-18	06/07/11	47.11	887.89	840.78
CM-18	12/01/11	48.48	887.89	839.41
CM-18	05/29/12	48.67	887.89	839.22
CM-18	12/12/12	48.81	887.89	839.08
CM-18	06/17/13	48.92	887.89	838.97
CM-18	12/12/13	41.78	887.89	846.11
CM-18	05/27/14	48.19	887.89	839.70
CM-18	10/31/14	49.14	887.89	838.75
CM-18	05/26/15	49.45	887.89	838.44
CM-18	11/16/15	50.94	887.89	836.95
CM-18	05/16/16	50.53	887.89	837.36
CM-18	10/13/16	52.19	887.89	835.70
CM-18	04/06/17	48.09	887.89	839.80
CM-18	11/06/17	50.11	887.89	837.78
CM-18	05/07/18	50.08	887.89	837.81
CM-18	11/05/18	51.04	887.89	836.85
CM-18	05/22/19	47.25	887.89	840.64
CM-18	11/19/19	48.35	887.89	839.54
CM-18	05/18/20	47.40	887.89	840.49
CM-19	01/23/96	64.11	908.17	844.06
CM-19	02/12/96	64.22	908.17	843.95
CM-19	03/12/96	64.12	908.17	844.05
CM-19	04/16/96	64.15	908.17	844.02
CM-19	05/13/96	66.00	908.17	842.17
CM-19	06/18/96	64.72	908.17	843.45
CM-19	07/15/96	64.04	908.17	844.13
CM-19	08/12/96	64.70	908.17	843.47
CM-19	09/16/96	64.93	908.17	843.24
CM-19	10/25/96	65.48	908.17	842.69
CM-19	11/11/96	65.34	908.17	842.83
CM-19	02/10/97	62.97	908.17	845.20
CM-19	05/13/97	63.33	908.17	844.84
CM-19	08/11/97	64.01	908.17	844.16
CM-19	12/15/97	63.06	908.17	845.11
CM-19	02/12/98	62.13	908.17	846.04
CM-19	05/11/98	59.80	908.17	848.37
CM-19	08/11/98	61.12	908.17	847.05
CM-19	11/10/98	60.87	908.17	847.30
CM-19	04/16/99	59.13	908.17	849.04
CM-19	06/25/99	61.59	908.17	846.58
CM-19	12/27/99	63.10	908.17	845.07
CM-19	05/08/00	60.64	908.17	847.53
CM-19	09/24/00	62.89	908.17	845.28
CM-19	12/04/00	63.58	908.17	844.59
CM-19	03/12/01	59.69	908.17	848.48
CM-19	06/12/01	59.90	908.17	848.27
CM-19	09/27/01	59.32	908.17	848.85
CM-19	11/06/01	61.85	908.17	846.32
CM-19	03/15/02	60.04	908.17	848.13
CM-19	05/21/02	62.03	908.17	846.14
CM-19	09/24/02	63.47	908.17	844.70
CM-19	11/10/02	63.40	908.17	844.77
CM-19	03/28/03	62.11	908.17	846.06
CM-19	06/15/03	62.68	908.17	845.49
CM-19	09/26/03	64.41	908.17	843.76
CM-19	11/09/03	64.46	908.17	843.71
CM-19	03/22/04	64.38	908.17	843.79
CM-19	06/12/04	63.21	908.17	844.96
CM-19	08/17/04	65.66	908.17	842.51

APPENDIX B

SUMMARY OF WATER LEVEL DATA, 1996 - PRESENT

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Gauging Date	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Groundwater Elevation (ft, MSL)
CM-19	10/16/04	65.67	908.17	842.50
CM-19	04/15/05	54.12	908.17	854.05
CM-19	06/27/05	55.01	908.17	853.16
CM-19	08/16/05	65.62	908.17	842.55
CM-19	11/13/05	58.94	908.17	849.23
CM-19	03/14/06	57.55	908.17	850.62
CM-19	07/12/06	58.13	908.17	850.04
CM-19	11/04/06	60.21	908.17	847.96
CM-19	05/12/07	61.03	908.17	847.14
CM-19	11/03/07	61.50	908.17	846.67
CM-19	06/29/08	60.29	908.17	847.88
CM-19	11/14/08	62.14	908.17	846.03
CM-19	05/26/09	61.67	908.17	846.50
CM-19	11/30/09	62.79	908.17	845.38
CM-19	06/07/10	59.88	908.17	848.29
CM-19	12/16/10	61.45	908.17	846.72
CM-19	12/01/11	60.93	908.17	847.24
CM-19	05/29/12	61.62	908.17	846.55
CM-19	12/12/12	62.79	908.17	845.38
CM-19	06/17/13	63.12	908.17	845.05
CM-19	12/12/13	63.67	908.17	844.50
CM-19	10/31/14	64.11	908.17	844.06
CM-19	11/16/15	65.52	908.17	842.65
CM-19	11/06/17	63.88	908.17	844.29
CM-19	05/07/18	63.97	908.17	844.20
CM-19	11/05/18	65.59	908.17	842.58
CM-19	05/22/19	59.68	908.17	848.49
CM-19	11/19/19	62.41	908.17	845.76
CM-19	05/18/20	58.94	908.17	849.23
MW-15	01/23/96	27.40	868.23	840.83
MW-15	02/12/96	28.48	868.23	839.75
MW-15	03/12/96	27.06	868.23	841.17
MW-15	04/16/96	28.79	868.23	839.44
MW-15	05/13/96	27.46	868.23	840.77
MW-15	06/18/96	27.65	868.23	840.58
MW-15	07/15/96	27.62	868.23	840.61
MW-15	08/12/96	28.57	868.23	839.66
MW-15	09/16/96	28.79	868.23	839.44
MW-15	10/25/96	28.75	868.23	839.48
MW-15	11/11/96	27.35	868.23	840.88
MW-15	02/10/97	26.63	868.23	841.60
MW-15	05/13/97	29.22	868.23	839.01
MW-15	08/11/97	30.00	868.23	838.23
MW-15	12/15/97	27.61	868.23	840.62
MW-15	12/27/99	28.02	868.23	840.21
MW-15	05/08/00	24.63	868.23	843.60
MW-15	09/24/00	25.45	868.23	842.78
MW-15	12/04/00	26.18	868.23	842.05
MW-15	03/12/01	24.45	868.23	843.78
MW-15	06/12/01	24.83	868.23	843.40
MW-15	09/27/01	25.55	868.23	842.68
MW-15	11/06/01	25.58	868.23	842.65
MW-15	03/15/02	26.96	868.23	841.27
MW-15	05/21/02	27.33	868.23	840.90
MW-15	09/24/02	26.60	868.23	841.63
MW-15	11/10/02	26.75	868.23	841.48
MW-15	03/28/03	25.45	868.23	842.78
MW-15	06/15/03	28.04	868.23	840.19
MW-15	09/26/03	28.12	868.23	840.11
MW-15	11/09/03	28.19	868.23	840.04
MW-15	03/22/04	28.00	868.23	840.23
MW-15	06/12/04	27.71	868.23	840.52
MW-15	08/17/04	27.61	868.23	840.62
MW-15	10/16/04	27.67	868.23	840.56
MW-15	04/15/05	22.32	868.23	845.91
MW-15	06/27/05	23.78	868.23	844.45
MW-15	08/16/05	27.63	868.23	840.60
MW-15	11/13/05	24.25	868.23	843.98
MW-15	03/14/06	24.26	868.23	843.97

APPENDIX B

SUMMARY OF WATER LEVEL DATA, 1996 - PRESENT

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Gauging Date	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Groundwater Elevation (ft, MSL)
MW-15	07/12/06	24.33	868.23	843.90
MW-15	11/04/06	24.95	868.23	843.28
MW-15	05/12/07	24.80	868.23	843.43
MW-15	11/03/07	25.15	868.23	843.08
MW-15	06/29/08	24.82	868.23	843.41
MW-15	11/14/08	25.26	868.23	842.97
MW-15	05/26/09	25.58	868.23	842.65
MW-15	11/30/09	26.06	868.23	842.17
MW-15	06/07/10	24.93	868.23	843.30
MW-15	12/16/10	25.75	868.23	842.48
MW-15	06/07/11	24.57	868.23	843.66
MW-15	12/01/11	25.40	868.23	842.83
MW-15	05/29/12	25.50	868.23	842.73
MW-15	12/12/12	26.36	868.23	841.87
MW-15	06/17/13	26.58	868.23	841.65
MW-15	12/12/13	26.94	868.23	841.29
MW-15	05/27/14	26.04	868.23	842.19
MW-15	10/31/14	27.12	868.23	841.11
MW-15	05/26/15	27.37	868.23	840.86
MW-15	11/16/15	28.45	868.23	839.78
MW-15	05/16/16	28.31	868.23	839.92
MW-15	10/13/16	29.62	868.23	838.61
MW-15	04/06/17	25.98	868.23	842.25
MW-15	11/06/17	27.61	868.23	840.62
MW-15	05/07/18	27.50	868.23	840.73
MW-15	11/05/18	28.64	868.23	839.59
MW-15	05/22/19	25.48	868.23	842.75
MW-15	11/19/19	26.10	868.23	842.13
MW-15	05/18/20	25.05	868.23	843.18
MW-16	01/23/96	40.00	882.19	838.50
MW-16	02/12/96	40.49	882.19	838.01
MW-16	03/12/96	39.40	882.19	839.10
MW-16	04/16/96	38.22	882.19	840.28
MW-16	05/13/96	36.59	882.19	841.91
MW-16	06/18/96	39.15	882.19	839.35
MW-16	07/15/96	34.45	882.19	844.05
MW-16	08/12/96	44.59	882.19	833.91
MW-16	09/16/96	41.47	882.19	837.03
MW-16	10/25/96	39.97	882.19	838.53
MW-16	11/11/96	38.80	882.19	839.70
MW-16	02/10/97	32.80	882.19	845.70
MW-16	05/13/97	37.35	882.19	841.15
MW-16	08/11/97	38.86	882.19	839.64
MW-16	12/15/97	35.67	882.19	842.83
MW-16	02/12/98	33.42	882.19	845.08
MW-16	05/11/98	28.34	882.19	850.16
MW-16	08/11/98	32.50	882.19	846.00
MW-16	11/10/98	37.56	882.19	840.94
MW-16		OBSTRUCTED Jun1999 - Oct2001		
MW-16	11/06/01	35.22	882.19	846.97
MW-16	03/15/02	36.70	882.19	845.49
MW-16	05/21/02	36.65	882.19	845.54
MW-16	09/24/02	36.46	882.19	845.73
MW-16	11/10/02	36.25	882.19	845.94
MW-16	03/28/03	34.94	882.19	847.25
MW-16	06/15/03	32.54	882.19	849.65
MW-16	09/26/03	35.13	882.19	847.06
MW-16	11/09/03	35.23	882.19	846.96
MW-16	03/22/04	34.21	882.19	847.98
MW-16	06/12/04	38.05	882.19	844.14
MW-16	08/17/04	38.81	882.19	843.38
MW-16	10/16/04	38.80	882.19	843.39
MW-16	04/15/05	28.92	882.19	853.27
MW-16	06/27/05	31.42	882.19	850.77
MW-16	08/16/05	38.84	882.19	843.35
MW-16	11/13/05	33.85	882.19	848.34
MW-16	03/14/06	33.79	882.19	848.40
MW-16	07/12/06	33.81	882.19	848.38
MW-16	11/04/06	34.44	882.19	847.75

APPENDIX B

SUMMARY OF WATER LEVEL DATA, 1996 - PRESENT

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Gauging Date	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Groundwater Elevation (ft, MSL)
MW-16	05/12/07	35.53	882.19	846.66
MW-16	11/03/07	36.11	882.19	846.08
MW-16	06/29/08	34.70	882.19	847.49
MW-16	11/14/08	36.09	882.19	846.10
MW-16	05/26/09	38.18	882.19	844.01
MW-16	11/30/09	36.97	882.19	845.22
MW-16	06/07/10	34.46	882.19	847.73
MW-16	12/16/10	35.93	882.19	846.26
MW-16	06/07/11	33.88	882.19	848.31
MW-16	12/01/11	35.50	882.19	846.69
MW-16	05/29/12	36.00	882.19	846.19
MW-16	12/12/12	36.72	882.19	845.47
MW-16	06/17/13	37.50	882.19	844.69
MW-16	12/12/13	37.15	882.19	845.04
MW-16	05/27/14	36.74	882.19	845.45
MW-16	10/31/14	37.35	882.19	844.84
MW-16	05/26/15	42.24	882.19	839.95
MW-16	11/16/15	39.34	882.19	842.85
MW-16	05/16/16	39.44	882.19	842.75
MW-16	10/13/16	40.58	882.19	841.61
MW-16	04/06/17	34.60	882.19	847.59
MW-16	11/06/17	38.01	882.19	844.18
MW-16	05/07/18	37.73	882.19	844.46
MW-16	11/05/18	38.92	882.19	843.27
MW-16	05/22/19	34.26	882.19	847.93
MW-16	11/19/19	36.12	882.19	846.07
MW-16	05/18/20	33.39	882.19	848.80
MW-17	01/23/96	42.23	883.52	841.29
MW-17	02/12/96	41.30	883.52	842.22
MW-17	03/12/96	39.35	883.52	844.17
MW-17	04/16/96	40.53	883.52	842.99
MW-17	05/13/96	39.82	883.52	843.70
MW-17	06/18/96	41.39	883.52	842.13
MW-17	07/15/96	38.83	883.52	844.69
MW-17	08/12/96	41.09	883.52	842.43
MW-17	09/16/96	41.15	883.52	842.37
MW-17	10/25/96	42.52	883.52	841.00
MW-17	11/11/96	41.55	883.52	841.97
MW-17	02/10/97	38.89	883.52	844.63
MW-17	05/13/97	37.80	883.52	845.72
MW-17	08/11/97	38.31	883.52	845.21
MW-17	12/15/97	38.22	883.52	845.30
MW-17	02/12/98	37.33	883.52	846.19
MW-17	05/11/98	33.12	883.52	850.40
MW-17	08/11/98	34.68	883.52	848.84
MW-17	11/10/98	35.17	883.52	848.35
MW-17	04/16/99	33.35	883.52	850.17
MW-17	06/25/99	35.57	883.52	847.95
MW-17	12/27/99	36.50	883.52	847.02
MW-17	05/08/00	32.06	883.52	851.46
MW-17	09/24/00	35.32	883.52	848.20
MW-17	12/04/00	36.45	883.52	847.07
MW-17	03/12/01	29.06	883.52	854.46
MW-17	06/12/01	29.31	883.52	854.21
MW-17	09/27/01	33.11	883.52	850.41
MW-17	11/06/01	33.06	883.52	850.46
MW-17	03/15/02	35.10	883.52	848.42
MW-17	05/21/02	38.54	883.52	844.98
MW-17	09/24/02	34.77	883.52	848.75
MW-17	11/10/02	35.60	883.52	847.92
MW-17	03/28/03	32.55	883.52	850.97
MW-17	06/15/03	34.98	883.52	848.54
MW-17	09/26/03	37.51	883.52	846.01
MW-17	11/09/03	37.56	883.52	845.96
MW-17	03/22/04	35.13	883.52	848.39
MW-17	06/12/04	35.06	883.52	848.46
MW-17	08/17/04	38.12	883.52	845.40
MW-17	10/16/04	38.14	883.52	845.38
MW-17	04/15/05	34.77	883.52	848.75

APPENDIX B

SUMMARY OF WATER LEVEL DATA, 1996 - PRESENT

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Gauging Date	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Groundwater Elevation (ft, MSL)
MW-17	08/16/05	38.08	883.52	845.44
MW-17	11/13/05	32.11	883.52	851.41
MW-17	03/14/06	32.02	883.52	851.50
MW-17	07/12/06	32.07	883.52	851.45
MW-17	11/04/06	33.35	883.52	850.17
MW-17	05/12/07	34.24	883.52	849.28
MW-17	11/03/07	34.96	883.52	848.56
MW-17	06/29/08	32.26	883.52	851.26
MW-17	11/14/08	35.06	883.52	848.46
MW-17	05/26/09	34.16	883.52	849.36
MW-17	11/30/09	35.20	883.52	848.32
MW-17	06/07/10	31.58	883.52	851.94
MW-17	12/16/10	34.40	883.52	849.12
MW-17	12/01/11	33.38	883.52	850.14
MW-17	05/29/12	33.84	883.52	849.68
MW-17	12/12/12	34.85	883.52	848.67
MW-17	06/17/13	33.44	883.52	850.08
MW-17	12/12/13	33.89	883.52	849.63
MW-17	10/31/14	35.98	883.52	847.54
MW-17	11/16/15	37.96	883.52	845.56
MW-17	11/06/17	36.09	883.52	847.43
MW-17	05/07/18	35.86	883.52	847.66
MW-17	11/05/18	37.49	883.52	846.03
MW-17	05/22/19	31.10	883.52	852.42
MW-17	11/19/19	--	883.52	--
MW-17	03/09/20	33.33	883.52	850.19
MW-17	05/18/20	30.00	883.52	853.52
MW-19S	01/23/96	20.28	860.66	840.38
MW-19S	02/12/96	20.10	860.66	840.56
MW-19S	03/12/96	19.15	860.66	841.51
MW-19S	04/16/96	19.65	860.66	841.01
MW-19S	05/13/96	19.92	860.66	840.74
MW-19S	06/18/96	20.03	860.66	840.63
MW-19S	07/15/96	20.07	860.66	840.59
MW-19S	08/12/96	20.06	860.66	840.60
MW-19S	09/16/96	20.27	860.66	840.39
MW-19S	10/25/96	18.37	860.66	842.29
MW-19S	11/11/96	20.33	860.66	840.33
MW-19S	08/11/97	19.65	860.66	841.01
MW-19S	12/15/97	19.36	860.66	841.30
MW-19S	02/12/98	17.95	860.66	842.71
MW-19S	05/11/98	16.16	860.66	844.50
MW-19S	08/11/98	19.28	860.66	841.38
MW-19S	11/10/98	18.51	860.66	842.15
MW-19S	04/16/99	18.30	860.66	842.36
MW-19S	06/25/99	18.32	860.66	842.34
MW-19S	12/27/99	19.17	860.66	841.49
MW-19S	05/08/00	18.21	860.66	842.45
MW-19S	09/24/00	19.03	860.66	841.63
MW-19S	12/04/00	19.32	860.66	841.34
MW-19S	03/12/01	17.31	860.66	843.35
MW-19S	06/12/01	18.18	860.66	842.48
MW-19S	09/27/01	18.62	860.66	842.04
MW-19S	11/06/01	18.81	860.66	841.85
MW-19S	03/15/02	18.77	860.66	841.89
MW-19S	05/21/02	19.48	860.66	841.18
MW-19S	09/24/02	19.15	860.66	841.51
MW-19S	11/10/02	19.19	860.66	841.47
MW-19S	03/28/03	18.36	860.66	842.30
MW-19S	06/15/03	19.77	860.66	840.89
MW-19S	09/26/03	19.64	860.66	841.02
MW-19S	11/09/03	19.70	860.66	840.96
MW-19S	03/22/04	18.66	860.66	842.00
MW-19S	06/12/04	19.63	860.66	841.03
MW-19S	08/17/04	17.89	860.66	842.77
MW-19S	10/16/04	17.81	860.66	842.85
MW-19S	04/15/05	15.62	860.66	845.04
MW-19S	06/27/05	16.89	860.66	843.77
MW-19S	08/16/05	17.88	860.66	842.78

APPENDIX B

SUMMARY OF WATER LEVEL DATA, 1996 - PRESENT

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Gauging Date	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Groundwater Elevation (ft, MSL)
MW-19S	11/13/05	17.70	860.66	842.96
MW-19S	03/14/06	16.96	860.66	843.70
MW-19S	07/12/06	17.02	860.66	843.64
MW-19S	11/04/06	18.06	860.66	842.60
MW-19S	05/12/07	17.45	860.66	843.21
MW-19S	11/03/07	18.16	860.66	842.50
MW-19S	06/29/08	17.43	860.66	843.23
MW-19S	11/14/08	17.75	860.66	842.91
MW-19S	05/26/09	18.41	860.66	842.25
MW-19S	11/30/09	19.48	860.66	841.18
MW-19S	06/07/10	18.26	860.66	842.40
MW-19S	12/16/10	16.83	860.66	843.83
MW-19S	06/07/11	16.11	860.66	844.55
MW-19S	12/01/11	15.98	860.66	844.68
MW-19S	05/29/12	18.55	860.66	842.11
MW-19S	12/12/12	16.23	860.66	844.43
MW-19S	06/17/13	19.54	860.66	841.12
MW-19S	12/12/13	19.64	860.66	841.02
MW-19S	05/27/14	19.07	860.66	841.59
MW-19S	10/31/14	20.28	860.66	840.38
MW-19S	05/26/15	20.38	860.66	840.28
MW-19S	11/16/15	21.35	860.66	839.31
MW-19S	05/16/16	21.61	860.66	839.05
MW-19S	10/13/16	22.89	860.66	837.77
MW-19S	04/06/17	18.68	860.66	841.98
MW-19S	11/06/17	20.76	860.66	839.90
MW-19S	05/07/18	20.50	860.66	840.16
MW-19S	11/05/18	21.74	860.66	838.92
MW-19S	05/22/19	18.51	860.66	842.15
MW-19S	11/19/19	19.43	860.66	841.23
MW-19S	05/18/20	17.55	860.66	843.11
MW-19D	01/23/96	10.04	860.38	850.34
MW-19D	02/12/96	9.57	860.38	850.81
MW-19D	03/12/96	27.61	860.38	832.77
MW-19D	04/16/96	28.94	860.38	831.44
MW-19D	05/13/96	23.80	860.38	836.58
MW-19D	06/18/96	10.60	860.38	849.78
MW-19D	07/15/96	10.35	860.38	850.03
MW-19D	08/12/96	10.50	860.38	849.88
MW-19D	09/16/96	10.29	860.38	850.09
MW-19D	10/25/96	10.13	860.38	850.25
MW-19D	11/11/96	10.02	860.38	850.36
MW-19D	08/11/97	9.45	860.38	850.93
MW-19D	12/15/97	9.09	860.38	851.29
MW-19D	02/12/98	8.16	860.38	852.22
MW-19D	05/11/98	7.69	860.38	852.69
MW-19D	08/11/98	10.23	860.38	850.15
MW-19D	11/10/98	8.10	860.49	852.39
MW-19D	04/16/99	7.99	860.38	852.39
MW-19D	06/25/99	8.00	860.38	852.38
MW-19D	12/27/99	8.42	860.38	851.96
MW-19D	05/08/00	7.90	860.38	852.48
MW-19D	09/24/00	8.55	860.38	851.83
MW-19D	12/04/00	8.66	860.38	851.72
MW-19D	03/12/01	7.60	860.38	852.78
MW-19D	06/12/01	7.97	860.38	852.41
MW-19D	09/27/01	8.41	860.38	851.97
MW-19D	11/06/01	8.51	860.38	851.87
MW-19D	03/15/02	8.62	860.38	851.76
MW-19D	05/21/02	10.01	860.38	850.37
MW-19D	09/24/02	8.73	860.38	851.65
MW-19D	11/10/02	8.92	860.38	851.46
MW-19D	03/28/03	8.57	860.38	851.81
MW-19D	06/15/03	10.14	860.38	850.24
MW-19D	09/26/03	9.81	860.38	850.57
MW-19D	11/09/03	9.74	860.38	850.64
MW-19D	03/22/04	9.06	860.38	851.32
MW-19D	06/12/04	12.10	860.38	848.28
MW-19D	08/17/04	12.11	860.38	848.27

APPENDIX B

SUMMARY OF WATER LEVEL DATA, 1996 - PRESENT

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Gauging Date	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Groundwater Elevation (ft, MSL)
MW-19D	10/16/04	12.35	860.38	848.03
MW-19D	04/15/05	11.13	860.38	849.25
MW-19D	06/27/05	7.94	860.38	852.44
MW-19D	08/16/05	12.12	860.38	848.26
MW-19D	11/13/05	10.26	860.38	850.12
MW-19D	03/14/06	9.86	860.38	850.52
MW-19D	07/12/06	9.97	860.38	850.41
MW-19D	11/04/06	12.11	860.38	848.27
MW-19D	05/12/07	10.43	860.38	849.95
MW-19D	11/03/07	8.45	860.38	851.93
MW-19D	06/29/08	8.15	860.38	852.23
MW-19D	11/14/08	10.44	860.38	849.94
MW-19D	05/26/09	8.39	860.38	851.99
MW-19D	11/30/09	11.16	860.38	849.22
MW-19D	06/07/10	10.65	860.38	849.73
MW-19D	12/16/10	7.96	860.38	852.42
MW-19D	06/07/11	10.14	860.38	850.24
MW-19D	12/01/11	9.79	860.38	850.59
MW-19D	05/29/12	10.88	860.38	849.50
MW-19D	12/12/12	10.14	860.38	850.24
MW-19D	06/17/13	11.41	860.38	848.97
MW-19D	12/12/13	9.87	860.38	850.51
MW-19D	05/27/14	9.79	860.38	850.59
MW-19D	10/31/14	10.39	860.38	849.99
MW-19D	05/26/15	12.09	860.38	848.29
MW-19D	11/16/15	14.23	860.38	846.15
MW-19D	05/16/16	13.11	860.38	847.27
MW-19D	10/13/16	13.65	860.38	846.73
MW-19D	04/06/17	10.21	860.38	850.17
MW-19D	11/06/17	10.85	860.38	849.53
MW-19D	05/07/18	12.68	860.38	847.70
MW-19D	11/05/18	11.49	860.38	848.89
MW-19D	05/22/19	12.09	860.38	848.29
MW-19D	11/19/19	10.46	860.38	849.92
MW-19D	05/18/20	9.89	860.38	850.49
MW-20S	01/23/96	16.98	858.03	841.05
MW-20S	02/12/96	17.12	858.03	840.91
MW-20S	03/12/96	16.32	858.03	841.71
MW-20S	04/16/96	16.80	858.03	841.23
MW-20S	05/13/96	16.81	858.03	841.22
MW-20S	06/18/96	17.05	858.03	840.98
MW-20S	07/15/96	17.16	858.03	840.87
MW-20S	08/12/96	17.05	858.03	840.98
MW-20S	09/16/96	17.32	858.03	840.71
MW-20S	10/25/96	17.28	858.03	840.75
MW-20S	11/11/96	17.06	858.03	840.97
MW-20S	02/10/97	16.35	858.03	841.68
MW-20S	05/13/97	17.36	858.03	840.67
MW-20S	08/11/97	16.63	858.03	841.40
MW-20S	12/15/97	16.26	858.03	841.77
MW-20S	02/12/98	15.18	858.03	842.85
MW-20S	05/11/98	14.00	858.03	844.03
MW-20S	08/11/98	17.13	858.03	840.90
MW-20S	11/10/98	15.93	858.03	842.10
MW-20S	04/16/99	15.88	858.03	842.15
MW-20S	06/25/99	15.11	858.03	842.92
MW-20S	09/23/99	15.22	858.03	842.81
MW-20S	12/27/99	16.10	858.03	841.93
MW-20S	05/08/00	15.04	858.03	842.99
MW-20S	09/24/00	15.73	858.03	842.30
MW-20S	12/04/00	15.99	858.03	842.04
MW-20S	03/12/01	14.70	858.03	843.33
MW-20S	06/12/01	14.96	858.03	843.07
MW-20S	09/27/01	15.62	858.03	842.41
MW-20S	11/06/01	15.69	858.03	842.34
MW-20S	03/15/02	15.36	858.03	842.67
MW-20S	05/21/02	16.21	858.03	841.82
MW-20S	09/24/02	16.34	858.03	841.69
MW-20S	11/10/02	16.36	858.03	841.67

APPENDIX B

SUMMARY OF WATER LEVEL DATA, 1996 - PRESENT

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Gauging Date	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Groundwater Elevation (ft, MSL)
MW-20S	03/28/03	15.66	858.03	842.37
MW-20S	06/15/03	18.04	858.03	839.99
MW-20S	09/26/03	17.23	858.03	840.80
MW-20S	11/09/03	17.33	858.03	840.70
MW-20S	03/22/04	17.30	858.03	840.73
MW-20S	06/12/04	16.53	858.03	841.50
MW-20S	08/17/04	17.22	858.03	840.81
MW-20S	10/16/04	17.21	858.03	840.82
MW-20S	04/15/05	13.20	858.03	844.83
MW-20S	06/27/05	13.99	858.03	844.04
MW-20S	08/16/05	17.24	858.03	840.79
MW-20S	11/13/05	14.82	858.03	843.21
MW-20S	03/14/06	14.50	858.03	843.53
MW-20S	07/12/06	14.66	858.03	843.37
MW-20S	11/04/06	15.16	858.03	842.87
MW-20S	05/12/07	15.12	858.03	842.91
MW-20S	11/03/07	15.60	858.03	842.43
MW-20S	06/29/08	15.14	858.03	842.89
MW-20S	11/14/08	15.68	858.03	842.35
MW-20S	05/26/09	15.47	858.03	842.56
MW-20S	11/30/09	16.69	858.03	841.34
MW-20S	06/07/10	15.41	858.03	842.62
MW-20S	12/16/10	15.82	858.03	842.21
MW-20S	06/07/11	15.19	858.03	842.84
MW-20S	12/01/11	15.59	858.03	842.44
MW-20S	05/29/12	15.56	858.03	842.47
MW-20S	12/12/12	16.37	858.03	841.66
MW-20S	06/17/13	16.75	858.03	841.28
MW-20S	12/12/13	30.75	858.03	827.28
MW-20S	05/27/14	16.07	858.03	841.96
MW-20S	10/31/14	17.49	858.03	840.54
MW-20S	05/26/15	17.42	858.03	840.61
MW-20S	11/16/15	18.37	858.03	839.66
MW-20S	05/16/16	18.49	858.03	839.54
MW-20S	10/13/16	19.49	858.03	838.54
MW-20S	04/06/17	15.97	858.03	842.06
MW-20S	11/06/17	17.86	858.03	840.17
MW-20S	05/07/18	17.97	858.03	840.06
MW-20S	11/05/18	18.82	858.03	839.21
MW-20S	05/22/19	15.25	858.03	842.78
MW-20S	11/19/19	16.69	858.03	841.34
MW-20S	05/18/20	14.80	858.03	843.23
MW-20D	01/23/96	16.28	858.35	842.07
MW-20D	02/12/96	17.26	858.35	841.09
MW-20D	03/12/96	16.42	858.35	841.93
MW-20D	04/16/96	17.20	858.35	841.15
MW-20D	05/13/96	16.67	858.35	841.68
MW-20D	06/18/96	16.74	858.35	841.61
MW-20D	07/15/96	17.06	858.35	841.29
MW-20D	08/12/96	16.87	858.35	841.48
MW-20D	09/16/96	17.31	858.35	841.04
MW-20D	10/25/96	17.02	858.35	841.33
MW-20D	11/11/96	16.56	858.35	841.79
MW-20D	02/10/97	15.62	858.35	842.73
MW-20D	05/13/97	16.64	858.35	841.71
MW-20D	08/11/97	16.50	858.35	841.85
MW-20D	12/15/97	16.10	858.35	842.25
MW-20D	02/12/98	15.18	858.35	843.17
MW-20D	05/11/98	14.03	858.35	844.32
MW-20D	08/11/98	17.16	858.35	841.19
MW-20D	11/10/98	17.23	858.35	841.12
MW-20D	04/16/99	17.12	858.35	841.23
MW-20D	06/25/99	14.12	858.35	844.23
MW-20D	12/27/99	15.56	858.35	842.79
MW-20D	05/08/00	14.91	858.35	843.44
MW-20D	09/24/00	14.98	858.35	843.37
MW-20D	03/12/01	13.45	858.35	844.90
MW-20D	06/12/01	14.99	858.35	843.36
MW-20D	09/27/01	14.96	858.35	843.39

APPENDIX B

SUMMARY OF WATER LEVEL DATA, 1996 - PRESENT

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Gauging Date	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Groundwater Elevation (ft, MSL)
MW-20D	11/06/01	15.51	858.35	842.84
MW-20D	03/15/02	17.02	858.35	841.33
MW-20D	05/21/02	15.84	858.35	842.51
MW-20D	09/24/02	15.31	858.35	843.04
MW-20D	11/10/02	15.32	858.35	843.03
MW-20D	03/28/03	15.56	858.35	842.79
MW-20D	06/15/03	16.31	858.35	842.04
MW-20D	09/26/03	17.41	858.35	840.94
MW-20D	11/09/03	17.51	858.35	840.84
MW-20D	03/22/04	16.13	858.35	842.22
MW-20D	06/12/04	16.10	858.35	842.25
MW-20D	08/17/04	16.67	858.35	841.68
MW-20D	10/16/04	16.66	858.35	841.69
MW-20D	04/15/05	13.51	858.35	844.84
MW-20D	06/27/05	14.04	858.35	844.31
MW-20D	08/16/05	16.65	858.35	841.70
MW-20D	11/13/05	14.94	858.35	843.41
MW-20D	03/14/06	14.55	858.35	843.80
MW-20D	07/12/06	14.75	858.35	843.60
MW-20D	11/04/06	13.95	858.35	844.40
MW-20D	11/03/07	14.98	858.35	843.37
MW-20D	11/14/08	14.63	858.35	843.72
MW-20D	12/16/10	15.00	858.35	843.35
MW-20D	12/01/11	15.69	858.35	842.66
MW-20D	12/12/12	15.50	858.35	842.85
MW-20D	10/31/14	16.37	858.35	841.98
MW-20D	05/26/15	16.56	858.35	841.79
MW-20D	11/16/15	17.44	858.35	840.91
MW-20D	05/16/16	17.64	858.35	840.71
MW-20D	10/13/16	18.58	858.35	839.77
MW-20D	04/06/17	15.31	858.35	843.04
MW-20D	11/06/17	16.89	858.35	841.46
MW-20D	05/07/18	16.77	858.35	841.58
MW-20D	11/05/18	17.82	858.35	840.53
MW-20D	05/22/19	14.60	858.35	843.75
MW-20D	11/19/19	15.65	858.35	842.70
MW-20D	05/18/20	14.27	858.35	844.08
MW-23	03/12/01	24.42	873.66	848.66
MW-23	06/12/01	26.72	873.66	846.36
MW-23	09/27/01	28.62	873.66	844.46
MW-23	11/06/01	28.98	873.66	844.10
MW-23	03/15/02	29.31	873.66	844.86
MW-23	05/21/02	29.50	873.66	844.67
MW-23	09/24/02	29.69	873.66	844.48
MW-23	11/10/02	29.78	873.66	844.39
MW-23	03/28/03	28.61	873.66	845.56
MW-23	06/15/03	29.32	873.66	844.85
MW-23	09/26/03	31.04	873.66	843.13
MW-23	11/09/03	31.08	873.66	843.09
MW-23	03/22/04	30.91	873.66	843.26
MW-23	06/12/04	30.55	873.66	843.62
MW-23	08/17/04	31.99	873.66	842.18
MW-23	10/16/04	31.93	873.66	842.24
MW-23	04/15/05	26.88	873.66	847.29
MW-23	06/27/05	27.43	873.66	846.74
MW-23	08/16/05	31.94	873.66	842.23
MW-23	11/13/05	27.48	873.66	846.69
MW-23	03/14/06	26.22	873.66	847.44
MW-23	07/12/06	26.89	873.66	846.77
MW-23	11/04/06	27.15	873.66	846.51
MW-23	05/12/07	27.85	873.66	845.81
MW-23	11/03/07	27.89	873.66	845.77
MW-23	06/29/08	26.90	873.66	846.76
MW-23	11/14/08	28.80	873.66	844.86
MW-23	05/26/09	28.41	873.66	845.25
MW-23	11/30/09	29.23	873.66	844.43
MW-23	06/07/10	25.92	873.66	847.74
MW-23	12/16/10	28.18	873.66	845.48
MW-23	06/07/11	24.98	873.66	848.68

APPENDIX B

SUMMARY OF WATER LEVEL DATA, 1996 - PRESENT

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Gauging Date	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Groundwater Elevation (ft, MSL)
MW-23	12/01/11	27.80	873.66	845.86
MW-23	05/29/12	28.28	873.66	845.38
MW-23	12/12/12	29.20	873.66	844.46
MW-23	06/17/13	25.16	873.66	848.50
MW-23	12/12/13	30.02	873.66	843.64
MW-23	05/27/14	29.58	873.66	844.08
MW-23	10/31/14	30.21	873.66	843.45
MW-23	05/26/15	29.31	873.66	844.35
MW-23	11/16/15	32.06	873.66	841.60
MW-23	05/16/16	31.93	873.66	841.73
MW-23	10/13/16	32.90	873.66	840.76
MW-23	04/06/17	24.80	873.66	848.86
MW-23	11/06/17	30.59	873.66	843.07
MW-23	05/07/18	29.31	873.66	844.35
MW-23	11/05/18	31.92	873.66	841.74
MW-23	05/22/19	25.79	873.66	847.87
MW-23	11/19/19	29.20	873.66	844.46
MW-23	03/09/20	27.76	873.66	845.90
MW-23	05/18/20	23.20	873.66	850.46
MW-24	11/03/97	38.57	877.29	839.09
MW-24	11/10/98	34.05	877.29	843.61
MW-24	12/04/00	37.91	877.29	839.75
MW-24	06/12/01	35.65	877.29	842.01
MW-24	09/27/01	36.21	877.29	841.45
MW-24	11/06/01	37.14	877.29	840.52
MW-24	03/15/02	37.61	877.29	840.05
MW-24	05/21/02	38.20	877.29	839.46
MW-24	09/24/02	37.60	877.29	840.06
MW-24	11/10/02	37.70	877.29	839.96
MW-24	03/28/03	36.20	877.29	841.46
MW-24	06/15/03	36.12	877.29	841.54
MW-24	09/26/03	39.39	877.29	838.27
MW-24	11/09/03	39.30	877.29	838.36
MW-24	03/22/04	39.04	877.29	838.62
MW-24	06/12/04	38.77	877.29	838.89
MW-24	08/17/04	40.15	877.29	837.51
MW-24	10/16/04	40.31	877.29	837.35
MW-24	04/15/05	33.84	877.29	843.82
MW-24	06/27/05	35.01	877.29	842.65
MW-24	08/16/05	40.14	877.29	837.52
MW-24	11/13/05	36.90	877.29	840.76
MW-24	03/14/06	36.50	877.29	840.79
MW-24	07/12/06	36.88	877.29	840.41
MW-24	11/04/06	38.03	877.29	839.26
MW-24	05/12/07	38.12	877.29	839.17
MW-24	11/03/07	38.31	877.29	838.98
MW-24	06/29/08	36.95	877.29	840.34
MW-24	11/14/08	38.57	877.29	838.72
MW-24	05/26/09	37.84	877.29	839.45
MW-24	11/30/09	39.41	877.29	837.88
MW-24	06/07/10	38.15	877.29	839.14
MW-24	12/16/10	38.88	877.29	838.41
MW-24	06/07/11	37.06	877.29	840.23
MW-24	12/01/11	39.33	877.29	837.96
MW-24	05/29/12	39.58	877.29	837.71
MW-24	12/12/12	39.98	877.29	837.31
MW-24	06/17/13	38.11	877.29	839.18
MW-24	12/12/13	39.54	877.29	837.75
MW-24	05/27/14	38.81	877.29	838.48
MW-24	10/31/14	40.23	877.29	837.06
MW-24	05/26/15	40.74	877.29	836.55
MW-24	11/16/15	42.20	877.29	835.09
MW-24	05/16/16	42.08	877.29	835.21
MW-24	10/13/16	43.30	877.29	833.99
MW-24	12/28/16	43.52	877.29	833.77
MW-24	01/24/17	42.38	877.29	834.91
MW-24	02/21/17	39.88	877.29	837.41
MW-24	04/06/17	39.43	877.29	837.86
MW-24	05/23/17	39.59	877.29	837.70

APPENDIX B

SUMMARY OF WATER LEVEL DATA, 1996 - PRESENT

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Gauging Date	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Groundwater Elevation (ft, MSL)
MW-24	08/17/17	40.32	877.29	836.97
MW-24	11/06/17	41.14	877.29	836.15
MW-24	02/28/18	42.28	877.29	835.01
MW-24	05/07/18	41.43	877.29	835.86
MW-24	08/07/18	41.72	877.29	835.57
MW-24	11/05/18	42.14	877.29	835.15
MW-24	05/22/19	38.07	877.29	839.22
MW-24	11/19/19	39.04	877.29	838.25
MW-24	05/18/20	37.95	877.29	839.34
MW-25	11/03/97	51.68	890.28	839.07
MW-25	11/10/98	47.80	890.28	842.95
MW-25	12/27/99	51.19	890.28	839.56
MW-25	09/24/00	49.32	890.28	841.43
MW-25	12/04/00	50.05	890.28	840.70
MW-25	03/12/01	47.40	890.28	843.35
MW-25	06/12/01	47.72	890.28	843.03
MW-25	09/27/01	46.07	890.28	844.68
MW-25	11/06/01	47.54	890.28	843.21
MW-25	03/15/02	49.25	890.28	841.50
MW-25	05/21/02	47.37	890.28	843.38
MW-25	09/24/02	46.70	890.28	844.05
MW-25	11/10/02	46.71	890.28	844.04
MW-25	03/28/03	45.20	890.28	845.55
MW-25	06/15/03	46.10	890.28	844.65
MW-25	09/26/03	51.88	890.28	838.87
MW-25	11/09/03	51.30	890.28	839.45
MW-25	03/22/04	50.62	890.28	840.13
MW-25	06/12/04	49.56	890.28	841.19
MW-25	08/17/04	47.92	890.28	842.83
MW-25	10/16/04	47.90	890.28	842.85
MW-25	04/15/05	46.84	890.28	843.91
MW-25	06/27/05	48.20	890.28	842.55
MW-25	08/16/05	47.89	890.28	842.86
MW-25	11/13/05	49.51	890.28	841.24
MW-25	03/14/06	48.92	890.28	841.36
MW-25	07/12/06	49.16	890.28	841.12
MW-25	11/04/06	49.92	890.28	840.36
MW-25	05/12/07	50.35	890.28	839.93
MW-25	11/03/07	51.15	890.28	839.13
MW-25	06/29/08	50.40	890.28	839.88
MW-25	11/14/08	51.20	890.28	839.08
MW-25	05/26/09	51.05	890.28	839.23
MW-25	11/30/09	51.78	890.28	838.50
MW-25	06/07/10	50.72	890.28	839.56
MW-25	12/16/10	51.50	890.28	838.78
MW-25	12/01/11	51.85	890.28	838.43
MW-25	05/29/12	51.96	890.28	838.32
MW-25	12/12/12	52.40	890.28	837.88
MW-25	06/17/13	51.66	890.28	838.62
MW-25	12/12/13	50.59	890.28	839.69
MW-25	05/27/14	51.57	890.28	838.71
MW-25	10/31/14	52.69	890.28	837.59
MW-25	05/26/15	53.32	890.28	836.96
MW-25	11/16/15	54.37	890.28	835.91
MW-25	05/16/16	54.52	890.28	835.76
MW-25	10/13/16	53.75	890.28	836.53
MW-25	04/06/17	50.24	890.28	840.04
MW-25	05/07/18	51.81	890.28	838.47
MW-25	11/05/18	53.92	890.28	836.36
MW-25	05/22/19	47.66	890.28	842.62
MW-25	11/19/19	49.92	890.28	840.36
MW-25	05/18/20	50.10	890.28	840.18
MW-26	01/23/96	46.85	885.50	838.65
MW-26	02/12/96	46.40	885.50	839.10
MW-26	03/12/96	45.42	885.50	840.08
MW-26	04/16/96	45.54	885.50	839.96
MW-26	05/13/96	45.93	885.50	839.57
MW-26	06/18/96	46.42	885.50	839.08
MW-26	07/15/96	46.59	885.50	838.91

APPENDIX B

SUMMARY OF WATER LEVEL DATA, 1996 - PRESENT

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Gauging Date	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Groundwater Elevation (ft, MSL)
MW-26	08/12/96	46.20	885.50	839.30
MW-26	09/16/96	46.75	885.50	838.75
MW-26	10/25/96	47.25	885.50	838.25
MW-26	11/11/96	47.33	885.50	838.17
MW-26	02/10/97	43.41	885.50	842.09
MW-26	05/13/97	44.41	885.50	841.09
MW-26	08/11/97	45.23	885.50	840.27
MW-26	12/15/97	45.27	885.50	840.23
MW-26	02/12/98	41.69	885.50	843.81
MW-26	05/11/98	42.38	885.50	843.12
MW-26	08/11/98	43.33	885.50	842.17
MW-26	11/10/98	43.61	885.50	841.89
MW-26	04/16/99	42.13	885.50	843.37
MW-26	06/25/99	44.85	885.50	840.65
MW-26	12/27/99	46.26	885.50	839.24
MW-26	05/08/00	45.62	885.50	839.88
MW-26	09/24/00	47.45	885.50	838.05
MW-26	12/04/00	39.83	885.50	845.67
MW-26	03/12/01	41.61	885.50	843.89
MW-26	06/12/01	43.49	885.50	842.01
MW-26	09/27/01	43.41	885.50	842.09
MW-26	11/06/01	43.93	885.50	841.57
MW-26	03/15/02	45.32	885.50	840.18
MW-26	05/21/02	44.73	885.50	840.77
MW-26	09/24/02	43.74	885.50	841.76
MW-26	11/10/02	43.87	885.50	841.63
MW-26	03/28/03	42.12	885.50	843.38
MW-26	06/15/03	42.76	885.50	842.74
MW-26	09/26/03	46.89	885.50	838.61
MW-26	11/09/03	46.98	885.50	838.52
MW-26	03/22/04	45.15	885.50	840.35
MW-26	06/12/04	45.01	885.50	840.49
MW-26	08/17/04	45.96	885.50	839.54
MW-26	10/16/04	45.96	885.50	839.54
MW-26	04/15/05	44.20	885.50	841.30
MW-26	06/27/05	43.62	885.50	841.88
MW-26	08/16/05	45.95	885.50	839.55
MW-26	11/13/05	45.00	885.50	840.50
MW-26	03/14/06	45.01	885.50	840.49
MW-26	07/12/06	45.11	885.50	840.39
MW-26	11/04/06	49.60	885.50	835.90
MW-26	05/12/07	45.95	885.50	839.55
MW-26	11/03/07	46.54	885.50	838.96
MW-26	06/29/08	45.74	885.50	839.76
MW-26	11/14/08	46.62	885.50	838.88
MW-26	05/26/09	46.39	885.50	839.11
MW-26	11/30/09	47.22	885.50	838.28
MW-26	06/07/10	46.20	885.50	839.30
MW-26	12/16/10	46.97	885.50	838.53
MW-26	06/07/11	45.09	885.50	840.41
MW-26	12/01/11	47.26	885.50	838.24
MW-26	05/29/12	47.37	885.50	838.13
MW-26	12/12/12	48.00	885.50	837.50
MW-26	06/17/13	47.90	885.50	837.60
MW-26	12/12/13	45.60	885.50	839.90
MW-26	05/27/14	47.01	885.50	838.49
MW-26	10/31/14	48.22	885.50	837.28
MW-26	05/26/15	48.84	885.50	836.66
MW-26	11/16/15	49.92	885.50	835.58
MW-26	05/16/16	50.03	885.50	835.47
MW-26	10/13/16	50.31	885.50	835.19
MW-26	04/06/17	46.50	885.50	839.00
MW-26	05/07/18	48.38	885.50	837.12
MW-26	11/05/18	49.62	885.50	835.88
MW-26	05/22/19	45.28	885.50	840.22
MW-26	11/19/19	46.38	885.50	839.12
MW-26	05/18/20	45.61	885.50	839.89
MW-27	01/23/96	39.10	877.51	838.41
MW-27	02/12/96	38.80	877.51	838.71

APPENDIX B

SUMMARY OF WATER LEVEL DATA, 1996 - PRESENT

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Gauging Date	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Groundwater Elevation (ft, MSL)
MW-27	03/12/96	38.02	877.51	839.49
MW-27	04/16/96	38.09	877.51	839.42
MW-27	05/13/96	38.41	877.51	839.10
MW-27	06/18/96	37.90	877.51	839.61
MW-27	07/15/96	39.10	877.51	838.41
MW-27	08/12/96	38.80	877.51	838.71
MW-27	09/16/96	39.27	877.51	838.24
MW-27	10/25/96	39.76	877.51	837.75
MW-27	11/11/96	40.86	877.51	836.65
MW-27	02/10/97	36.91	877.51	840.60
MW-27	05/13/97	37.98	877.51	839.53
MW-27	08/11/97	38.81	877.51	838.70
MW-27	12/15/97	38.07	877.51	839.44
MW-27	02/12/98	35.44	877.51	842.07
MW-27	05/11/98	34.95	877.51	842.56
MW-27	08/11/98	36.00	877.51	841.51
MW-27	11/10/98	36.31	877.51	841.20
MW-27	04/16/99	34.88	877.51	842.63
MW-27	06/25/99	37.42	877.51	840.09
MW-27	12/27/99	38.62	877.51	838.89
MW-27	05/08/00	38.14	877.51	839.37
MW-27	09/24/00	38.42	877.51	839.09
MW-27	12/04/00	38.65	877.51	838.86
MW-27	03/12/01	34.90	877.51	842.61
MW-27	06/12/01	36.05	877.51	841.46
MW-27	09/27/01	35.39	877.51	842.12
MW-27	11/06/01	36.98	877.51	840.53
MW-27	03/15/02	38.08	877.51	839.43
MW-27	05/21/02	37.74	877.51	839.77
MW-27	09/24/02	37.21	877.51	840.30
MW-27	11/10/02	37.24	877.51	840.27
MW-27	03/28/03	36.80	877.51	840.71
MW-27	06/15/03	36.21	877.51	841.30
MW-27	09/26/03	39.91	877.51	837.60
MW-27	11/09/03	39.95	877.51	837.56
MW-27	03/22/04	38.84	877.51	838.67
MW-27	06/12/04	38.16	877.51	839.35
MW-27	08/17/04	39.62	877.51	837.89
MW-27	10/16/04	39.59	877.51	837.92
MW-27	04/15/05	37.88	877.51	839.63
MW-27	06/27/05	35.90	877.51	841.61
MW-27	08/16/05	39.61	877.51	837.90
MW-27	11/13/05	37.51	877.51	840.00
MW-27	03/14/06	37.06	877.51	840.45
MW-27	07/12/06	37.26	877.51	840.25
MW-27	11/04/06	38.20	877.51	839.31
MW-27	05/12/07	38.65	877.51	838.86
MW-27	11/03/07	39.08	877.51	838.43
MW-27	06/29/08	38.85	877.51	838.66
MW-27	11/14/08	39.11	877.51	838.40
MW-27	05/26/09	38.88	877.51	838.63
MW-27	11/30/09	39.79	877.51	837.72
MW-27	06/07/10	38.90	877.51	838.61
MW-27	12/16/10	39.64	877.51	837.87
MW-27	12/01/11	39.91	877.51	837.60
MW-27	05/29/12	40.12	877.51	837.39
MW-27	12/12/12	40.63	877.51	836.88
MW-27	06/17/13	39.04	877.51	838.47
MW-27	12/12/13	39.02	877.51	838.49
MW-27	05/27/14	39.56	877.51	837.95
MW-27	10/31/14	40.96	877.51	836.55
MW-27	05/26/15	41.52	877.51	835.99
MW-27	11/16/15	42.55	877.51	834.96
MW-27	05/16/16	42.68	877.51	834.83
MW-27	10/13/16	43.11	877.51	834.40
MW-27	04/06/17	39.49	877.51	838.02
MW-27	05/07/18	41.40	877.51	836.11
MW-27	11/05/18	42.24	877.51	835.27
MW-27	05/22/19	38.60	877.51	838.91

APPENDIX B

SUMMARY OF WATER LEVEL DATA, 1996 - PRESENT

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Gauging Date	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Groundwater Elevation (ft, MSL)
MW-27	11/19/19	39.22	877.51	838.29
MW-27	05/18/20	38.34	877.51	839.17
MW-32S	06/08/10	34.18	887.10	852.92
MW-32S	06/16/10	34.98	887.10	852.12
MW-32S	07/07/10	35.21	887.10	851.89
MW-32S	09/16/10	35.33	887.10	851.77
MW-32S	12/15/10	35.81	887.10	851.29
MW-32S	03/15/11	32.71	887.10	854.39
MW-32S	06/07/11	32.06	887.10	855.04
MW-32S	12/01/11	35.68	887.10	851.42
MW-32S	05/29/12	36.16	887.10	850.94
MW-32S	12/12/12	36.60	887.10	850.50
MW-32S	06/17/13	Water below top of Pump		
MW-32S	12/12/13	35.42	887.10	851.68
MW-32S	05/16/16	39.62	887.10	847.48
MW-32S	10/13/16	40.66	887.10	846.44
MW-32S	04/06/17	33.72	887.10	853.38
MW-32S	05/07/18	36.85	887.10	850.25
MW-32S	11/05/18	37.39	887.10	849.71
MW-32S	05/22/19	33.22	887.10	853.88
MW-32S	11/19/19	36.02	887.10	851.08
MW-32S	05/18/20	31.69	887.10	855.41
MW-35S	06/08/10	35.50	887.35	851.85
MW-35S	06/16/10	35.96	887.35	851.39
MW-35S	07/07/10	35.06	887.35	852.29
MW-35S	09/16/10	Water below top of Pump		
MW-35S	12/15/10	Water below top of Pump		
MW-35S	03/15/11	33.68	887.35	853.67
MW-35S	06/07/11	33.38	887.35	853.97
MW-35S		Water below top of pump 12/01/11 through 06/17/13		
MW-35S	12/12/13	36.42	887.35	850.93
MW-35S	11/16/15	40.71	887.35	846.64
MW-35S	05/16/16	41.04	887.35	846.31
MW-35S	10/13/16	41.80	887.35	845.55
MW-35S	04/06/17	34.79	887.35	852.56
MW-35S	05/07/18	38.76	887.35	848.59
MW-35S	11/05/18	39.90	887.35	847.45
MW-35S	05/22/19	34.71	887.35	852.64
MW-35S	11/19/19	37.06	887.35	850.29
MW-35S	05/18/20	33.01	887.35	854.34
MW-36	11/03/07	31.01	879.28	848.27
MW-36	06/29/08	29.46	879.28	849.82
MW-36	11/14/08	31.41	879.28	847.87
MW-36	05/26/09	31.03	879.28	848.25
MW-36	11/30/09	31.94	879.28	847.34
MW-36	06/07/10	28.80	879.28	850.48
MW-36	12/16/10	29.40	879.28	849.88
MW-36	06/07/11	27.48	879.28	851.80
MW-36	12/01/11	30.09	879.28	849.19
MW-36	05/29/12	36.00	879.28	843.28
MW-36	12/12/12	30.69	879.28	848.59
MW-36	06/17/13	29.61	879.28	849.67
MW-36	12/12/13	31.81	879.28	847.47
MW-36	05/27/14	31.85	879.28	847.43
MW-36	10/31/14	31.93	879.28	847.35
MW-36	05/26/15	31.67	879.28	847.61
MW-36	11/16/15	33.94	879.28	845.34
MW-36	05/16/16	33.98	879.28	845.30
MW-36	10/13/16	35.02	879.28	844.26
MW-36	04/06/17	27.27	879.28	852.01
MW-36	03/28/18	31.08	879.28	848.20
MW-36	05/07/18	31.88	879.28	847.40
MW-36	11/05/18	33.67	879.28	845.61
MW-36	05/22/19	27.99	879.28	851.29
MW-36	11/19/19	30.82	879.28	848.46
MW-36	03/09/20	29.64	879.28	849.64
MW-36	05/18/20	25.29	879.28	853.99
MW-37	12/28/06	49.98	889.34	839.36
MW-37	02/18/07	50.18	889.34	839.16
MW-37	05/12/07	50.14	889.34	839.20

APPENDIX B

SUMMARY OF WATER LEVEL DATA, 1996 - PRESENT

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Gauging Date	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Groundwater Elevation (ft, MSL)
MW-37	08/24/07	50.50	889.34	838.84
MW-37	11/03/07	51.64	889.34	837.70
MW-37	06/29/08	49.82	889.34	839.52
MW-37	11/14/08	50.82	889.34	838.52
MW-37	05/26/09	50.47	889.34	838.87
MW-37	11/30/09	51.26	889.34	838.08
MW-37	06/07/10	50.20	889.34	839.14
MW-37	12/16/10	51.12	889.34	838.22
MW-37	06/07/11	49.70	889.34	839.64
MW-37	12/01/11	51.51	889.34	837.83
MW-37	05/29/12	51.62	889.34	837.72
MW-37	12/12/12	52.38	889.34	836.96
MW-37	06/17/13	51.80	889.34	837.54
MW-37	12/12/13	48.58	889.34	840.76
MW-37	05/27/14	51.32	889.34	838.02
MW-37	10/31/14	52.89	889.34	836.45
MW-37	05/26/15	53.34	889.34	836.00
MW-37	11/16/15	54.65	889.34	834.69
MW-37	05/16/16	54.62	889.34	834.72
MW-37	10/13/16	55.30	889.34	834.04
MW-37	12/28/16	55.41	889.34	833.93
MW-37	01/24/17	54.57	889.34	834.77
MW-37	02/21/17	52.34	889.34	837.00
MW-37	04/06/17	51.22	889.34	838.12
MW-37	05/23/17	51.62	889.34	837.72
MW-37	08/17/17	52.44	889.34	836.90
MW-37	11/06/17	53.41	889.34	835.93
MW-37	02/28/18	54.36	889.34	834.98
MW-37	05/07/18	53.26	889.34	836.08
MW-37	08/07/18	53.94	889.34	835.40
MW-37	11/05/18	53.43	889.34	835.91
MW-37	05/22/19	50.10	889.34	839.24
MW-37	11/19/19	50.75	889.34	838.59
MW-37	05/18/20	49.89	889.34	839.45
MW-38	05/05/11	29.45	881.91	852.46
MW-38	09/22/11	31.82	881.91	850.09
MW-38	12/01/11	32.45	881.91	849.46
MW-38	05/29/12	32.89	881.91	849.02
MW-38	12/12/12	33.35	881.91	848.56
MW-38	06/17/13	33.96	881.91	847.95
MW-38	12/12/13	33.89	881.91	848.02
MW-38	05/27/14	33.46	881.91	848.45
MW-38	10/31/14	32.79	881.91	849.12
MW-38	05/26/15	33.11	881.91	848.80
MW-38	11/16/15	35.59	881.91	846.32
MW-38	05/16/16	37.62	881.91	844.29
MW-38	10/13/16	36.64	881.91	845.27
MW-38	12/28/16	36.32	881.91	845.59
MW-38	01/24/17	32.94	881.91	848.97
MW-38	02/21/17	28.32	881.91	853.59
MW-38	04/06/17	28.46	881.91	853.45
MW-38	05/22/17	28.68	881.91	853.23
MW-38	08/17/17	32.53	881.91	849.38
MW-38	11/06/17	34.07	881.91	847.84
MW-38	02/27/18	35.28	881.91	846.63
MW-38	05/07/18	33.49	881.91	848.42
MW-38	08/08/18	34.06	881.91	847.85
MW-38	11/05/18	34.06	881.91	847.85
MW-38	05/22/19	29.30	881.91	852.61
MW-38	11/19/19	32.16	881.91	849.75
MW-38	03/09/20	30.29	881.91	851.62
MW-38	05/18/20	26.40	881.91	855.51
MW-39	12/12/12	22.80	864.07	841.27
MW-39	03/27/13	25.22	864.07	838.85
MW-39	06/03/14	22.92	864.07	841.15
MW-39	09/03/14	23.67	864.07	840.40
MW-39	10/31/14	27.22	864.07	836.85
MW-39	02/11/15	27.33	864.07	836.74
MW-39	05/26/15	23.52	864.07	840.55
MW-39	08/05/15	27.54	864.07	836.53
MW-39	11/16/15	29.25	864.07	834.82

APPENDIX B

SUMMARY OF WATER LEVEL DATA, 1996 - PRESENT

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Gauging Date	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Groundwater Elevation (ft, MSL)
MW-39	02/23/16	26.23	864.07	837.84
MW-39	05/16/16	24.81	864.07	839.26
MW-39	08/09/16	25.38	864.07	838.69
MW-39	10/13/16	25.97	864.07	838.10
MW-39	02/22/17	18.33	864.07	845.74
MW-39	04/06/17	19.89	864.07	844.18
MW-39	05/19/17	21.05	864.07	843.02
MW-39	08/16/17	22.81	864.07	841.26
MW-39	11/06/17	23.96	864.07	840.11
MW-39	03/28/18	23.49	864.07	840.58
MW-39	05/07/18	23.29	864.07	840.78
MW-39	08/09/18	24.49	864.07	839.58
MW-39	11/05/18	25.26	864.07	838.81
MW-39	05/22/19	26.98	864.07	837.09
MW-39	11/19/19	28.12	864.07	835.95
MW-39	05/18/20	data not available due to obstruction		
MW-40	12/20/12	15.69	856.69	841.00
MW-40	03/27/13	15.42	856.69	841.27
MW-40	05/27/14	15.69	856.69	841.00
MW-40	09/03/14	16.36	856.69	840.33
MW-40	10/31/14	16.61	856.69	840.08
MW-40	02/11/15	15.58	856.69	841.11
MW-40	05/26/15	16.53	856.69	840.16
MW-40	08/05/15	17.18	856.69	839.51
MW-40	11/16/15	17.93	856.69	838.76
MW-40	02/23/16	17.25	856.69	839.44
MW-40	05/16/16	17.73	856.69	838.96
MW-40	08/09/16	18.34	856.69	838.35
MW-40	10/13/16	18.90	856.69	837.79
MW-40	02/22/17	12.39	856.69	844.30
MW-40	04/06/17	13.49	856.69	843.20
MW-40	05/19/17	14.44	856.69	842.25
MW-40	08/16/17	15.92	856.69	840.77
MW-40	11/06/17	16.95	856.69	839.74
MW-40	03/28/18	16.42	856.69	840.27
MW-40	05/07/18	16.41	856.69	840.28
MW-40	08/09/18	17.46	856.69	839.23
MW-40	11/05/18	18.17	856.69	838.52
MW-40	05/22/19	14.47	856.69	842.22
MW-40	11/19/19	15.68	856.69	841.01
MW-40	05/18/20	14.61	856.69	842.08
MW-41	12/20/12	22.35	863.54	841.19
MW-41	03/27/13	24.64	863.54	838.90
MW-41	05/27/14	24.71	863.54	838.83
MW-41	09/03/14	23.10	863.54	840.44
MW-41	10/31/14	24.91	863.54	838.63
MW-41	02/11/15	27.02	863.54	836.52
MW-41	05/26/15	23.22	863.54	840.32
MW-41	08/05/15	25.54	863.54	838.00
MW-41	11/16/15	28.20	863.54	835.34
MW-41	02/23/16	25.21	863.54	838.33
MW-41	05/16/16	24.41	863.54	839.13
MW-41	08/09/16	25.02	863.54	838.52
MW-41	10/13/16	25.57	863.54	837.97
MW-41	02/22/17	20.03	863.54	843.51
MW-41	04/06/17	19.66	863.54	843.88
MW-41	05/19/17	21.19	863.54	842.35
MW-41	08/16/17	22.66	863.54	840.88
MW-41	11/06/17	23.64	863.54	839.90
MW-41	03/28/18	24.57	863.54	838.97
MW-41	05/07/18	23.34	863.54	840.20
MW-41	08/09/18	24.22	863.54	839.32
MW-41	11/05/18	24.92	863.54	838.62
MW-41	05/22/19	24.99	863.54	838.55
MW-41	11/19/19	25.93	863.54	837.61
MW-41	05/18/20	24.95	863.54	838.59
MW-42	12/20/12	21.22	860.47	839.25
MW-42	03/27/13	20.08	860.47	840.39
MW-42	05/27/14	19.54	860.47	840.93

APPENDIX B

SUMMARY OF WATER LEVEL DATA, 1996 - PRESENT

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Gauging Date	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Groundwater Elevation (ft, MSL)
MW-42	09/03/14	20.14	860.47	840.33
MW-42	10/31/14	20.47	860.47	840.00
MW-42	02/11/15	20.08	860.47	840.39
MW-42	05/26/15	20.47	860.47	840.00
MW-42	08/05/15	NM	860.47	--
MW-42	11/16/15	21.89	860.47	838.58
MW-42	02/23/16	21.28	860.47	839.19
MW-42	05/16/16	21.68	860.47	838.79
MW-42	08/09/16	22.24	860.47	838.23
MW-42	10/13/16	22.75	860.47	837.72
MW-42	02/22/17	18.54	860.47	841.93
MW-42	04/06/17	18.15	860.47	842.32
MW-42	05/19/17	18.76	860.47	841.71
MW-42	08/16/17	19.98	860.47	840.49
MW-42	11/06/17	20.81	860.47	839.66
MW-42	03/28/18	20.60	860.47	839.87
MW-42	05/07/18	20.39	860.47	840.08
MW-42	08/09/18	21.30	860.47	839.17
MW-42	11/05/18	21.91	860.47	838.56
MW-42	05/22/19	19.05	860.47	841.42
MW-42	11/19/19	27.04	860.47	833.43
MW-42	01/18/00	18.42	860.47	842.05
MW-43	12/20/12	29.45	855.36	825.91
MW-43	03/27/13	30.55	855.36	824.81
MW-43	10/31/14	16.17	855.36	839.19
MW-43	08/05/15	15.31	855.36	840.05
MW-43	11/16/15	20.32	855.36	835.04
MW-43	02/23/16	16.92	855.36	838.44
MW-43	05/16/16	16.55	855.36	838.81
MW-43	08/09/16	17.38	855.36	837.98
MW-43	10/13/16	16.81	855.36	838.55
MW-43	02/22/17	14.71	855.36	840.65
MW-43	04/06/17	13.60	855.36	841.76
MW-43	05/19/17	21.49	855.36	833.87
MW-43	11/06/17	15.21	855.36	840.15
MW-43	03/28/18	15.74	855.36	839.62
MW-43	05/07/18	15.02	855.36	840.34
MW-43	05/22/19	12.66	855.36	842.70
MW-43	11/19/19	18.23	855.36	837.13
MW-43	05/18/20	17.56	855.36	837.80
MW-44	12/20/12	29.45	855.23	825.78
MW-44	03/27/13	30.55	855.23	824.68
MW-44	10/31/14	15.59	855.23	839.64
MW-44	08/05/15	16.28	855.23	838.95
MW-44	11/16/15	21.15	855.23	834.08
MW-44	02/23/16	16.96	855.23	838.27
MW-44	05/16/16	17.08	855.23	838.15
MW-44	08/09/16	17.55	855.23	837.68
MW-44	10/13/16	18.19	855.23	837.04
MW-44	02/22/17	15.20	855.23	840.03
MW-44	04/06/17	14.01	855.23	841.22
MW-44	11/06/17	16.43	855.23	838.80
MW-44	03/28/18	16.75	855.23	838.48
MW-44	05/07/18	17.23	855.23	838.00
MW-44	05/22/19	18.21	855.23	837.02
MW-44	11/19/19	18.88	855.23	836.35
MW-44	05/18/20	18.25	855.23	836.98
RW-01	05/26/09	19.80	861.56	841.76
RW-01	10/23/09	20.71	861.56	840.85
RW-01	11/30/09	20.75	861.56	840.81
RW-01	02/02/10	19.45	861.56	842.11
RW-01	06/07/10	19.62	861.56	841.94
RW-01	09/15/10	20.02	861.56	841.54
RW-01	12/16/10	18.98	861.56	842.58
RW-01	06/07/11	18.93	861.56	842.63
RW-01	12/01/11	19.91	861.56	841.65
RW-01	05/29/12	19.95	861.56	841.61
RW-01	12/12/12	20.61	861.56	840.95
RW-01	06/17/13	20.91	861.56	840.65
RW-01	12/12/13	21.38	861.56	840.18

APPENDIX B

SUMMARY OF WATER LEVEL DATA, 1996 - PRESENT

Former Canoga Park Facility

8433 Fallbrook Avenue, Canoga Park, CA

Well Identification	Gauging Date	Depth to Water (ft, TOC)	Top of Casing Elevation (ft, MSL)	Groundwater Elevation (ft, MSL)
RW-01	05/27/14	20.74	861.56	840.82
RW-01	09/03/14	21.27	861.56	840.29
RW-01	10/31/14	21.57	861.56	839.99
RW-01	02/11/15	20.68	861.56	840.88
RW-01	05/26/15	21.65	861.56	839.91
RW-01	08/05/15	22.23	861.56	839.33
RW-01	11/16/15	22.77	861.56	838.79
RW-01	02/23/16	22.58	861.56	838.98
RW-01	05/16/16	22.87	861.56	838.69
RW-01	08/09/16	23.41	861.56	838.15
RW-01	10/13/16	23.88	861.56	837.68
RW-01	02/22/17	20.13	861.56	841.43
RW-01	04/06/17	19.31	861.56	842.25
RW-01	05/19/17	19.80	861.56	841.76
RW-01	08/16/17	21.14	861.56	840.42
RW-01	11/06/17	21.86	861.56	839.70
RW-01	03/28/18	21.96	861.56	839.60
RW-01	05/07/18	21.64	861.56	839.92
RW-01	08/09/18	22.52	861.56	839.04
RW-01	11/05/18	23.11	861.56	838.45
RW-01	05/22/19	19.13	861.56	842.43
RW-01	11/19/19	20.53	861.56	841.03
RW-01	05/18/20	18.62	861.56	842.94
RW-11	05/26/09	24.51	869.17	844.66
RW-11	10/23/09	24.98	869.17	844.19
RW-11	11/30/09	23.96	869.17	845.21
RW-11	02/02/10	19.41	869.17	849.76
RW-11	12/15/10	20.41	869.17	848.76
RW-11	06/09/11	21.98	869.17	847.19
RW-11	11/29/11	24.31	869.17	844.86
RW-11	05/30/12	24.62	869.17	844.55
RW-11	09/18/12	25.62	869.17	843.55
RW-11	12/12/12	25.62	869.17	843.55
RW-11	06/17/13	25.90	869.17	843.27
RW-11	06/20/13	25.91	869.17	843.26
RW-11	09/18/13	26.61	869.17	842.56
RW-11	12/12/13	26.41	869.17	842.76
RW-11	05/27/14	25.72	869.17	843.45
RW-11	10/31/14	26.81	869.17	842.36
RW-11	11/04/14	26.90	869.17	842.27
RW-11	05/28/15	26.54	869.17	842.63
RW-11	11/16/15	28.52	869.17	840.65
RW-11	05/16/16	28.09	869.17	841.08
RW-11	10/13/16	29.27	869.17	839.90
RW-11	02/22/17	16.54	869.17	852.63
RW-11	04/06/17	21.87	869.17	847.30
RW-11	05/24/17	20.95	869.17	848.22
RW-11	08/16/17	25.59	869.17	843.58
RW-11	11/06/17	26.93	869.17	842.24
RW-11	03/28/18	26.53	869.17	842.64
RW-11	05/07/18	26.35	869.17	842.82
RW-11	08/09/18	27.49	869.17	841.68
RW-11	11/05/18	28.33	869.17	840.84
RW-11	05/22/19	22.93	869.17	846.24
RW-11	11/19/19	25.72	869.17	843.45
RW-11	03/09/20	24.49	869.17	844.68
RW-11	05/18/20	21.74	869.17	847.43

Notes:
1) ft = feet
2) TOC = top of well casing
3) MSL = Mean Sea Level, National Geodetic Vertical Datum of 1929 (NGVD29)
4) NM = not measured
5) -- = data not available.

Appendix C

Historical VOC Concentrations in Groundwater

Table C1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	1,1,1-TCA	TCE	TCFM	VC
	CAP Goals:	**1**	**50**	**5**	**60**	**60**	**50**	**1,000**	**50**	**150**	**--**
CM-2D	03/08/95	**290**	<10	<10	**22**	<10	<10	<10	<10	<10	--
CM-2D	05/12/98	<5.0	<5.0	<5.0	**69**	<5.0	<5.0	<5.0	**5.5**	<5.0	--
CM-2D	12/29/99	<5.0	<5.0	<5.0	**47**	<5.0	<5.0	<5.0	**17**	<5.0	--
CM-2D	12/05/00	<0.5	<0.5	<0.5	**42**	<0.5	**2.6**	<0.5	**13**	<0.5	--
CM-2D	11/06/01	<0.5	**0.55**	<0.5	**110**	<0.5	**5.7**	<0.5	**23**	<0.5	--
CM-2D	11/10/02	<0.5	<0.5	<0.5	**30**	**0.66**	**4.0**	<0.5	**15**	<0.5	--
CM-2D	11/10/03	<0.5	<0.5	<0.5	**64**	<0.5	**6.2**	<0.5	**23**	<0.5	--
CM-2D	10/24/04	<0.5	<0.5	<0.5	**19**	<0.5	**4.1**	<0.5	**9.5**	<0.5	--
CM-2D	11/13/05	<0.5	**0.61**	<0.5	**89**	<0.5	**3.3**	<0.5	**12**	<0.5	--
CM-2D	04/23/06	<0.5	<1.0	<0.5	**51**	<1.0	**2.6**	<1.0	**7.9**	<10	**0.90**
CM-2D	07/15/06	<0.5	<1.0	<0.5	**100**	<1.0	**3.6**	<1.0	**14**	<10	**5.4**
CM-2D	11/04/06	<0.5	<1.0	<0.5	**90**	<1.0	**2.5**	<1.0	**11**	<10	**4.7**
CM-2D	05/13/07	<0.5	<1.0	<0.5	**63**	<1.0	**2.8**	<1.0	**9.1**	<10	**2.8**
CM-2D	11/05/07	<0.5	<1.0	<0.5	**3.3**	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-2D	11/18/08	<0.5	<1.0	<0.5	**23**	<1.0	<1.0	<1.0	**3.4**	<10	**2.9**
CM-2D	12/01/09	**0.60**	<1.0	<0.5	**56**	**1.1**	**2.9**	<1.0	**12**	<10	**2.4**
CM-2D	12/28/10	<0.5	<1.0	<0.5	**59**	**2.0**	**2.3**	<1.0	**11**	<10	**8.8**
CM-2D	12/08/11	<0.5	<1.0	<0.5	**71**	**2.8**	**1.8**	<1.0	**6.9**	<10	**27**
CM-2D	12/14/12	<0.5	<1.0	<0.5	**1.8**	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-2D	12/13/13	<0.5	<1.0	<0.5	**39**	**2.8**	**3.1**	<1.0	**16**	<10	**8.0**
CM-2D	11/05/14	<0.5	<1.0	<0.5	**61**	**3.5**	**5.4**	<1.0	**22**	<10	**4.5**
CM-2D	11/18/15	<0.5	<1.0	<0.5	**40**	**2.9**	**4.6**	<1.0	**20**	<10	**1.7**
CM-2D	10/24/16	<0.5	<1.0	<0.5	**48**	**2.6**	**4.7**	<1.0	**19**	<10	**2.6**
CM-2D	11/13/17	<0.5	<1.0	<0.5	**41**	**2.9**	**4.7**	<1.0	**17**	<10	**2.3**
CM-2D	11/15/18	<1.0	<1.0	<0.5	**30**	**2.8**	**4.2**	<1.0	**16**	<10	**1.3**
CM-2D	05/29/19	<0.5	<0.5	<0.5	**33**	**2.9**	**2.7**	<0.5	**16**	<0.5	**2.2**
CM-2D	11/21/19	<0.5	<0.5	<0.5	**17**	**2.1**	**1.7**	<0.5	**7.5**	<0.5	**1.2**
CM-2D	03/09/20	<0.5	<0.5	<0.5	**35**	**3.0**	**5.4**	<0.5	**19**	<0.5	**1.8**
CM-2D	05/21/20	Not sampled due to presence of substrate									
CM-4D	03/08/95	<5.0	<5.0	<5.0	**1,400**	<5.0	**51**	<5.0	**130**	<5.0	--
CM-4D	11/12/98	<2.0	<2.0	<2.0	**220**	<2.0	**21**	<2.0	**120**	<5.0	--
CM-4D	12/05/00	<0.5	**8.1**	**5.1**	**1,300**	<0.5	**5.8**	<0.5	**30**	<0.5	--
CM-4D	11/06/01	<5.0	**6.7**	<5.0	**970**	<5.0	**8.0**	<5.0	**45**	<5.0	--
CM-4D	11/10/02	<0.5	**12**	**8.8**	**1,400**	<0.5	**6.4**	<0.5	**75**	<0.5	--
CM-4D	11/09/03	<0.5	**1.6**	**2.5**	**51**	<0.5	**1.9**	<0.5	**12**	<0.5	--
CM-4D	10/25/04	<0.5	<0.5	<0.5	**41**	<0.5	**3.5**	<0.5	**8.4**	<0.5	--
CM-4D	11/13/05	<0.5	**5.1**	**4.0**	**250**	<0.5	**9.5**	<0.5	**70**	<0.5	--
CM-4D	04/23/06	<0.5	**4.4**	**4.1**	**290**	<1.0	**7.7**	<1.0	**56**	<10	<0.5
CM-4D	07/15/06	<0.5	<1.0	**3.1**	**440**	<1.0	**8.3**	<1.0	**59**	<10	<2.5
CM-4D	11/04/06	<2.5	**5.1**	**3.9**	**440**	<5.0	**5.3**	<5.0	**53**	<50	<2.5
CM-4D	05/13/07	<2.5	<5.0	**3.3**	**420**	<5.0	**13**	<5.0	**69**	<50	<2.5
CM-4D	11/05/07	<2.5	**7.3**	**4.3**	**770**	<5.0	**11**	<5.0	**81**	<50	<2.5
CM-4D	11/18/08	<2.5	<5.0	<2.5	**450**	<5.0	**14**	<5.0	**70**	<50	<2.5
CM-4D	12/01/09	<2.5	<5.0	**3.3**	**440**	<5.0	**14**	<5.0	**71**	<50	<2.5
CM-4D	12/29/10	<1.0	**3.7**	**2.5**	**350**	**4.3**	**17**	<2.0	**86**	<20	<1.0
CM-4D	05/05/11	<1.0	**6.3**	**5.3**	**380**	<2.0	**6.7**	<2.0	**63**	<20	<1.0
CM-4D	06/16/11	<1.0	**3.2 J**	**2.7 J**	**170**	**27**	<2.0	<2.0	**2.1 J**	<20	<1.0
CM-4D	09/22/11	<10	<20	<10	**53**	**41**	<20	<20	<20	<200	<10
CM-4D	11/30/11	<0.5	<1.0	<0.5	**33**	**48**	<1.0	<1.0	<1.0	<10	**6.6**
CM-4D	03/27/12	<0.5	<1.0	**0.51**	<1.0	**1.9**	<1.0	<1.0	<1.0	<10	**3.6**
CM-4D	05/31/12	<0.5	<1.0	**1.0**	<1.0	**1.2**	<1.0	<1.0	<1.0	<10	**3.2**
CM-4D	12/11/12	<0.5	<1.0	**1.8**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	**1.3**

Table C1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	1,1,1-TCA	TCE	TCFM	VC
	CAP Goals:	**1**	**50**	**5**	**60**	**60**	**50**	**1,000**	**50**	**150**	**--**
CM-4D	06/19/13	<0.5	**1.4**	**2.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	**1.5**
CM-4D	12/10/13	<0.5	**4.3**	**4.7**	**9.7**	**3.0**	<1.0	<1.0	**1.6**	<10	**21**
CM-4D	05/28/14	<0.5	**4.6**	**5.1**	**92**	**16**	<1.0	<1.0	**3.6**	<10	**56**
CM-4D	11/04/14	<0.5	**5.8**	**7.1**	**71**	**23**	<1.0	<1.0	<1.0	<10	**80**
CM-4D	05/27/15	<0.5	**8.1**	**8.5**	**120**	**26**	<1.0	<1.0	<1.0	<10	**87**
CM-4D	11/18/15	<1.0	**7.5**	**7.3**	**150 J**	**20**	<2.0	<2.0	**5.5 J**	<20	**86 J**
CM-4D	05/18/16	<0.5	**4.1**	**4.2**	**4.0**	**3.4**	<1.0	<1.0	<1.0	<10	**12**
CM-4D	10/17/16	<0.5	**1.0**	**1.7**	**7.4**	**1.7**	<1.0	<1.0	<1.0	<10	**4.8**
CM-4D	12/28/16	<2.5	<5.0	<2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<2.5
CM-4D	01/24/17	<2.0	<4.0	<2.0	<4.0	<4.0	<4.0	<4.0	<4.0	<40	<2.0
CM-4D	02/21/17	<1.0	<2.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<20	<1.0
CM-4D	05/22/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-4D	08/17/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	**0.61**
CM-4D	11/07/17	<0.5	<1.0	**0.89**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	**1.0**
CM-4D	02/27/18	<0.5	<1.0	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	**1.0**
CM-4D	05/08/18	<0.5	**1.0 J**	**2.0**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	**2.0**
CM-4D	08/08/18	<0.5	**4.5**	**5.4**	**1.5**	**1.0 J**	<1.0	<1.0	<1.0	<10	**7.8**
CM-4D	11/06/18	<1.0	**6.2**	**8.5**	**4.2**	**1.4**	<1.0	<1.0	**2.0**	<10	**11**
CM-4D	05/23/19	<0.5	**2.9**	**3.5**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**2.2**
CM-4D	11/21/19	<0.5	**3.3**	**3.9**	**12**	**5.2**	<0.5	<0.5	<0.5	<0.5	**20**
CM-4D	05/21/20	<0.5	**3.1**	**2.8**	**7.2**	**3.2**	<0.5	<0.5	<0.5	<0.5	**17**
CM-7D	03/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-7D	06/06/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-7D	09/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-7D	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-7D	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
CM-7D	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
CM-7D	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
CM-7D	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
CM-7D	05/13/97	<2.0	--	--	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
CM-7D	12/17/97	<2.0	<2.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
CM-7D	05/12/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
CM-7D	11/12/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
CM-7D	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
CM-7D	12/28/99	<250	<250	<250	<250	<250	<250	<250	<250	<250	--
CM-7D	05/11/00	**0.73**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-7D	12/06/00	<0.5	<0.5	<0.5	**2.8**	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-7D	06/26/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-7D	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-7D	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-7D	11/10/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-7D	06/15/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-7D	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-7D	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-7D	10/23/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-7D	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-7D	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-7D	04/23/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-7D	07/14/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-7D	11/05/06	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-7D	02/18/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-7D	05/14/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5

Table C1

Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	1,1,1-TCA	TCE	TCFM	VC
	CAP Goals:	**1**	**50**	**5**	**60**	**60**	**50**	**1,000**	**50**	**150**	**--**
CM-7D	11/04/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-7D	07/01/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-7D	11/19/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-7D	05/29/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-7D	12/03/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-7D	06/10/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-7D	12/29/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-7D	06/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-7D	12/08/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-7D	06/06/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-7D	12/14/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-7D	06/18/13	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-7D	12/20/13	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-7D	06/02/14	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-7D	11/05/14	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-7D	05/27/15	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-7D	11/18/15	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-7D	05/18/16	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-7D	10/24/16	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-7D	04/07/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-7D	11/09/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-7D	05/11/18	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-7D	11/13/18	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-7D	05/23/19	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CM-7D	11/25/19	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CM-7D	05/19/20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CM-8D	03/08/95	<3.0	**14**	<3.0	**270**	<3.0	<3.0	**5.4**	**45**	**54**	--
CM-8D	06/05/95	<1.0	**6.9**	<1.0	**190**	<1.0	<1.0	**2.3**	**43**	**12**	--
CM-8D	09/19/95	<0.5	**4.7**	<0.5	**93**	<0.5	**0.86**	**1.7**	**41**	**8.4**	--
CM-8D	12/04/95	<0.5	**5.6**	<0.5	**110**	<0.5	**0.69**	**1.6**	**47**	**11**	--
CM-8D	02/13/96	<10	**20**	<10	**440**	<10	<10	<10	**64**	<25	--
CM-8D	05/14/96	<10	**20**	<10	**460**	<10	<10	<10	**63**	**49**	--
CM-8D	08/13/96	<2.0	**4.8**	<2.0	**110**	<2.0	<2.0	<2.0	**32**	**18**	--
CM-8D	11/11/96	<2.0	**5.3**	<2.0	**100**	<2.0	<2.0	<2.0	**31**	**17**	--
CM-8D	05/12/97	<2.0	**3.8**	<2.0	**58**	<2.0	<2.0	<2.0	**29**	**24**	--
CM-8D	12/16/97	<2.0	**2.7**	<2.0	**46**	<2.0	<2.0	<2.0	**23**	**30**	--
CM-8D	05/12/98	<5.0	<5.0	<5.0	**55**	<5.0	<5.0	<5.0	**18**	**19**	--
CM-8D	11/11/98	<2.0	**3.9**	<2.0	**63**	<2.0	<2.0	<2.0	**24**	**18**	--
CM-8D	06/25/99	<5.0	**10**	<5.0	**200**	<5.0	<5.0	<5.0	**87**	**69**	--
CM-8D	10/19/99	<5.0	<5.0	<5.0	**60**	<5.0	<5.0	<5.0	**24**	**17**	--
CM-8D	12/28/99	<5.0	<5.0	<5.0	**46**	<5.0	<5.0	<5.0	**23**	**14**	--
CM-8D	05/11/00	<0.5	**5.7**	<5.0	**110**	<0.5	<5.0	<5.0	**24**	**22**	--
CM-8D	12/07/00	<0.5	**8.1**	**0.79**	**140**	<0.5	**0.85**	**0.90**	**36**	**5.3**	--
CM-8D	06/26/01	<0.5	**15**	<0.5	**230**	**1.3**	**2.6**	**0.50**	**55**	**35**	--
CM-8D	11/08/01	<0.5	**18**	**1.7**	**340**	**1.9**	**2.2**	<0.5	**62**	**58**	--
CM-8D	05/22/02	<0.5	**10**	**1.6**	**230**	**1.6**	<0.5	<0.5	**27**	**11**	--
CM-8D	11/12/02	<2.5	**18**	<2.5	**510**	<2.5	<2.5	<2.5	**62**	**56**	--
CM-8D	06/16/03	<0.5	**10**	<0.5	**200**	<0.5	<0.5	<0.5	**31**	**14**	--
CM-8D	11/10/03	<1.0	**11**	<1.0	**220**	<1.0	<1.0	<1.0	**34**	**6.3**	--
CM-8D	06/12/04	<1.0	**6.7**	<1.0	**140**	**0.54**	<1.0	<1.0	**27**	**6.5**	--
CM-8D	10/21/04	<0.5	**9.4**	**0.95**	**200**	**1.1**	**2.7**	<0.5	**24**	**9.3**	--

Table C1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	1,1,1-TCA	TCE	TCFM	VC
	CAP Goals:	**1**	**50**	**5**	**60**	**60**	**50**	**1,000**	**50**	**150**	**--**
CM-8D	06/29/05	<0.5	**11**	**1.5**	**170**	**1.2**	<0.5	<0.5	**42**	**10**	--
CM-8D	11/14/05	<0.5	**9.9**	**1.3**	**130**	**0.98**	**0.91**	<0.5	**34**	**7.6**	--
CM-8D	07/14/06	<0.5	**9.6**	**1.1**	**130**	**1.6**	**1.1**	<1.0	**33**	<10	<0.5
CM-8D	11/08/06	<0.5	**6.9**	**1.1**	**120**	**1.1**	<1.0	<1.0	**26**	<10	<0.5
CM-8D	12/28/06	<0.5	**7.8**	**1.2**	**110**	**1.1**	<1.0	<1.0	**28**	<10	<0.5
CM-8D	02/18/07	<0.5	**3.1**	<0.5	**43**	<1.0	**0.32 J**	<1.0	**12**	**2.4 J**	<0.5
CM-8D	05/14/07	<0.5	**2.6**	<0.5	**45**	<1.0	<1.0	<1.0	**12**	<10	<0.5
CM-8D	11/04/07	<0.5	**2.1**	<0.5	**25**	<1.0	<1.0	<1.0	**8.1**	<10	<0.5
CM-8D	07/02/08	<0.5	**1.5**	<0.5	**20**	<1.0	<1.0	<1.0	**7.6**	<10	<0.5
CM-8D	11/20/08	<0.5	**2.1**	<0.5	**43**	<1.0	<1.0	<1.0	**8.0**	<10	<0.5
CM-8D	05/27/09	<0.5	**1.8**	<0.5	**27**	<1.0	<1.0	<1.0	**7.2**	<10	<0.5
CM-8D	12/08/09	<0.5	**2.9**	<0.5	**55**	**1.2**	<1.0	<1.0	**14**	<10	<0.5
CM-8D	06/10/10	<0.5	**1.3**	<0.5	**23**	<1.0	<1.0	<1.0	**5.7**	<10	<0.5
CM-8D	12/28/10	<0.5	**2.0**	<0.5	**31**	<1.0	<1.0	<1.0	**8.7**	<10	<0.5
CM-8D	06/14/11	<0.5	**2.9**	**0.52 J**	**2.5 J**	<1.0	<1.0	<1.0	**14**	<10	<0.5
CM-8D	12/13/11	<0.5	<1.0 J	<0.5	**23**	<1.0	<1.0	<1.0	**8.0**	<10	<0.5
CM-8D	06/06/12	<0.5	**1.2**	<0.5	**17**	<1.0	<1.0	<1.0	**7.4**	<10	<0.5
CM-8D	12/18/12	<0.5	**1.1**	<0.5	**14**	<1.0	<1.0	<1.0	**6.5**	<10	<0.5
CM-8D	06/18/13	<0.5	<1.0	<0.5	**12**	<1.0	<1.0	<1.0	**6.0**	<10	<0.5
CM-8D	12/16/13	<0.5	**4.8**	**1.3**	**47**	**3.5**	<1.0	<1.0	**14**	<10	<0.5
CM-8D	06/02/14	<0.5	**4.2**	**0.94**	**13**	<1.0	<1.0	<1.0	**10**	<10	<0.5
CM-8D	11/07/14	<0.5	**2.2**	<0.5	**8.2**	<1.0	<1.0	<1.0	**5.3**	<10	<0.5
CM-8D	06/01/15	<0.5	**1.2**	<0.5	<1.0	<1.0	<1.0	<1.0	**2.7**	<10	<0.5
CM-8D	11/19/15	<0.5	**1.2**	<0.5	<1.0	<1.0	<1.0	<1.0	**4.6**	<10	<0.5
CM-8D	05/23/16	<0.5	**1.0**	<0.5	**3.0**	<1.0	<1.0	<1.0	**4.6**	<10	<0.5
CM-8D	10/18/16	<0.5	**1.3**	<0.5	**13**	<1.0	<1.0	<1.0	**5.6**	<10	<0.5
CM-8D	12/28/16	<2.5	<5.0	<2.5	**10**	<5.0	<5.0	<5.0	<5.0	<50	<2.5
CM-8D	01/24/17	<0.5	<1.0	<0.5	**6.7**	**2.4**	<1.0	<1.0	<1.0	<10	<0.5
CM-8D	02/21/17	<0.5	<1.0	<0.5	**5.8**	**2.4**	<1.0	<1.0	<1.0	<10	<0.5
CM-8D	04/11/17	<0.5	<1.0	<0.5	**3.7**	**1.8**	<1.0	<1.0	<1.0	<10	**1.0**
CM-8D	05/23/17	<0.5	<1.0	<0.5	<1.0	**1.3**	<1.0	<1.0	<1.0	<10	**0.68**
CM-8D	08/17/17	<0.5	<1.0	<0.5	**2.0**	**1.0**	<1.0	<1.0	<1.0	<10	<0.5
CM-8D	11/07/17	<0.5	<1.0	<0.5	**2.6**	**1.1**	<1.0	<1.0	<1.0	<10	<0.5
CM-8D	02/28/18	<0.5	<1.0	<0.5	**3.7**	**1.1**	<1.0	<1.0	**1.9**	<10	<0.5
CM-8D	05/08/18	<0.5	<1.0	<0.5	**2.6**	<1.0	<1.0	<1.0	**1.4**	<10	**1.2**
CM-8D	08/22/18	<0.5	<1.0	<0.5	**2.3**	<1.0	<1.0	<1.0	**1.4**	<10	**0.74**
CM-8D	11/07/18	<1.0	**1.4**	**0.54**	**5.2**	<1.0	<1.0	<1.0	<1.0	<10	**4.5**
CM-8D	05/30/19	<0.5	**2.0**	**0.88**	**10**	**0.93**	<0.5	<0.5	**2.0**	<0.5	**7.6**
CM-8D	11/26/19	<0.5	**1.8**	**0.74**	**7.6**	**1.1**	<0.5	<0.5	**1.6**	<0.5	**3.0**
CM-8D	05/21/20	<0.5	**2.7**	**0.96**	**15**	**1.8**	<0.5	<0.5	**2.6**	<0.5	**7.8**
CM-16	03/08/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-16	05/13/97	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<2.0	<2.0	<5.0	--
CM-16	12/17/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
CM-16	05/12/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
CM-16	11/12/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
CM-16	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
CM-16	12/29/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
CM-16	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-16	12/05/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-16	06/26/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-16	11/06/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table C1

Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	1,1,1-TCA	TCE	TCFM	VC
	CAP Goals:	**1**	**50**	**5**	**60**	**60**	**50**	**1,000**	**50**	**150**	**--**
CM-16	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-16	11/10/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-16	06/15/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-16	11/09/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-16	06/13/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-16	10/25/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-16	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-16	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-16	07/14/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	--
CM-16	11/06/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	05/15/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	11/05/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	07/01/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	11/18/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	05/29/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	12/08/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	06/10/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	12/29/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	05/05/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	06/16/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	09/22/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	11/30/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	03/27/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	05/31/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	12/11/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	06/19/13	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	12/10/13	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	05/28/14	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	11/04/14	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	05/27/15	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	11/18/15	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	**1.0 J**	<10	<0.5
CM-16	05/18/16	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	10/17/16	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	12/28/16	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	01/24/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	02/21/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	04/10/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	05/22/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	08/17/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	11/07/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	02/27/18	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	05/08/18	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	08/08/18	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	11/06/18	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	**1.4**	<10	<0.5
CM-16	05/23/19	<0.5	<0.5	<0.5	<0.5	**0.52**	<0.5	<0.5	**0.56**	<0.5	<0.5
CM-16	11/25/19	<0.5	<0.5	<0.5	<0.5	**0.69**	<0.5	<0.5	**0.65**	<0.5	<0.5
CM-16	05/21/20	<0.5	<0.5	<0.5	<0.5	**0.73**	<0.5	<0.5	**0.65**	<0.5	<0.5
MW-15	03/08/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-15	06/06/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-15	09/19/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-15	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table C1

Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	1,1,1-TCA	TCE	TCFM	VC
	CAP Goals:	**1**	**50**	**5**	**60**	**60**	**50**	**1,000**	**50**	**150**	**--**
MW-15	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
MW-15	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
MW-15	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
MW-15	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
MW-15	05/13/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
MW-15	12/17/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
MW-15	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
MW-15	05/11/00	**0.73**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-15	12/06/00	<0.5	<0.5	<0.5	**4.3**	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-15	06/26/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-15	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-15	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-15	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-15	06/15/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-15	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-15	06/13/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-15	10/23/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-15	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-15	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-15	07/14/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-15	11/06/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-15	05/15/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-15	11/06/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-15	07/02/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-15	11/18/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-15	05/29/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-15	12/03/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-15	06/10/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-15	12/17/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-15	06/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-15	12/08/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-15	06/06/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-15	12/14/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-15	06/18/13	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-15	12/06/13	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-15	06/02/14	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-15	11/05/14	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-15	05/28/15	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-15	11/18/15	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-15	05/18/16	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-15	10/24/16	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-15	04/07/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-15	11/09/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-15	05/11/18	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-15	11/13/18	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-15	05/23/19	<0.5	<0.5	<0.5	**0.62**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-15	11/21/19	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-15	05/19/20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-16	03/08/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-16	06/06/95	<0.5	<0.5	<0.5	**1.5**	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-16	09/19/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-16	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table C1

Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	1,1,1-TCA	TCE	TCFM	VC
	CAP Goals:	**1**	**50**	**5**	**60**	**60**	**50**	**1,000**	**50**	**150**	**--**
MW-16	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
MW-16	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
MW-16	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
MW-16	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
MW-16	05/13/97	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
MW-16	12/17/97	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
MW-16	11/12/98	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
MW-16	11/06/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-16	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-16	11/10/02	<0.5	<0.5	<0.5	**5.9**	**6.9**	**8.3**	<0.5	**280**	<0.5	--
MW-16	06/15/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-16	11/09/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-16	06/13/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-16	10/25/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-16	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-16	11/13/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-16	07/14/06	<0.5	<1.0	<0.5	<0.5	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-16	05/15/07	<0.5	<1.0	<0.5	<0.5	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-16	11/05/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-16	07/01/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-16	11/18/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-16	05/27/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-16	12/01/09	**0.74**	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-16	06/10/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-16	12/29/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-16	06/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-16	12/08/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-16	06/06/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-16	12/20/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-16	06/18/13	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-16	12/06/13	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-16	06/02/14	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-16	11/05/14	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-16	05/29/15	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-16	11/18/15	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-16	05/20/16	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-16	10/25/16	<0.5	<1.0	<0.5	**1.4**	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-16	04/11/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-16	11/13/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-16	05/11/18	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-16	11/14/18	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-16	05/30/19	<0.5	<0.5	<0.5	**1.4**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.0**
MW-16	11/25/19	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-16	05/21/20	<0.5	<0.5	<0.5	**0.94**	<0.5	<0.5	<0.5	<0.5	<0.5	**0.88**
MW-19S	03/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-19S	06/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-19S	09/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-19S	12/03/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-19S	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
MW-19S	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
MW-19S	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
MW-19S	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--

Table C1

Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	1,1,1-TCA	TCE	TCFM	VC
	CAP Goals:	**1**	**50**	**5**	**60**	**60**	**50**	**1,000**	**50**	**150**	**--**
MW-19S	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
MW-19S	05/12/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
MW-19S	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
MW-19S	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
MW-19S	12/27/99	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	<5.0	--
MW-19S	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-19S	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-19S	06/26/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-19S	11/08/01	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	<5.0	--
MW-19S	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-19S	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-19S	06/16/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-19S	11/13/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-19S	06/13/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-19S	10/23/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-19S	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-19S	11/16/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-19S	07/15/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19S	11/08/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19S	05/15/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19S	11/07/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19S	07/01/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19S	11/20/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19S	05/26/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19S	12/04/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19S	06/10/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19S	12/23/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19S	06/15/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19S	12/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19S	06/06/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19S	12/17/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19S	06/18/13	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19S	12/13/13	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19S	06/02/14	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19S	11/06/14	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19S	06/01/15	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19S	11/20/15	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19S	05/20/16	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19S	10/27/16	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19S	04/11/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19S	11/15/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19S	05/15/18	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19S	11/16/18	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19S	05/28/19	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-19S	11/21/19	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-19S	05/20/20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-19D	03/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-19D	06/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-19D	09/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-19D	12/03/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-19D	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
MW-19D	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--

Table C1

Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	1,1,1-TCA	TCE	TCFM	VC
	CAP Goals:	**1**	**50**	**5**	**60**	**60**	**50**	**1,000**	**50**	**150**	**--**
MW-19D	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
MW-19D	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
MW-19D	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
MW-19D	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
MW-19D	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
MW-19D	12/27/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
MW-19D	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-19D	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-19D	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-19D	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-19D	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-19D	06/16/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-19D	11/13/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-19D	06/13/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-19D	10/23/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-19D	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-19D	11/16/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-19D	07/15/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19D	11/08/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19D	05/15/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19D	11/07/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19D	07/01/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19D	11/20/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19D	05/26/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19D	12/04/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19D	06/10/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19D	12/23/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19D	06/15/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19D	12/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19D	06/06/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19D	12/17/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19D	06/18/13	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19D	12/13/13	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19D	06/02/14	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19D	11/07/14	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19D	06/01/15	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19D	11/19/15	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19D	05/20/16	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19D	10/27/16	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19D	04/11/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19D	11/15/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19D	05/15/18	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19D	11/16/18	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19D	05/28/19	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-19D	11/21/19	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-19D	05/20/20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-20S	03/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-20S	06/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-20S	09/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-20S	12/03/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-20S	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
MW-20S	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--

Table C1

Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	1,1,1-TCA	TCE	TCFM	VC
	CAP Goals:	**1**	**50**	**5**	**60**	**60**	**50**	**1,000**	**50**	**150**	**--**
MW-20S	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
MW-20S	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
MW-20S	05/13/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
MW-20S	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
MW-20S	05/12/98	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0	<2.0	<2.0	<5.0	--
MW-20S	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
MW-20S	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
MW-20S	12/27/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
MW-20S	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-20S	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-20S	06/26/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-20S	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-20S	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-20S	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-20S	06/16/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-20S	11/13/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-20S	06/13/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-20S	10/23/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-20S	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-20S	11/16/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-20S	07/15/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-20S	11/08/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-20S	05/15/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-20S	11/07/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-20S	07/01/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-20S	11/20/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-20S	05/29/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-20S	06/10/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-20S	12/04/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-20S	12/23/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-20S	06/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-20S	12/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-20S	06/06/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-20S	12/17/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-20S	06/18/13	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-20S	12/13/13	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-20S	06/02/14	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-20S	11/07/14	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-20S	06/01/15	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-20S	11/19/15	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-20S	05/20/16	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-20S	10/27/16	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-20S	04/11/17	<2.5	<5.0	<2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<2.5
MW-20S	11/15/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-20S	05/15/18	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-20S	11/16/18	<5.0	<5.0	<2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<2.5
MW-20S	05/28/19	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
MW-20S	11/21/19	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-20S	05/20/20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
MW-37	12/28/06	<0.5	<1.0	<0.5	**110**	<1.0	<1.0	<1.0	**11**	<10	<0.5
MW-37	02/18/07	<0.5	**0.85 J**	<0.5	**66**	<1.0	<1.0	<1.0	**7.8**	**2.3 J**	<0.5
MW-37	05/14/07	<0.5	<1.0	<0.5	**82**	<1.0	<1.0	<1.0	**9.3**	<10	<0.5

Table C1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	1,1,1-TCA	TCE	TCFM	VC
	CAP Goals:	**1**	**50**	**5**	**60**	**60**	**50**	**1,000**	**50**	**150**	**--**
MW-37	11/04/07	<0.5	**1.0**	<0.5	**53**	<1.0	<1.0	<1.0	**7.0**	<10	<0.5
MW-37	07/02/08	<0.5	<1.0	<0.5	**59**	<1.0	<1.0	<1.0	**7.0**	<10	<0.5
MW-37	11/20/08	<0.5	**1.1**	<0.5	**94**	<1.0	<1.0	<1.0	**8.1**	<10	<0.5
MW-37	05/27/09	<0.5	**1.1**	<0.5	**26**	<1.0	<1.0	<1.0	**7.2**	<10	<0.5
MW-37	12/08/09	<0.5	<1.0	<0.5	**63**	<1.0	<1.0	<1.0	**8.4**	<10	<0.5
MW-37	06/10/10	<0.5	<1.0	<0.5	**35**	<1.0	<1.0	<1.0	**4.4**	<10	<0.5
MW-37	12/28/10	<0.5	<1.0	<0.5	**42**	<1.0	<1.0	<1.0	**6.8**	<10	<0.5
MW-37	06/14/11	<0.5	<1.0	<0.5	**29**	<1.0	<1.0	<1.0	**4.4**	<10	<0.5
MW-37	12/13/11	<0.5	<1.0	<0.5	**23**	<1.0	<1.0	<1.0	**3.4**	<10	<0.5
MW-37	06/06/12	<0.5	<1.0	<0.5	**52**	<1.0	<1.0	<1.0	**6.2**	<10	<0.5
MW-37	12/18/12	<0.5	<1.0	<0.5	**47**	<1.0	<1.0	<1.0	**5.4**	<10	<0.5
MW-37	06/18/13	<0.5	<1.0	<0.5	**16**	<1.0	<1.0	<1.0	**3.3**	<10	<0.5
MW-37	12/16/13	<0.5	<1.0	<0.5	**12**	<1.0	<1.0	<1.0	**1.4**	<10	<0.5
MW-37	06/02/14	<0.5	<1.0	<0.5	**25**	<1.0	<1.0	<1.0	**2.8**	<10	<0.5
MW-37	11/07/14	<0.5	<1.0	<0.5	**28**	<1.0	<1.0	<1.0	**3.3**	<10	<0.5
MW-37	06/01/15	<0.5	<1.0	<0.5	**44**	<1.0	<1.0	<1.0	**4.5**	<10	<0.5
MW-37	11/19/15	<0.5	<1.0	<0.5	**110**	<1.0	<1.0	<1.0	**6.8**	<10	<0.5
MW-37	05/20/16	<0.5	<1.0	<0.5	**60**	<1.0	<1.0	<1.0	**5.8**	<10	<0.5
MW-37	10/18/16	<0.5	<1.0	<0.5	**82**	<1.0	<1.0	<1.0	**5.9**	<10	<0.5
MW-37	12/28/16	<0.5	**1.1**	<0.5	**120**	<1.0	<1.0	<1.0	**6.1**	<10	<0.5
MW-37	01/24/17	<0.5	**1.2 J**	<0.5	**120**	<1.0	<1.0	<1.0	**8.2**	<10	<0.5
MW-37	02/21/17	<0.5	**1.0 J**	<0.5	**140**	<1.0	<1.0	<1.0	**6.8**	<10	<0.5
MW-37	05/23/17	<0.5	<1.0	<0.5	**82**	<1.0	<1.0	<1.0	**5.5**	<10	<0.5
MW-37	08/17/17	<0.5	**1.1**	<0.5	**130**	<1.0	<1.0	<1.0	**6.4**	<10	<0.5
MW-37	11/07/17	<0.5	**1.1 J**	<0.5	**110**	<1.0	<1.0	<1.0	**6.5**	<10	<0.5
MW-37	02/28/18	<0.5	<1.0	<0.5	**67**	<1.0	<1.0	<1.0	**6.1**	<10	<0.5
MW-37	05/08/18	<0.5	**1.1**	<0.5	**65**	<1.0	<1.0	<1.0	**5.7**	<10	<0.5
MW-37	08/22/18	<0.5	<1.0	<0.5	**72**	<1.0	<1.0	<1.0	**5.1**	<10	<0.5
MW-37	11/07/18	<1.0	<1.0	<0.5	**83**	<1.0	<1.0	<1.0	**6.0**	<10	<0.5
MW-37	05/30/19	<1.0	<1.0	<1.0	**71**	<1.0	<1.0	<1.0	**6.9**	**3.2**	<1.0
MW-37	11/26/19	<1.0	**1.0**	<1.0	**18**	<1.0	<1.0	<1.0	**6.7**	**2.5**	<1.0
MW-37	05/21/20	<1.0	<1.0	<1.0	**47**	<1.0	<1.0	<1.0	**5.4**	**1.8**	<1.0
MW-39	12/20/12	<0.5	<1.0	<0.5	**26**	<1.0	<1.0	<1.0	<1.0	<10	**16**
MW-39	03/27/13	<0.5	**1.0**	**0.69**	**46**	<1.0	<1.0	<1.0	<1.0	<10	**32**
MW-39	06/04/14	<0.5	<1.0	<0.5	**11**	<1.0	<1.0	<1.0	<1.0	<10	**30**
MW-39	09/03/14	<2.5	<5.0	<2.5	**38**	<5.0	<5.0	<5.0	<5.0	<50	**63**
MW-39	11/03/14	<0.5	**1.3**	**0.52**	**45**	<1.0	<1.0	<1.0	<1.0	<10	**44**
MW-39	02/11/15	<0.5	**1.2**	**0.52**	**48**	**1.2**	<1.0	<1.0	<1.0	<10	**44**
MW-39	06/02/15	<0.5	**1.0**	**0.56**	**41 J**	<1.0	<1.0	<1.0	<1.0	<10	**34**
MW-39	08/06/15	<0.5	**1.2**	<0.5	**46**	**1.2**	<1.0	<1.0	<1.0	<10	**53**
MW-39	11/17/15	<0.5	**1.5**	**0.54**	**46**	**1.1**	<1.0	<1.0	<1.0	<10	**44**
MW-39	02/23/16	<0.5	**1.3**	**0.91**	**44 J**	**1.2**	<1.0	<1.0	<1.0	<10	**36**
MW-39	05/19/16	<0.5	**1.8**	**0.53**	**97 J**	**1.4**	<1.0	<1.0	<1.0	<10	**96**
MW-39	08/09/16	<0.5	<1.0	<0.5	**44**	<1.0	<1.0	<1.0	<1.0	<10	**46**
MW-39	10/21/16	<0.5	<1.0	<0.5	**11**	<1.0	<1.0	<1.0	<1.0	<10	**9.4**
MW-39	02/22/17	<0.5	**1.6**	**0.54**	**85**	**1.2**	<1.0	<1.0	<1.0	<10	**63**
MW-39	05/24/17	<0.5	**1.6**	**0.66**	**70**	**1.2**	<1.0	<1.0	<1.0	<10	**45**
MW-39	08/16/17	<0.5	**1.7**	**0.66**	**70**	**1.4**	<1.0	<1.0	<1.0	<10	**59**
MW-39	11/08/17	<0.5	**1.2**	<0.5	**47**	**1.2 J**	<1.0	<1.0	<1.0	<10	**38**
MW-39	03/01/18	<0.5	**1.3**	**0.60 J**	**46 J**	<1.0	<1.0	<1.0	<1.0	<10	**40**
MW-39	05/09/18	<0.5	**1.3**	<0.5	**55**	<1.0	<1.0	<1.0	<1.0	<10	**46**

Table C1

Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	1,1,1-TCA	TCE	TCFM	VC
	CAP Goals:	**1**	**50**	**5**	**60**	**60**	**50**	**1,000**	**50**	**150**	**--**
MW-39	08/09/18	<0.5	**1.2**	<0.5	**53**	<1.0	<1.0	<1.0	<1.0	<10	**55**
MW-39	11/08/18	<1.0	**1.5**	**0.51 J**	**86**	<1.0	<1.0	<1.0	<1.0	<10	**62**
MW-39	05/24/19	<1.0	**1.5**	<1.0	**59**	**1.1**	<1.0	<1.0	<1.0	<1.0	**47**
MW-39	11/26/19	<1.0	**1.3**	<1.0	**34**	**1.0**	<1.0	<1.0	<1.0	<1.0	**41**
MW-39	05/20/20	<1.0	<1.0	<1.0	**7.6**	<1.0	<1.0	<1.0	<1.0	<1.0	**32**

Notes:

1) All concentrations in µg/L.

2) All analyses performed by EPA Method 8260, 8260B or 8021B.

3) "--" = not analyzed for parameter; CAP goals = Cleanup goals established in Corrective Action Plan

4) Only detectable concentrations of constituents of concern are shown. For wells with duplicate samples, the highest of the pair are shown here.

5) 1,1-DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; 1,1-DCE = 1,1-Dichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; PCE = Tetrachloroethene; 1,1,1-TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane; VC = Vinyl Chloride.

6) "J" - result qualified as estimated due to quality control issues.

Table C2

Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
CAP Goals:		**1**	**50**	**5**	**60**	**60**	**50**	**500**	**1,000**	**32**	**50**	**--**
RW-01	03/17/95	<2.0	<2.0	<2.0	**130**	<2.0	**5.1**	<2.0	**9.6**	<2.0	**6.7**	--
RW-01	06/13/95	<20	<20	<20	**730**	<2.0	<20	<20	**31**	<20	<20	--
RW-01	09/11/95	<10	<10	<10	**570**	<2.0	<10	<10	**32**	<10	<10	--
RW-01	11/17/95	<20	<20	<20	**590**	<2.0	<20	<20	**30**	<20	**13**	--
RW-01	02/13/96	<10	<10	<10	**650**	<10	<10	<10	**22**	<2.0	**11**	--
RW-01	05/14/96	<10	<10	<10	**580**	<10	<10	<10	**15**	<2.0	<10	--
RW-01	08/13/96	<2.0	**5.8**	<2.0	**310**	<2.0	<2.0	<2.0	**14**	<2.0	**12**	--
RW-01	11/12/96	<2.0	**2.9**	<2.0	**220**	<2.0	<2.0	<2.0	**6.2**	<2.0	**7.1**	--
RW-01	05/13/97	<10	<10	<10	**360**	<10	<10	<10	<10	<10	<10	--
RW-01	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-01	05/12/98	<5.0	**7.7**	<5.0	**910**	<5.0	<5.0	<5.0	**14**	<5.0	**16**	--
RW-01	09/09/98	<2.0	**4.8**	<2.0	**530**	<2.0	**2.0**	<2.0	**7.6**	<2.0	**15**	--
RW-01	11/10/98	<2.0	**2.7**	<2.0	**260**	<2.0	<2.0	<2.0	**2.3**	<2.0	**11**	--
RW-01	07/12/99	<5.0	<5.0	<5.0	**390**	<5.0	<5.0	<5.0	<5.0	<5.0	**11**	--
RW-01	10/19/99	<5.0	<5.0	<5.0	**360**	<5.0	<5.0	<5.0	<5.0	<5.0	**12**	--
RW-01	12/28/99	<5.0	<5.0	<5.0	**300**	<5.0	<5.0	<5.0	<5.0	<5.0	**11**	--
RW-01	05/11/00	<0.5	**2.7**	**0.77**	**400**	**0.66**	**1.0**	<0.5	**1.2**	<0.5	**7.0**	--
RW-01	12/05/00	<0.5	**2.6**	**0.64**	**250**	**0.68**	**0.91**	<0.5	**1.1**	<0.5	**8.4**	--
RW-01	06/12/01	<0.5	**3.1**	<0.5	**470**	<0.5	**0.91**	<0.5	**1.5**	<0.5	**11**	--
RW-01	11/06/01	<0.5	**2.9**	**0.57**	**270**	**0.71**	**0.90**	<0.5	**0.64**	<0.5	**9.3**	--
RW-01	05/22/02	<0.5	**1.9**	<0.5	**170**	<0.5	<0.5	<0.5	<0.5	<0.5	**5.6**	--
RW-01	11/13/02	<1.0	**1.6**	<1.0	**210**	<1.0	<1.0	<1.0	<1.0	<1.0	**6.1**	--
RW-01	06/16/03	<0.5	**1.5**	<0.5	**170**	<0.5	**0.75**	<0.5	<0.5	<0.5	**6.4**	--
RW-01	11/09/03	<0.5	**2.4**	<0.5	**210**	<0.5	<0.5	<0.5	<0.5	<0.5	**6.5**	--
RW-01	06/12/04	<0.5	**1.7**	<0.5	**200**	<0.5	<0.5	<0.5	<0.5	<0.5	**4.7**	--
RW-01	10/24/04	<0.5	**0.88**	<0.5	**62**	<0.5	<0.5	<0.5	<0.5	<0.5	**3.2**	--
RW-01	11/14/05	<0.5	**2.8**	**0.90**	**210**	<0.5	<0.5	<0.5	<0.5	<0.5	**7.8**	--
RW-01	04/23/06	<0.5	**2.7**	**0.95**	**240**	<1.0	<1.0	<1.0	<1.0	<1.0	**5.7**	<0.5
RW-01	07/16/06	<0.5	**2.6**	<0.5	**230**	<1.0	<1.0	<1.0	<1.0	<1.0	**6.2**	<1.0
RW-01	11/05/06	<1.0	**2.3**	<1.0	**240**	<2.0	<2.0	<2.0	<2.0	<2.0	**6.1**	<1.0
RW-01	02/18/07	<2.5	**3.1 J**	<2.5	**360**	<5.0	<5.0	<5.0	<5.0	<5.0	**5.7**	<2.5
RW-01	05/14/07	<0.5	**3.1**	**1.2**	**450**	<1.0	<1.0	<1.0	<1.0	<1.0	**6.3**	<1.0
RW-01	11/04/07	<2.5	<5.0	<2.5	**310**	<5.0	<5.0	<5.0	<5.0	<5.0	**5.4**	<2.5
RW-01	06/29/08	<2.5	<5.0	<2.5	**280**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.5
RW-01	11/16/08	<2.5	<5.0	**1.9 J**	**340**	<5.0	<5.0	<5.0	<5.0	<5.0	**3.0 J**	<2.5
RW-01	05/28/09	<2.5	<5.0	<2.5	**250**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.5
RW-01	10/23/09	<1.0	**2.7**	<1.0	**260**	<2.0	<2.0	<2.0	<2.0	<2.0	**4.8**	<1.0
RW-01	12/02/09	<1.0	**2.5**	<1.0	**280**	<2.0	<2.0	<2.0	<2.0	<2.0	**4.5**	<1.0
RW-01	02/02/10	<0.5	<1.0	<0.5	**75**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.5**	**1.0**
RW-01	06/09/10	<0.5	**1.6**	<0.5	**180**	<1.0	<1.0	<1.0	<1.0	<1.0	**3.8**	<0.5
RW-01	09/15/10	<0.5	**2.4**	**0.98**	**260**	<1.0	<1.0	<1.0	<1.0	<1.0	**3.7**	**7.9**
RW-01	12/20/10	<0.5	<1.0	<0.5	**1.7**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-01	06/09/11	<0.5	**1.9**	**0.62**	**180**	<1.0	<1.0	<1.0	<1.0	<1.0	**2.9**	**6.8**
RW-01	11/29/11	<0.5 J	**1.4**	**0.62**	**150**	<1.0	<1.0	<1.0 J	<1.0	<1.0	**2.9**	**5.3**
RW-01	05/30/12	<0.5	**1.3**	**0.51**	**160**	<1.0	<1.0	<1.0	<1.0	<1.0	**2.6**	**4.8**
RW-01	12/10/12	<0.5	**2.4**	**0.88**	**280**	<1.0	<1.0	<1.0	<1.0	<1.0	**4.4**	**1.2 J**
RW-01	06/19/13	<0.5	**2.2**	**0.79**	**330**	<1.0	<1.0	<1.0	<1.0	<1.0	**3.7**	<0.5
RW-01	12/11/13	<1.0	<2.0	<1.0	**210**	<2.0	<2.0	<2.0	<2.0	<2.0	**3.7**	**1.2**
RW-01	06/04/14	<0.5	**1.5**	<0.5	**150**	<1.0	<1.0	<1.0	<1.0	<1.0	**3.9**	**2.8**
RW-01	09/03/14	<0.5	**1.5**	**0.54**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-01	11/03/14	<0.5	**1.4**	<0.5	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-01	02/11/15	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-01	06/02/15	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-01	08/06/15	<1.0	<2.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0
RW-01	11/17/15	<0.5	**1.3**	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-01	02/23/16	<0.5	**1.0**	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5

Table C2

Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
CAP Goals:		**1**	**50**	**5**	**60**	**60**	**50**	**500**	**1,000**	**32**	**50**	**--**
RW-01	05/19/16	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-01	08/09/16	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-01	10/24/16	<0.5	**1.0**	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-01	02/22/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-01	04/10/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-01	05/24/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-01	08/16/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-01	11/08/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-01	03/01/18	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-01	05/09/18	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-01	08/09/18	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-01	11/08/18	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-01	05/24/19	<0.5	<0.5	<0.5	**0.59**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RW-01	11/22/19	<0.5	**0.55**	<0.5	**16**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RW-01	05/19/20	<0.5	**0.54**	<0.5	**12**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RW-02	03/17/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-02	06/13/95	<2.0	<2.0	<2.0	**31**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-02	09/11/95	<2.0	<2.0	<2.0	**21**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-02	11/17/95	<2.0	<2.0	<2.0	**7.4**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-02	02/13/96	<2.0	<2.0	<2.0	**55**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-02	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-02	08/13/96	<2.0	**5.1**	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**3.1**	--
RW-02	11/12/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-02	05/13/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-02	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-02	05/12/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
RW-02	09/09/98	<2.0	<2.0	<2.0	<5.0	**5.6**	<2.0	<2.0	<2.0	<2.0	**7.0**	--
RW-02	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-02	07/12/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
RW-02	10/19/99	<5.0	<5.0	<5.0	**11**	**8.3**	<5.0	<5.0	<5.0	<5.0	**7.0**	--
RW-02	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
RW-02	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-02	12/05/00	<0.5	<0.5	<0.5	**3.0**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-02	06/12/01	<0.5	<0.5	<0.5	**3.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-02	11/06/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-02	05/22/02	<0.5	<0.5	<0.5	**4.7**	**2.2**	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-02	11/13/02	<0.5	<0.5	<0.5	**4.2**	**0.98**	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-02	06/16/03	<0.5	<0.5	<0.5	**7.6**	**1.1**	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-02	11/09/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-02	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-02	10/24/04	<0.5	<0.5	<0.5	**1.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-02	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-02	11/05/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-02	05/12/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-02	11/03/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-02	06/29/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-02	11/16/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-02	05/28/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-02	10/26/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-02	12/02/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-02	02/02/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-02	06/09/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-02	09/15/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-02	12/20/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-02	06/09/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5

Table C2

Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
CAP Goals:		**1**	**50**	**5**	**60**	**60**	**50**	**500**	**1,000**	**32**	**50**	**--**
RW-02	11/29/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-02	05/30/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-02	12/10/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-02	06/19/13	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-02	12/11/13	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-02	05/30/14	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-02	11/03/14	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-02	05/27/15	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-02	11/17/15	Not sampled due to roots/obstruction in well										
RW-02	05/20/16	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-02	10/26/16	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-02	04/10/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-02	11/14/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-02	05/11/18	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-02	11/13/2018 - 5/20/20: Not sampled due to roots/obstruction in well											
RW-04	03/20/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-04	06/13/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-04	09/11/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-04	11/17/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-04	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-04	05/14/96	<2.0	<2.0	<2.0	**10**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-04	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-04	11/12/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-04	05/13/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-04	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-04	05/12/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
RW-04	09/09/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-04	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-04	07/12/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
RW-04	10/19/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
RW-04	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
RW-04	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-04	12/05/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-04	06/12/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-04	11/06/01	<0.5	<0.5	<0.5	<0.5	<0.5	**0.51**	<0.5	<0.5	<0.5	<0.5	--
RW-04	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-04	11/11/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-04	06/16/03	<0.5	<0.5	<0.5	**16**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.9**	--
RW-04	11/09/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-04	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-04	10/24/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-04	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-04	11/05/06	<0.5	**1.0**	<0.5	**83**	<1.0	<1.0	<1.0	<1.0	<1.0	**2.4**	<0.5
RW-04	05/12/07	<0.5	<1.0	<0.5	**39**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.8**	**2.6**
RW-04	11/03/07	<0.5	<1.0	<0.5	**17**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.3**
RW-04	06/29/08	<0.5	<1.0	<0.5	**3.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-04	11/16/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-04	05/28/09	<0.5	<1.0	<0.5	**1.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-04	12/09/09	<0.5	<1.0	<0.5	**1.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-04	06/11/10	<0.5	**1.8**	<0.5	**250**	<1.0	<1.0	<1.0	<1.0	<1.0	**4.3**	**0.84**
RW-04	07/07/10	<0.5	**1.6**	<0.5	**150**	<1.0	<1.0	<1.0	<1.0	<1.0	**4.0**	<0.5
RW-04	09/08/10	<0.5	**1.9**	<0.5	**170**	**1.1**	<1.0	<1.0	<1.0	<1.0	**3.6**	**12**
RW-04	12/21/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.7**
RW-04	06/15/11	<0.5	<1.0	<0.5	**18**	**1.2**	<1.0	<1.0	<1.0	<1.0	**2.9**	<0.5
RW-04	12/27/11	<0.5	<1.0	<0.5	**4.2**	**1.7**	<1.0	<1.0	<1.0	<1.0	<1.0	**50**

Table C2

Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
CAP Goals:		**1**	**50**	**5**	**60**	**60**	**50**	**500**	**1,000**	**32**	**50**	**--**
RW-04	06/07/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**18**
RW-04	12/06/12	<0.5	<1.0	<0.5	**3.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**34**
RW-04	06/17/13	<0.5	<1.0	<0.5	**3.5**	**3.1**	<1.0	<1.0	<1.0	<1.0	**1.3**	**6.7**
RW-04	12/18/13	<0.5	<1.0	<0.5	**4.3**	**1.5**	<1.0	<1.0	<1.0	<1.0	<1.0	**20 J**
RW-04	05/30/14	<0.5	**1.1**	<0.5	**3.7**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**55**
RW-04	11/06/14	<0.5	**1.5**	<0.5	**4.5**	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0	**76**
RW-04	05/27/15	<0.5	<1.0	<0.5	**4.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**18**
RW-04	11/19/15	<0.5	**1.2**	<0.5	**4.0 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**26 J**
RW-04	05/18/16	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**19**
RW-04	10/26/16	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-04	04/10/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**4.6**
RW-04	11/16/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**4.0**
RW-04	05/15/18	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**3.4**
RW-04	11/13/18	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.6**
RW-04	05/30/19	<0.5	**0.62**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**4.8**
RW-04	11/26/19	<0.5	**0.70**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**2.8**
RW-04	05/20/20	<0.5	**0.58**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**2.0**
RW-05	03/17/95	<2.0	<5.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-05	06/13/95	<2.0	<5.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-05	09/11/95	<2.0	<5.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-05	11/17/95	<2.0	<5.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-05	02/13/96	<2.0	<5.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-05	05/14/96	<2.0	<5.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-05	08/13/96	<2.0	<5.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-05	11/13/96	<2.0	<5.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-05	05/13/97	<2.0	<5.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-05	12/16/97	<2.0	<5.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-05	09/09/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-05	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-05	07/12/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
RW-05	10/19/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
RW-05	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
RW-05	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-05	12/05/00	<0.5	**3.3**	**0.89**	**280**	**0.69**	**0.59**	<0.5	<0.5	<0.5	**8.4**	--
RW-05	06/12/01	<0.5	**2.6**	<0.5	**250**	**1.2**	<0.5	<0.5	<0.5	<0.5	**6.8**	--
RW-05	11/06/01	<0.5	<0.5	<0.5	**0.57**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-05	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-05	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-05	06/16/03	**0.72**	<0.5	<0.5	**15**	<0.5	<0.5	<0.5	<0.5	<0.5	**3.2**	--
RW-05	11/09/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-05	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-05	10/24/04	<0.5	<0.5	<0.5	**2.7**	<0.5	<0.5	<0.5	<0.5	<0.5	**0.92**	--
RW-05	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-05	11/05/06	<0.5	**1.4**	<0.5	**82**	<1.0	<1.0	<1.0	<1.0	<1.0	**3.2**	<0.5
RW-05	05/12/07	<0.5	<1.0	<0.5	**11**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-05	11/03/07	<0.5	<1.0	<0.5	**1.9**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-05	06/29/08	<0.5	<1.0	<0.5	**1.9**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-05	11/16/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-05	05/28/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-05	12/09/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-05	06/11/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-05	12/21/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-05	06/16/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-05	12/27/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-05	06/07/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5

Table C2

Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
CAP Goals:		**1**	**50**	**5**	**60**	**60**	**50**	**500**	**1,000**	**32**	**50**	**--**
RW-05	12/06/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-05	06/17/13	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-05	12/18/13	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-05	05/30/14	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-05	11/06/14	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-05	05/27/15	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-05	11/19/15	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-05	05/19/16	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-05	10/26/16	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-05	04/11/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-05	11/14/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-05	05/11/18	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-05	11/13/18	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-05	05/28/19	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RW-05	11/25/19	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RW-05	05/19/20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RW-06	03/17/95	**810**	<20	<20	**1,100**	<2.0	<20	**130**	**48**	<20	**37**	--
RW-06	06/13/95	**250**	<20	<20	**1,400**	<2.0	<20	**37**	**67**	<20	**24**	--
RW-06	09/11/95	**80**	<20	<20	**730**	<2.0	<20	<20	**50**	<20	<20	--
RW-06	11/17/95	**59**	**7.9**	<5.0	**300**	<2.0	<5.0	**7.3**	**16**	<5.0	**10**	--
RW-06	02/13/96	**5.8**	**2.9**	<2.0	**230**	<2.0	<2.0	<2.0	**6.8**	<2.0	**7.0**	--
RW-06	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-06	08/13/96	**3.1**	**68**	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**2.0**	--
RW-06	11/12/96	**9.8**	<2.0	<2.0	**23**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-06	05/13/97	<2.0	<2.0	<2.0	**19**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-06	12/16/97	**2.1**	<2.0	<2.0	**23**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-06	05/12/98	<5.0	<5.0	<5.0	**12**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
RW-06	09/09/98	<2.0	**3.0**	<2.0	**170**	<2.0	<2.0	<2.0	**4.6**	<2.0	**7.5**	--
RW-06	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-06	07/12/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
RW-06	10/19/99	<5.0	<5.0	<5.0	**100**	<5.0	<5.0	<5.0	<5.0	<5.0	**7.4**	--
RW-06	12/28/99	<5.0	<5.0	<5.0	**19**	<5.0	<5.0	<5.0	<5.0	<5.0	**9.9**	--
RW-06	05/11/00	**0.63**	<0.5	<0.5	**36**	<0.5	**1.2**	<0.5	<0.5	<0.5	**4.4**	--
RW-06	12/05/00	**4.4**	<0.5	<0.5	**19**	**0.76**	**1.4**	<0.5	<0.5	<0.5	**4.4**	--
RW-06	06/12/01	**2.5**	**2.1**	<0.5	**130**	<0.5	**0.95**	<0.5	<0.5	<0.5	**4.6**	--
RW-06	11/06/01	**0.55**	**1.6**	**0.82**	**170**	**0.59**	**3.1**	<0.5	**0.93**	<0.5	**13**	--
RW-06	05/22/02	**2.9**	<0.5	<0.5	**21**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.1**	--
RW-06	11/13/02	**1.4**	<0.5	<0.5	**34**	**0.73**	**0.94**	<0.5	<0.5	<0.5	**5.3**	--
RW-06	06/16/03	**0.61**	<0.5	<0.5	**20**	<0.5	**1.2**	<0.5	<0.5	<0.5	**4.9**	--
RW-06	11/11/03	<0.5	<0.5	<0.5	**16**	<0.5	**0.87**	<0.5	<0.5	<0.5	**3.3**	--
RW-06	03/22/04	**0.86**	<0.5	<0.5	**25**	**1.2**	**1.0**	<0.5	<0.5	<0.5	**5.5**	--
RW-06	06/09/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-06	10/24/04	<0.5	<0.5	<0.5	**11**	**0.52**	**2.3**	<0.5	<0.5	<0.5	**2.7**	--
RW-06	11/14/05	<0.5	<0.5	<0.5	**0.70**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-06	11/05/06	<0.5	<1.0	<0.5	**18**	<1.0	<1.0	<1.0	<1.0	<1.0	**2.1**	**1.4**
RW-06	05/12/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-06	11/03/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-06	06/29/08	<0.5	<1.0	<0.5	**4.8**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-06	11/16/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-06	05/28/09	<0.5	<1.0	<0.5	**15**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.6**
RW-06	12/09/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-06	06/11/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-06	12/22/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-06	06/17/11	<0.5	<1.0	<0.5	**1.9**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-06	12/27/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5

Table C2

Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
CAP Goals:		**1**	**50**	**5**	**60**	**60**	**50**	**500**	**1,000**	**32**	**50**	**--**
RW-06	06/07/12	<0.5	<1.0	<0.5	**25**	**2.3**	<1.0	<1.0	<1.0	<1.0	**1.7**	**7.6**
RW-06	12/06/12	<0.5	<1.0	<0.5	**14**	**2.0**	<1.0	<1.0	<1.0	<1.0	**1.5**	**2.2**
RW-06	06/17/13	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-06	12/18/13	<0.5	<1.0	<0.5	**35**	**14**	<1.0	<1.0	<1.0	<1.0	**1.2**	**16**
RW-06	05/30/14	<0.5	<1.0	<0.5	**30**	**12**	<1.0	<1.0	<1.0	<1.0	<1.0	**16**
RW-06	11/06/14	<0.5	<1.0	<0.5	**37**	**7.9**	<1.0	<1.0	<1.0	<1.0	**7.1**	**9.3**
RW-06	05/28/15	<0.5	<1.0	<0.5	**36**	**6.0**	**1.0**	<1.0	<1.0	<1.0	**6.7**	**5.4**
RW-06	11/19/15	<0.5	<1.0	<0.5	**8.1 J**	**16 J**	<1.0	<1.0	<1.0	<1.0	<1.0	**39 J**
RW-06	05/20/16	<0.5	<1.0	<0.5	**14**	**6.9**	<1.0	<1.0	<1.0	<1.0	**2.1**	**7.2**
RW-06	10/25/16	<0.5	<1.0	<0.5	**44**	**9.0**	**1.3**	<1.0	<1.0	<1.0	**7.5**	**8.3**
RW-06	04/10/17	<0.5	<1.0	<0.5	**14**	**2.5**	<1.0	<1.0	<1.0	<1.0	**2.6**	**1.6**
RW-06	11/14/17	<0.5	<1.0	<0.5	**32**	**6.4**	<1.0	<1.0	<1.0	<1.0	**4.8**	**5.9**
RW-06	05/15/18	<0.5	<1.0	<0.5	**26**	**3.5**	**1.3**	<1.0	<1.0	<1.0	**7.7**	**2.6**
RW-06	11/15/18	<1.0	<1.0	<0.5	**27**	**5.3**	**1.0**	<1.0	<1.0	<1.0	**6.3**	**4.0**
RW-06	05/29/19	<0.5	<0.5	<0.5	**15**	**4.5**	<0.5	<0.5	<0.5	<0.5	**3.7**	**2.5**
RW-06	11/21/19	<0.5	<0.5	<0.5	**14**	**6.2**	**0.5**	<0.5	<0.5	<0.5	**3.3**	**2.6**
RW-06	05/19/20	**0.75**	<0.5	<0.5	**5.6**	**1.0**	<0.5	<0.5	<0.5	<0.5	**0.52**	<0.5
RW-07	03/17/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-07	06/13/95	<2.0	<2.0	<2.0	**29**	<2.0	<2.0	<2.0	<2.0	<2.0	**4.0**	--
RW-07	09/11/95	<2.0	<2.0	<2.0	**6.6**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-07	11/17/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-07	02/13/96	<2.0	<2.0	<2.0	**15**	<2.0	<2.0	<2.0	<2.0	<2.0	**2.3**	--
RW-07	05/14/96	<2.0	<2.0	<2.0	**8.1**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-07	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-07	11/12/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-07	05/13/97	<2.0	<2.0	<2.0	**9.1**	<2.0	<2.0	<2.0	<2.0	<2.0	**2.5**	--
RW-07	05/12/98	<5.0	<5.0	<5.0	**6.5**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
RW-07	09/09/98	<2.0	<2.0	<2.0	**8.2**	<2.0	<2.0	<2.0	<2.0	<2.0	**2.6**	--
RW-07	11/10/98	<2.0	<2.0	<2.0	**23**	<2.0	<2.0	<2.0	<2.0	<2.0	**5.5**	--
RW-07	07/12/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
RW-07	10/19/99	<5.0	<5.0	<5.0	**33**	<5.0	<5.0	<5.0	<5.0	<5.0	**7.8**	--
RW-07	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
RW-07	05/11/00	<0.5	<0.5	<0.5	**0.63**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-07	12/05/00	<0.5	<0.5	<0.5	**2.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-07	06/12/01	<0.5	<0.5	<0.5	**5.9**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.0**	--
RW-07	11/06/01	<0.5	**1.5**	<0.5	**20**	**0.51**	<0.5	<0.5	<0.5	<0.5	**4.5**	--
RW-07	05/22/02	<0.5	**1.6**	<0.5	**45**	<0.5	<0.5	<0.5	<0.5	<0.5	**6.0**	--
RW-07	11/11/02	<0.5	<0.5	<0.5	**11**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.2**	--
RW-07	06/16/03	<0.5	**1.4**	<0.5	**36**	<0.5	<0.5	<0.5	<0.5	<0.5	**5.6**	--
RW-07	11/09/03	<0.5	<0.5	<0.5	**3.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-07	06/12/04	<0.5	<0.5	<0.5	**1.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-07	10/24/04	<0.5	<0.5	<0.5	**6.3**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.2**	--
RW-07	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-07	05/12/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-07	11/03/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-07	06/29/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-07	11/16/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-07	05/28/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-07	12/09/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-07	06/11/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-07	12/21/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-07	06/15/11	<0.5	<1.0	<0.5	**27**	<1.0	**1.2**	<1.0	<1.0	<1.0	**5.7**	<0.5
RW-07	12/27/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-07	06/07/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-07	12/06/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5

Table C2

Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
CAP Goals:		**1**	**50**	**5**	**60**	**60**	**50**	**500**	**1,000**	**32**	**50**	**--**
RW-07	06/17/13	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-07	12/18/13	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-07	05/30/14	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-07	11/06/14	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-07	05/28/15	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-07	11/25/15	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-07	05/20/16	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-07	10/26/16	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-07	04/07/17	<0.5	<1.0	<0.5	**15**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.58**
RW-07	11/14/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-07	05/11/18	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-07	11/13/18	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-07	05/30/19	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RW-07	11/26/19	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RW-07	05/19/20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RW-08	03/17/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-08	06/13/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-08	11/17/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-08	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-08	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-08	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-08	11/12/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-08	05/13/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-08	12/16/97	<2.0	<2.0	<2.0	**5.0**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-08	05/12/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
RW-08	09/09/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-08	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-08	07/12/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
RW-08	10/19/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
RW-08	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
RW-08	05/11/00	<0.5	<0.5	<0.5	**0.90**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-08	12/05/00	<0.5	<0.5	<0.5	**1.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-08	06/12/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-08	11/06/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-08	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-08	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-08	06/16/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-08	11/09/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-08	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-08	10/24/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-08	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-08	05/12/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-08	11/03/07	<0.5	<1.0	<0.5	**15**	**7.5**	**6.1**	<1.0	<1.0	<1.0	**31**	<0.5
RW-08	06/29/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-08	11/16/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-08	05/28/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-08	12/09/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-08	06/11/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-08	12/23/10	<0.5	<1.0	<0.5	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.7**
RW-08	06/17/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-08	12/27/11	<0.5	<1.0	<0.5	**1.8**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-08	06/07/12	<0.5	<1.0	<0.5	**4.0**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.71**
RW-08	12/06/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-08	06/17/13	<0.5	<1.0	<0.5	**1.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.80**
RW-08	12/18/13	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5

Table C2

Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
CAP Goals:		**1**	**50**	**5**	**60**	**60**	**50**	**500**	**1,000**	**32**	**50**	**--**
RW-08	05/30/14	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-08	11/07/14	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-08	05/29/15	<0.5	<1.0	<0.5	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-08	11/19/15	<0.5	<1.0	<0.5	**1.3 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-08	05/18/16	<0.5	<1.0	<0.5	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-08	10/26/16	<0.5	<1.0	<0.5	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-08	04/10/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-08	11/14/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-08	05/11/18	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-08	11/14/18	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-08	05/28/19	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RW-08	11/25/19	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RW-08	05/19/20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RW-09	03/17/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-09	06/13/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	--
RW-09	09/11/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-09	11/17/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-09	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-09	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-09	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-09	11/12/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-09	05/13/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-09	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-09	05/12/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
RW-09	09/09/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-09	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-09	07/12/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
RW-09	10/19/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
RW-09	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
RW-09	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-09	12/05/00	<0.5	<0.5	<0.5	**2.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-09	06/12/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-09	11/06/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-09	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-09	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-09	06/16/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-09	11/09/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-09	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-09	10/24/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-09	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-09	05/12/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-09	11/03/07	<0.5	<1.0	<0.5	**11**	**6.5**	**4.5**	<1.0	<1.0	<1.0	**21**	<0.5
RW-09	06/29/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-09	11/16/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-09	05/28/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-09	12/09/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-09	06/11/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-09	12/23/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-09	06/17/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-09	12/28/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-09	06/07/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-09	12/06/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-09	06/17/13	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-09	12/18/13	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-09	05/30/14	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5

Table C2

Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
CAP Goals:		**1**	**50**	**5**	**60**	**60**	**50**	**500**	**1,000**	**32**	**50**	**--**
RW-09	11/05/14	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-09	05/29/15	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-09	11/19/15	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-09	05/18/16	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-09	10/26/16	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-09	04/10/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-09	11/14/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-09	05/11/18	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-09	11/14/18	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-09	05/28/19	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RW-09	11/22/19	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RW-09	05/20/20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RW-10	03/17/95	<20	<20	<20	**1,600**	<2.0	<20	<20	<20	**200**	<20	--
RW-10	06/13/95	<20	<20	<20	**1,900**	<2.0	<20	<20	**180**	<20	<20	--
RW-10	09/11/95	<20	<20	<20	**990**	<2.0	<20	<20	**100**	<20	<20	--
RW-10	11/17/95	<20	<20	<20	**720**	<2.0	<20	<20	**70**	<20	<20	--
RW-10	02/13/96	<10	<10	<10	**540**	<10	<10	<10	**35**	<2.0	<10	--
RW-10	05/14/96	<10	<10	<10	**350**	<10	<10	<10	**25**	<2.0	<10	--
RW-10	08/13/96	<2.0	**7.1**	**2.0**	**680**	<2.0	<2.0	<2.0	**37**	<2.0	**12**	--
RW-10	11/12/96	<10	<10	<10	**590**	<2.0	<10	<10	**40**	<10	**11**	--
RW-10	05/13/97	<10	<10	<10	**710**	<10	<10	<10	**35**	<10	<10	--
RW-10	12/16/97	<10	<10	<10	**450**	<10	<10	<10	**16**	<10	<10	--
RW-10	05/12/98	<5.0	<5.0	<5.0	**350**	<5.0	<5.0	<5.0	**12**	<5.0	**6.5**	--
RW-10	09/09/98	<2.0	**6.1**	**2.2**	**650**	<2.0	<2.0	<2.0	**20**	<2.0	**13**	--
RW-10	11/10/98	<2.0	<2.0	<2.0	**440**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-10	07/12/99	<5.0	<5.0	<5.0	**700**	<5.0	<5.0	<5.0	<5.0	<5.0	**9.1**	--
RW-10	10/19/99	<5.0	**7.2**	<5.0	**780**	<5.0	<5.0	<5.0	**17**	<5.0	**13**	--
RW-10	12/28/99	<5.0	**6.3**	<5.0	**440**	<5.0	<5.0	<5.0	<5.0	<5.0	**110**	--
RW-10	05/11/00	<0.5	**5.3**	**2.3**	**670**	<0.5	**1.2**	<0.5	**8.5**	<0.5	**10**	--
RW-10	12/05/00	<0.5	**4.6**	**1.7**	**450**	<0.5	**1.3**	<0.5	**5.5**	**0.55**	**14**	--
RW-10	06/12/01	<0.5	**5.6**	**1.2**	**610**	<0.5	**0.78**	<0.5	**4.1**	<0.5	**13**	--
RW-10	05/22/02	<0.5	**1.3**	**1.0**	**100**	<0.5	<0.5	<0.5	**0.60**	<0.5	**3.9**	--
RW-10	11/13/02	<0.5	**3.6**	**1.3**	**310**	<0.5	<0.5	<0.5	**2.7**	<0.5	**8.4**	--
RW-10	06/16/03	<0.5	**1.6**	<0.5	**160**	<0.5	<0.5	<0.5	**1.3**	<0.5	**4.7**	--
RW-10	11/09/03	<0.5	**2.8**	<0.5	**330**	<0.5	<0.5	<0.5	**2.7**	<0.5	**4.2**	--
RW-10	06/12/04	<0.5	**1.7**	<0.5	**240**	<0.5	<0.5	<0.5	**1.4**	<0.5	**4.6**	--
RW-10	10/24/04	<0.5	<0.5	<0.5	**26**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.2**	--
RW-10	11/14/05	<0.5	**2.0**	**0.88**	**190**	<0.5	<0.5	<0.5	**0.91**	<0.5	**3.1**	--
RW-10	04/23/06	<0.5	**2.7**	**0.95**	**96**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.4**	<0.5
RW-10	07/16/06	<0.5	<1.0	**0.63**	**91**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.2**	**2.1**
RW-10	11/05/06	<0.5	<1.0	<0.5	**5.8**	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0	**5.1**
RW-10	02/18/07	<0.5	**0.60 J**	<0.5	**3.4**	<1.0	<1.0	0.44 J	<1.0	<1.0	<1.0	**58**
RW-10	05/14/07	<0.5	<1.0	<0.5	**3.4**	<1.0	<1.0	**5.0**	<1.0	<1.0	<1.0	**42**
RW-10	11/04/07	<0.5	<1.0	<0.5	**2.8**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**45**
RW-10	06/29/08	<0.5	**1.9**	**0.84**	**72**	**2.2**	<1.0	<1.0	<1.0	<1.0	<1.0	**99**
RW-10	11/16/08	<0.5	**2.1**	**0.80**	**88**	**1.4**	<1.0	<1.0	<1.0	<1.0	**1.1**	**120**
RW-10	05/28/09	<0.5	**2.8**	<0.5	**76**	**1.5**	<1.0	<1.0	<1.0	<1.0	**1.3**	**85**
RW-10	10/23/09	<0.5	**1.6**	**0.50**	**23**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**80**
RW-10	12/02/09	<0.5	<1.0	<0.5	**18**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**7.6**
RW-10	02/02/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	**5.0**	<1.0	<1.0	<1.0	**6.7**
RW-10	06/09/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	**5.2**	<1.0	<1.0	<1.0	**10**
RW-10	09/15/10	<0.5	<1.0	<0.5	**1.0**	<1.0	<1.0	**3.8**	<1.0	<1.0	<1.0	**13**
RW-10	12/20/10	<0.5	<1.0	<0.5	**1.0**	<1.0	<1.0	**1.5**	<1.0	<1.0	<1.0	**25**
RW-10	06/09/11	<0.5	**1.7**	**0.63**	**2.9**	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0	**120 J**
RW-10	11/29/11	<0.5	**1.0**	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**98**

Table C2

Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
CAP Goals:		**1**	**50**	**5**	**60**	**60**	**50**	**500**	**1,000**	**32**	**50**	**--**
RW-10	05/30/12	<0.5	**1.5**	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**100**
RW-10	12/10/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**63**
RW-10	06/19/13	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**86**
RW-10	12/11/13	<1.0	<2.0	<1.0	**17**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**77**
RW-10	05/30/14	<0.5	**1.5**	<0.5	**22**	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0	**76**
RW-10	11/05/14	<0.5	**1.2**	<0.5	**7.5**	**1.1**	<1.0	<1.0	<1.0	<1.0	<1.0	**74**
RW-10	05/28/15	<0.5	**1.1**	<0.5	**4.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**66**
RW-10	11/19/15	<0.5	<1.0	<0.5	**9.0 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**37 J**
RW-10	05/17/16	<0.5	**1.6**	<0.5	**62**	**1.2**	<1.0	<1.0	<1.0	<1.0	**1.1**	**58**
RW-10	10/24/16	<0.5	**2.3**	**0.54**	**100**	**1.6**	<1.0	<1.0	<1.0	<1.0	**1.6**	**130 J**
RW-10	02/22/17	<0.5	<1.0	<0.5	**7.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**3.8**
RW-10	04/07/17	<1.0	<2.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0
RW-10	05/24/17	<0.5	**1.2**	<0.5	**3.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**3.6**
RW-10	08/16/17	<0.5	**2.2**	**0.58**	**24**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**26**
RW-10	11/08/17	<0.5	**1.3**	<0.5	**5.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-10	03/01/18	<0.5	<1.0	<0.5	**5.6**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**16**
RW-10	05/09/18	<0.5	**1.0**	<0.5	**11**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**21**
RW-10	08/09/18	<0.5	**1.2**	<0.5	**11**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**21**
RW-10	11/08/18	<1.0	**1.3**	<0.5	**13**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**21**
RW-10	05/24/19	<0.5	**1.9**	**0.57**	**19**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**7.0**
RW-10	11/22/19	<0.5	**1.9**	**0.59**	**42**	**0.62**	<0.5	<0.5	<0.5	<0.5	**0.85**	**15**
RW-10	05/20/20	<1.0	**1.5**	<1.0	**45**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**20**
RW-11	03/17/95	<10	<10	<10	**770**	<2.0	<10	<10	**87**	<10	<10	--
RW-11	06/13/95	<20	<20	<20	**250**	<2.0	<20	<20	**25**	<20	<20	--
RW-11	09/11/95	<5.0	<5.0	<5.0	**210**	<2.0	<5.0	<5.0	**25**	<5.0	<5.0	--
RW-11	11/17/95	<10	<10	<10	**460**	<2.0	<10	<10	**49**	<10	<10	--
RW-11	02/13/96	<5.0	<5.0	<5.0	**290**	<2.0	<5.0	<5.0	**19**	<2.0	<5.0	--
RW-11	05/14/96	<2.0	**2.3**	<2.0	**100**	<2.0	<2.0	<2.0	**11**	<2.0	**2.1**	--
RW-11	08/13/96	<2.0	**4.9**	**2.3**	**630**	<2.0	<2.0	<2.0	**34**	<2.0	**8.8**	--
RW-11	11/12/96	<10	<10	<10	**540**	<10	<10	<10	**36**	<10	<10	--
RW-11	05/13/97	<20	<20	<20	**1,100**	<20	<20	<20	**46**	<20	<20	--
RW-11	12/16/97	<10	<10	<10	**350**	<10	<10	<10	**16**	<10	<10	--
RW-11	05/12/98	<5.0	<5.0	<5.0	**67**	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0	--
RW-11	09/09/98	<2.0	**2.2**	<2.0	**260**	<2.0	<2.0	<2.0	**5.4**	<2.0	**5.4**	--
RW-11	11/10/98	<2.0	<2.0	<2.0	**170**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-11	07/12/99	<5.0	<5.0	<5.0	**210**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
RW-11	10/19/99	<5.0	**5.2**	<5.0	**540**	<5.0	<5.0	<5.0	**9.5**	<5.0	**9.5**	--
RW-11	12/28/99	<5.0	**6.1**	<5.0	**400**	<5.0	<5.0	<5.0	<5.0	<5.0	**8.2**	--
RW-11	05/11/00	<0.5	**2.9**	**1.1**	**480**	<0.5	**0.72**	<0.5	**3.5**	<0.5	**5.1**	--
RW-11	12/05/00	<0.5	**4.3**	**1.6**	**620**	<0.5	**1.1**	<0.5	**3.8**	<0.5	**8.3**	--
RW-11	06/12/01	<0.5	<0.5	<0.5	**110**	<0.5	<0.5	<0.5	<0.5	<0.5	**2.7**	--
RW-11	11/06/01	<1.0	**4.2**	**1.8**	**410**	<1.0	**2.6**	<1.0	**3.2**	<1.0	**21**	--
RW-11	05/22/02	<0.5	**0.78**	<0.5	**27**	<0.5	<0.5	<0.5	<0.5	<0.5	**3.4**	--
RW-11	11/13/02	<0.5	**0.71**	<0.5	**79**	<0.5	<0.5	<0.5	<0.5	<0.5	**2.5**	--
RW-11	06/16/03	<0.5	<0.5	<0.5	**22**	<0.5	**1.0**	<0.5	<0.5	<0.5	**4.0**	--
RW-11	11/09/03	<0.5	<0.5	<0.5	**2.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-11	06/12/04	<0.5	**0.92**	<0.5	**110**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.7**	--
RW-11	10/24/04	<0.5	<0.5	<0.5	**21**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.6**	--
RW-11	11/13/05	<0.5	<0.5	<0.5	**45**	<0.5	<0.5	<0.5	<0.5	<0.5	**3.1**	--
RW-11	04/23/06	<0.5	**1.2**	<0.5	**130**	<0.5	<0.5	<0.5	<0.5	<0.5	**2.5**	<0.5
RW-11	07/16/06	<0.5	**1.5**	**0.52**	**190**	<1.0	<1.0	<1.0	<1.0	<1.0	**2.2**	**11**
RW-11	11/04/06	<1.0	<2.0	<1.0	**60**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**7.4**
RW-11	02/18/07	<0.5	<1.0	<0.5	**18**	<1.0	<1.0	<1.0	<1.0	<1.0	**0.35 J**	**5.5**
RW-11	05/14/07	<0.5	<1.0	<0.5	**24**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**3.0**
RW-11	11/04/07	<0.5	<1.0	<0.5	**27**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.4**

Table C2

Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
CAP Goals:		**1**	**50**	**5**	**60**	**60**	**50**	**500**	**1,000**	**32**	**50**	**--**
RW-11	06/29/08	<0.5	<1.0	<0.5	**21**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-11	11/16/08	<0.5	<1.0	<0.5	**36**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-11	05/28/09	<0.5	<1.0	<0.5	**12**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-11	10/23/09	<0.5	<1.0	<0.5	**36**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-11	12/02/09	<0.5	<1.0	<0.5	**100**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-11	02/02/10	<0.5	<1.0	<0.5	**28**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-11	06/09/10	<0.5	<1.0	<0.5	**33**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-11	09/15/10	<0.5	<1.0	<0.5	**49**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-11	12/20/10	<0.5	<1.0	<0.5	**20**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-11	06/09/11	<0.5	<1.0	<0.5	**92**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-11	11/29/11	<0.5	<1.0	<0.5	**91**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.0**	<0.5
RW-11	05/30/12	<0.5	<1.0	<0.5	**70**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-11	09/18/12	<0.5	<1.0	<0.5	**57**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-11	11/06/12	<0.5	<1.0	<0.5	**57**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.0**	<0.5
RW-11	12/10/12	<0.5	<1.0	<0.5	**70**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-11	03/26/13	<0.5	<1.0	<0.5	**51**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.0**	<0.5
RW-11	06/20/13	<0.5	<1.0	<0.5	**42**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-11	09/18/13	<0.5	<1.0	<0.5	**33**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-11	12/09/13	<0.5	<1.0	<0.5	**31**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-11	05/29/14	<0.5	<1.0	<0.5	**55**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-11	11/04/14	<0.5	<1.0	<0.5	**21**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-11	05/28/15	<0.5	<1.0	<0.5	**34 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-11	11/18/15	<0.5	<1.0	<0.5	**37**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-11	05/17/16	<0.5	<1.0	<0.5	**23 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.54 J**
RW-11	10/24/16	<0.5	<1.0	<0.5	**36**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-11	02/22/17	<0.5	<1.0	<0.5	**20**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-11	04/07/17	<0.5	<1.0	<0.5	**72**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-11	05/24/17	<0.5	**1.4**	<0.5	**140**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-11	08/16/17	<0.5	**1.5**	<0.5	**180**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.6**	**2.4**
RW-11	11/08/17	<0.5	<1.0	<0.5	**62**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-11	03/01/18	<0.5	<1.0	<0.5	**52**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-11	05/09/18	<0.5	<1.0	<0.5	**51**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-11	08/09/18	<0.5	<1.0	<0.5	**43**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-11	11/08/18	<1.0	<1.0	<0.5	**55**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-11	05/23/19	<0.5	**1.5**	**0.62**	**160**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.5**	<0.5
RW-11	11/22/19	<0.5	**0.90**	<0.5	**91**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.1**	**1.6**
RW-11	03/09/20	<5.0	<5.0	<5.0	**150**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
RW-11	05/19/20	<2.0	<2.0	<2.0	**66 J**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
RW-13	03/17/95	<2.0	<2.0	<2.0	**12**	<2.0	<2.0	<2.0	<2.0	<2.0	**6.9**	--
RW-13	06/13/95	<2.0	<2.0	<2.0	**110**	<2.0	**4.9**	<2.0	<2.0	<2.0	**24**	--
RW-13	09/11/95	<2.0	<2.0	<2.0	**26**	<2.0	<2.0	<2.0	<2.0	<2.0	**7.0**	--
RW-13	11/17/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**2.6**	--
RW-13	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-13	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-13	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-13	11/12/96	<2.0	<2.0	<2.0	**68**	**3.5**	**5.7**	<2.0	**4.3**	<2.0	**30**	--
RW-13	05/13/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-13	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-13	05/12/98	<5.0	<5.0	<5.0	**7.4**	<5.0	<5.0	<5.0	<5.0	<5.0	**6.2**	--
RW-13	09/09/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**3.0**	--
RW-13	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-13	07/12/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
RW-13	10/19/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
RW-13	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
RW-13	05/11/00	<0.5	<0.5	<0.5	**0.59**	<0.5	<0.5	<0.5	<0.5	<0.5	**0.58**	--

Table C2

Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
CAP Goals:		**1**	**50**	**5**	**60**	**60**	**50**	**500**	**1,000**	**32**	**50**	**--**
RW-13	12/05/00	<0.5	<0.5	<0.5	**1.0**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.4**	--
RW-13	06/12/01	<0.5	<0.5	<0.5	**1.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-13	11/06/01	<0.5	<0.5	<0.5	**1.8**	<0.5	**0.51**	<0.5	<0.5	<0.5	**2.3**	--
RW-13	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-13	11/11/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.69**	--
RW-13	06/16/03	<0.5	<0.5	<0.5	**2.8**	<0.5	**0.69**	<0.5	<0.5	<0.5	**2.8**	--
RW-13	11/09/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-13	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-13	10/24/04	<0.5	<0.5	<0.5	**1.1**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.5**	--
RW-13	11/14/05	<0.5	<0.5	<0.5	**0.92**	<0.5	**0.50**	<0.5	<0.5	<0.5	**2.6**	--
RW-13	11/05/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-13	05/12/07	<0.5	<1.0	<0.5	<1.0	**7.1**	<1.0	<1.0	<1.0	<1.0	<1.0	**2.9**
RW-13	11/03/07	<0.5	<1.0	<0.5	**9.5**	**4.7**	**4.0**	<1.0	<1.0	<1.0	**19**	<0.5
RW-13	06/29/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-13	11/16/08	<0.5	<1.0	<0.5	**36**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-13	05/28/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-13	12/09/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-13	06/11/10	<0.5	<1.0	<0.5	**1.7**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-13	12/23/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-13	06/17/11	<0.5	<1.0	<0.5	**1.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-13	12/28/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-13	06/07/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-13	12/06/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-13	06/17/13	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-13	12/18/13	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-13	05/30/14	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-13	11/05/14	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-13	05/28/15	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-13	11/19/15	<0.5	<1.0	<0.5	<1.0	**1.3 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-13	05/20/16	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-13	10/25/16	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-13	04/12/17	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-13	11/14/17	<0.5	<1.0	<0.5	<1.0	**1.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-13	05/15/18	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-13	11/13/18	<5.0	<5.0	<2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.5
RW-13	05/29/19	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RW-13	11/26/19	<0.5	<0.5	<0.5	**0.64**	**1.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RW-13	05/19/20	<0.5	<0.5	<0.5	**0.52**	<0.5	<0.5	<0.5	<0.5	<0.5	**0.71**	<0.5
RW-14	03/17/95	<100	<100	<100	**5,500**	<2.0	<100	<100	**670**	<100	<100	--
RW-14	06/13/95	<100	<100	<100	**5,300**	<2.0	<100	<100	**620**	<100	<100	--
RW-14	09/11/95	<100	<100	<100	**5,300**	<2.0	<100	<100	**570**	<100	<100	--
RW-14	11/17/95	<50	<50	<50	**3,500**	<2.0	<50	<50	**350**	<50	<50	--
RW-14	02/13/96	<40	<40	<40	**2,300**	<40	<40	<40	**160**	<2.0	<40	--
RW-14	05/14/96	<2.0	<2.0	**3.6**	**7.7**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
RW-14	08/13/96	<2.0	**10**	**7.4**	**610**	<2.0	<2.0	<2.0	**43**	**2.0**	**7.2**	--
RW-14	11/12/96	<40	<40	<40	**1.5**	<40	<40	<40	**99**	<40	<40	--
RW-14	05/13/97	<20	<20	<20	**1.4**	<20	<20	<20	**80**	<20	<20	--
RW-14	12/16/97	<10	**11**	<10	**860**	<10	<10	<10	**33**	<10	**15**	--
RW-14	05/12/98	<5.0	**11**	**7.0**	**1,000**	<5.0	<5.0	<5.0	**45**	<5.0	**5.8**	--
RW-14	09/09/98	<2.0	**16**	**9.5**	**1,500**	<2.0	**3.6**	<2.0	**50**	**3.0**	**15**	--
RW-14	11/10/98	<20	<20	<20	**290**	<20	<20	<20	<20	<20	<20	--
RW-14	07/12/99	<5.0	**7.0**	**8.0**	**760**	<5.0	<5.0	<5.0	**20**	<5.0	**13**	--
RW-14	10/19/99	<5.0	**14**	**8.1**	**2,200**	<5.0	<5.0	<5.0	**30**	<5.0	**18**	--
RW-14	12/28/99	<0.5	**11**	**9.6**	**1,200**	<5.0	**5.3**	<5.0	<5.0	<5.0	**17**	--
RW-14	05/11/00	<0.5	**9.4**	**6.4**	**1,900**	<0.5	**3.6**	<0.5	**13**	<0.5	**12**	--

Table C2

Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
CAP Goals:		**1**	**50**	**5**	**60**	**60**	**50**	**500**	**1,000**	**32**	**50**	**--**
RW-14	12/05/00	--	**7.7**	**4.6**	**1,500**	--	**3.4**	--	**8.6**	**1.4**	**15**	--
RW-14	06/12/01	<0.5	**12**	**5.2**	**800**	**1.8**	**4.1**	<0.5	**10**	<0.5	**17**	--
RW-14	11/06/01	<5.0	**12**	**7.3**	**1,500**	<5.0	<5.0	<5.0	**12**	<5.0	**13**	--
RW-14	05/22/02	<5.0	**6.7**	<5.0	**770**	<5.0	<5.0	<5.0	<5.0	<5.0	**9.3**	--
RW-14	11/13/02	<5.0	**7.8**	<5.0	**1,400**	<5.0	<5.0	<5.0	<5.0	<5.0	**13**	--
RW-14	06/16/03	<2.5	<2.5	<2.5	**500**	<2.5	<2.5	<2.5	<2.5	<2.5	**8.1**	--
RW-14	11/11/03	<1.0	**8.0**	<1.0	**750**	**6.0**	<1.0	<1.0	<1.0	<1.0	**2.9**	--
RW-14	03/22/04	<1.0	**3.9**	**1.8**	**6.4**	<0.5	**0.82**	<1.0	<1.0	<1.0	<0.5	--
RW-14	06/09/04	<1.0	**1.9**	<0.5	**6.3**	<0.5	**0.63**	<1.0	<1.0	<1.0	<0.5	--
RW-14	10/24/04	<0.5	**4.9**	**3.0**	**380**	**0.98**	**3.3**	<0.5	**1.0**	<0.5	**5.1**	--
RW-14	11/13/05	<1.0	**6.0**	**4.2**	**420**	<1.0	<1.0	<1.0	<1.0	<1.0	**4.0**	--
RW-14	04/23/06	<0.5	<1.0	**0.50**	**45**	<1.0	<1.0	<1.0	<1.0	<1.0	**2.5**	**6.8**
RW-14	07/17/06	<0.5	**3.9**	**2.1**	**300**	<1.0	<1.0	<1.0	<1.0	<1.0	**3.4**	**23**
RW-14	11/04/06	<2.5	**5.4**	**3.4**	**240**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**230**
RW-14	05/13/07	<0.5	**1.3**	**2.1**	**73**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**38**
RW-14	11/03/07	<0.5	**4.6**	**3.7**	**260**	**1.9**	<1.0	<1.0	<1.0	<1.0	**1.8**	**110**
RW-14	06/29/08	<2.5	<5.0	<2.5	**450**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**34**
RW-14	11/16/08	<2.5	<5.0	<2.5	**250**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**110**
RW-14	05/28/09	<0.5	**2.1**	**0.63**	**56**	**4.7**	<1.0	<1.0	<1.0	<1.0	**2.0**	**76**
RW-14	12/09/09	<0.5	**2.7**	**1.0**	**170**	**4.4**	<1.0	<1.0	<1.0	<1.0	**4.6**	**55**
RW-14	06/11/10	<0.5	**5.3**	**3.6**	**400**	**1.5**	<1.0	<1.0	<1.0	<1.0	**3.3**	**51**
RW-14	12/22/10	<0.5	<1.0	<0.5	**17**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**3.5**
RW-14	06/15/11	<2.5	<5.0	**3.1**	**580**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.5
RW-14	12/27/11	<2.5	<5.0	<2.5	**430**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**41**
RW-14	06/07/12	<0.5	**2.0**	**0.97**	**80**	**1.6**	<1.0	<1.0	<1.0	<1.0	**1.4**	**65**
RW-14	09/18/12	<0.5	**3.5**	**1.8 J**	**190**	**2.3**	<1.0	<1.0	<1.0	<1.0	**2.8**	**54**
RW-14	11/06/12	<0.5	**4.1**	**2.4**	**280**	**2.5**	<1.0	<1.0	<1.0	<1.0	**3.0**	**73**
RW-14	12/10/12	<0.5	**3.8**	**2.6**	**370**	**2.8**	<1.0	<1.0	<1.0	<1.0	**2.7**	**78**
RW-14	03/26/13	<1.0	**3.7**	**2.1**	**320**	**2.6**	<2.0	<2.0	<2.0	<2.0	<2.0	**68**
RW-14	06/20/13	<1.0	**4.0**	**2.4**	**340**	**2.2**	<2.0	<2.0	<2.0	<2.0	<2.0	**78**
RW-14	09/18/13	<1.0	**4.2**	**2.0**	**370**	**2.5**	<2.0	<2.0	<2.0	<2.0	<2.0	**53**
RW-14	12/09/13	<0.5	**1.6**	<0.5	**74**	**2.3**	<1.0	<1.0	<1.0	<1.0	<1.0	**55**
RW-14	05/29/14	<0.5	**1.8**	<0.5	**36**	**3.4**	<1.0	<1.0	<1.0	<1.0	<1.0	**68**
RW-14	11/04/14	<0.5	<1.0	<0.5	**14**	**1.6**	<1.0	<1.0	<1.0	<1.0	<1.0	**27**
RW-14	05/28/15	<0.5	<1.0	<0.5	**23 J**	**3.9**	<1.0	<1.0	<1.0	<1.0	<1.0	**31**
RW-14	11/18/15	<0.5	<1.0	<0.5	**12**	**3.8**	<1.0	<1.0	<1.0	<1.0	<1.0	**41**
RW-14	05/17/16	<0.5	<1.0	<0.5	**13 J**	**3.4**	<1.0	<1.0	<1.0	<1.0	<1.0	**33 J**
RW-14	10/25/16	<0.5	<1.0	<0.5	**14**	**3.2**	<1.0	<1.0	<1.0	<1.0	<1.0	**28**
RW-14	04/07/17	<0.5	<1.0	<0.5	**29**	**3.2**	<1.0	<1.0	<1.0	<1.0	<1.0	**31**
RW-14	11/15/17	<0.5	**1.2**	<0.5	**27**	**2.7**	<1.0	<1.0	<1.0	<1.0	<1.0	**30**
RW-14	05/14/18	<0.5	<1.0	<0.5	**21**	**3.2**	<1.0	<1.0	<1.0	<1.0	<1.0	**22**
RW-14	11/14/18	<1.0	**1.0**	<0.5	**21**	**2.9**	<1.0	<1.0	<1.0	<1.0	<1.0	**22**
RW-14	05/24/19	<0.5	**1.0**	<0.5	**55**	**2.2**	<0.5	<0.5	<0.5	<0.5	<0.5	**28**
RW-14	11/25/19	<1.0	**1.2**	<1.0	**38**	**3.8**	<1.0	<1.0	<1.0	<1.0	<1.0	**21**
RW-14	03/09/20	<1.0	<1.0	<1.0	**32**	**4.0**	<1.0	<1.0	<1.0	<1.0	<1.0	**20**
RW-14	05/21/20	Not sampled due to presence of substrate										
RW-15	03/17/95	<10	<10	<10	**490**	<2.0	<10	<10	**100**	<10	**22**	--
RW-15	06/13/95	<20	<20	<20	**740**	<2.0	<20	<20	**110**	<20	<20	--
RW-15	09/11/95	<5.0	<5.0	<5.0	**550**	<2.0	<5.0	<5.0	**62**	<5.0	**16**	--
RW-15	11/17/95	<10	<10	<10	**320**	<2.0	<10	<10	**41**	<10	**17**	--
RW-15	02/13/96	<4.0	<4.0	<4.0	**180**	<4.0	<4.0	<4.0	**12**	<2.0	**6.5**	--
RW-15	05/14/96	<2.0	<2.0	<2.0	**62**	<2.0	<2.0	<2.0	**5.3**	<2.0	**3.6**	--
RW-15	08/13/96	<2.0	<2.0	<2.0	**94**	<2.0	<2.0	<2.0	**5.7**	<2.0	**6.7**	--
RW-15	11/12/96	<2.0	<2.0	<2.0	**94**	<2.0	**2.1**	<2.0	**6.5**	<2.0	**11**	--
RW-15	05/13/97	<2.0	<2.0	<2.0	**110**	<2.0	**2.4**	<2.0	**6.6**	<2.0	**9.1**	--

Table C2

Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
CAP Goals:		**1**	**50**	**5**	**60**	**60**	**50**	**500**	**1,000**	**32**	**50**	**--**
RW-15	12/16/97	<2.0	<2.0	<2.0	**190**	<2.0	**8.6**	<2.0	**5.6**	<2.0	**28**	--
RW-15	05/12/98	<5.0	<5.0	<5.0	**54**	<5.0	<5.0	<5.0	<5.0	<5.0	**5.3**	--
RW-15	09/09/98	<2.0	<2.0	<2.0	**97**	<2.0	**2.7**	<2.0	**4.9**	<2.0	**7.3**	--
RW-15	11/10/98	<8.0	<8.0	<8.0	**180**	<8.0	<8.0	<8.0	<8.0	<8.0	**8.6**	--
RW-15	07/12/99	<5.0	<5.0	<5.0	**44**	<5.0	<5.0	<5.0	<5.0	<5.0	**7.1**	--
RW-15	10/19/99	<5.0	<5.0	<5.0	**96**	<5.0	<5.0	<5.0	<5.0	<5.0	**11**	--
RW-15	12/28/99	<5.0	<5.0	<5.0	**86**	<5.0	<5.0	<5.0	<5.0	<5.0	**9.8**	--
RW-15	11/13/05	<0.5	<0.5	<0.5	**34**	<0.5	**1.9**	<0.5	<0.5	<0.5	**5.5**	--
RW-15	07/18/06	<0.5	<1.0	<0.5	**51**	<1.0	**2.8**	<1.0	**8.9**	<1.0	<1.0	--
RW-15	04/23/06	<0.5	<1.0	<0.5	**21**	<1.0	**2.6**	<1.0	<1.0	<1.0	**6.1**	<0.5
RW-15	11/04/06	<0.5	<1.0	<0.5	**22**	<1.0	**1.7**	<1.0	<1.0	<1.0	**5.9**	<0.5
RW-15	05/13/07	<0.5	<1.0	<0.5	**53**	<1.0	**3.0**	<1.0	<1.0	<1.0	**8.3**	<0.5
RW-15	11/03/07	<0.5	<1.0	<0.5	**42**	<1.0	**1.5**	<1.0	<1.0	<1.0	**5.8**	<0.5
RW-15	06/29/08	<0.5	<1.0	<0.5	**20**	<1.0	<1.0	<1.0	<1.0	<1.0	**4.2**	<0.5
RW-15	11/16/08	<0.5	<1.0	<0.5	**4.7**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.9**	<0.5
RW-15	05/28/09	<0.5	<1.0	<0.5	**56**	<1.0	**1.5**	<1.0	<1.0	<1.0	**6.8**	<0.5
RW-15	12/09/09	<0.5	<1.0	<0.5	**100**	<1.0	**2.2**	<1.0	<1.0	<1.0	**8.5**	<0.5
RW-15	06/11/10	<0.5	<1.0	<0.5	**16**	<1.0	**1.0 J**	<1.0	<1.0	<1.0	**3.6**	<0.5
RW-15	12/22/10	<0.5	<1.0	<0.5	**9.9**	<1.0	<1.0	<1.0	<1.0	<1.0	**2.1**	<0.5
RW-15	06/15/11	<0.5	<1.0	<0.5	**30**	<1.0	<1.0	<1.0	<1.0	<1.0	**2.3**	<0.5
RW-15	12/28/11	<0.5	<1.0	<0.5	**24**	<1.0	**1.9**	<1.0	<1.0	<1.0	**6.6**	<0.5
RW-15	06/07/12	<0.5	<1.0	<0.5	**24**	<1.0	**2.1**	<1.0	<1.0	<1.0	**6.4**	<0.5
RW-15	09/18/12	<0.5	<1.0	<0.5	**41**	<1.0	**2.7**	<1.0	<1.0	<1.0	**7.7**	<0.5
RW-15	11/06/12	<0.5	<1.0	<0.5	**29**	<1.0	**1.8**	<1.0	<1.0	<1.0	**7.2**	<0.5
RW-15	12/10/12	<0.5	<1.0	<0.5	**63**	<1.0	**3.7**	<1.0	<1.0	<1.0	**14**	**0.54**
RW-15	03/26/13	<0.5	<1.0	<0.5	**32**	<1.0	**2.4**	<1.0	<1.0	<1.0	**8.6**	<0.5
RW-15	06/20/13	<0.5	<1.0	<0.5	**8.2**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.9**	<0.5
RW-15	09/18/13	<0.5	<1.0	<0.5	**56**	<1.0	**3.2**	<1.0	<1.0	<1.0	**13**	**0.52**
RW-15	12/05/13	<0.5	<1.0	<0.5	**70**	<1.0	**4.2**	<1.0	<1.0	<1.0	**11**	**1.6**
RW-15	05/29/14	<0.5	<1.0	<0.5	**46**	**1.3**	**3.1**	<1.0	<1.0	<1.0	**12**	**0.96**
RW-15	11/06/14	<0.5	<1.0	<0.5	**40**	**2.0**	**4.4**	<1.0	<1.0	<1.0	**14**	**1.0**
RW-15	05/28/15	<0.5	<1.0	<0.5	**23 J**	**1.4**	**2.0**	<1.0	<1.0	<1.0	**7.8**	<0.5
RW-15	11/18/15	<0.5	<1.0	<0.5	**62**	**2.0**	**4.0**	<1.0	<1.0	<1.0	**15**	**1.2**
RW-15	05/17/16	<0.5	<1.0	<0.5	**16 J**	**2.5**	**6.4**	<1.0	<1.0	<1.0	**22**	**1.4 J**
RW-15	10/25/16	<0.5	<1.0	<0.5	**240**	**2.1**	**6.7**	<1.0	<1.0	<1.0	**19**	**6.8**
RW-15	04/07/17	<0.5	<1.0	<0.5	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-15	11/15/17	<0.5	<1.0	<0.5	**19**	**2.8**	<1.0	<1.0	<1.0	<1.0	**3.7**	**0.54**
RW-15	05/15/18	<0.5	<1.0	<0.5	**24**	**2.4**	**2.6**	<1.0	<1.0	<1.0	**8.1**	**0.53**
RW-15	11/14/18	<1.0	<1.0	<0.5	**61**	**3.6**	**5.0**	<1.0	<1.0	<1.0	**17**	**1.3**
RW-15	05/24/19	<0.5	<0.5	<0.5	**8.7**	**2.5**	**0.8**	<0.5	<0.5	<0.5	**3.1**	<0.5
RW-15	11/25/19	<0.5	<0.5	<0.5	**16**	**5.7**	**2.3**	<0.5	<0.5	<0.5	**6.7**	**0.56**
RW-15	03/09/20	<0.5	<0.5	<0.5	**11**	**4.7**	**2.2**	<0.5	<0.5	<0.5	**5.7**	<0.5
RW-15	05/20/20	<0.5	<0.5	<0.5	**7.1**	**3.5**	**1.3**	<0.5	<0.5	<0.5	**3.6**	<0.5
RW-16	03/17/95	<4.0	<4.0	<4.0	**280**	<2.0	**12**	<4.0	<4.0	<4.0	**67**	--
RW-16	06/13/95	<2.0	<2.0	<2.0	**150**	<2.0	**15**	<2.0	**2.2**	<2.0	**57**	--
RW-16	09/11/95	<2.0	<2.0	<2.0	**85**	<2.0	**6.7**	<2.0	**2.2**	<2.0	**37**	--
RW-16	11/17/95	<2.0	<2.0	<2.0	**59**	<2.0	<2.0	<2.0	<2.0	<2.0	**28**	--
RW-16	02/13/96	<2.0	<2.0	<2.0	**28**	<2.0	**2.3**	<2.0	<2.0	<2.0	**9.4**	--
RW-16	05/14/96	<2.0	<2.0	<2.0	**13**	<2.0	<2.0	<2.0	<2.0	<2.0	**3.8**	--
RW-16	08/13/96	<2.0	<2.0	<2.0	**28**	<2.0	**3.4**	<2.0	<2.0	<2.0	**20**	--
RW-16	11/12/96	<2.0	<2.0	<2.0	**22**	<2.0	**3.7**	<2.0	<2.0	<2.0	**19**	--
RW-16	05/13/97	<2.0	<2.0	<2.0	**21**	<2.0	**17**	<2.0	<2.0	<2.0	**74**	--
RW-16	12/16/97	<2.0	<2.0	<2.0	**60**	<2.0	**9.8**	<2.0	<2.0	<2.0	**37**	--
RW-16	05/12/98	<5.0	<5.0	<5.0	**180**	<5.0	**9.9**	<5.0	<5.0	<5.0	**43**	--
RW-16	09/09/98	<2.0	<2.0	<2.0	**44**	<2.0	**9.9**	<2.0	<2.0	<2.0	**42**	--

Table C2

Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
CAP Goals:		**1**	**50**	**5**	**60**	**60**	**50**	**500**	**1,000**	**32**	**50**	**--**
RW-16	11/10/98	<2.0	<2.0	<2.0	**56**	<2.0	**12**	<2.0	<2.0	<2.0	**58**	--
RW-16	07/12/99	<5.0	<5.0	<5.0	**53**	<5.0	**9.7**	<5.0	<5.0	<5.0	**47**	--
RW-16	10/19/99	<5.0	<5.0	<5.0	**170**	<5.0	**6.3**	<5.0	<5.0	<5.0	**30**	--
RW-16	12/28/99	<5.0	<5.0	<5.0	**92**	<5.0	**18**	<5.0	<5.0	<5.0	**65**	--
RW-16	05/11/00	<0.5	**1.1**	<0.5	**130**	<0.5	**15**	<0.5	<0.5	<0.5	**48**	--
RW-16	12/05/00	<0.5	**1.1**	**0.89**	**140**	<0.5	**12**	<0.5	<0.5	<0.5	**52**	--
RW-16	06/12/01	<0.5	<0.5	<0.5	**100**	<0.5	**7.8**	<0.5	--	<0.5	**35**	--
RW-16	11/06/01	<0.5	**1.4**	**0.69**	**140**	**0.53**	**11**	<0.5	<0.5	<0.5	**45**	--
RW-16	05/22/02	<0.5	**0.91**	<0.5	**96**	**1.6**	**12**	<0.5	<0.5	<0.5	**52**	--
RW-16	11/13/02	<0.5	<0.5	<0.5	**130**	**1.4**	**6.1**	<0.5	<0.5	<0.5	**36**	--
RW-16	06/16/03	<0.5	<0.5	<0.5	**71**	<0.5	**15**	<0.5	<0.5	<0.5	**47**	--
RW-16	11/09/03	<0.5	<0.5	<0.5	**79**	**0.74**	**17**	<0.5	<0.5	<0.5	**56**	--
RW-16	06/12/04	<0.5	<0.5	<0.5	**55**	**0.75**	**11**	<0.5	<0.5	<0.5	**46**	--
RW-16	10/24/04	<0.5	<0.5	<0.5	**36**	**0.89**	**11**	<0.5	<0.5	<0.5	**29**	--
RW-16	11/14/05	<0.5	**0.8**	<0.5	**63**	**2.0**	**15**	<0.5	<0.5	<0.5	**60**	--
RW-16	11/05/06	<0.5	<1.0	<0.5	**65**	**4.4**	<1.0	<1.0	<1.0	<1.0	**58**	<0.5
RW-16	05/12/07	<0.5	<1.0	<0.5	**23**	**27**	**8.0**	<1.0	<1.0	<1.0	**41**	<0.5
RW-16	11/03/07	<0.5	<1.0	<0.5	**31**	**38**	**8.3**	<1.0	<1.0	<1.0	**45**	<0.5
RW-16	06/29/08	<0.5	<1.0	<0.5	**47**	**5.6**	**15**	<1.0	<1.0	<1.0	**85**	**1.3**
RW-16	11/16/08	<0.5	<1.0	<0.5	**15**	**6.7**	**6.5**	<1.0	<1.0	<1.0	**23**	**2.5**
RW-16	05/28/09	<0.5	**1.4**	<0.5	**110**	**6.6**	**17**	<1.0	<1.0	<1.0	**82**	**1.9**
RW-16	12/09/09	<0.5	<1.0	<0.5	**33**	**2.2**	**23**	<1.0	<1.0	<1.0	**76**	<0.5
RW-16	06/11/10	<0.5	<1.0	<0.5	**45**	**4.6**	**26**	<1.0	<1.0	<1.0	**89**	**1.2**
RW-16	12/22/10	<0.5	<1.0	<0.5	**21**	**6.6**	**17**	<1.0	<1.0	<1.0	**58**	**1.4**
RW-16	06/17/11	<5.0	<10	<5.0	**29**	**41**	**10**	<10	<10	<10	**30**	<5.0
RW-16	12/28/11	<1.0	<2.0	<1.0	**2.6**	**18**	<2.0	<2.0	<2.0	<2.0	<2.0	**32**
RW-16	06/07/12	<0.5	<1.0	<0.5	<1.0	**1.9**	<1.0	**3.7**	<1.0	<1.0	<1.0	**4.5**
RW-16	12/06/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.4**
RW-16	06/17/13	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	**1.4**	<1.0	<1.0	<1.0	**0.77**
RW-16	12/18/13	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.65**
RW-16	05/30/14	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.87**
RW-16	11/06/14	<0.5	<1.0	<0.5	<1.0	**1.8**	<1.0	<1.0	<1.0	<1.0	<1.0	**2.5**
RW-16	05/29/15	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.56**
RW-16	11/19/15	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.89 J**
RW-16	05/20/16	<0.5	<1.0	<0.5	<1.0	**1.5**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.6**
RW-16	10/26/16	<0.5	<1.0	<0.5	<1.0	**2.2**	<1.0	<1.0	<1.0	<1.0	<1.0	**2.5**
RW-16	04/12/17	<10	<20	<10	<20	<20	<20	<20	<20	<20	<20	<10
RW-16	11/14/17	<5.0	<10	<5.0	<10	<10	<10	<10	<10	<10	<10	<5.0
RW-16	05/14/18	<0.5	<1.0	<0.5	<1.0	**1.4**	<1.0	<1.0	<1.0	<1.0	<1.0	**0.98**
RW-16	11/16/18	<1.0	<1.0	<0.5	**2.1**	**9.1**	<1.0	<1.0	<1.0	<1.0	<1.0	**5.4**
RW-16	05/23/19	<0.5	<0.5	<0.5	**3.9**	**13**	<0.5	<0.5	<0.5	<0.5	<0.5	**9.6**
RW-16	11/22/19	<0.5	<0.5	<0.5	**7.8**	**15**	<0.5	<0.5	<0.5	<0.5	<0.5	**8.8**
RW-16	05/19/20	<0.5	<0.5	<0.5	**4.7**	**12**	<0.5	<0.5	<0.5	<0.5	<0.5	**9.3**

Notes:

1) All concentrations in µg/L.

2) All analyses performed by EPA Method 8260, 8260B or 8021B.

3) '-- = not analyzed for this analyte.

4) Only detectable concentrations of constituents of concern are shown. For wells with duplicate samples, the highest of the pair are shown here.

5) 1,1-DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; 1,1-DCE = 1,1-Dichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; PCE = Tetrachloroethene; 1,1,1-TCA = 1,1,1-Trichloroethane; 1,1,2-TCA = 1,1,2-Trichloroethane; TCE = Trichloroethene; VC = vinyl chloride

6) "J" - result qualified as estimated due to quality control issues.

Appendix D

Laboratory Reports

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-28918-1
Client Project/Site: CANOGA PARK 1SA20
Revision: 1

For:
Oneida Total Integrated Enterprises LLC
317 E Main Street
Ventura, California 93001

Attn: Kim Sawyer

Virendra R Patel

Authorized for release by:
6/2/2020 12:21:15 PM

Virendra Patel, Project Manager I
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LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 8
Surrogate Summary 42
QC Sample Results 43
QC Association Summary 57
Lab Chronicle 58
Certification Summary 62
Method Summary 63
Sample Summary 64
Chain of Custody 65
Receipt Checklists 70

Definitions/Glossary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: CANOGA PARK 1SA20

Job ID: 570-28918-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 570-28918-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-28918-1

Comments
No additional comments.

Revision
The report being provided is a revision of the original report sent on 5/21/2020. The report (revision 1) is being revised due to: The client requested confirmation runs to be screened and included for sample #4 (RW-16) and #5 (DUP2)..

Receipt
The samples were received on 5/21/2020 5:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0º C.

Receipt Exceptions

The client requested confirmation runs to be screened and included for sample #4 (RW-16) and #5 (DUP2) in the supplemental report package and EDD files.

GC/MS VOA
Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with analytical batch 570-71138 were outside control limits: CM-4D-202105 (570-28918-17[MS]). The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 570-71137 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8260B: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW-20S-202005 (570-28918-10). Elevated reporting limits (RLs) are provided.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with analytical batch 570-71247 were outside control limits: (570-28893-A-9 MS) and (570-28893-A-9 MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-72089.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: CANOGA PARK 1SA20

Job ID: 570-28918-1

Client Sample ID: TB-202005 — Lab Sample ID: 570-28918-1

No Detections.

Client Sample ID: RW-11-201905 — Lab Sample ID: 570-28918-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	66	F1 F2	2.0		ug/L	4		8260B	Total/NA

Client Sample ID: RW-06-201905 — Lab Sample ID: 570-28918-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	5.6		0.50		ug/L	1		8260B	Total/NA
Benzene	0.75		0.50		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	1.0		0.50		ug/L	1		8260B	Total/NA
Trichloroethene	0.52		0.50		ug/L	1		8260B	Total/NA
2-Butanone - DL	75		20		ug/L	4		8260B	Total/NA

Client Sample ID: RW-16-201905 — Lab Sample ID: 570-28918-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.0		0.50		ug/L	1		8260B	Total/NA
1,1-Dichloroethene	3.8	*	0.50		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	12		0.50		ug/L	1		8260B	Total/NA
Vinyl chloride	0.70		0.50		ug/L	1		8260B	Total/NA
Vinyl chloride	9.3		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: DUP2-201905 — Lab Sample ID: 570-28918-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	4.3		0.50		ug/L	1		8260B	Total/NA
1,1-Dichloroethene	4.7	*	0.50		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	9.9		0.50		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	12		0.50		ug/L	1		8260B	Total/NA
Vinyl chloride	8.2		0.50		ug/L	1		8260B	Total/NA
Vinyl chloride	9.3		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: RW-04-202005 — Lab Sample ID: 570-28918-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.58		0.50		ug/L	1		8260B	Total/NA
Vinyl chloride	2.0		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: RW-10-202005 — Lab Sample ID: 570-28918-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.5		1.0		ug/L	2		8260B	Total/NA
1,1-Dichloroethene	45		1.0		ug/L	2		8260B	Total/NA
Vinyl chloride	20		1.0		ug/L	2		8260B	Total/NA

Client Sample ID: MW-39-202005 — Lab Sample ID: 570-28918-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	7.6		1.0		ug/L	2		8260B	Total/NA
Vinyl chloride	32		1.0		ug/L	2		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: CANOGA PARK 1SA20

Job ID: 570-28918-1

Client Sample ID: RW-09-202005 — Lab Sample ID: 570-28918-9

No Detections.

Client Sample ID: MW-20S-202005 — Lab Sample ID: 570-28918-10

No Detections.

Client Sample ID: MW-19S-202005 — Lab Sample ID: 570-28918-11

No Detections.

Client Sample ID: MW-19D-202005 — Lab Sample ID: 570-28918-12

No Detections.

Client Sample ID: RW-15-202005 — Lab Sample ID: 570-28918-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	7.1		0.50		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	3.5		0.50		ug/L	1		8260B	Total/NA
Tetrachloroethene	1.3		0.50		ug/L	1		8260B	Total/NA
Trichloroethene	3.6		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: CM-8D-202105 — Lab Sample ID: 570-28918-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.7		0.50		ug/L	1		8260B	Total/NA
1,1-Dichloroethene	15		0.50		ug/L	1		8260B	Total/NA
1,2-Dichloroethane	0.96		0.50		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	1.8		0.50		ug/L	1		8260B	Total/NA
Trichloroethene	2.6		0.50		ug/L	1		8260B	Total/NA
Vinyl chloride	7.8		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: MW-37-202105 — Lab Sample ID: 570-28918-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	44		1.0		ug/L	2		8260B	Total/NA
Chloroform	4.3		1.0		ug/L	2		8260B	Total/NA
Trichloroethene	5.0		1.0		ug/L	2		8260B	Total/NA
Trichlorofluoromethane	1.5		1.0		ug/L	2		8260B	Total/NA

Client Sample ID: DUP3-202105 — Lab Sample ID: 570-28918-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	47		1.0		ug/L	2		8260B	Total/NA
Chloroform	4.6		1.0		ug/L	2		8260B	Total/NA
Trichloroethene	5.4		1.0		ug/L	2		8260B	Total/NA
Trichlorofluoromethane	1.8		1.0		ug/L	2		8260B	Total/NA

Client Sample ID: CM-4D-202105 — Lab Sample ID: 570-28918-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	3.0		0.50		ug/L	1		8260B	Total/NA
1,1-Dichloroethene	7.2		0.50		ug/L	1		8260B	Total/NA
1,2-Dichloroethane	2.8		0.50		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	3.1		0.50		ug/L	1		8260B	Total/NA
Chloroethane	3.2		0.50		ug/L	1		8260B	Total/NA
Vinyl chloride	17		0.50		ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: CANOGA PARK 1SA20

Job ID: 570-28918-1

Client Sample ID: DUP1-202105 — Lab Sample ID: 570-28918-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	3.1		0.50		ug/L	1		8260B	Total/NA
1,1-Dichloroethene	7.1		0.50		ug/L	1		8260B	Total/NA
1,2-Dichloroethane	2.7		0.50		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	3.2		0.50		ug/L	1		8260B	Total/NA
Chloroethane	2.2		0.50		ug/L	1		8260B	Total/NA
Vinyl chloride	17		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: MW-16-202105 — Lab Sample ID: 570-28918-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.94		0.50		ug/L	1		8260B	Total/NA
Vinyl chloride	0.88		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: CM-16-202105 — Lab Sample ID: 570-28918-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.73		0.50		ug/L	1		8260B	Total/NA
Trichloroethene	0.65		0.50		ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Oneida Total Integrated Enterprises LLC
Project/Site: CANOGA PARK 1SA20

Job ID: 570-28918-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: TB-202005
Date Collected: 05/20/20 08:00
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/25/20 03:41	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/25/20 03:41	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/25/20 03:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/25/20 03:41	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/25/20 03:41	1
1,1-Dichloroethane	ND		0.50		ug/L			05/25/20 03:41	1
1,1-Dichloroethene	ND		0.50		ug/L			05/25/20 03:41	1
1,1-Dichloropropene	ND		0.50		ug/L			05/25/20 03:41	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/25/20 03:41	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/25/20 03:41	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/25/20 03:41	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/25/20 03:41	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/25/20 03:41	1
1,2-Dibromoethane	ND		0.50		ug/L			05/25/20 03:41	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/25/20 03:41	1
1,2-Dichloroethane	ND		0.50		ug/L			05/25/20 03:41	1
1,2-Dichloropropane	ND		0.50		ug/L			05/25/20 03:41	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/25/20 03:41	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/25/20 03:41	1
1,3-Dichloropropane	ND		1.0		ug/L			05/25/20 03:41	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/25/20 03:41	1
2,2-Dichloropropane	ND		1.0		ug/L			05/25/20 03:41	1
2-Butanone	ND		5.0		ug/L			05/25/20 03:41	1
2-Chlorotoluene	ND		0.50		ug/L			05/25/20 03:41	1
2-Hexanone	ND		10		ug/L			05/25/20 03:41	1
4-Chlorotoluene	ND		0.50		ug/L			05/25/20 03:41	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/25/20 03:41	1
Acetone	ND		10		ug/L			05/25/20 03:41	1
Benzene	ND		0.50		ug/L			05/25/20 03:41	1
Bromobenzene	ND		0.50		ug/L			05/25/20 03:41	1
Bromochloromethane	ND		1.0		ug/L			05/25/20 03:41	1
Bromodichloromethane	ND		0.50		ug/L			05/25/20 03:41	1
Bromoform	ND		0.50		ug/L			05/25/20 03:41	1
Bromomethane	ND		2.0		ug/L			05/25/20 03:41	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/25/20 03:41	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/25/20 03:41	1
Carbon disulfide	ND		10		ug/L			05/25/20 03:41	1
Carbon tetrachloride	ND		0.50		ug/L			05/25/20 03:41	1
Chlorobenzene	ND		0.50		ug/L			05/25/20 03:41	1
Chloroethane	ND		0.50		ug/L			05/25/20 03:41	1
Chloroform	ND		0.50		ug/L			05/25/20 03:41	1
Chloromethane	ND		5.0		ug/L			05/25/20 03:41	1
Dibromochloromethane	ND		0.50		ug/L			05/25/20 03:41	1
Dibromomethane	ND		0.50		ug/L			05/25/20 03:41	1
Dichlorodifluoromethane	ND		1.0		ug/L			05/25/20 03:41	1
Ethylbenzene	ND		0.50		ug/L			05/25/20 03:41	1
Isopropylbenzene	ND		0.50		ug/L			05/25/20 03:41	1
Methylene Chloride	ND		1.0		ug/L			05/25/20 03:41	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			05/25/20 03:41	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: TB-202005
Date Collected: 05/20/20 08:00
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			05/25/20 03:41	1
n-Butylbenzene	ND		0.50		ug/L			05/25/20 03:41	1
N-Propylbenzene	ND		0.50		ug/L			05/25/20 03:41	1
o-Xylene	ND		0.50		ug/L			05/25/20 03:41	1
m,p-Xylene	ND		1.0		ug/L			05/25/20 03:41	1
p-Isopropyltoluene	ND		0.50		ug/L			05/25/20 03:41	1
sec-Butylbenzene	ND		0.50		ug/L			05/25/20 03:41	1
Styrene	ND		0.50		ug/L			05/25/20 03:41	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/25/20 03:41	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/25/20 03:41	1
tert-Butylbenzene	ND		0.50		ug/L			05/25/20 03:41	1
Tetrachloroethene	ND		0.50		ug/L			05/25/20 03:41	1
Toluene	ND		0.50		ug/L			05/25/20 03:41	1
Trichloroethene	ND		0.50		ug/L			05/25/20 03:41	1
Trichlorofluoromethane	ND		0.50		ug/L			05/25/20 03:41	1
Vinyl acetate	ND		5.0		ug/L			05/25/20 03:41	1
Vinyl chloride	ND		0.50		ug/L			05/25/20 03:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 128*		*05/25/20 03:41*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 120*		*05/25/20 03:41*	*1*
Dibromofluoromethane	*100*		*80 - 127*		*05/25/20 03:41*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/25/20 03:41*	*1*

Client Sample ID: RW-11-201905
Date Collected: 05/19/20 14:36
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			05/25/20 04:08	4
1,1,1-Trichloroethane	ND		2.0		ug/L			05/25/20 04:08	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			05/25/20 04:08	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F2	2.0		ug/L			05/25/20 04:08	4
1,1,2-Trichloroethane	ND		2.0		ug/L			05/25/20 04:08	4
1,1-Dichloroethane	ND		2.0		ug/L			05/25/20 04:08	4
1,1-Dichloroethene	**66**	**F1 F2**	2.0		ug/L			05/25/20 04:08	4
1,1-Dichloropropene	ND		2.0		ug/L			05/25/20 04:08	4
1,2,3-Trichlorobenzene	ND		2.0		ug/L			05/25/20 04:08	4
1,2,3-Trichloropropane	ND		4.0		ug/L			05/25/20 04:08	4
1,2,4-Trichlorobenzene	ND		2.0		ug/L			05/25/20 04:08	4
1,2,4-Trimethylbenzene	ND		2.0		ug/L			05/25/20 04:08	4
1,2-Dibromo-3-Chloropropane	ND		20		ug/L			05/25/20 04:08	4
1,2-Dibromoethane	ND		2.0		ug/L			05/25/20 04:08	4
1,2-Dichlorobenzene	ND		2.0		ug/L			05/25/20 04:08	4
1,2-Dichloroethane	ND		2.0		ug/L			05/25/20 04:08	4
1,2-Dichloropropane	ND		2.0		ug/L			05/25/20 04:08	4
1,3,5-Trimethylbenzene	ND		2.0		ug/L			05/25/20 04:08	4
1,3-Dichlorobenzene	ND		2.0		ug/L			05/25/20 04:08	4
1,3-Dichloropropane	ND		4.0		ug/L			05/25/20 04:08	4
1,4-Dichlorobenzene	ND		2.0		ug/L			05/25/20 04:08	4
2,2-Dichloropropane	ND		4.0		ug/L			05/25/20 04:08	4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: RW-11-201905
Date Collected: 05/19/20 14:36
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		20		ug/L			05/25/20 04:08	4
2-Chlorotoluene	ND		2.0		ug/L			05/25/20 04:08	4
2-Hexanone	ND		40		ug/L			05/25/20 04:08	4
4-Chlorotoluene	ND		2.0		ug/L			05/25/20 04:08	4
4-Methyl-2-pentanone	ND		20		ug/L			05/25/20 04:08	4
Acetone	ND		40		ug/L			05/25/20 04:08	4
Benzene	ND		2.0		ug/L			05/25/20 04:08	4
Bromobenzene	ND		2.0		ug/L			05/25/20 04:08	4
Bromochloromethane	ND		4.0		ug/L			05/25/20 04:08	4
Bromodichloromethane	ND		2.0		ug/L			05/25/20 04:08	4
Bromoform	ND		2.0		ug/L			05/25/20 04:08	4
Bromomethane	ND	F1	8.0		ug/L			05/25/20 04:08	4
cis-1,2-Dichloroethene	ND		2.0		ug/L			05/25/20 04:08	4
cis-1,3-Dichloropropene	ND		2.0		ug/L			05/25/20 04:08	4
Carbon disulfide	ND		40		ug/L			05/25/20 04:08	4
Carbon tetrachloride	ND		2.0		ug/L			05/25/20 04:08	4
Chlorobenzene	ND		2.0		ug/L			05/25/20 04:08	4
Chloroethane	ND		2.0		ug/L			05/25/20 04:08	4
Chloroform	ND		2.0		ug/L			05/25/20 04:08	4
Chloromethane	ND		20		ug/L			05/25/20 04:08	4
Dibromochloromethane	ND		2.0		ug/L			05/25/20 04:08	4
Dibromomethane	ND		2.0		ug/L			05/25/20 04:08	4
Dichlorodifluoromethane	ND		4.0		ug/L			05/25/20 04:08	4
Ethylbenzene	ND		2.0		ug/L			05/25/20 04:08	4
Isopropylbenzene	ND		2.0		ug/L			05/25/20 04:08	4
Methylene Chloride	ND		4.0		ug/L			05/25/20 04:08	4
Methyl-t-Butyl Ether (MTBE)	ND		2.0		ug/L			05/25/20 04:08	4
Naphthalene	ND		4.0		ug/L			05/25/20 04:08	4
n-Butylbenzene	ND		2.0		ug/L			05/25/20 04:08	4
N-Propylbenzene	ND		2.0		ug/L			05/25/20 04:08	4
o-Xylene	ND		2.0		ug/L			05/25/20 04:08	4
m,p-Xylene	ND		4.0		ug/L			05/25/20 04:08	4
p-Isopropyltoluene	ND		2.0		ug/L			05/25/20 04:08	4
sec-Butylbenzene	ND		2.0		ug/L			05/25/20 04:08	4
Styrene	ND		2.0		ug/L			05/25/20 04:08	4
trans-1,2-Dichloroethene	ND		2.0		ug/L			05/25/20 04:08	4
trans-1,3-Dichloropropene	ND		2.0		ug/L			05/25/20 04:08	4
tert-Butylbenzene	ND		2.0		ug/L			05/25/20 04:08	4
Tetrachloroethene	ND		2.0		ug/L			05/25/20 04:08	4
Toluene	ND		2.0		ug/L			05/25/20 04:08	4
Trichloroethene	ND		2.0		ug/L			05/25/20 04:08	4
Trichlorofluoromethane	ND		2.0		ug/L			05/25/20 04:08	4
Vinyl acetate	ND		20		ug/L			05/25/20 04:08	4
Vinyl chloride	ND		2.0		ug/L			05/25/20 04:08	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 128*		*05/25/20 04:08*	*4*
4-Bromofluorobenzene (Surr)	*98*		*68 - 120*		*05/25/20 04:08*	*4*
Dibromofluoromethane	*104*		*80 - 127*		*05/25/20 04:08*	*4*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/25/20 04:08*	*4*

Client: Oneida Total Integrated Enterprises LLC
Project/Site: CANOGA PARK 1SA20

Job ID: 570-28918-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: RW-06-201905
Date Collected: 05/19/20 14:17
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/25/20 04:34	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/25/20 04:34	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/25/20 04:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/25/20 04:34	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/25/20 04:34	1
1,1-Dichloroethane	ND		0.50		ug/L			05/25/20 04:34	1
1,1-Dichloroethene	**5.6**		0.50		ug/L			05/25/20 04:34	1
1,1-Dichloropropene	ND		0.50		ug/L			05/25/20 04:34	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/25/20 04:34	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/25/20 04:34	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/25/20 04:34	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/25/20 04:34	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/25/20 04:34	1
1,2-Dibromoethane	ND		0.50		ug/L			05/25/20 04:34	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/25/20 04:34	1
1,2-Dichloroethane	ND		0.50		ug/L			05/25/20 04:34	1
1,2-Dichloropropane	ND		0.50		ug/L			05/25/20 04:34	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/25/20 04:34	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/25/20 04:34	1
1,3-Dichloropropane	ND		1.0		ug/L			05/25/20 04:34	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/25/20 04:34	1
2,2-Dichloropropane	ND		1.0		ug/L			05/25/20 04:34	1
2-Chlorotoluene	ND		0.50		ug/L			05/25/20 04:34	1
2-Hexanone	ND		10		ug/L			05/25/20 04:34	1
4-Chlorotoluene	ND		0.50		ug/L			05/25/20 04:34	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/25/20 04:34	1
Acetone	ND		10		ug/L			05/25/20 04:34	1
Benzene	**0.75**		0.50		ug/L			05/25/20 04:34	1
Bromobenzene	ND		0.50		ug/L			05/25/20 04:34	1
Bromochloromethane	ND		1.0		ug/L			05/25/20 04:34	1
Bromodichloromethane	ND		0.50		ug/L			05/25/20 04:34	1
Bromoform	ND		0.50		ug/L			05/25/20 04:34	1
Bromomethane	ND		2.0		ug/L			05/25/20 04:34	1
cis-1,2-Dichloroethene	**1.0**		0.50		ug/L			05/25/20 04:34	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/25/20 04:34	1
Carbon disulfide	ND		10		ug/L			05/25/20 04:34	1
Carbon tetrachloride	ND		0.50		ug/L			05/25/20 04:34	1
Chlorobenzene	ND		0.50		ug/L			05/25/20 04:34	1
Chloroethane	ND		0.50		ug/L			05/25/20 04:34	1
Chloroform	ND		0.50		ug/L			05/25/20 04:34	1
Chloromethane	ND		5.0		ug/L			05/25/20 04:34	1
Dibromochloromethane	ND		0.50		ug/L			05/25/20 04:34	1
Dibromomethane	ND		0.50		ug/L			05/25/20 04:34	1
Dichlorodifluoromethane	ND		1.0		ug/L			05/25/20 04:34	1
Ethylbenzene	ND		0.50		ug/L			05/25/20 04:34	1
Isopropylbenzene	ND		0.50		ug/L			05/25/20 04:34	1
Methylene Chloride	ND		1.0		ug/L			05/25/20 04:34	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			05/25/20 04:34	1
Naphthalene	ND		1.0		ug/L			05/25/20 04:34	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: RW-06-201905
Date Collected: 05/19/20 14:17
Date Received: 05/21/20 17:55
Lab Sample ID: 570-28918-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		0.50		ug/L			05/25/20 04:34	1
N-Propylbenzene	ND		0.50		ug/L			05/25/20 04:34	1
o-Xylene	ND		0.50		ug/L			05/25/20 04:34	1
m,p-Xylene	ND		1.0		ug/L			05/25/20 04:34	1
p-Isopropyltoluene	ND		0.50		ug/L			05/25/20 04:34	1
sec-Butylbenzene	ND		0.50		ug/L			05/25/20 04:34	1
Styrene	ND		0.50		ug/L			05/25/20 04:34	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/25/20 04:34	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/25/20 04:34	1
tert-Butylbenzene	ND		0.50		ug/L			05/25/20 04:34	1
Tetrachloroethene	ND		0.50		ug/L			05/25/20 04:34	1
Toluene	ND		0.50		ug/L			05/25/20 04:34	1
Trichloroethene	**0.52**		0.50		ug/L			05/25/20 04:34	1
Trichlorofluoromethane	ND		0.50		ug/L			05/25/20 04:34	1
Vinyl acetate	ND		5.0		ug/L			05/25/20 04:34	1
Vinyl chloride	ND		0.50		ug/L			05/25/20 04:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 128*		*05/25/20 04:34*	*1*
4-Bromofluorobenzene (Surr)	*81*		*68 - 120*		*05/25/20 04:34*	*1*
Dibromofluoromethane	*101*		*80 - 127*		*05/25/20 04:34*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/25/20 04:34*	*1*

Client Sample ID: RW-16-201905
Date Collected: 05/19/20 15:49
Date Received: 05/21/20 17:55
Lab Sample ID: 570-28918-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/25/20 05:01	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/29/20 16:12	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/25/20 05:01	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/29/20 16:12	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/25/20 05:01	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/29/20 16:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/25/20 05:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	0.50		ug/L			05/29/20 16:12	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/25/20 05:01	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/29/20 16:12	1
1,1-Dichloroethane	ND		0.50		ug/L			05/25/20 05:01	1
1,1-Dichloroethane	ND		0.50		ug/L			05/29/20 16:12	1
1,1-Dichloroethene	**1.0**		0.50		ug/L			05/25/20 05:01	1
1,1-Dichloroethene	**3.8**	*	0.50		ug/L			05/29/20 16:12	1
1,1-Dichloropropene	ND		0.50		ug/L			05/25/20 05:01	1
1,1-Dichloropropene	ND		0.50		ug/L			05/29/20 16:12	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/25/20 05:01	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/29/20 16:12	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/25/20 05:01	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/29/20 16:12	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/25/20 05:01	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/29/20 16:12	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/25/20 05:01	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: RW-16-201905
Date Collected: 05/19/20 15:49
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/29/20 16:12	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/25/20 05:01	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/29/20 16:12	1
1,2-Dibromoethane	ND		0.50		ug/L			05/25/20 05:01	1
1,2-Dibromoethane	ND		0.50		ug/L			05/29/20 16:12	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/25/20 05:01	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/29/20 16:12	1
1,2-Dichloroethane	ND		0.50		ug/L			05/25/20 05:01	1
1,2-Dichloroethane	ND		0.50		ug/L			05/29/20 16:12	1
1,2-Dichloropropane	ND		0.50		ug/L			05/25/20 05:01	1
1,2-Dichloropropane	ND		0.50		ug/L			05/29/20 16:12	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/25/20 05:01	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/29/20 16:12	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/25/20 05:01	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/29/20 16:12	1
1,3-Dichloropropane	ND		1.0		ug/L			05/25/20 05:01	1
1,3-Dichloropropane	ND		1.0		ug/L			05/29/20 16:12	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/25/20 05:01	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/29/20 16:12	1
2,2-Dichloropropane	ND		1.0		ug/L			05/25/20 05:01	1
2,2-Dichloropropane	ND		1.0		ug/L			05/29/20 16:12	1
2-Butanone	ND		5.0		ug/L			05/25/20 05:01	1
2-Butanone	ND		5.0		ug/L			05/29/20 16:12	1
2-Chlorotoluene	ND		0.50		ug/L			05/25/20 05:01	1
2-Chlorotoluene	ND		0.50		ug/L			05/29/20 16:12	1
2-Hexanone	ND		10		ug/L			05/25/20 05:01	1
2-Hexanone	ND		10		ug/L			05/29/20 16:12	1
4-Chlorotoluene	ND		0.50		ug/L			05/25/20 05:01	1
4-Chlorotoluene	ND		0.50		ug/L			05/29/20 16:12	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/25/20 05:01	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/29/20 16:12	1
Acetone	ND		10		ug/L			05/25/20 05:01	1
Acetone	ND		10		ug/L			05/29/20 16:12	1
Benzene	ND		0.50		ug/L			05/25/20 05:01	1
Benzene	ND		0.50		ug/L			05/29/20 16:12	1
Bromobenzene	ND		0.50		ug/L			05/25/20 05:01	1
Bromobenzene	ND		0.50		ug/L			05/29/20 16:12	1
Bromochloromethane	ND		1.0		ug/L			05/25/20 05:01	1
Bromochloromethane	ND		1.0		ug/L			05/29/20 16:12	1
Bromodichloromethane	ND		0.50		ug/L			05/25/20 05:01	1
Bromodichloromethane	ND		0.50		ug/L			05/29/20 16:12	1
Bromoform	ND		0.50		ug/L			05/25/20 05:01	1
Bromoform	ND		0.50		ug/L			05/29/20 16:12	1
Bromomethane	ND		2.0		ug/L			05/25/20 05:01	1
Bromomethane	ND		2.0		ug/L			05/29/20 16:12	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/25/20 05:01	1
cis-1,2-Dichloroethene	**12**		0.50		ug/L			05/29/20 16:12	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/25/20 05:01	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/29/20 16:12	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: RW-16-201905
Date Collected: 05/19/20 15:49
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			05/25/20 05:01	1
Carbon disulfide	ND		10		ug/L			05/29/20 16:12	1
Carbon tetrachloride	ND		0.50		ug/L			05/25/20 05:01	1
Carbon tetrachloride	ND		0.50		ug/L			05/29/20 16:12	1
Chlorobenzene	ND		0.50		ug/L			05/25/20 05:01	1
Chlorobenzene	ND		0.50		ug/L			05/29/20 16:12	1
Chloroethane	ND		0.50		ug/L			05/25/20 05:01	1
Chloroethane	ND		0.50		ug/L			05/29/20 16:12	1
Chloroform	ND		0.50		ug/L			05/25/20 05:01	1
Chloroform	ND		0.50		ug/L			05/29/20 16:12	1
Chloromethane	ND		5.0		ug/L			05/25/20 05:01	1
Chloromethane	ND		5.0		ug/L			05/29/20 16:12	1
Dibromochloromethane	ND		0.50		ug/L			05/25/20 05:01	1
Dibromochloromethane	ND		0.50		ug/L			05/29/20 16:12	1
Dibromomethane	ND		0.50		ug/L			05/25/20 05:01	1
Dibromomethane	ND		0.50		ug/L			05/29/20 16:12	1
Dichlorodifluoromethane	ND		1.0		ug/L			05/25/20 05:01	1
Dichlorodifluoromethane	ND		1.0		ug/L			05/29/20 16:12	1
Ethylbenzene	ND		0.50		ug/L			05/25/20 05:01	1
Ethylbenzene	ND		0.50		ug/L			05/29/20 16:12	1
Isopropylbenzene	ND		0.50		ug/L			05/25/20 05:01	1
Isopropylbenzene	ND		0.50		ug/L			05/29/20 16:12	1
Methylene Chloride	ND		1.0		ug/L			05/25/20 05:01	1
Methylene Chloride	ND		1.0		ug/L			05/29/20 16:12	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			05/25/20 05:01	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			05/29/20 16:12	1
Naphthalene	ND		1.0		ug/L			05/25/20 05:01	1
Naphthalene	ND		1.0		ug/L			05/29/20 16:12	1
n-Butylbenzene	ND		0.50		ug/L			05/25/20 05:01	1
n-Butylbenzene	ND		0.50		ug/L			05/29/20 16:12	1
N-Propylbenzene	ND		0.50		ug/L			05/25/20 05:01	1
N-Propylbenzene	ND		0.50		ug/L			05/29/20 16:12	1
o-Xylene	ND		0.50		ug/L			05/25/20 05:01	1
o-Xylene	ND		0.50		ug/L			05/29/20 16:12	1
m,p-Xylene	ND		1.0		ug/L			05/25/20 05:01	1
m,p-Xylene	ND		1.0		ug/L			05/29/20 16:12	1
p-Isopropyltoluene	ND		0.50		ug/L			05/25/20 05:01	1
p-Isopropyltoluene	ND		0.50		ug/L			05/29/20 16:12	1
sec-Butylbenzene	ND		0.50		ug/L			05/25/20 05:01	1
sec-Butylbenzene	ND		0.50		ug/L			05/29/20 16:12	1
Styrene	ND		0.50		ug/L			05/25/20 05:01	1
Styrene	ND		0.50		ug/L			05/29/20 16:12	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/25/20 05:01	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/29/20 16:12	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/25/20 05:01	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/29/20 16:12	1
tert-Butylbenzene	ND		0.50		ug/L			05/25/20 05:01	1
tert-Butylbenzene	ND		0.50		ug/L			05/29/20 16:12	1
Tetrachloroethene	ND		0.50		ug/L			05/25/20 05:01	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: RW-16-201905
Date Collected: 05/19/20 15:49
Date Received: 05/21/20 17:55
Lab Sample ID: 570-28918-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		0.50		ug/L			05/29/20 16:12	1
Toluene	ND		0.50		ug/L			05/25/20 05:01	1
Toluene	ND		0.50		ug/L			05/29/20 16:12	1
Trichloroethene	ND		0.50		ug/L			05/25/20 05:01	1
Trichloroethene	ND		0.50		ug/L			05/29/20 16:12	1
Trichlorofluoromethane	ND		0.50		ug/L			05/25/20 05:01	1
Trichlorofluoromethane	ND		0.50		ug/L			05/29/20 16:12	1
Vinyl acetate	ND		5.0		ug/L			05/25/20 05:01	1
Vinyl acetate	ND		5.0		ug/L			05/29/20 16:12	1
Vinyl chloride	**0.70**		0.50		ug/L			05/25/20 05:01	1
Vinyl chloride	**9.3**		0.50		ug/L			05/29/20 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 128*		*05/25/20 05:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 128*		*05/29/20 16:12*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 120*		*05/25/20 05:01*	*1*
4-Bromofluorobenzene (Surr)	*97*		*68 - 120*		*05/29/20 16:12*	*1*
Dibromofluoromethane	*102*		*80 - 127*		*05/25/20 05:01*	*1*
Dibromofluoromethane	*96*		*80 - 127*		*05/29/20 16:12*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/25/20 05:01*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/29/20 16:12*	*1*

Client Sample ID: DUP2-201905
Date Collected: 05/19/20 15:51
Date Received: 05/21/20 17:55
Lab Sample ID: 570-28918-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/24/20 22:16	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/29/20 16:41	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/24/20 22:16	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/29/20 16:41	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/24/20 22:16	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/29/20 16:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/24/20 22:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	0.50		ug/L			05/29/20 16:41	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/24/20 22:16	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/29/20 16:41	1
1,1-Dichloroethane	ND		0.50		ug/L			05/24/20 22:16	1
1,1-Dichloroethane	ND		0.50		ug/L			05/29/20 16:41	1
1,1-Dichloroethene	**4.3**		0.50		ug/L			05/24/20 22:16	1
1,1-Dichloroethene	**4.7**	*	0.50		ug/L			05/29/20 16:41	1
1,1-Dichloropropene	ND		0.50		ug/L			05/24/20 22:16	1
1,1-Dichloropropene	ND		0.50		ug/L			05/29/20 16:41	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/24/20 22:16	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/29/20 16:41	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/24/20 22:16	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/29/20 16:41	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/24/20 22:16	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/29/20 16:41	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/24/20 22:16	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/29/20 16:41	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: DUP2-201905
Date Collected: 05/19/20 15:51
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/24/20 22:16	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/29/20 16:41	1
1,2-Dibromoethane	ND		0.50		ug/L			05/24/20 22:16	1
1,2-Dibromoethane	ND		0.50		ug/L			05/29/20 16:41	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/24/20 22:16	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/29/20 16:41	1
1,2-Dichloroethane	ND		0.50		ug/L			05/24/20 22:16	1
1,2-Dichloroethane	ND		0.50		ug/L			05/29/20 16:41	1
1,2-Dichloropropane	ND		0.50		ug/L			05/24/20 22:16	1
1,2-Dichloropropane	ND		0.50		ug/L			05/29/20 16:41	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/24/20 22:16	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/29/20 16:41	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/24/20 22:16	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/29/20 16:41	1
1,3-Dichloropropane	ND		1.0		ug/L			05/24/20 22:16	1
1,3-Dichloropropane	ND		1.0		ug/L			05/29/20 16:41	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/24/20 22:16	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/29/20 16:41	1
2,2-Dichloropropane	ND		1.0		ug/L			05/24/20 22:16	1
2,2-Dichloropropane	ND		1.0		ug/L			05/29/20 16:41	1
2-Butanone	ND		5.0		ug/L			05/24/20 22:16	1
2-Butanone	ND		5.0		ug/L			05/29/20 16:41	1
2-Chlorotoluene	ND		0.50		ug/L			05/24/20 22:16	1
2-Chlorotoluene	ND		0.50		ug/L			05/29/20 16:41	1
2-Hexanone	ND		10		ug/L			05/24/20 22:16	1
2-Hexanone	ND		10		ug/L			05/29/20 16:41	1
4-Chlorotoluene	ND		0.50		ug/L			05/24/20 22:16	1
4-Chlorotoluene	ND		0.50		ug/L			05/29/20 16:41	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/24/20 22:16	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/29/20 16:41	1
Acetone	ND		10		ug/L			05/24/20 22:16	1
Acetone	ND		10		ug/L			05/29/20 16:41	1
Benzene	ND		0.50		ug/L			05/24/20 22:16	1
Benzene	ND		0.50		ug/L			05/29/20 16:41	1
Bromobenzene	ND		0.50		ug/L			05/24/20 22:16	1
Bromobenzene	ND		0.50		ug/L			05/29/20 16:41	1
Bromochloromethane	ND		1.0		ug/L			05/24/20 22:16	1
Bromochloromethane	ND		1.0		ug/L			05/29/20 16:41	1
Bromodichloromethane	ND		0.50		ug/L			05/24/20 22:16	1
Bromodichloromethane	ND		0.50		ug/L			05/29/20 16:41	1
Bromoform	ND		0.50		ug/L			05/24/20 22:16	1
Bromoform	ND		0.50		ug/L			05/29/20 16:41	1
Bromomethane	ND		2.0		ug/L			05/24/20 22:16	1
Bromomethane	ND		2.0		ug/L			05/29/20 16:41	1
cis-1,2-Dichloroethene	**9.9**		0.50		ug/L			05/24/20 22:16	1
cis-1,2-Dichloroethene	**12**		0.50		ug/L			05/29/20 16:41	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/24/20 22:16	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/29/20 16:41	1
Carbon disulfide	ND		10		ug/L			05/24/20 22:16	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: DUP2-201905
Date Collected: 05/19/20 15:51
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			05/29/20 16:41	1
Carbon tetrachloride	ND		0.50		ug/L			05/24/20 22:16	1
Carbon tetrachloride	ND		0.50		ug/L			05/29/20 16:41	1
Chlorobenzene	ND		0.50		ug/L			05/24/20 22:16	1
Chlorobenzene	ND		0.50		ug/L			05/29/20 16:41	1
Chloroethane	ND		0.50		ug/L			05/24/20 22:16	1
Chloroethane	ND		0.50		ug/L			05/29/20 16:41	1
Chloroform	ND		0.50		ug/L			05/24/20 22:16	1
Chloroform	ND		0.50		ug/L			05/29/20 16:41	1
Chloromethane	ND		5.0		ug/L			05/24/20 22:16	1
Chloromethane	ND		5.0		ug/L			05/29/20 16:41	1
Dibromochloromethane	ND		0.50		ug/L			05/24/20 22:16	1
Dibromochloromethane	ND		0.50		ug/L			05/29/20 16:41	1
Dibromomethane	ND		0.50		ug/L			05/24/20 22:16	1
Dibromomethane	ND		0.50		ug/L			05/29/20 16:41	1
Dichlorodifluoromethane	ND		1.0		ug/L			05/24/20 22:16	1
Dichlorodifluoromethane	ND		1.0		ug/L			05/29/20 16:41	1
Ethylbenzene	ND		0.50		ug/L			05/24/20 22:16	1
Ethylbenzene	ND		0.50		ug/L			05/29/20 16:41	1
Isopropylbenzene	ND		0.50		ug/L			05/24/20 22:16	1
Isopropylbenzene	ND		0.50		ug/L			05/29/20 16:41	1
Methylene Chloride	ND		1.0		ug/L			05/24/20 22:16	1
Methylene Chloride	ND		1.0		ug/L			05/29/20 16:41	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			05/24/20 22:16	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			05/29/20 16:41	1
Naphthalene	ND		1.0		ug/L			05/24/20 22:16	1
Naphthalene	ND		1.0		ug/L			05/29/20 16:41	1
n-Butylbenzene	ND		0.50		ug/L			05/24/20 22:16	1
n-Butylbenzene	ND		0.50		ug/L			05/29/20 16:41	1
N-Propylbenzene	ND		0.50		ug/L			05/24/20 22:16	1
N-Propylbenzene	ND		0.50		ug/L			05/29/20 16:41	1
o-Xylene	ND		0.50		ug/L			05/24/20 22:16	1
o-Xylene	ND		0.50		ug/L			05/29/20 16:41	1
m,p-Xylene	ND		1.0		ug/L			05/24/20 22:16	1
m,p-Xylene	ND		1.0		ug/L			05/29/20 16:41	1
p-Isopropyltoluene	ND		0.50		ug/L			05/24/20 22:16	1
p-Isopropyltoluene	ND		0.50		ug/L			05/29/20 16:41	1
sec-Butylbenzene	ND		0.50		ug/L			05/24/20 22:16	1
sec-Butylbenzene	ND		0.50		ug/L			05/29/20 16:41	1
Styrene	ND		0.50		ug/L			05/24/20 22:16	1
Styrene	ND		0.50		ug/L			05/29/20 16:41	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/24/20 22:16	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/29/20 16:41	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/24/20 22:16	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/29/20 16:41	1
tert-Butylbenzene	ND		0.50		ug/L			05/24/20 22:16	1
tert-Butylbenzene	ND		0.50		ug/L			05/29/20 16:41	1
Tetrachloroethene	ND		0.50		ug/L			05/24/20 22:16	1
Tetrachloroethene	ND		0.50		ug/L			05/29/20 16:41	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: DUP2-201905
Date Collected: 05/19/20 15:51
Date Received: 05/21/20 17:55
Lab Sample ID: 570-28918-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.50		ug/L			05/24/20 22:16	1
Toluene	ND		0.50		ug/L			05/29/20 16:41	1
Trichloroethene	ND		0.50		ug/L			05/24/20 22:16	1
Trichloroethene	ND		0.50		ug/L			05/29/20 16:41	1
Trichlorofluoromethane	ND		0.50		ug/L			05/24/20 22:16	1
Trichlorofluoromethane	ND		0.50		ug/L			05/29/20 16:41	1
Vinyl acetate	ND		5.0		ug/L			05/24/20 22:16	1
Vinyl acetate	ND		5.0		ug/L			05/29/20 16:41	1
Vinyl chloride	**8.2**		0.50		ug/L			05/24/20 22:16	1
Vinyl chloride	**9.3**		0.50		ug/L			05/29/20 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*80 - 128*		*05/24/20 22:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 128*		*05/29/20 16:41*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 120*		*05/24/20 22:16*	*1*
4-Bromofluorobenzene (Surr)	*99*		*68 - 120*		*05/29/20 16:41*	*1*
Dibromofluoromethane	*103*		*80 - 127*		*05/24/20 22:16*	*1*
Dibromofluoromethane	*98*		*80 - 127*		*05/29/20 16:41*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/24/20 22:16*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/29/20 16:41*	*1*

Client Sample ID: RW-04-202005
Date Collected: 05/20/20 08:38
Date Received: 05/21/20 17:55
Lab Sample ID: 570-28918-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/24/20 22:45	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/24/20 22:45	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/24/20 22:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/24/20 22:45	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/24/20 22:45	1
1,1-Dichloroethane	**0.58**		0.50		ug/L			05/24/20 22:45	1
1,1-Dichloroethene	ND		0.50		ug/L			05/24/20 22:45	1
1,1-Dichloropropene	ND		0.50		ug/L			05/24/20 22:45	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/24/20 22:45	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/24/20 22:45	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/24/20 22:45	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/24/20 22:45	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/24/20 22:45	1
1,2-Dibromoethane	ND		0.50		ug/L			05/24/20 22:45	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/24/20 22:45	1
1,2-Dichloroethane	ND		0.50		ug/L			05/24/20 22:45	1
1,2-Dichloropropane	ND		0.50		ug/L			05/24/20 22:45	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/24/20 22:45	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/24/20 22:45	1
1,3-Dichloropropane	ND		1.0		ug/L			05/24/20 22:45	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/24/20 22:45	1
2,2-Dichloropropane	ND		1.0		ug/L			05/24/20 22:45	1
2-Butanone	ND		5.0		ug/L			05/24/20 22:45	1
2-Chlorotoluene	ND		0.50		ug/L			05/24/20 22:45	1
2-Hexanone	ND		10		ug/L			05/24/20 22:45	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: RW-04-202005
Date Collected: 05/20/20 08:38
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		0.50		ug/L			05/24/20 22:45	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/24/20 22:45	1
Acetone	ND		10		ug/L			05/24/20 22:45	1
Benzene	ND		0.50		ug/L			05/24/20 22:45	1
Bromobenzene	ND		0.50		ug/L			05/24/20 22:45	1
Bromochloromethane	ND		1.0		ug/L			05/24/20 22:45	1
Bromodichloromethane	ND		0.50		ug/L			05/24/20 22:45	1
Bromoform	ND		0.50		ug/L			05/24/20 22:45	1
Bromomethane	ND		2.0		ug/L			05/24/20 22:45	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/24/20 22:45	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/24/20 22:45	1
Carbon disulfide	ND		10		ug/L			05/24/20 22:45	1
Carbon tetrachloride	ND		0.50		ug/L			05/24/20 22:45	1
Chlorobenzene	ND		0.50		ug/L			05/24/20 22:45	1
Chloroethane	ND		0.50		ug/L			05/24/20 22:45	1
Chloroform	ND		0.50		ug/L			05/24/20 22:45	1
Chloromethane	ND		5.0		ug/L			05/24/20 22:45	1
Dibromochloromethane	ND		0.50		ug/L			05/24/20 22:45	1
Dibromomethane	ND		0.50		ug/L			05/24/20 22:45	1
Dichlorodifluoromethane	ND		1.0		ug/L			05/24/20 22:45	1
Ethylbenzene	ND		0.50		ug/L			05/24/20 22:45	1
Isopropylbenzene	ND		0.50		ug/L			05/24/20 22:45	1
Methylene Chloride	ND		1.0		ug/L			05/24/20 22:45	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			05/24/20 22:45	1
Naphthalene	ND		1.0		ug/L			05/24/20 22:45	1
n-Butylbenzene	ND		0.50		ug/L			05/24/20 22:45	1
N-Propylbenzene	ND		0.50		ug/L			05/24/20 22:45	1
o-Xylene	ND		0.50		ug/L			05/24/20 22:45	1
m,p-Xylene	ND		1.0		ug/L			05/24/20 22:45	1
p-Isopropyltoluene	ND		0.50		ug/L			05/24/20 22:45	1
sec-Butylbenzene	ND		0.50		ug/L			05/24/20 22:45	1
Styrene	ND		0.50		ug/L			05/24/20 22:45	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/24/20 22:45	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/24/20 22:45	1
tert-Butylbenzene	ND		0.50		ug/L			05/24/20 22:45	1
Tetrachloroethene	ND		0.50		ug/L			05/24/20 22:45	1
Toluene	ND		0.50		ug/L			05/24/20 22:45	1
Trichloroethene	ND		0.50		ug/L			05/24/20 22:45	1
Trichlorofluoromethane	ND		0.50		ug/L			05/24/20 22:45	1
Vinyl acetate	ND		5.0		ug/L			05/24/20 22:45	1
Vinyl chloride	**2.0**		0.50		ug/L			05/24/20 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 128*		*05/24/20 22:45*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 120*		*05/24/20 22:45*	*1*
Dibromofluoromethane	*100*		*80 - 127*		*05/24/20 22:45*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/24/20 22:45*	*1*

Client: Oneida Total Integrated Enterprises LLC
Project/Site: CANOGA PARK 1SA20

Job ID: 570-28918-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: RW-10-202005
Date Collected: 05/20/20 09:23
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/24/20 23:14	2
1,1,1-Trichloroethane	ND		1.0		ug/L			05/24/20 23:14	2
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/24/20 23:14	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			05/24/20 23:14	2
1,1,2-Trichloroethane	ND		1.0		ug/L			05/24/20 23:14	2
1,1-Dichloroethane	**1.5**		1.0		ug/L			05/24/20 23:14	2
1,1-Dichloroethene	**45**		1.0		ug/L			05/24/20 23:14	2
1,1-Dichloropropene	ND		1.0		ug/L			05/24/20 23:14	2
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/24/20 23:14	2
1,2,3-Trichloropropane	ND		2.0		ug/L			05/24/20 23:14	2
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/24/20 23:14	2
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/24/20 23:14	2
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			05/24/20 23:14	2
1,2-Dibromoethane	ND		1.0		ug/L			05/24/20 23:14	2
1,2-Dichlorobenzene	ND		1.0		ug/L			05/24/20 23:14	2
1,2-Dichloroethane	ND		1.0		ug/L			05/24/20 23:14	2
1,2-Dichloropropane	ND		1.0		ug/L			05/24/20 23:14	2
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/24/20 23:14	2
1,3-Dichlorobenzene	ND		1.0		ug/L			05/24/20 23:14	2
1,3-Dichloropropane	ND		2.0		ug/L			05/24/20 23:14	2
1,4-Dichlorobenzene	ND		1.0		ug/L			05/24/20 23:14	2
2,2-Dichloropropane	ND		2.0		ug/L			05/24/20 23:14	2
2-Butanone	ND		10		ug/L			05/24/20 23:14	2
2-Chlorotoluene	ND		1.0		ug/L			05/24/20 23:14	2
2-Hexanone	ND		20		ug/L			05/24/20 23:14	2
4-Chlorotoluene	ND		1.0		ug/L			05/24/20 23:14	2
4-Methyl-2-pentanone	ND		10		ug/L			05/24/20 23:14	2
Acetone	ND		20		ug/L			05/24/20 23:14	2
Benzene	ND		1.0		ug/L			05/24/20 23:14	2
Bromobenzene	ND		1.0		ug/L			05/24/20 23:14	2
Bromochloromethane	ND		2.0		ug/L			05/24/20 23:14	2
Bromodichloromethane	ND		1.0		ug/L			05/24/20 23:14	2
Bromoform	ND		1.0		ug/L			05/24/20 23:14	2
Bromomethane	ND		4.0		ug/L			05/24/20 23:14	2
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/24/20 23:14	2
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/24/20 23:14	2
Carbon disulfide	ND		20		ug/L			05/24/20 23:14	2
Carbon tetrachloride	ND		1.0		ug/L			05/24/20 23:14	2
Chlorobenzene	ND		1.0		ug/L			05/24/20 23:14	2
Chloroethane	ND		1.0		ug/L			05/24/20 23:14	2
Chloroform	ND		1.0		ug/L			05/24/20 23:14	2
Chloromethane	ND		10		ug/L			05/24/20 23:14	2
Dibromochloromethane	ND		1.0		ug/L			05/24/20 23:14	2
Dibromomethane	ND		1.0		ug/L			05/24/20 23:14	2
Dichlorodifluoromethane	ND		2.0		ug/L			05/24/20 23:14	2
Ethylbenzene	ND		1.0		ug/L			05/24/20 23:14	2
Isopropylbenzene	ND		1.0		ug/L			05/24/20 23:14	2
Methylene Chloride	ND		2.0		ug/L			05/24/20 23:14	2
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			05/24/20 23:14	2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: RW-10-202005
Date Collected: 05/20/20 09:23
Date Received: 05/21/20 17:55
Lab Sample ID: 570-28918-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0		ug/L			05/24/20 23:14	2
n-Butylbenzene	ND		1.0		ug/L			05/24/20 23:14	2
N-Propylbenzene	ND		1.0		ug/L			05/24/20 23:14	2
o-Xylene	ND		1.0		ug/L			05/24/20 23:14	2
m,p-Xylene	ND		2.0		ug/L			05/24/20 23:14	2
p-Isopropyltoluene	ND		1.0		ug/L			05/24/20 23:14	2
sec-Butylbenzene	ND		1.0		ug/L			05/24/20 23:14	2
Styrene	ND		1.0		ug/L			05/24/20 23:14	2
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/24/20 23:14	2
trans-1,3-Dichloropropene	ND		1.0		ug/L			05/24/20 23:14	2
tert-Butylbenzene	ND		1.0		ug/L			05/24/20 23:14	2
Tetrachloroethene	ND		1.0		ug/L			05/24/20 23:14	2
Toluene	ND		1.0		ug/L			05/24/20 23:14	2
Trichloroethene	ND		1.0		ug/L			05/24/20 23:14	2
Trichlorofluoromethane	ND		1.0		ug/L			05/24/20 23:14	2
Vinyl acetate	ND		10		ug/L			05/24/20 23:14	2
Vinyl chloride	**20**		1.0		ug/L			05/24/20 23:14	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 128*		*05/24/20 23:14*	*2*
4-Bromofluorobenzene (Surr)	*95*		*68 - 120*		*05/24/20 23:14*	*2*
Dibromofluoromethane	*103*		*80 - 127*		*05/24/20 23:14*	*2*
Toluene-d8 (Surr)	*102*		*80 - 120*		*05/24/20 23:14*	*2*

Client Sample ID: MW-39-202005
Date Collected: 05/20/20 09:46
Date Received: 05/21/20 17:55
Lab Sample ID: 570-28918-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/24/20 23:43	2
1,1,1-Trichloroethane	ND		1.0		ug/L			05/24/20 23:43	2
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/24/20 23:43	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			05/24/20 23:43	2
1,1,2-Trichloroethane	ND		1.0		ug/L			05/24/20 23:43	2
1,1-Dichloroethane	ND		1.0		ug/L			05/24/20 23:43	2
1,1-Dichloroethene	**7.6**		1.0		ug/L			05/24/20 23:43	2
1,1-Dichloropropene	ND		1.0		ug/L			05/24/20 23:43	2
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/24/20 23:43	2
1,2,3-Trichloropropane	ND		2.0		ug/L			05/24/20 23:43	2
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/24/20 23:43	2
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/24/20 23:43	2
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			05/24/20 23:43	2
1,2-Dibromoethane	ND		1.0		ug/L			05/24/20 23:43	2
1,2-Dichlorobenzene	ND		1.0		ug/L			05/24/20 23:43	2
1,2-Dichloroethane	ND		1.0		ug/L			05/24/20 23:43	2
1,2-Dichloropropane	ND		1.0		ug/L			05/24/20 23:43	2
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/24/20 23:43	2
1,3-Dichlorobenzene	ND		1.0		ug/L			05/24/20 23:43	2
1,3-Dichloropropane	ND		2.0		ug/L			05/24/20 23:43	2
1,4-Dichlorobenzene	ND		1.0		ug/L			05/24/20 23:43	2
2,2-Dichloropropane	ND		2.0		ug/L			05/24/20 23:43	2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-39-202005
Date Collected: 05/20/20 09:46
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		10		ug/L			05/24/20 23:43	2
2-Chlorotoluene	ND		1.0		ug/L			05/24/20 23:43	2
2-Hexanone	ND		20		ug/L			05/24/20 23:43	2
4-Chlorotoluene	ND		1.0		ug/L			05/24/20 23:43	2
4-Methyl-2-pentanone	ND		10		ug/L			05/24/20 23:43	2
Acetone	ND		20		ug/L			05/24/20 23:43	2
Benzene	ND		1.0		ug/L			05/24/20 23:43	2
Bromobenzene	ND		1.0		ug/L			05/24/20 23:43	2
Bromochloromethane	ND		2.0		ug/L			05/24/20 23:43	2
Bromodichloromethane	ND		1.0		ug/L			05/24/20 23:43	2
Bromoform	ND		1.0		ug/L			05/24/20 23:43	2
Bromomethane	ND		4.0		ug/L			05/24/20 23:43	2
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/24/20 23:43	2
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/24/20 23:43	2
Carbon disulfide	ND		20		ug/L			05/24/20 23:43	2
Carbon tetrachloride	ND		1.0		ug/L			05/24/20 23:43	2
Chlorobenzene	ND		1.0		ug/L			05/24/20 23:43	2
Chloroethane	ND		1.0		ug/L			05/24/20 23:43	2
Chloroform	ND		1.0		ug/L			05/24/20 23:43	2
Chloromethane	ND		10		ug/L			05/24/20 23:43	2
Dibromochloromethane	ND		1.0		ug/L			05/24/20 23:43	2
Dibromomethane	ND		1.0		ug/L			05/24/20 23:43	2
Dichlorodifluoromethane	ND		2.0		ug/L			05/24/20 23:43	2
Ethylbenzene	ND		1.0		ug/L			05/24/20 23:43	2
Isopropylbenzene	ND		1.0		ug/L			05/24/20 23:43	2
Methylene Chloride	ND		2.0		ug/L			05/24/20 23:43	2
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			05/24/20 23:43	2
Naphthalene	ND		2.0		ug/L			05/24/20 23:43	2
n-Butylbenzene	ND		1.0		ug/L			05/24/20 23:43	2
N-Propylbenzene	ND		1.0		ug/L			05/24/20 23:43	2
o-Xylene	ND		1.0		ug/L			05/24/20 23:43	2
m,p-Xylene	ND		2.0		ug/L			05/24/20 23:43	2
p-Isopropyltoluene	ND		1.0		ug/L			05/24/20 23:43	2
sec-Butylbenzene	ND		1.0		ug/L			05/24/20 23:43	2
Styrene	ND		1.0		ug/L			05/24/20 23:43	2
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/24/20 23:43	2
trans-1,3-Dichloropropene	ND		1.0		ug/L			05/24/20 23:43	2
tert-Butylbenzene	ND		1.0		ug/L			05/24/20 23:43	2
Tetrachloroethene	ND		1.0		ug/L			05/24/20 23:43	2
Toluene	ND		1.0		ug/L			05/24/20 23:43	2
Trichloroethene	ND		1.0		ug/L			05/24/20 23:43	2
Trichlorofluoromethane	ND		1.0		ug/L			05/24/20 23:43	2
Vinyl acetate	ND		10		ug/L			05/24/20 23:43	2
Vinyl chloride	**32**		1.0		ug/L			05/24/20 23:43	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 128*		*05/24/20 23:43*	*2*
4-Bromofluorobenzene (Surr)	*96*		*68 - 120*		*05/24/20 23:43*	*2*
Dibromofluoromethane	*100*		*80 - 127*		*05/24/20 23:43*	*2*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/24/20 23:43*	*2*

Client: Oneida Total Integrated Enterprises LLC
Project/Site: CANOGA PARK 1SA20

Job ID: 570-28918-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: RW-09-202005
Date Collected: 05/20/20 10:34
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/25/20 00:12	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/25/20 00:12	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/25/20 00:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/25/20 00:12	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/25/20 00:12	1
1,1-Dichloroethane	ND		0.50		ug/L			05/25/20 00:12	1
1,1-Dichloroethene	ND		0.50		ug/L			05/25/20 00:12	1
1,1-Dichloropropene	ND		0.50		ug/L			05/25/20 00:12	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/25/20 00:12	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/25/20 00:12	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/25/20 00:12	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/25/20 00:12	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/25/20 00:12	1
1,2-Dibromoethane	ND		0.50		ug/L			05/25/20 00:12	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/25/20 00:12	1
1,2-Dichloroethane	ND		0.50		ug/L			05/25/20 00:12	1
1,2-Dichloropropane	ND		0.50		ug/L			05/25/20 00:12	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/25/20 00:12	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/25/20 00:12	1
1,3-Dichloropropane	ND		1.0		ug/L			05/25/20 00:12	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/25/20 00:12	1
2,2-Dichloropropane	ND		1.0		ug/L			05/25/20 00:12	1
2-Butanone	ND		5.0		ug/L			05/25/20 00:12	1
2-Chlorotoluene	ND		0.50		ug/L			05/25/20 00:12	1
2-Hexanone	ND		10		ug/L			05/25/20 00:12	1
4-Chlorotoluene	ND		0.50		ug/L			05/25/20 00:12	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/25/20 00:12	1
Acetone	ND		10		ug/L			05/25/20 00:12	1
Benzene	ND		0.50		ug/L			05/25/20 00:12	1
Bromobenzene	ND		0.50		ug/L			05/25/20 00:12	1
Bromochloromethane	ND		1.0		ug/L			05/25/20 00:12	1
Bromodichloromethane	ND		0.50		ug/L			05/25/20 00:12	1
Bromoform	ND		0.50		ug/L			05/25/20 00:12	1
Bromomethane	ND		2.0		ug/L			05/25/20 00:12	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/25/20 00:12	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/25/20 00:12	1
Carbon disulfide	ND		10		ug/L			05/25/20 00:12	1
Carbon tetrachloride	ND		0.50		ug/L			05/25/20 00:12	1
Chlorobenzene	ND		0.50		ug/L			05/25/20 00:12	1
Chloroethane	ND		0.50		ug/L			05/25/20 00:12	1
Chloroform	ND		0.50		ug/L			05/25/20 00:12	1
Chloromethane	ND		5.0		ug/L			05/25/20 00:12	1
Dibromochloromethane	ND		0.50		ug/L			05/25/20 00:12	1
Dibromomethane	ND		0.50		ug/L			05/25/20 00:12	1
Dichlorodifluoromethane	ND		1.0		ug/L			05/25/20 00:12	1
Ethylbenzene	ND		0.50		ug/L			05/25/20 00:12	1
Isopropylbenzene	ND		0.50		ug/L			05/25/20 00:12	1
Methylene Chloride	ND		1.0		ug/L			05/25/20 00:12	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			05/25/20 00:12	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: RW-09-202005
Date Collected: 05/20/20 10:34
Date Received: 05/21/20 17:55
Lab Sample ID: 570-28918-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			05/25/20 00:12	1
n-Butylbenzene	ND		0.50		ug/L			05/25/20 00:12	1
N-Propylbenzene	ND		0.50		ug/L			05/25/20 00:12	1
o-Xylene	ND		0.50		ug/L			05/25/20 00:12	1
m,p-Xylene	ND		1.0		ug/L			05/25/20 00:12	1
p-Isopropyltoluene	ND		0.50		ug/L			05/25/20 00:12	1
sec-Butylbenzene	ND		0.50		ug/L			05/25/20 00:12	1
Styrene	ND		0.50		ug/L			05/25/20 00:12	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/25/20 00:12	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/25/20 00:12	1
tert-Butylbenzene	ND		0.50		ug/L			05/25/20 00:12	1
Tetrachloroethene	ND		0.50		ug/L			05/25/20 00:12	1
Toluene	ND		0.50		ug/L			05/25/20 00:12	1
Trichloroethene	ND		0.50		ug/L			05/25/20 00:12	1
Trichlorofluoromethane	ND		0.50		ug/L			05/25/20 00:12	1
Vinyl acetate	ND		5.0		ug/L			05/25/20 00:12	1
Vinyl chloride	ND		0.50		ug/L			05/25/20 00:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 128*		*05/25/20 00:12*	*1*
4-Bromofluorobenzene (Surr)	*99*		*68 - 120*		*05/25/20 00:12*	*1*
Dibromofluoromethane	*102*		*80 - 127*		*05/25/20 00:12*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/25/20 00:12*	*1*

Client Sample ID: MW-20S-202005
Date Collected: 05/20/20 11:30
Date Received: 05/21/20 17:55
Lab Sample ID: 570-28918-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			05/27/20 01:41	4
1,1,1-Trichloroethane	ND		2.0		ug/L			05/27/20 01:41	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			05/27/20 01:41	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0		ug/L			05/27/20 01:41	4
1,1,2-Trichloroethane	ND		2.0		ug/L			05/27/20 01:41	4
1,1-Dichloroethane	ND		2.0		ug/L			05/27/20 01:41	4
1,1-Dichloroethene	ND		2.0		ug/L			05/27/20 01:41	4
1,1-Dichloropropene	ND		2.0		ug/L			05/27/20 01:41	4
1,2,3-Trichlorobenzene	ND		2.0		ug/L			05/27/20 01:41	4
1,2,3-Trichloropropane	ND		4.0		ug/L			05/27/20 01:41	4
1,2,4-Trichlorobenzene	ND		2.0		ug/L			05/27/20 01:41	4
1,2,4-Trimethylbenzene	ND		2.0		ug/L			05/27/20 01:41	4
1,2-Dibromo-3-Chloropropane	ND		20		ug/L			05/27/20 01:41	4
1,2-Dibromoethane	ND		2.0		ug/L			05/27/20 01:41	4
1,2-Dichlorobenzene	ND		2.0		ug/L			05/27/20 01:41	4
1,2-Dichloroethane	ND		2.0		ug/L			05/27/20 01:41	4
1,2-Dichloropropane	ND		2.0		ug/L			05/27/20 01:41	4
1,3,5-Trimethylbenzene	ND		2.0		ug/L			05/27/20 01:41	4
1,3-Dichlorobenzene	ND		2.0		ug/L			05/27/20 01:41	4
1,3-Dichloropropane	ND		4.0		ug/L			05/27/20 01:41	4
1,4-Dichlorobenzene	ND		2.0		ug/L			05/27/20 01:41	4
2,2-Dichloropropane	ND		4.0		ug/L			05/27/20 01:41	4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-20S-202005
Date Collected: 05/20/20 11:30
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		20		ug/L			05/27/20 01:41	4
2-Chlorotoluene	ND		2.0		ug/L			05/27/20 01:41	4
2-Hexanone	ND		40		ug/L			05/27/20 01:41	4
4-Chlorotoluene	ND		2.0		ug/L			05/27/20 01:41	4
4-Methyl-2-pentanone	ND		20		ug/L			05/27/20 01:41	4
Acetone	ND		40		ug/L			05/27/20 01:41	4
Benzene	ND		2.0		ug/L			05/27/20 01:41	4
Bromobenzene	ND		2.0		ug/L			05/27/20 01:41	4
Bromochloromethane	ND		4.0		ug/L			05/27/20 01:41	4
Bromodichloromethane	ND		2.0		ug/L			05/27/20 01:41	4
Bromoform	ND		2.0		ug/L			05/27/20 01:41	4
Bromomethane	ND		8.0		ug/L			05/27/20 01:41	4
cis-1,2-Dichloroethene	ND		2.0		ug/L			05/27/20 01:41	4
cis-1,3-Dichloropropene	ND		2.0		ug/L			05/27/20 01:41	4
Carbon disulfide	ND		40		ug/L			05/27/20 01:41	4
Carbon tetrachloride	ND		2.0		ug/L			05/27/20 01:41	4
Chlorobenzene	ND		2.0		ug/L			05/27/20 01:41	4
Chloroethane	ND		2.0		ug/L			05/27/20 01:41	4
Chloroform	ND		2.0		ug/L			05/27/20 01:41	4
Chloromethane	ND		20		ug/L			05/27/20 01:41	4
Dibromochloromethane	ND		2.0		ug/L			05/27/20 01:41	4
Dibromomethane	ND		2.0		ug/L			05/27/20 01:41	4
Dichlorodifluoromethane	ND		4.0		ug/L			05/27/20 01:41	4
Ethylbenzene	ND		2.0		ug/L			05/27/20 01:41	4
Isopropylbenzene	ND		2.0		ug/L			05/27/20 01:41	4
Methylene Chloride	ND		4.0		ug/L			05/27/20 01:41	4
Methyl-t-Butyl Ether (MTBE)	ND		2.0		ug/L			05/27/20 01:41	4
Naphthalene	ND		4.0		ug/L			05/27/20 01:41	4
n-Butylbenzene	ND		2.0		ug/L			05/27/20 01:41	4
N-Propylbenzene	ND		2.0		ug/L			05/27/20 01:41	4
o-Xylene	ND		2.0		ug/L			05/27/20 01:41	4
m,p-Xylene	ND		4.0		ug/L			05/27/20 01:41	4
p-Isopropyltoluene	ND		2.0		ug/L			05/27/20 01:41	4
sec-Butylbenzene	ND		2.0		ug/L			05/27/20 01:41	4
Styrene	ND		2.0		ug/L			05/27/20 01:41	4
trans-1,2-Dichloroethene	ND		2.0		ug/L			05/27/20 01:41	4
trans-1,3-Dichloropropene	ND		2.0		ug/L			05/27/20 01:41	4
tert-Butylbenzene	ND		2.0		ug/L			05/27/20 01:41	4
Tetrachloroethene	ND		2.0		ug/L			05/27/20 01:41	4
Toluene	ND		2.0		ug/L			05/27/20 01:41	4
Trichloroethene	ND		2.0		ug/L			05/27/20 01:41	4
Trichlorofluoromethane	ND		2.0		ug/L			05/27/20 01:41	4
Vinyl acetate	ND		20		ug/L			05/27/20 01:41	4
Vinyl chloride	ND		2.0		ug/L			05/27/20 01:41	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 128*		*05/27/20 01:41*	*4*
4-Bromofluorobenzene (Surr)	*95*		*68 - 120*		*05/27/20 01:41*	*4*
Dibromofluoromethane	*97*		*80 - 127*		*05/27/20 01:41*	*4*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/27/20 01:41*	*4*

Client: Oneida Total Integrated Enterprises LLC
Project/Site: CANOGA PARK 1SA20

Job ID: 570-28918-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: MW-19S-202005
Date Collected: 05/20/20 12:17
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/25/20 01:10	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/25/20 01:10	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/25/20 01:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/25/20 01:10	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/25/20 01:10	1
1,1-Dichloroethane	ND		0.50		ug/L			05/25/20 01:10	1
1,1-Dichloroethene	ND		0.50		ug/L			05/25/20 01:10	1
1,1-Dichloropropene	ND		0.50		ug/L			05/25/20 01:10	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/25/20 01:10	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/25/20 01:10	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/25/20 01:10	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/25/20 01:10	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/25/20 01:10	1
1,2-Dibromoethane	ND		0.50		ug/L			05/25/20 01:10	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/25/20 01:10	1
1,2-Dichloroethane	ND		0.50		ug/L			05/25/20 01:10	1
1,2-Dichloropropane	ND		0.50		ug/L			05/25/20 01:10	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/25/20 01:10	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/25/20 01:10	1
1,3-Dichloropropane	ND		1.0		ug/L			05/25/20 01:10	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/25/20 01:10	1
2,2-Dichloropropane	ND		1.0		ug/L			05/25/20 01:10	1
2-Butanone	ND		5.0		ug/L			05/25/20 01:10	1
2-Chlorotoluene	ND		0.50		ug/L			05/25/20 01:10	1
2-Hexanone	ND		10		ug/L			05/25/20 01:10	1
4-Chlorotoluene	ND		0.50		ug/L			05/25/20 01:10	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/25/20 01:10	1
Acetone	ND		10		ug/L			05/25/20 01:10	1
Benzene	ND		0.50		ug/L			05/25/20 01:10	1
Bromobenzene	ND		0.50		ug/L			05/25/20 01:10	1
Bromochloromethane	ND		1.0		ug/L			05/25/20 01:10	1
Bromodichloromethane	ND		0.50		ug/L			05/25/20 01:10	1
Bromoform	ND		0.50		ug/L			05/25/20 01:10	1
Bromomethane	ND		2.0		ug/L			05/25/20 01:10	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/25/20 01:10	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/25/20 01:10	1
Carbon disulfide	ND		10		ug/L			05/25/20 01:10	1
Carbon tetrachloride	ND		0.50		ug/L			05/25/20 01:10	1
Chlorobenzene	ND		0.50		ug/L			05/25/20 01:10	1
Chloroethane	ND		0.50		ug/L			05/25/20 01:10	1
Chloroform	ND		0.50		ug/L			05/25/20 01:10	1
Chloromethane	ND		5.0		ug/L			05/25/20 01:10	1
Dibromochloromethane	ND		0.50		ug/L			05/25/20 01:10	1
Dibromomethane	ND		0.50		ug/L			05/25/20 01:10	1
Dichlorodifluoromethane	ND		1.0		ug/L			05/25/20 01:10	1
Ethylbenzene	ND		0.50		ug/L			05/25/20 01:10	1
Isopropylbenzene	ND		0.50		ug/L			05/25/20 01:10	1
Methylene Chloride	ND		1.0		ug/L			05/25/20 01:10	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			05/25/20 01:10	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-19S-202005
Date Collected: 05/20/20 12:17
Date Received: 05/21/20 17:55
Lab Sample ID: 570-28918-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			05/25/20 01:10	1
n-Butylbenzene	ND		0.50		ug/L			05/25/20 01:10	1
N-Propylbenzene	ND		0.50		ug/L			05/25/20 01:10	1
o-Xylene	ND		0.50		ug/L			05/25/20 01:10	1
m,p-Xylene	ND		1.0		ug/L			05/25/20 01:10	1
p-Isopropyltoluene	ND		0.50		ug/L			05/25/20 01:10	1
sec-Butylbenzene	ND		0.50		ug/L			05/25/20 01:10	1
Styrene	ND		0.50		ug/L			05/25/20 01:10	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/25/20 01:10	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/25/20 01:10	1
tert-Butylbenzene	ND		0.50		ug/L			05/25/20 01:10	1
Tetrachloroethene	ND		0.50		ug/L			05/25/20 01:10	1
Toluene	ND		0.50		ug/L			05/25/20 01:10	1
Trichloroethene	ND		0.50		ug/L			05/25/20 01:10	1
Trichlorofluoromethane	ND		0.50		ug/L			05/25/20 01:10	1
Vinyl acetate	ND		5.0		ug/L			05/25/20 01:10	1
Vinyl chloride	ND		0.50		ug/L			05/25/20 01:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 128*		*05/25/20 01:10*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 120*		*05/25/20 01:10*	*1*
Dibromofluoromethane	*105*		*80 - 127*		*05/25/20 01:10*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*05/25/20 01:10*	*1*

Client Sample ID: MW-19D-202005
Date Collected: 05/20/20 13:06
Date Received: 05/21/20 17:55
Lab Sample ID: 570-28918-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/25/20 01:39	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/25/20 01:39	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/25/20 01:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/25/20 01:39	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/25/20 01:39	1
1,1-Dichloroethane	ND		0.50		ug/L			05/25/20 01:39	1
1,1-Dichloroethene	ND		0.50		ug/L			05/25/20 01:39	1
1,1-Dichloropropene	ND		0.50		ug/L			05/25/20 01:39	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/25/20 01:39	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/25/20 01:39	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/25/20 01:39	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/25/20 01:39	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/25/20 01:39	1
1,2-Dibromoethane	ND		0.50		ug/L			05/25/20 01:39	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/25/20 01:39	1
1,2-Dichloroethane	ND		0.50		ug/L			05/25/20 01:39	1
1,2-Dichloropropane	ND		0.50		ug/L			05/25/20 01:39	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/25/20 01:39	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/25/20 01:39	1
1,3-Dichloropropane	ND		1.0		ug/L			05/25/20 01:39	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/25/20 01:39	1
2,2-Dichloropropane	ND		1.0		ug/L			05/25/20 01:39	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-19D-202005
Date Collected: 05/20/20 13:06
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			05/25/20 01:39	1
2-Chlorotoluene	ND		0.50		ug/L			05/25/20 01:39	1
2-Hexanone	ND		10		ug/L			05/25/20 01:39	1
4-Chlorotoluene	ND		0.50		ug/L			05/25/20 01:39	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/25/20 01:39	1
Acetone	ND		10		ug/L			05/25/20 01:39	1
Benzene	ND		0.50		ug/L			05/25/20 01:39	1
Bromobenzene	ND		0.50		ug/L			05/25/20 01:39	1
Bromochloromethane	ND		1.0		ug/L			05/25/20 01:39	1
Bromodichloromethane	ND		0.50		ug/L			05/25/20 01:39	1
Bromoform	ND		0.50		ug/L			05/25/20 01:39	1
Bromomethane	ND		2.0		ug/L			05/25/20 01:39	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/25/20 01:39	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/25/20 01:39	1
Carbon disulfide	ND		10		ug/L			05/25/20 01:39	1
Carbon tetrachloride	ND		0.50		ug/L			05/25/20 01:39	1
Chlorobenzene	ND		0.50		ug/L			05/25/20 01:39	1
Chloroethane	ND		0.50		ug/L			05/25/20 01:39	1
Chloroform	ND		0.50		ug/L			05/25/20 01:39	1
Chloromethane	ND		5.0		ug/L			05/25/20 01:39	1
Dibromochloromethane	ND		0.50		ug/L			05/25/20 01:39	1
Dibromomethane	ND		0.50		ug/L			05/25/20 01:39	1
Dichlorodifluoromethane	ND		1.0		ug/L			05/25/20 01:39	1
Ethylbenzene	ND		0.50		ug/L			05/25/20 01:39	1
Isopropylbenzene	ND		0.50		ug/L			05/25/20 01:39	1
Methylene Chloride	ND		1.0		ug/L			05/25/20 01:39	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			05/25/20 01:39	1
Naphthalene	ND		1.0		ug/L			05/25/20 01:39	1
n-Butylbenzene	ND		0.50		ug/L			05/25/20 01:39	1
N-Propylbenzene	ND		0.50		ug/L			05/25/20 01:39	1
o-Xylene	ND		0.50		ug/L			05/25/20 01:39	1
m,p-Xylene	ND		1.0		ug/L			05/25/20 01:39	1
p-Isopropyltoluene	ND		0.50		ug/L			05/25/20 01:39	1
sec-Butylbenzene	ND		0.50		ug/L			05/25/20 01:39	1
Styrene	ND		0.50		ug/L			05/25/20 01:39	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/25/20 01:39	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/25/20 01:39	1
tert-Butylbenzene	ND		0.50		ug/L			05/25/20 01:39	1
Tetrachloroethene	ND		0.50		ug/L			05/25/20 01:39	1
Toluene	ND		0.50		ug/L			05/25/20 01:39	1
Trichloroethene	ND		0.50		ug/L			05/25/20 01:39	1
Trichlorofluoromethane	ND		0.50		ug/L			05/25/20 01:39	1
Vinyl acetate	ND		5.0		ug/L			05/25/20 01:39	1
Vinyl chloride	ND		0.50		ug/L			05/25/20 01:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 128*		*05/25/20 01:39*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 120*		*05/25/20 01:39*	*1*
Dibromofluoromethane	*103*		*80 - 127*		*05/25/20 01:39*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/25/20 01:39*	*1*

Client: Oneida Total Integrated Enterprises LLC
Project/Site: CANOGA PARK 1SA20

Job ID: 570-28918-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: RW-15-202005
Date Collected: 05/20/20 14:30
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/25/20 02:08	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/25/20 02:08	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/25/20 02:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/25/20 02:08	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/25/20 02:08	1
1,1-Dichloroethane	ND		0.50		ug/L			05/25/20 02:08	1
1,1-Dichloroethene	**7.1**		0.50		ug/L			05/25/20 02:08	1
1,1-Dichloropropene	ND		0.50		ug/L			05/25/20 02:08	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/25/20 02:08	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/25/20 02:08	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/25/20 02:08	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/25/20 02:08	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/25/20 02:08	1
1,2-Dibromoethane	ND		0.50		ug/L			05/25/20 02:08	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/25/20 02:08	1
1,2-Dichloroethane	ND		0.50		ug/L			05/25/20 02:08	1
1,2-Dichloropropane	ND		0.50		ug/L			05/25/20 02:08	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/25/20 02:08	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/25/20 02:08	1
1,3-Dichloropropane	ND		1.0		ug/L			05/25/20 02:08	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/25/20 02:08	1
2,2-Dichloropropane	ND		1.0		ug/L			05/25/20 02:08	1
2-Butanone	ND		5.0		ug/L			05/25/20 02:08	1
2-Chlorotoluene	ND		0.50		ug/L			05/25/20 02:08	1
2-Hexanone	ND		10		ug/L			05/25/20 02:08	1
4-Chlorotoluene	ND		0.50		ug/L			05/25/20 02:08	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/25/20 02:08	1
Acetone	ND		10		ug/L			05/25/20 02:08	1
Benzene	ND		0.50		ug/L			05/25/20 02:08	1
Bromobenzene	ND		0.50		ug/L			05/25/20 02:08	1
Bromochloromethane	ND		1.0		ug/L			05/25/20 02:08	1
Bromodichloromethane	ND		0.50		ug/L			05/25/20 02:08	1
Bromoform	ND		0.50		ug/L			05/25/20 02:08	1
Bromomethane	ND		2.0		ug/L			05/25/20 02:08	1
cis-1,2-Dichloroethene	**3.5**		0.50		ug/L			05/25/20 02:08	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/25/20 02:08	1
Carbon disulfide	ND		10		ug/L			05/25/20 02:08	1
Carbon tetrachloride	ND		0.50		ug/L			05/25/20 02:08	1
Chlorobenzene	ND		0.50		ug/L			05/25/20 02:08	1
Chloroethane	ND		0.50		ug/L			05/25/20 02:08	1
Chloroform	ND		0.50		ug/L			05/25/20 02:08	1
Chloromethane	ND		5.0		ug/L			05/25/20 02:08	1
Dibromochloromethane	ND		0.50		ug/L			05/25/20 02:08	1
Dibromomethane	ND		0.50		ug/L			05/25/20 02:08	1
Dichlorodifluoromethane	ND		1.0		ug/L			05/25/20 02:08	1
Ethylbenzene	ND		0.50		ug/L			05/25/20 02:08	1
Isopropylbenzene	ND		0.50		ug/L			05/25/20 02:08	1
Methylene Chloride	ND		1.0		ug/L			05/25/20 02:08	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			05/25/20 02:08	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: RW-15-202005
Date Collected: 05/20/20 14:30
Date Received: 05/21/20 17:55
Lab Sample ID: 570-28918-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			05/25/20 02:08	1
n-Butylbenzene	ND		0.50		ug/L			05/25/20 02:08	1
N-Propylbenzene	ND		0.50		ug/L			05/25/20 02:08	1
o-Xylene	ND		0.50		ug/L			05/25/20 02:08	1
m,p-Xylene	ND		1.0		ug/L			05/25/20 02:08	1
p-Isopropyltoluene	ND		0.50		ug/L			05/25/20 02:08	1
sec-Butylbenzene	ND		0.50		ug/L			05/25/20 02:08	1
Styrene	ND		0.50		ug/L			05/25/20 02:08	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/25/20 02:08	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/25/20 02:08	1
tert-Butylbenzene	ND		0.50		ug/L			05/25/20 02:08	1
Tetrachloroethene	**1.3**		0.50		ug/L			05/25/20 02:08	1
Toluene	ND		0.50		ug/L			05/25/20 02:08	1
Trichloroethene	**3.6**		0.50		ug/L			05/25/20 02:08	1
Trichlorofluoromethane	ND		0.50		ug/L			05/25/20 02:08	1
Vinyl acetate	ND		5.0		ug/L			05/25/20 02:08	1
Vinyl chloride	ND		0.50		ug/L			05/25/20 02:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 128*		*05/25/20 02:08*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 120*		*05/25/20 02:08*	*1*
Dibromofluoromethane	*107*		*80 - 127*		*05/25/20 02:08*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/25/20 02:08*	*1*

Client Sample ID: CM-8D-202105
Date Collected: 05/21/20 08:56
Date Received: 05/21/20 17:55
Lab Sample ID: 570-28918-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/25/20 02:37	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/25/20 02:37	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/25/20 02:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/25/20 02:37	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/25/20 02:37	1
1,1-Dichloroethane	**2.7**		0.50		ug/L			05/25/20 02:37	1
1,1-Dichloroethene	**15**		0.50		ug/L			05/25/20 02:37	1
1,1-Dichloropropene	ND		0.50		ug/L			05/25/20 02:37	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/25/20 02:37	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/25/20 02:37	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/25/20 02:37	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/25/20 02:37	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/25/20 02:37	1
1,2-Dibromoethane	ND		0.50		ug/L			05/25/20 02:37	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/25/20 02:37	1
1,2-Dichloroethane	**0.96**		0.50		ug/L			05/25/20 02:37	1
1,2-Dichloropropane	ND		0.50		ug/L			05/25/20 02:37	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/25/20 02:37	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/25/20 02:37	1
1,3-Dichloropropane	ND		1.0		ug/L			05/25/20 02:37	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/25/20 02:37	1
2,2-Dichloropropane	ND		1.0		ug/L			05/25/20 02:37	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: CM-8D-202105
Date Collected: 05/21/20 08:56
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			05/25/20 02:37	1
2-Chlorotoluene	ND		0.50		ug/L			05/25/20 02:37	1
2-Hexanone	ND		10		ug/L			05/25/20 02:37	1
4-Chlorotoluene	ND		0.50		ug/L			05/25/20 02:37	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/25/20 02:37	1
Acetone	ND		10		ug/L			05/25/20 02:37	1
Benzene	ND		0.50		ug/L			05/25/20 02:37	1
Bromobenzene	ND		0.50		ug/L			05/25/20 02:37	1
Bromochloromethane	ND		1.0		ug/L			05/25/20 02:37	1
Bromodichloromethane	ND		0.50		ug/L			05/25/20 02:37	1
Bromoform	ND		0.50		ug/L			05/25/20 02:37	1
Bromomethane	ND		2.0		ug/L			05/25/20 02:37	1
cis-1,2-Dichloroethene	**1.8**		0.50		ug/L			05/25/20 02:37	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/25/20 02:37	1
Carbon disulfide	ND		10		ug/L			05/25/20 02:37	1
Carbon tetrachloride	ND		0.50		ug/L			05/25/20 02:37	1
Chlorobenzene	ND		0.50		ug/L			05/25/20 02:37	1
Chloroethane	ND		0.50		ug/L			05/25/20 02:37	1
Chloroform	ND		0.50		ug/L			05/25/20 02:37	1
Chloromethane	ND		5.0		ug/L			05/25/20 02:37	1
Dibromochloromethane	ND		0.50		ug/L			05/25/20 02:37	1
Dibromomethane	ND		0.50		ug/L			05/25/20 02:37	1
Dichlorodifluoromethane	ND		1.0		ug/L			05/25/20 02:37	1
Ethylbenzene	ND		0.50		ug/L			05/25/20 02:37	1
Isopropylbenzene	ND		0.50		ug/L			05/25/20 02:37	1
Methylene Chloride	ND		1.0		ug/L			05/25/20 02:37	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			05/25/20 02:37	1
Naphthalene	ND		1.0		ug/L			05/25/20 02:37	1
n-Butylbenzene	ND		0.50		ug/L			05/25/20 02:37	1
N-Propylbenzene	ND		0.50		ug/L			05/25/20 02:37	1
o-Xylene	ND		0.50		ug/L			05/25/20 02:37	1
m,p-Xylene	ND		1.0		ug/L			05/25/20 02:37	1
p-Isopropyltoluene	ND		0.50		ug/L			05/25/20 02:37	1
sec-Butylbenzene	ND		0.50		ug/L			05/25/20 02:37	1
Styrene	ND		0.50		ug/L			05/25/20 02:37	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/25/20 02:37	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/25/20 02:37	1
tert-Butylbenzene	ND		0.50		ug/L			05/25/20 02:37	1
Tetrachloroethene	ND		0.50		ug/L			05/25/20 02:37	1
Toluene	ND		0.50		ug/L			05/25/20 02:37	1
Trichloroethene	**2.6**		0.50		ug/L			05/25/20 02:37	1
Trichlorofluoromethane	ND		0.50		ug/L			05/25/20 02:37	1
Vinyl acetate	ND		5.0		ug/L			05/25/20 02:37	1
Vinyl chloride	**7.8**		0.50		ug/L			05/25/20 02:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 128*		*05/25/20 02:37*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 120*		*05/25/20 02:37*	*1*
Dibromofluoromethane	*106*		*80 - 127*		*05/25/20 02:37*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/25/20 02:37*	*1*

Client: Oneida Total Integrated Enterprises LLC
Project/Site: CANOGA PARK 1SA20

Job ID: 570-28918-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: MW-37-202105
Date Collected: 05/21/20 10:17
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/25/20 03:06	2
1,1,1-Trichloroethane	ND		1.0		ug/L			05/25/20 03:06	2
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/25/20 03:06	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			05/25/20 03:06	2
1,1,2-Trichloroethane	ND		1.0		ug/L			05/25/20 03:06	2
1,1-Dichloroethane	ND		1.0		ug/L			05/25/20 03:06	2
1,1-Dichloroethene	**44**		1.0		ug/L			05/25/20 03:06	2
1,1-Dichloropropene	ND		1.0		ug/L			05/25/20 03:06	2
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/25/20 03:06	2
1,2,3-Trichloropropane	ND		2.0		ug/L			05/25/20 03:06	2
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/25/20 03:06	2
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/25/20 03:06	2
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			05/25/20 03:06	2
1,2-Dibromoethane	ND		1.0		ug/L			05/25/20 03:06	2
1,2-Dichlorobenzene	ND		1.0		ug/L			05/25/20 03:06	2
1,2-Dichloroethane	ND		1.0		ug/L			05/25/20 03:06	2
1,2-Dichloropropane	ND		1.0		ug/L			05/25/20 03:06	2
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/25/20 03:06	2
1,3-Dichlorobenzene	ND		1.0		ug/L			05/25/20 03:06	2
1,3-Dichloropropane	ND		2.0		ug/L			05/25/20 03:06	2
1,4-Dichlorobenzene	ND		1.0		ug/L			05/25/20 03:06	2
2,2-Dichloropropane	ND		2.0		ug/L			05/25/20 03:06	2
2-Butanone	ND		10		ug/L			05/25/20 03:06	2
2-Chlorotoluene	ND		1.0		ug/L			05/25/20 03:06	2
2-Hexanone	ND		20		ug/L			05/25/20 03:06	2
4-Chlorotoluene	ND		1.0		ug/L			05/25/20 03:06	2
4-Methyl-2-pentanone	ND		10		ug/L			05/25/20 03:06	2
Acetone	ND		20		ug/L			05/25/20 03:06	2
Benzene	ND		1.0		ug/L			05/25/20 03:06	2
Bromobenzene	ND		1.0		ug/L			05/25/20 03:06	2
Bromochloromethane	ND		2.0		ug/L			05/25/20 03:06	2
Bromodichloromethane	ND		1.0		ug/L			05/25/20 03:06	2
Bromoform	ND		1.0		ug/L			05/25/20 03:06	2
Bromomethane	ND		4.0		ug/L			05/25/20 03:06	2
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/25/20 03:06	2
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/25/20 03:06	2
Carbon disulfide	ND		20		ug/L			05/25/20 03:06	2
Carbon tetrachloride	ND		1.0		ug/L			05/25/20 03:06	2
Chlorobenzene	ND		1.0		ug/L			05/25/20 03:06	2
Chloroethane	ND		1.0		ug/L			05/25/20 03:06	2
Chloroform	**4.3**		1.0		ug/L			05/25/20 03:06	2
Chloromethane	ND		10		ug/L			05/25/20 03:06	2
Dibromochloromethane	ND		1.0		ug/L			05/25/20 03:06	2
Dibromomethane	ND		1.0		ug/L			05/25/20 03:06	2
Dichlorodifluoromethane	ND		2.0		ug/L			05/25/20 03:06	2
Ethylbenzene	ND		1.0		ug/L			05/25/20 03:06	2
Isopropylbenzene	ND		1.0		ug/L			05/25/20 03:06	2
Methylene Chloride	ND		2.0		ug/L			05/25/20 03:06	2
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			05/25/20 03:06	2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-37-202105
Date Collected: 05/21/20 10:17
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0		ug/L			05/25/20 03:06	2
n-Butylbenzene	ND		1.0		ug/L			05/25/20 03:06	2
N-Propylbenzene	ND		1.0		ug/L			05/25/20 03:06	2
o-Xylene	ND		1.0		ug/L			05/25/20 03:06	2
m,p-Xylene	ND		2.0		ug/L			05/25/20 03:06	2
p-Isopropyltoluene	ND		1.0		ug/L			05/25/20 03:06	2
sec-Butylbenzene	ND		1.0		ug/L			05/25/20 03:06	2
Styrene	ND		1.0		ug/L			05/25/20 03:06	2
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/25/20 03:06	2
trans-1,3-Dichloropropene	ND		1.0		ug/L			05/25/20 03:06	2
tert-Butylbenzene	ND		1.0		ug/L			05/25/20 03:06	2
Tetrachloroethene	ND		1.0		ug/L			05/25/20 03:06	2
Toluene	ND		1.0		ug/L			05/25/20 03:06	2
Trichloroethene	**5.0**		1.0		ug/L			05/25/20 03:06	2
Trichlorofluoromethane	**1.5**		1.0		ug/L			05/25/20 03:06	2
Vinyl acetate	ND		10		ug/L			05/25/20 03:06	2
Vinyl chloride	ND		1.0		ug/L			05/25/20 03:06	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 128*		*05/25/20 03:06*	*2*
4-Bromofluorobenzene (Surr)	*96*		*68 - 120*		*05/25/20 03:06*	*2*
Dibromofluoromethane	*105*		*80 - 127*		*05/25/20 03:06*	*2*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/25/20 03:06*	*2*

Client Sample ID: DUP3-202105
Date Collected: 05/21/20 10:30
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			05/25/20 03:35	2
1,1,1-Trichloroethane	ND		1.0		ug/L			05/25/20 03:35	2
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/25/20 03:35	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			05/25/20 03:35	2
1,1,2-Trichloroethane	ND		1.0		ug/L			05/25/20 03:35	2
1,1-Dichloroethane	ND		1.0		ug/L			05/25/20 03:35	2
1,1-Dichloroethene	**47**		1.0		ug/L			05/25/20 03:35	2
1,1-Dichloropropene	ND		1.0		ug/L			05/25/20 03:35	2
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/25/20 03:35	2
1,2,3-Trichloropropane	ND		2.0		ug/L			05/25/20 03:35	2
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/25/20 03:35	2
1,2,4-Trimethylbenzene	ND		1.0		ug/L			05/25/20 03:35	2
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			05/25/20 03:35	2
1,2-Dibromoethane	ND		1.0		ug/L			05/25/20 03:35	2
1,2-Dichlorobenzene	ND		1.0		ug/L			05/25/20 03:35	2
1,2-Dichloroethane	ND		1.0		ug/L			05/25/20 03:35	2
1,2-Dichloropropane	ND		1.0		ug/L			05/25/20 03:35	2
1,3,5-Trimethylbenzene	ND		1.0		ug/L			05/25/20 03:35	2
1,3-Dichlorobenzene	ND		1.0		ug/L			05/25/20 03:35	2
1,3-Dichloropropane	ND		2.0		ug/L			05/25/20 03:35	2
1,4-Dichlorobenzene	ND		1.0		ug/L			05/25/20 03:35	2
2,2-Dichloropropane	ND		2.0		ug/L			05/25/20 03:35	2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: DUP3-202105
Date Collected: 05/21/20 10:30
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		10		ug/L			05/25/20 03:35	2
2-Chlorotoluene	ND		1.0		ug/L			05/25/20 03:35	2
2-Hexanone	ND		20		ug/L			05/25/20 03:35	2
4-Chlorotoluene	ND		1.0		ug/L			05/25/20 03:35	2
4-Methyl-2-pentanone	ND		10		ug/L			05/25/20 03:35	2
Acetone	ND		20		ug/L			05/25/20 03:35	2
Benzene	ND		1.0		ug/L			05/25/20 03:35	2
Bromobenzene	ND		1.0		ug/L			05/25/20 03:35	2
Bromochloromethane	ND		2.0		ug/L			05/25/20 03:35	2
Bromodichloromethane	ND		1.0		ug/L			05/25/20 03:35	2
Bromoform	ND		1.0		ug/L			05/25/20 03:35	2
Bromomethane	ND		4.0		ug/L			05/25/20 03:35	2
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/25/20 03:35	2
cis-1,3-Dichloropropene	ND		1.0		ug/L			05/25/20 03:35	2
Carbon disulfide	ND		20		ug/L			05/25/20 03:35	2
Carbon tetrachloride	ND		1.0		ug/L			05/25/20 03:35	2
Chlorobenzene	ND		1.0		ug/L			05/25/20 03:35	2
Chloroethane	ND		1.0		ug/L			05/25/20 03:35	2
Chloroform	**4.6**		1.0		ug/L			05/25/20 03:35	2
Chloromethane	ND		10		ug/L			05/25/20 03:35	2
Dibromochloromethane	ND		1.0		ug/L			05/25/20 03:35	2
Dibromomethane	ND		1.0		ug/L			05/25/20 03:35	2
Dichlorodifluoromethane	ND		2.0		ug/L			05/25/20 03:35	2
Ethylbenzene	ND		1.0		ug/L			05/25/20 03:35	2
Isopropylbenzene	ND		1.0		ug/L			05/25/20 03:35	2
Methylene Chloride	ND		2.0		ug/L			05/25/20 03:35	2
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			05/25/20 03:35	2
Naphthalene	ND		2.0		ug/L			05/25/20 03:35	2
n-Butylbenzene	ND		1.0		ug/L			05/25/20 03:35	2
N-Propylbenzene	ND		1.0		ug/L			05/25/20 03:35	2
o-Xylene	ND		1.0		ug/L			05/25/20 03:35	2
m,p-Xylene	ND		2.0		ug/L			05/25/20 03:35	2
p-Isopropyltoluene	ND		1.0		ug/L			05/25/20 03:35	2
sec-Butylbenzene	ND		1.0		ug/L			05/25/20 03:35	2
Styrene	ND		1.0		ug/L			05/25/20 03:35	2
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/25/20 03:35	2
trans-1,3-Dichloropropene	ND		1.0		ug/L			05/25/20 03:35	2
tert-Butylbenzene	ND		1.0		ug/L			05/25/20 03:35	2
Tetrachloroethene	ND		1.0		ug/L			05/25/20 03:35	2
Toluene	ND		1.0		ug/L			05/25/20 03:35	2
Trichloroethene	**5.4**		1.0		ug/L			05/25/20 03:35	2
Trichlorofluoromethane	**1.8**		1.0		ug/L			05/25/20 03:35	2
Vinyl acetate	ND		10		ug/L			05/25/20 03:35	2
Vinyl chloride	ND		1.0		ug/L			05/25/20 03:35	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 128*		*05/25/20 03:35*	*2*
4-Bromofluorobenzene (Surr)	*94*		*68 - 120*		*05/25/20 03:35*	*2*
Dibromofluoromethane	*107*		*80 - 127*		*05/25/20 03:35*	*2*
Toluene-d8 (Surr)	*103*		*80 - 120*		*05/25/20 03:35*	*2*

Client: Oneida Total Integrated Enterprises LLC
Project/Site: CANOGA PARK 1SA20

Job ID: 570-28918-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: CM-4D-202105
Date Collected: 05/21/20 11:16
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-17
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/25/20 04:04	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/25/20 04:04	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/25/20 04:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/25/20 04:04	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/25/20 04:04	1
1,1-Dichloroethane	**3.0**		0.50		ug/L			05/25/20 04:04	1
1,1-Dichloroethene	**7.2**		0.50		ug/L			05/25/20 04:04	1
1,1-Dichloropropene	ND		0.50		ug/L			05/25/20 04:04	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/25/20 04:04	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/25/20 04:04	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/25/20 04:04	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/25/20 04:04	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/25/20 04:04	1
1,2-Dibromoethane	ND		0.50		ug/L			05/25/20 04:04	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/25/20 04:04	1
1,2-Dichloroethane	**2.8**		0.50		ug/L			05/25/20 04:04	1
1,2-Dichloropropane	ND		0.50		ug/L			05/25/20 04:04	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/25/20 04:04	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/25/20 04:04	1
1,3-Dichloropropane	ND		1.0		ug/L			05/25/20 04:04	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/25/20 04:04	1
2,2-Dichloropropane	ND		1.0		ug/L			05/25/20 04:04	1
2-Butanone	ND		5.0		ug/L			05/25/20 04:04	1
2-Chlorotoluene	ND		0.50		ug/L			05/25/20 04:04	1
2-Hexanone	ND		10		ug/L			05/25/20 04:04	1
4-Chlorotoluene	ND		0.50		ug/L			05/25/20 04:04	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/25/20 04:04	1
Acetone	ND		10		ug/L			05/25/20 04:04	1
Benzene	ND		0.50		ug/L			05/25/20 04:04	1
Bromobenzene	ND		0.50		ug/L			05/25/20 04:04	1
Bromochloromethane	ND		1.0		ug/L			05/25/20 04:04	1
Bromodichloromethane	ND		0.50		ug/L			05/25/20 04:04	1
Bromoform	ND		0.50		ug/L			05/25/20 04:04	1
Bromomethane	ND		2.0		ug/L			05/25/20 04:04	1
cis-1,2-Dichloroethene	**3.1**		0.50		ug/L			05/25/20 04:04	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/25/20 04:04	1
Carbon disulfide	ND		10		ug/L			05/25/20 04:04	1
Carbon tetrachloride	ND		0.50		ug/L			05/25/20 04:04	1
Chlorobenzene	ND		0.50		ug/L			05/25/20 04:04	1
Chloroethane	**3.2**		0.50		ug/L			05/25/20 04:04	1
Chloroform	ND		0.50		ug/L			05/25/20 04:04	1
Chloromethane	ND		5.0		ug/L			05/25/20 04:04	1
Dibromochloromethane	ND		0.50		ug/L			05/25/20 04:04	1
Dibromomethane	ND		0.50		ug/L			05/25/20 04:04	1
Dichlorodifluoromethane	ND		1.0		ug/L			05/25/20 04:04	1
Ethylbenzene	ND		0.50		ug/L			05/25/20 04:04	1
Isopropylbenzene	ND		0.50		ug/L			05/25/20 04:04	1
Methylene Chloride	ND		1.0		ug/L			05/25/20 04:04	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			05/25/20 04:04	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: CM-4D-202105
Date Collected: 05/21/20 11:16
Date Received: 05/21/20 17:55
Lab Sample ID: 570-28918-17
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			05/25/20 04:04	1
n-Butylbenzene	ND		0.50		ug/L			05/25/20 04:04	1
N-Propylbenzene	ND		0.50		ug/L			05/25/20 04:04	1
o-Xylene	ND		0.50		ug/L			05/25/20 04:04	1
m,p-Xylene	ND		1.0		ug/L			05/25/20 04:04	1
p-Isopropyltoluene	ND		0.50		ug/L			05/25/20 04:04	1
sec-Butylbenzene	ND		0.50		ug/L			05/25/20 04:04	1
Styrene	ND		0.50		ug/L			05/25/20 04:04	1
trans-1,2-Dichloroethene	ND	F1	0.50		ug/L			05/25/20 04:04	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/25/20 04:04	1
tert-Butylbenzene	ND		0.50		ug/L			05/25/20 04:04	1
Tetrachloroethene	ND		0.50		ug/L			05/25/20 04:04	1
Toluene	ND		0.50		ug/L			05/25/20 04:04	1
Trichloroethene	ND		0.50		ug/L			05/25/20 04:04	1
Trichlorofluoromethane	ND		0.50		ug/L			05/25/20 04:04	1
Vinyl acetate	ND		5.0		ug/L			05/25/20 04:04	1
Vinyl chloride	**17**		0.50		ug/L			05/25/20 04:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*80 - 128*		*05/25/20 04:04*	*1*
4-Bromofluorobenzene (Surr)	*97*		*68 - 120*		*05/25/20 04:04*	*1*
Dibromofluoromethane	*108*		*80 - 127*		*05/25/20 04:04*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/25/20 04:04*	*1*

Client Sample ID: DUP1-202105
Date Collected: 05/21/20 11:40
Date Received: 05/21/20 17:55
Lab Sample ID: 570-28918-18
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/25/20 04:33	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/25/20 04:33	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/25/20 04:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/25/20 04:33	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/25/20 04:33	1
1,1-Dichloroethane	**3.1**		0.50		ug/L			05/25/20 04:33	1
1,1-Dichloroethene	**7.1**		0.50		ug/L			05/25/20 04:33	1
1,1-Dichloropropene	ND		0.50		ug/L			05/25/20 04:33	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/25/20 04:33	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/25/20 04:33	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/25/20 04:33	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/25/20 04:33	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/25/20 04:33	1
1,2-Dibromoethane	ND		0.50		ug/L			05/25/20 04:33	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/25/20 04:33	1
1,2-Dichloroethane	**2.7**		0.50		ug/L			05/25/20 04:33	1
1,2-Dichloropropane	ND		0.50		ug/L			05/25/20 04:33	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/25/20 04:33	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/25/20 04:33	1
1,3-Dichloropropane	ND		1.0		ug/L			05/25/20 04:33	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/25/20 04:33	1
2,2-Dichloropropane	ND		1.0		ug/L			05/25/20 04:33	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: DUP1-202105
Date Collected: 05/21/20 11:40
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-18
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			05/25/20 04:33	1
2-Chlorotoluene	ND		0.50		ug/L			05/25/20 04:33	1
2-Hexanone	ND		10		ug/L			05/25/20 04:33	1
4-Chlorotoluene	ND		0.50		ug/L			05/25/20 04:33	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/25/20 04:33	1
Acetone	ND		10		ug/L			05/25/20 04:33	1
Benzene	ND		0.50		ug/L			05/25/20 04:33	1
Bromobenzene	ND		0.50		ug/L			05/25/20 04:33	1
Bromochloromethane	ND		1.0		ug/L			05/25/20 04:33	1
Bromodichloromethane	ND		0.50		ug/L			05/25/20 04:33	1
Bromoform	ND		0.50		ug/L			05/25/20 04:33	1
Bromomethane	ND		2.0		ug/L			05/25/20 04:33	1
cis-1,2-Dichloroethene	**3.2**		0.50		ug/L			05/25/20 04:33	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/25/20 04:33	1
Carbon disulfide	ND		10		ug/L			05/25/20 04:33	1
Carbon tetrachloride	ND		0.50		ug/L			05/25/20 04:33	1
Chlorobenzene	ND		0.50		ug/L			05/25/20 04:33	1
Chloroethane	**2.2**		0.50		ug/L			05/25/20 04:33	1
Chloroform	ND		0.50		ug/L			05/25/20 04:33	1
Chloromethane	ND		5.0		ug/L			05/25/20 04:33	1
Dibromochloromethane	ND		0.50		ug/L			05/25/20 04:33	1
Dibromomethane	ND		0.50		ug/L			05/25/20 04:33	1
Dichlorodifluoromethane	ND		1.0		ug/L			05/25/20 04:33	1
Ethylbenzene	ND		0.50		ug/L			05/25/20 04:33	1
Isopropylbenzene	ND		0.50		ug/L			05/25/20 04:33	1
Methylene Chloride	ND		1.0		ug/L			05/25/20 04:33	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			05/25/20 04:33	1
Naphthalene	ND		1.0		ug/L			05/25/20 04:33	1
n-Butylbenzene	ND		0.50		ug/L			05/25/20 04:33	1
N-Propylbenzene	ND		0.50		ug/L			05/25/20 04:33	1
o-Xylene	ND		0.50		ug/L			05/25/20 04:33	1
m,p-Xylene	ND		1.0		ug/L			05/25/20 04:33	1
p-Isopropyltoluene	ND		0.50		ug/L			05/25/20 04:33	1
sec-Butylbenzene	ND		0.50		ug/L			05/25/20 04:33	1
Styrene	ND		0.50		ug/L			05/25/20 04:33	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/25/20 04:33	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/25/20 04:33	1
tert-Butylbenzene	ND		0.50		ug/L			05/25/20 04:33	1
Tetrachloroethene	ND		0.50		ug/L			05/25/20 04:33	1
Toluene	ND		0.50		ug/L			05/25/20 04:33	1
Trichloroethene	ND		0.50		ug/L			05/25/20 04:33	1
Trichlorofluoromethane	ND		0.50		ug/L			05/25/20 04:33	1
Vinyl acetate	ND		5.0		ug/L			05/25/20 04:33	1
Vinyl chloride	**17**		0.50		ug/L			05/25/20 04:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*80 - 128*		*05/25/20 04:33*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 120*		*05/25/20 04:33*	*1*
Dibromofluoromethane	*106*		*80 - 127*		*05/25/20 04:33*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/25/20 04:33*	*1*

Client: Oneida Total Integrated Enterprises LLC
Project/Site: CANOGA PARK 1SA20

Job ID: 570-28918-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: MW-16-202105
Date Collected: 05/21/20 12:23
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-19
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/25/20 05:02	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/25/20 05:02	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/25/20 05:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/25/20 05:02	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/25/20 05:02	1
1,1-Dichloroethane	ND		0.50		ug/L			05/25/20 05:02	1
1,1-Dichloroethene	**0.94**		0.50		ug/L			05/25/20 05:02	1
1,1-Dichloropropene	ND		0.50		ug/L			05/25/20 05:02	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/25/20 05:02	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/25/20 05:02	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/25/20 05:02	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/25/20 05:02	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/25/20 05:02	1
1,2-Dibromoethane	ND		0.50		ug/L			05/25/20 05:02	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/25/20 05:02	1
1,2-Dichloroethane	ND		0.50		ug/L			05/25/20 05:02	1
1,2-Dichloropropane	ND		0.50		ug/L			05/25/20 05:02	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/25/20 05:02	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/25/20 05:02	1
1,3-Dichloropropane	ND		1.0		ug/L			05/25/20 05:02	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/25/20 05:02	1
2,2-Dichloropropane	ND		1.0		ug/L			05/25/20 05:02	1
2-Butanone	ND		5.0		ug/L			05/25/20 05:02	1
2-Chlorotoluene	ND		0.50		ug/L			05/25/20 05:02	1
2-Hexanone	ND		10		ug/L			05/25/20 05:02	1
4-Chlorotoluene	ND		0.50		ug/L			05/25/20 05:02	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/25/20 05:02	1
Acetone	ND		10		ug/L			05/25/20 05:02	1
Benzene	ND		0.50		ug/L			05/25/20 05:02	1
Bromobenzene	ND		0.50		ug/L			05/25/20 05:02	1
Bromochloromethane	ND		1.0		ug/L			05/25/20 05:02	1
Bromodichloromethane	ND		0.50		ug/L			05/25/20 05:02	1
Bromoform	ND		0.50		ug/L			05/25/20 05:02	1
Bromomethane	ND		2.0		ug/L			05/25/20 05:02	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/25/20 05:02	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/25/20 05:02	1
Carbon disulfide	ND		10		ug/L			05/25/20 05:02	1
Carbon tetrachloride	ND		0.50		ug/L			05/25/20 05:02	1
Chlorobenzene	ND		0.50		ug/L			05/25/20 05:02	1
Chloroethane	ND		0.50		ug/L			05/25/20 05:02	1
Chloroform	ND		0.50		ug/L			05/25/20 05:02	1
Chloromethane	ND		5.0		ug/L			05/25/20 05:02	1
Dibromochloromethane	ND		0.50		ug/L			05/25/20 05:02	1
Dibromomethane	ND		0.50		ug/L			05/25/20 05:02	1
Dichlorodifluoromethane	ND		1.0		ug/L			05/25/20 05:02	1
Ethylbenzene	ND		0.50		ug/L			05/25/20 05:02	1
Isopropylbenzene	ND		0.50		ug/L			05/25/20 05:02	1
Methylene Chloride	ND		1.0		ug/L			05/25/20 05:02	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			05/25/20 05:02	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-16-202105
Date Collected: 05/21/20 12:23
Date Received: 05/21/20 17:55
Lab Sample ID: 570-28918-19
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			05/25/20 05:02	1
n-Butylbenzene	ND		0.50		ug/L			05/25/20 05:02	1
N-Propylbenzene	ND		0.50		ug/L			05/25/20 05:02	1
o-Xylene	ND		0.50		ug/L			05/25/20 05:02	1
m,p-Xylene	ND		1.0		ug/L			05/25/20 05:02	1
p-Isopropyltoluene	ND		0.50		ug/L			05/25/20 05:02	1
sec-Butylbenzene	ND		0.50		ug/L			05/25/20 05:02	1
Styrene	ND		0.50		ug/L			05/25/20 05:02	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/25/20 05:02	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/25/20 05:02	1
tert-Butylbenzene	ND		0.50		ug/L			05/25/20 05:02	1
Tetrachloroethene	ND		0.50		ug/L			05/25/20 05:02	1
Toluene	ND		0.50		ug/L			05/25/20 05:02	1
Trichloroethene	ND		0.50		ug/L			05/25/20 05:02	1
Trichlorofluoromethane	ND		0.50		ug/L			05/25/20 05:02	1
Vinyl acetate	ND		5.0		ug/L			05/25/20 05:02	1
Vinyl chloride	**0.88**		0.50		ug/L			05/25/20 05:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 128*		*05/25/20 05:02*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 120*		*05/25/20 05:02*	*1*
Dibromofluoromethane	*104*		*80 - 127*		*05/25/20 05:02*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/25/20 05:02*	*1*

Client Sample ID: CM-16-202105
Date Collected: 05/21/20 13:05
Date Received: 05/21/20 17:55
Lab Sample ID: 570-28918-20
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/25/20 05:31	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/25/20 05:31	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/25/20 05:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/25/20 05:31	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/25/20 05:31	1
1,1-Dichloroethane	ND		0.50		ug/L			05/25/20 05:31	1
1,1-Dichloroethene	ND		0.50		ug/L			05/25/20 05:31	1
1,1-Dichloropropene	ND		0.50		ug/L			05/25/20 05:31	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/25/20 05:31	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/25/20 05:31	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/25/20 05:31	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/25/20 05:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/25/20 05:31	1
1,2-Dibromoethane	ND		0.50		ug/L			05/25/20 05:31	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/25/20 05:31	1
1,2-Dichloroethane	ND		0.50		ug/L			05/25/20 05:31	1
1,2-Dichloropropane	ND		0.50		ug/L			05/25/20 05:31	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/25/20 05:31	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/25/20 05:31	1
1,3-Dichloropropane	ND		1.0		ug/L			05/25/20 05:31	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/25/20 05:31	1
2,2-Dichloropropane	ND		1.0		ug/L			05/25/20 05:31	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: CM-16-202105
Date Collected: 05/21/20 13:05
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-20
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			05/25/20 05:31	1
2-Chlorotoluene	ND		0.50		ug/L			05/25/20 05:31	1
2-Hexanone	ND		10		ug/L			05/25/20 05:31	1
4-Chlorotoluene	ND		0.50		ug/L			05/25/20 05:31	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/25/20 05:31	1
Acetone	ND		10		ug/L			05/25/20 05:31	1
Benzene	ND		0.50		ug/L			05/25/20 05:31	1
Bromobenzene	ND		0.50		ug/L			05/25/20 05:31	1
Bromochloromethane	ND		1.0		ug/L			05/25/20 05:31	1
Bromodichloromethane	ND		0.50		ug/L			05/25/20 05:31	1
Bromoform	ND		0.50		ug/L			05/25/20 05:31	1
Bromomethane	ND		2.0		ug/L			05/25/20 05:31	1
cis-1,2-Dichloroethene	**0.73**		0.50		ug/L			05/25/20 05:31	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/25/20 05:31	1
Carbon disulfide	ND		10		ug/L			05/25/20 05:31	1
Carbon tetrachloride	ND		0.50		ug/L			05/25/20 05:31	1
Chlorobenzene	ND		0.50		ug/L			05/25/20 05:31	1
Chloroethane	ND		0.50		ug/L			05/25/20 05:31	1
Chloroform	ND		0.50		ug/L			05/25/20 05:31	1
Chloromethane	ND		5.0		ug/L			05/25/20 05:31	1
Dibromochloromethane	ND		0.50		ug/L			05/25/20 05:31	1
Dibromomethane	ND		0.50		ug/L			05/25/20 05:31	1
Dichlorodifluoromethane	ND		1.0		ug/L			05/25/20 05:31	1
Ethylbenzene	ND		0.50		ug/L			05/25/20 05:31	1
Isopropylbenzene	ND		0.50		ug/L			05/25/20 05:31	1
Methylene Chloride	ND		1.0		ug/L			05/25/20 05:31	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			05/25/20 05:31	1
Naphthalene	ND		1.0		ug/L			05/25/20 05:31	1
n-Butylbenzene	ND		0.50		ug/L			05/25/20 05:31	1
N-Propylbenzene	ND		0.50		ug/L			05/25/20 05:31	1
o-Xylene	ND		0.50		ug/L			05/25/20 05:31	1
m,p-Xylene	ND		1.0		ug/L			05/25/20 05:31	1
p-Isopropyltoluene	ND		0.50		ug/L			05/25/20 05:31	1
sec-Butylbenzene	ND		0.50		ug/L			05/25/20 05:31	1
Styrene	ND		0.50		ug/L			05/25/20 05:31	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/25/20 05:31	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/25/20 05:31	1
tert-Butylbenzene	ND		0.50		ug/L			05/25/20 05:31	1
Tetrachloroethene	ND		0.50		ug/L			05/25/20 05:31	1
Toluene	ND		0.50		ug/L			05/25/20 05:31	1
Trichloroethene	**0.65**		0.50		ug/L			05/25/20 05:31	1
Trichlorofluoromethane	ND		0.50		ug/L			05/25/20 05:31	1
Vinyl acetate	ND		5.0		ug/L			05/25/20 05:31	1
Vinyl chloride	ND		0.50		ug/L			05/25/20 05:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 128*		*05/25/20 05:31*	*1*
4-Bromofluorobenzene (Surr)	*94*		*68 - 120*		*05/25/20 05:31*	*1*
Dibromofluoromethane	*103*		*80 - 127*		*05/25/20 05:31*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*05/25/20 05:31*	*1*

Client: Oneida Total Integrated Enterprises LLC
Job ID: 570-28918-1
Project/Site: CANOGA PARK 1SA20

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Client Sample ID: RW-06-201905
Lab Sample ID: 570-28918-3
Date Collected: 05/19/20 14:17
Matrix: Water
Date Received: 05/21/20 17:55

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	**75**		20		ug/L			05/27/20 01:15	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 128*		*05/27/20 01:15*	*4*
4-Bromofluorobenzene (Surr)	*94*		*68 - 120*		*05/27/20 01:15*	*4*
Dibromofluoromethane	*92*		*80 - 127*		*05/27/20 01:15*	*4*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/27/20 01:15*	*4*

Surrogate Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: CANOGA PARK 1SA20

Job ID: 570-28918-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-128)	(68-120)	(80-127)	(80-120)
570-28893-A-9 MS	Matrix Spike	95	99	96	101
570-28893-A-9 MSD	Matrix Spike Duplicate	96	101	97	103
570-28918-1	TB-202005	99	100	100	100
570-28918-2	RW-11-201905	101	98	104	100
570-28918-2 MS	RW-11-201905	95	101	102	100
570-28918-2 MSD	RW-11-201905	95	99	102	100
570-28918-3	RW-06-201905	97	81	101	98
570-28918-3 - DL	RW-06-201905	96	94	92	100
570-28918-4	RW-16-201905	98	96	102	99
570-28918-4	RW-16-201905	99	97	96	101
570-28918-5	DUP2-201905	115	96	103	99
570-28918-5	DUP2-201905	99	99	98	99
570-28918-6	RW-04-202005	98	96	100	101
570-28918-7	RW-10-202005	102	95	103	102
570-28918-8	MW-39-202005	101	96	100	98
570-28918-9	RW-09-202005	104	99	102	100
570-28918-10	MW-20S-202005	95	95	97	101
570-28918-11	MW-19S-202005	107	96	105	103
570-28918-12	MW-19D-202005	107	96	103	101
570-28918-13	RW-15-202005	108	100	107	99
570-28918-14	CM-8D-202105	111	96	106	99
570-28918-15	MW-37-202105	109	96	105	100
570-28918-16	DUP3-202105	107	94	107	103
570-28918-17	CM-4D-202105	117	97	108	101
570-28918-17 MS	CM-4D-202105	107	104	101	102
570-28918-17 MSD	CM-4D-202105	105	100	103	100
570-28918-18	DUP1-202105	114	96	106	100
570-28918-19	MW-16-202105	106	96	104	101
570-28918-20	CM-16-202105	106	94	103	102
LCS 570-71137/3	Lab Control Sample	95	100	96	101
LCS 570-71138/3	Lab Control Sample	94	101	96	100
LCS 570-71247/6	Lab Control Sample	98	102	97	101
LCS 570-72089/3	Lab Control Sample	98	100	97	101
LCSD 570-71137/4	Lab Control Sample Dup	96	99	99	101
LCSD 570-71138/4	Lab Control Sample Dup	94	99	96	100
LCSD 570-71247/7	Lab Control Sample Dup	97	101	97	101
LCSD 570-72089/4	Lab Control Sample Dup	99	98	98	101
MB 570-71137/7	Method Blank	97	96	95	100
MB 570-71138/7	Method Blank	98	97	98	99
MB 570-71247/10	Method Blank	100	98	95	101
MB 570-72089/6	Method Blank	100	100	96	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Client: Oneida Total Integrated Enterprises LLC
Project/Site: CANOGA PARK 1SA20

Job ID: 570-28918-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-71137/7
Matrix: Water
Analysis Batch: 71137

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/24/20 21:26	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/24/20 21:26	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/24/20 21:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/24/20 21:26	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/24/20 21:26	1
1,1-Dichloroethane	ND		0.50		ug/L			05/24/20 21:26	1
1,1-Dichloroethene	ND		0.50		ug/L			05/24/20 21:26	1
1,1-Dichloropropene	ND		0.50		ug/L			05/24/20 21:26	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/24/20 21:26	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/24/20 21:26	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/24/20 21:26	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/24/20 21:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/24/20 21:26	1
1,2-Dibromoethane	ND		0.50		ug/L			05/24/20 21:26	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/24/20 21:26	1
1,2-Dichloroethane	ND		0.50		ug/L			05/24/20 21:26	1
1,2-Dichloropropane	ND		0.50		ug/L			05/24/20 21:26	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/24/20 21:26	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/24/20 21:26	1
1,3-Dichloropropane	ND		1.0		ug/L			05/24/20 21:26	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/24/20 21:26	1
2,2-Dichloropropane	ND		1.0		ug/L			05/24/20 21:26	1
2-Butanone	ND		5.0		ug/L			05/24/20 21:26	1
2-Chlorotoluene	ND		0.50		ug/L			05/24/20 21:26	1
2-Hexanone	ND		10		ug/L			05/24/20 21:26	1
4-Chlorotoluene	ND		0.50		ug/L			05/24/20 21:26	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/24/20 21:26	1
Acetone	ND		10		ug/L			05/24/20 21:26	1
Benzene	ND		0.50		ug/L			05/24/20 21:26	1
Bromobenzene	ND		0.50		ug/L			05/24/20 21:26	1
Bromochloromethane	ND		1.0		ug/L			05/24/20 21:26	1
Bromodichloromethane	ND		0.50		ug/L			05/24/20 21:26	1
Bromoform	ND		0.50		ug/L			05/24/20 21:26	1
Bromomethane	ND		2.0		ug/L			05/24/20 21:26	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/24/20 21:26	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/24/20 21:26	1
Carbon disulfide	ND		10		ug/L			05/24/20 21:26	1
Carbon tetrachloride	ND		0.50		ug/L			05/24/20 21:26	1
Chlorobenzene	ND		0.50		ug/L			05/24/20 21:26	1
Chloroethane	ND		0.50		ug/L			05/24/20 21:26	1
Chloroform	ND		0.50		ug/L			05/24/20 21:26	1
Chloromethane	ND		5.0		ug/L			05/24/20 21:26	1
Dibromochloromethane	ND		0.50		ug/L			05/24/20 21:26	1
Dibromomethane	ND		0.50		ug/L			05/24/20 21:26	1
Dichlorodifluoromethane	ND		1.0		ug/L			05/24/20 21:26	1
Ethylbenzene	ND		0.50		ug/L			05/24/20 21:26	1
Isopropylbenzene	ND		0.50		ug/L			05/24/20 21:26	1
Methylene Chloride	ND		1.0		ug/L			05/24/20 21:26	1

Client: Oneida Total Integrated Enterprises LLC
Project/Site: CANOGA PARK 1SA20

Job ID: 570-28918-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-71137/7
Matrix: Water
Analysis Batch: 71137

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			05/24/20 21:26	1
Naphthalene	ND		1.0		ug/L			05/24/20 21:26	1
n-Butylbenzene	ND		0.50		ug/L			05/24/20 21:26	1
N-Propylbenzene	ND		0.50		ug/L			05/24/20 21:26	1
o-Xylene	ND		0.50		ug/L			05/24/20 21:26	1
m,p-Xylene	ND		1.0		ug/L			05/24/20 21:26	1
p-Isopropyltoluene	ND		0.50		ug/L			05/24/20 21:26	1
sec-Butylbenzene	ND		0.50		ug/L			05/24/20 21:26	1
Styrene	ND		0.50		ug/L			05/24/20 21:26	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/24/20 21:26	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/24/20 21:26	1
tert-Butylbenzene	ND		0.50		ug/L			05/24/20 21:26	1
Tetrachloroethene	ND		0.50		ug/L			05/24/20 21:26	1
Toluene	ND		0.50		ug/L			05/24/20 21:26	1
Trichloroethene	ND		0.50		ug/L			05/24/20 21:26	1
Trichlorofluoromethane	ND		0.50		ug/L			05/24/20 21:26	1
Vinyl acetate	ND		5.0		ug/L			05/24/20 21:26	1
Vinyl chloride	ND		0.50		ug/L			05/24/20 21:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 128*		*05/24/20 21:26*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 120*		*05/24/20 21:26*	*1*
Dibromofluoromethane	*95*		*80 - 127*		*05/24/20 21:26*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/24/20 21:26*	*1*

Lab Sample ID: LCS 570-71137/3
Matrix: Water
Analysis Batch: 71137

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	10.0	9.784		ug/L		98	77 - 120
1,2-Dibromoethane	10.0	10.47		ug/L		105	80 - 120
1,2-Dichlorobenzene	10.0	10.43		ug/L		104	80 - 120
1,2-Dichloroethane	10.0	9.938		ug/L		99	80 - 122
Benzene	10.0	9.913		ug/L		99	80 - 120
Carbon tetrachloride	10.0	9.878		ug/L		99	80 - 129
Chlorobenzene	10.0	9.883		ug/L		99	80 - 120
Ethylbenzene	10.0	9.977		ug/L		100	80 - 120
Methyl-t-Butyl Ether (MTBE)	10.0	10.06		ug/L		101	75 - 123
o-Xylene	10.0	10.19		ug/L		102	80 - 120
m,p-Xylene	20.0	19.43		ug/L		97	80 - 120
Toluene	10.0	10.00		ug/L		100	80 - 120
Trichloroethene	10.0	10.19		ug/L		102	80 - 120
Vinyl chloride	10.0	9.043		ug/L		90	63 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 128*
4-Bromofluorobenzene (Surr)	*100*		*68 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-71137/3
Matrix: Water
Analysis Batch: 71137

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane	*96*		*80 - 127*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: LCSD 570-71137/4
Matrix: Water
Analysis Batch: 71137

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene			10.0	7.883		ug/L		79	77 - 120	22	26
1,2-Dibromoethane			10.0	10.86		ug/L		109	80 - 120	4	32
1,2-Dichlorobenzene			10.0	10.93		ug/L		109	80 - 120	5	30
1,2-Dichloroethane			10.0	10.28		ug/L		103	80 - 122	3	23
Benzene			10.0	10.35		ug/L		103	80 - 120	4	22
Carbon tetrachloride			10.0	10.39		ug/L		104	80 - 129	5	36
Chlorobenzene			10.0	10.31		ug/L		103	80 - 120	4	29
Ethylbenzene			10.0	10.36		ug/L		104	80 - 120	4	25
Methyl-t-Butyl Ether (MTBE)			10.0	10.76		ug/L		108	75 - 123	7	27
o-Xylene			10.0	10.52		ug/L		105	80 - 120	3	30
m,p-Xylene			20.0	20.14		ug/L		101	80 - 120	4	30
Toluene			10.0	10.42		ug/L		104	80 - 120	4	28
Trichloroethene			10.0	10.71		ug/L		107	80 - 120	5	25
Vinyl chloride			10.0	9.559		ug/L		96	63 - 135	6	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 128*
4-Bromofluorobenzene (Surr)	*99*		*68 - 120*
Dibromofluoromethane	*99*		*80 - 127*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: 570-28918-2 MS
Matrix: Water
Analysis Batch: 71137

Client Sample ID: RW-11-201905
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	66	F1 F2	40.0	96.51		ug/L		77	66 - 126
1,2-Dibromoethane	ND		40.0	41.04		ug/L		103	75 - 126
1,2-Dichlorobenzene	ND		40.0	40.81		ug/L		102	75 - 125
1,2-Dichloroethane	ND		40.0	40.51		ug/L		100	75 - 127
Benzene	ND		40.0	41.71		ug/L		104	75 - 125
Carbon tetrachloride	ND		40.0	49.73		ug/L		124	69 - 135
Chlorobenzene	ND		40.0	40.61		ug/L		102	75 - 125
Ethylbenzene	ND		40.0	41.73		ug/L		104	75 - 125
Methyl-t-Butyl Ether (MTBE)	ND		40.0	40.03		ug/L		100	71 - 131
o-Xylene	ND		40.0	42.13		ug/L		105	75 - 127
m,p-Xylene	ND		80.0	81.09		ug/L		101	75 - 125
Toluene	ND		40.0	41.87		ug/L		105	75 - 125
Trichloroethene	ND		40.0	42.00		ug/L		103	75 - 125
Vinyl chloride	ND		40.0	40.34		ug/L		99	52 - 142

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 570-28918-2 MS
Matrix: Water
Analysis Batch: 71137

Client Sample ID: RW-11-201905
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 128*
4-Bromofluorobenzene (Surr)	*101*		*68 - 120*
Dibromofluoromethane	*102*		*80 - 127*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: 570-28918-2 MSD
Matrix: Water
Analysis Batch: 71137

Client Sample ID: RW-11-201905
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	66	F1 F2	40.0	72.72	F1 F2	ug/L		18	66 - 126	28	20
1,2-Dibromoethane	ND		40.0	39.78		ug/L		99	75 - 126	3	20
1,2-Dichlorobenzene	ND		40.0	40.45		ug/L		101	75 - 125	1	20
1,2-Dichloroethane	ND		40.0	38.74		ug/L		96	75 - 127	4	20
Benzene	ND		40.0	40.28		ug/L		101	75 - 125	3	20
Carbon tetrachloride	ND		40.0	47.78		ug/L		119	69 - 135	4	20
Chlorobenzene	ND		40.0	39.99		ug/L		100	75 - 125	2	20
Ethylbenzene	ND		40.0	40.76		ug/L		102	75 - 125	2	20
Methyl-t-Butyl Ether (MTBE)	ND		40.0	39.32		ug/L		98	71 - 131	2	20
o-Xylene	ND		40.0	41.02		ug/L		103	75 - 127	3	20
m,p-Xylene	ND		80.0	79.08		ug/L		99	75 - 125	3	20
Toluene	ND		40.0	40.69		ug/L		102	75 - 125	3	20
Trichloroethene	ND		40.0	40.64		ug/L		100	75 - 125	3	20
Vinyl chloride	ND		40.0	40.13		ug/L		98	52 - 142	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 128*
4-Bromofluorobenzene (Surr)	*99*		*68 - 120*
Dibromofluoromethane	*102*		*80 - 127*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: MB 570-71138/7
Matrix: Water
Analysis Batch: 71138

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/24/20 21:39	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/24/20 21:39	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/24/20 21:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/24/20 21:39	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/24/20 21:39	1
1,1-Dichloroethane	ND		0.50		ug/L			05/24/20 21:39	1
1,1-Dichloroethene	ND		0.50		ug/L			05/24/20 21:39	1
1,1-Dichloropropene	ND		0.50		ug/L			05/24/20 21:39	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/24/20 21:39	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/24/20 21:39	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/24/20 21:39	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/24/20 21:39	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-71138/7
Matrix: Water
Analysis Batch: 71138

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/24/20 21:39	1
1,2-Dibromoethane	ND		0.50		ug/L			05/24/20 21:39	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/24/20 21:39	1
1,2-Dichloroethane	ND		0.50		ug/L			05/24/20 21:39	1
1,2-Dichloropropane	ND		0.50		ug/L			05/24/20 21:39	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/24/20 21:39	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/24/20 21:39	1
1,3-Dichloropropane	ND		1.0		ug/L			05/24/20 21:39	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/24/20 21:39	1
2,2-Dichloropropane	ND		1.0		ug/L			05/24/20 21:39	1
2-Butanone	ND		5.0		ug/L			05/24/20 21:39	1
2-Chlorotoluene	ND		0.50		ug/L			05/24/20 21:39	1
2-Hexanone	ND		10		ug/L			05/24/20 21:39	1
4-Chlorotoluene	ND		0.50		ug/L			05/24/20 21:39	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/24/20 21:39	1
Acetone	ND		10		ug/L			05/24/20 21:39	1
Benzene	ND		0.50		ug/L			05/24/20 21:39	1
Bromobenzene	ND		0.50		ug/L			05/24/20 21:39	1
Bromochloromethane	ND		1.0		ug/L			05/24/20 21:39	1
Bromodichloromethane	ND		0.50		ug/L			05/24/20 21:39	1
Bromoform	ND		0.50		ug/L			05/24/20 21:39	1
Bromomethane	ND		2.0		ug/L			05/24/20 21:39	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/24/20 21:39	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/24/20 21:39	1
Carbon disulfide	ND		10		ug/L			05/24/20 21:39	1
Carbon tetrachloride	ND		0.50		ug/L			05/24/20 21:39	1
Chlorobenzene	ND		0.50		ug/L			05/24/20 21:39	1
Chloroethane	ND		0.50		ug/L			05/24/20 21:39	1
Chloroform	ND		0.50		ug/L			05/24/20 21:39	1
Chloromethane	ND		5.0		ug/L			05/24/20 21:39	1
Dibromochloromethane	ND		0.50		ug/L			05/24/20 21:39	1
Dibromomethane	ND		0.50		ug/L			05/24/20 21:39	1
Dichlorodifluoromethane	ND		1.0		ug/L			05/24/20 21:39	1
Ethylbenzene	ND		0.50		ug/L			05/24/20 21:39	1
Isopropylbenzene	ND		0.50		ug/L			05/24/20 21:39	1
Methylene Chloride	ND		1.0		ug/L			05/24/20 21:39	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			05/24/20 21:39	1
Naphthalene	ND		1.0		ug/L			05/24/20 21:39	1
n-Butylbenzene	ND		0.50		ug/L			05/24/20 21:39	1
N-Propylbenzene	ND		0.50		ug/L			05/24/20 21:39	1
o-Xylene	ND		0.50		ug/L			05/24/20 21:39	1
m,p-Xylene	ND		1.0		ug/L			05/24/20 21:39	1
p-Isopropyltoluene	ND		0.50		ug/L			05/24/20 21:39	1
sec-Butylbenzene	ND		0.50		ug/L			05/24/20 21:39	1
Styrene	ND		0.50		ug/L			05/24/20 21:39	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/24/20 21:39	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/24/20 21:39	1
tert-Butylbenzene	ND		0.50		ug/L			05/24/20 21:39	1
Tetrachloroethene	ND		0.50		ug/L			05/24/20 21:39	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-71138/7
Matrix: Water
Analysis Batch: 71138

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.50		ug/L			05/24/20 21:39	1
Trichloroethene	ND		0.50		ug/L			05/24/20 21:39	1
Trichlorofluoromethane	ND		0.50		ug/L			05/24/20 21:39	1
Vinyl acetate	ND		5.0		ug/L			05/24/20 21:39	1
Vinyl chloride	ND		0.50		ug/L			05/24/20 21:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 128*		*05/24/20 21:39*	*1*
4-Bromofluorobenzene (Surr)	*97*		*68 - 120*		*05/24/20 21:39*	*1*
Dibromofluoromethane	*98*		*80 - 127*		*05/24/20 21:39*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/24/20 21:39*	*1*

Lab Sample ID: LCS 570-71138/3
Matrix: Water
Analysis Batch: 71138

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	10.0	9.971		ug/L		100	77 - 120
1,2-Dibromoethane	10.0	10.08		ug/L		101	80 - 120
1,2-Dichlorobenzene	10.0	9.969		ug/L		100	80 - 120
1,2-Dichloroethane	10.0	9.834		ug/L		98	80 - 122
Benzene	10.0	10.14		ug/L		101	80 - 120
Carbon tetrachloride	10.0	9.958		ug/L		100	80 - 129
Chlorobenzene	10.0	10.07		ug/L		101	80 - 120
Ethylbenzene	10.0	10.56		ug/L		106	80 - 120
Methyl-t-Butyl Ether (MTBE)	10.0	10.12		ug/L		101	75 - 123
o-Xylene	10.0	10.54		ug/L		105	80 - 120
m,p-Xylene	20.0	20.93		ug/L		105	80 - 120
Toluene	10.0	10.17		ug/L		102	80 - 120
Trichloroethene	10.0	10.51		ug/L		105	80 - 120
Vinyl chloride	10.0	9.034		ug/L		90	63 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 128*
4-Bromofluorobenzene (Surr)	*101*		*68 - 120*
Dibromofluoromethane	*96*		*80 - 127*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 570-71138/4
Matrix: Water
Analysis Batch: 71138

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	10.0	10.05		ug/L		100	77 - 120	1	26
1,2-Dibromoethane	10.0	10.27		ug/L		103	80 - 120	2	32
1,2-Dichlorobenzene	10.0	10.07		ug/L		101	80 - 120	1	30
1,2-Dichloroethane	10.0	9.817		ug/L		98	80 - 122	0	23
Benzene	10.0	10.01		ug/L		100	80 - 120	1	22

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-71138/4
Matrix: Water
Analysis Batch: 71138

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon tetrachloride			10.0	9.630		ug/L		96	80 - 129	3	36
Chlorobenzene			10.0	9.984		ug/L		100	80 - 120	1	29
Ethylbenzene			10.0	10.32		ug/L		103	80 - 120	2	25
Methyl-t-Butyl Ether (MTBE)			10.0	9.013		ug/L		90	75 - 123	12	27
o-Xylene			10.0	10.45		ug/L		105	80 - 120	1	30
m,p-Xylene			20.0	20.43		ug/L		102	80 - 120	2	30
Toluene			10.0	9.973		ug/L		100	80 - 120	2	28
Trichloroethene			10.0	10.18		ug/L		102	80 - 120	3	25
Vinyl chloride			10.0	9.108		ug/L		91	63 - 135	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 128*
4-Bromofluorobenzene (Surr)	*99*		*68 - 120*
Dibromofluoromethane	*96*		*80 - 127*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: 570-28918-17 MS
Matrix: Water
Analysis Batch: 71138

Client Sample ID: CM-4D-202105
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	7.2		10.0	15.21		ug/L		80	66 - 126
1,2-Dibromoethane	ND		10.0	8.795		ug/L		88	75 - 126
1,2-Dichlorobenzene	ND		10.0	9.384		ug/L		94	75 - 125
1,2-Dichloroethane	2.8		10.0	11.35		ug/L		85	75 - 127
Benzene	ND		10.0	8.570		ug/L		86	75 - 125
Carbon tetrachloride	ND		10.0	8.696		ug/L		87	69 - 135
Chlorobenzene	ND		10.0	8.451		ug/L		85	75 - 125
Ethylbenzene	ND		10.0	8.564		ug/L		86	75 - 125
Methyl-t-Butyl Ether (MTBE)	ND		10.0	7.693		ug/L		77	71 - 131
o-Xylene	ND		10.0	8.795		ug/L		88	75 - 127
m,p-Xylene	ND		20.0	17.64		ug/L		88	75 - 125
Toluene	ND		10.0	8.650		ug/L		87	75 - 125
Trichloroethene	ND		10.0	8.587		ug/L		86	75 - 125
Vinyl chloride	17		10.0	24.99		ug/L		82	52 - 142

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 128*
4-Bromofluorobenzene (Surr)	*104*		*68 - 120*
Dibromofluoromethane	*101*		*80 - 127*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: 570-28918-17 MSD
Matrix: Water
Analysis Batch: 71138

Client Sample ID: CM-4D-202105
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	7.2		10.0	15.55		ug/L		83	66 - 126	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 570-28918-17 MSD
Matrix: Water
Analysis Batch: 71138

Client Sample ID: CM-4D-202105
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane	ND		10.0	9.149		ug/L		91	75 - 126	4	20
1,2-Dichlorobenzene	ND		10.0	9.224		ug/L		92	75 - 125	2	20
1,2-Dichloroethane	2.8		10.0	11.41		ug/L		86	75 - 127	1	20
Benzene	ND		10.0	8.889		ug/L		89	75 - 125	4	20
Carbon tetrachloride	ND		10.0	9.082		ug/L		91	69 - 135	4	20
Chlorobenzene	ND		10.0	8.770		ug/L		88	75 - 125	4	20
Ethylbenzene	ND		10.0	9.009		ug/L		90	75 - 125	5	20
Methyl-t-Butyl Ether (MTBE)	ND		10.0	8.305		ug/L		83	71 - 131	8	20
o-Xylene	ND		10.0	9.001		ug/L		90	75 - 127	2	20
m,p-Xylene	ND		20.0	18.22		ug/L		91	75 - 125	3	20
Toluene	ND		10.0	8.790		ug/L		88	75 - 125	2	20
Trichloroethene	ND		10.0	8.815		ug/L		88	75 - 125	3	20
Vinyl chloride	17		10.0	25.05		ug/L		83	52 - 142	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 128*
4-Bromofluorobenzene (Surr)	*100*		*68 - 120*
Dibromofluoromethane	*103*		*80 - 127*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: MB 570-71247/10
Matrix: Water
Analysis Batch: 71247

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/26/20 17:30	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/26/20 17:30	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/26/20 17:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/26/20 17:30	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/26/20 17:30	1
1,1-Dichloroethane	ND		0.50		ug/L			05/26/20 17:30	1
1,1-Dichloroethene	ND		0.50		ug/L			05/26/20 17:30	1
1,1-Dichloropropene	ND		0.50		ug/L			05/26/20 17:30	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/26/20 17:30	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/26/20 17:30	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/26/20 17:30	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/26/20 17:30	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/26/20 17:30	1
1,2-Dibromoethane	ND		0.50		ug/L			05/26/20 17:30	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/26/20 17:30	1
1,2-Dichloroethane	ND		0.50		ug/L			05/26/20 17:30	1
1,2-Dichloropropane	ND		0.50		ug/L			05/26/20 17:30	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/26/20 17:30	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/26/20 17:30	1
1,3-Dichloropropane	ND		1.0		ug/L			05/26/20 17:30	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/26/20 17:30	1
2,2-Dichloropropane	ND		1.0		ug/L			05/26/20 17:30	1
2-Butanone	ND		5.0		ug/L			05/26/20 17:30	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-71247/10
Matrix: Water
Analysis Batch: 71247

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		0.50		ug/L			05/26/20 17:30	1
2-Hexanone	ND		10		ug/L			05/26/20 17:30	1
4-Chlorotoluene	ND		0.50		ug/L			05/26/20 17:30	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/26/20 17:30	1
Acetone	ND		10		ug/L			05/26/20 17:30	1
Benzene	ND		0.50		ug/L			05/26/20 17:30	1
Bromobenzene	ND		0.50		ug/L			05/26/20 17:30	1
Bromochloromethane	ND		1.0		ug/L			05/26/20 17:30	1
Bromodichloromethane	ND		0.50		ug/L			05/26/20 17:30	1
Bromoform	ND		0.50		ug/L			05/26/20 17:30	1
Bromomethane	ND		2.0		ug/L			05/26/20 17:30	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/26/20 17:30	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/26/20 17:30	1
Carbon disulfide	ND		10		ug/L			05/26/20 17:30	1
Carbon tetrachloride	ND		0.50		ug/L			05/26/20 17:30	1
Chlorobenzene	ND		0.50		ug/L			05/26/20 17:30	1
Chloroethane	ND		0.50		ug/L			05/26/20 17:30	1
Chloroform	ND		0.50		ug/L			05/26/20 17:30	1
Chloromethane	ND		5.0		ug/L			05/26/20 17:30	1
Dibromochloromethane	ND		0.50		ug/L			05/26/20 17:30	1
Dibromomethane	ND		0.50		ug/L			05/26/20 17:30	1
Dichlorodifluoromethane	ND		1.0		ug/L			05/26/20 17:30	1
Ethylbenzene	ND		0.50		ug/L			05/26/20 17:30	1
Isopropylbenzene	ND		0.50		ug/L			05/26/20 17:30	1
Methylene Chloride	ND		1.0		ug/L			05/26/20 17:30	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			05/26/20 17:30	1
Naphthalene	ND		1.0		ug/L			05/26/20 17:30	1
n-Butylbenzene	ND		0.50		ug/L			05/26/20 17:30	1
N-Propylbenzene	ND		0.50		ug/L			05/26/20 17:30	1
o-Xylene	ND		0.50		ug/L			05/26/20 17:30	1
m,p-Xylene	ND		1.0		ug/L			05/26/20 17:30	1
p-Isopropyltoluene	ND		0.50		ug/L			05/26/20 17:30	1
sec-Butylbenzene	ND		0.50		ug/L			05/26/20 17:30	1
Styrene	ND		0.50		ug/L			05/26/20 17:30	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/26/20 17:30	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/26/20 17:30	1
tert-Butylbenzene	ND		0.50		ug/L			05/26/20 17:30	1
Tetrachloroethene	ND		0.50		ug/L			05/26/20 17:30	1
Toluene	ND		0.50		ug/L			05/26/20 17:30	1
Trichloroethene	ND		0.50		ug/L			05/26/20 17:30	1
Trichlorofluoromethane	ND		0.50		ug/L			05/26/20 17:30	1
Vinyl acetate	ND		5.0		ug/L			05/26/20 17:30	1
Vinyl chloride	ND		0.50		ug/L			05/26/20 17:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 128*		*05/26/20 17:30*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 120*		*05/26/20 17:30*	*1*
Dibromofluoromethane	*95*		*80 - 127*		*05/26/20 17:30*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-71247/10
Matrix: Water
Analysis Batch: 71247

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/26/20 17:30*	*1*

Lab Sample ID: LCS 570-71247/6
Matrix: Water
Analysis Batch: 71247

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	10.0	8.154		ug/L		82	77 - 120
1,2-Dibromoethane	10.0	10.61		ug/L		106	80 - 120
1,2-Dichlorobenzene	10.0	10.41		ug/L		104	80 - 120
1,2-Dichloroethane	10.0	10.34		ug/L		103	80 - 122
Benzene	10.0	11.18		ug/L		112	80 - 120
Carbon tetrachloride	10.0	11.24		ug/L		112	80 - 129
Chlorobenzene	10.0	10.23		ug/L		102	80 - 120
Ethylbenzene	10.0	10.59		ug/L		106	80 - 120
Methyl-t-Butyl Ether (MTBE)	10.0	9.033		ug/L		90	75 - 123
o-Xylene	10.0	10.78		ug/L		108	80 - 120
m,p-Xylene	20.0	20.55		ug/L		103	80 - 120
Toluene	10.0	10.43		ug/L		104	80 - 120
Trichloroethene	10.0	10.57		ug/L		106	80 - 120
Vinyl chloride	10.0	11.70		ug/L		117	63 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 128*
4-Bromofluorobenzene (Surr)	*102*		*68 - 120*
Dibromofluoromethane	*97*		*80 - 127*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: LCSD 570-71247/7
Matrix: Water
Analysis Batch: 71247

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	10.0	8.611		ug/L		86	77 - 120	5	26
1,2-Dibromoethane	10.0	10.70		ug/L		107	80 - 120	1	32
1,2-Dichlorobenzene	10.0	9.977		ug/L		100	80 - 120	4	30
1,2-Dichloroethane	10.0	10.41		ug/L		104	80 - 122	1	23
Benzene	10.0	10.93		ug/L		109	80 - 120	2	22
Carbon tetrachloride	10.0	11.17		ug/L		112	80 - 129	1	36
Chlorobenzene	10.0	9.983		ug/L		100	80 - 120	2	29
Ethylbenzene	10.0	10.45		ug/L		105	80 - 120	1	25
Methyl-t-Butyl Ether (MTBE)	10.0	9.202		ug/L		92	75 - 123	2	27
o-Xylene	10.0	10.70		ug/L		107	80 - 120	1	30
m,p-Xylene	20.0	20.23		ug/L		101	80 - 120	2	30
Toluene	10.0	10.29		ug/L		103	80 - 120	1	28
Trichloroethene	10.0	10.55		ug/L		105	80 - 120	0	25
Vinyl chloride	10.0	11.17		ug/L		112	63 - 135	5	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-71247/7
Matrix: Water
Analysis Batch: 71247

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 128*
4-Bromofluorobenzene (Surr)	*101*		*68 - 120*
Dibromofluoromethane	*97*		*80 - 127*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: 570-28893-A-9 MS
Matrix: Water
Analysis Batch: 71247

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	69	F2	200	233.2		ug/L		82	66 - 126
1,2-Dibromoethane	ND		200	183.3		ug/L		92	75 - 126
1,2-Dichlorobenzene	ND	F2	200	159.2		ug/L		80	75 - 125
1,2-Dichloroethane	770		200	961.2	E	ug/L		95	75 - 127
Benzene	ND	F2	200	176.0		ug/L		87	75 - 125
Carbon tetrachloride	ND	F2	200	175.1		ug/L		88	69 - 135
Chlorobenzene	ND	F2	200	159.7		ug/L		79	75 - 125
Ethylbenzene	ND	F2	200	164.3		ug/L		82	75 - 125
Methyl-t-Butyl Ether (MTBE)	ND		200	157.6		ug/L		78	71 - 131
o-Xylene	ND	F2	200	167.7		ug/L		84	75 - 127
m,p-Xylene	ND	F2	400	320.9		ug/L		80	75 - 125
Toluene	ND	F2	200	164.4		ug/L		82	75 - 125
Trichloroethene	15	F2	200	179.4		ug/L		82	75 - 125
Vinyl chloride	260		200	532.1		ug/L		135	52 - 142

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 128*
4-Bromofluorobenzene (Surr)	*99*		*68 - 120*
Dibromofluoromethane	*96*		*80 - 127*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: 570-28893-A-9 MSD
Matrix: Water
Analysis Batch: 71247

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	69	F2	200	287.5	F2	ug/L		109	66 - 126	21	20
1,2-Dibromoethane	ND		200	211.2		ug/L		106	75 - 126	14	20
1,2-Dichlorobenzene	ND	F2	200	196.7	F2	ug/L		98	75 - 125	21	20
1,2-Dichloroethane	770		200	951.8	E	ug/L		91	75 - 127	1	20
Benzene	ND	F2	200	223.2	F2	ug/L		111	75 - 125	24	20
Carbon tetrachloride	ND	F2	200	234.5	F2	ug/L		117	69 - 135	29	20
Chlorobenzene	ND	F2	200	203.2	F2	ug/L		100	75 - 125	24	20
Ethylbenzene	ND	F2	200	215.9	F2	ug/L		108	75 - 125	27	20
Methyl-t-Butyl Ether (MTBE)	ND		200	174.3		ug/L		86	71 - 131	10	20
o-Xylene	ND	F2	200	215.2	F2	ug/L		108	75 - 127	25	20
m,p-Xylene	ND	F2	400	411.8	F2	ug/L		103	75 - 125	25	20
Toluene	ND	F2	200	210.8	F2	ug/L		105	75 - 125	25	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 570-28893-A-9 MSD
Matrix: Water
Analysis Batch: 71247

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichloroethene	15	F2	200	225.3	F2	ug/L		105	75 - 125	23	20
Vinyl chloride	260		200	515.8		ug/L		127	52 - 142	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 128*
4-Bromofluorobenzene (Surr)	*101*		*68 - 120*
Dibromofluoromethane	*97*		*80 - 127*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: MB 570-72089/6
Matrix: Water
Analysis Batch: 72089

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/29/20 10:26	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/29/20 10:26	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/29/20 10:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/29/20 10:26	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/29/20 10:26	1
1,1-Dichloroethane	ND		0.50		ug/L			05/29/20 10:26	1
1,1-Dichloroethene	ND		0.50		ug/L			05/29/20 10:26	1
1,1-Dichloropropene	ND		0.50		ug/L			05/29/20 10:26	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/29/20 10:26	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/29/20 10:26	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/29/20 10:26	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/29/20 10:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/29/20 10:26	1
1,2-Dibromoethane	ND		0.50		ug/L			05/29/20 10:26	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/29/20 10:26	1
1,2-Dichloroethane	ND		0.50		ug/L			05/29/20 10:26	1
1,2-Dichloropropane	ND		0.50		ug/L			05/29/20 10:26	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/29/20 10:26	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/29/20 10:26	1
1,3-Dichloropropane	ND		1.0		ug/L			05/29/20 10:26	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/29/20 10:26	1
2,2-Dichloropropane	ND		1.0		ug/L			05/29/20 10:26	1
2-Butanone	ND		5.0		ug/L			05/29/20 10:26	1
2-Chlorotoluene	ND		0.50		ug/L			05/29/20 10:26	1
2-Hexanone	ND		10		ug/L			05/29/20 10:26	1
4-Chlorotoluene	ND		0.50		ug/L			05/29/20 10:26	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/29/20 10:26	1
Acetone	ND		10		ug/L			05/29/20 10:26	1
Benzene	ND		0.50		ug/L			05/29/20 10:26	1
Bromobenzene	ND		0.50		ug/L			05/29/20 10:26	1
Bromochloromethane	ND		1.0		ug/L			05/29/20 10:26	1
Bromodichloromethane	ND		0.50		ug/L			05/29/20 10:26	1
Bromoform	ND		0.50		ug/L			05/29/20 10:26	1
Bromomethane	ND		2.0		ug/L			05/29/20 10:26	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-72089/6
Matrix: Water
Analysis Batch: 72089

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/29/20 10:26	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/29/20 10:26	1
Carbon disulfide	ND		10		ug/L			05/29/20 10:26	1
Carbon tetrachloride	ND		0.50		ug/L			05/29/20 10:26	1
Chlorobenzene	ND		0.50		ug/L			05/29/20 10:26	1
Chloroethane	ND		0.50		ug/L			05/29/20 10:26	1
Chloroform	ND		0.50		ug/L			05/29/20 10:26	1
Chloromethane	ND		5.0		ug/L			05/29/20 10:26	1
Dibromochloromethane	ND		0.50		ug/L			05/29/20 10:26	1
Dibromomethane	ND		0.50		ug/L			05/29/20 10:26	1
Dichlorodifluoromethane	ND		1.0		ug/L			05/29/20 10:26	1
Ethylbenzene	ND		0.50		ug/L			05/29/20 10:26	1
Isopropylbenzene	ND		0.50		ug/L			05/29/20 10:26	1
Methylene Chloride	ND		1.0		ug/L			05/29/20 10:26	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			05/29/20 10:26	1
Naphthalene	ND		1.0		ug/L			05/29/20 10:26	1
n-Butylbenzene	ND		0.50		ug/L			05/29/20 10:26	1
N-Propylbenzene	ND		0.50		ug/L			05/29/20 10:26	1
o-Xylene	ND		0.50		ug/L			05/29/20 10:26	1
m,p-Xylene	ND		1.0		ug/L			05/29/20 10:26	1
p-Isopropyltoluene	ND		0.50		ug/L			05/29/20 10:26	1
sec-Butylbenzene	ND		0.50		ug/L			05/29/20 10:26	1
Styrene	ND		0.50		ug/L			05/29/20 10:26	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/29/20 10:26	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/29/20 10:26	1
tert-Butylbenzene	ND		0.50		ug/L			05/29/20 10:26	1
Tetrachloroethene	ND		0.50		ug/L			05/29/20 10:26	1
Toluene	ND		0.50		ug/L			05/29/20 10:26	1
Trichloroethene	ND		0.50		ug/L			05/29/20 10:26	1
Trichlorofluoromethane	ND		0.50		ug/L			05/29/20 10:26	1
Vinyl acetate	ND		5.0		ug/L			05/29/20 10:26	1
Vinyl chloride	ND		0.50		ug/L			05/29/20 10:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 128*		*05/29/20 10:26*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 120*		*05/29/20 10:26*	*1*
Dibromofluoromethane	*96*		*80 - 127*		*05/29/20 10:26*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/29/20 10:26*	*1*

Lab Sample ID: LCS 570-72089/3
Matrix: Water
Analysis Batch: 72089

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	10.0	7.945		ug/L		79	77 - 120
1,2-Dibromoethane	10.0	10.33		ug/L		103	80 - 120
1,2-Dichlorobenzene	10.0	10.06		ug/L		101	80 - 120
1,2-Dichloroethane	10.0	10.21		ug/L		102	80 - 122

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-72089/3
Matrix: Water
Analysis Batch: 72089

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			10.0	11.13		ug/L		111	80 - 120		
Carbon tetrachloride			10.0	11.07		ug/L		111	80 - 129		
Chlorobenzene			10.0	10.07		ug/L		101	80 - 120		
Ethylbenzene			10.0	10.35		ug/L		104	80 - 120		
Methyl-t-Butyl Ether (MTBE)			10.0	8.347		ug/L		83	75 - 123		
o-Xylene			10.0	10.67		ug/L		107	80 - 120		
m,p-Xylene			20.0	20.29		ug/L		101	80 - 120		
Toluene			10.0	10.43		ug/L		104	80 - 120		
Trichloroethene			10.0	10.53		ug/L		105	80 - 120		
Vinyl chloride			10.0	11.50		ug/L		115	63 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 128*
4-Bromofluorobenzene (Surr)	*100*		*68 - 120*
Dibromofluoromethane	*97*		*80 - 127*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: LCSD 570-72089/4
Matrix: Water
Analysis Batch: 72089

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene			10.0	7.639	*	ug/L		76	77 - 120	4	26
1,2-Dibromoethane			10.0	10.24		ug/L		102	80 - 120	1	32
1,2-Dichlorobenzene			10.0	10.02		ug/L		100	80 - 120	0	30
1,2-Dichloroethane			10.0	10.24		ug/L		102	80 - 122	0	23
Benzene			10.0	10.79		ug/L		108	80 - 120	3	22
Carbon tetrachloride			10.0	10.73		ug/L		107	80 - 129	3	36
Chlorobenzene			10.0	9.719		ug/L		97	80 - 120	4	29
Ethylbenzene			10.0	10.04		ug/L		100	80 - 120	3	25
Methyl-t-Butyl Ether (MTBE)			10.0	8.492		ug/L		85	75 - 123	2	27
o-Xylene			10.0	10.24		ug/L		102	80 - 120	4	30
m,p-Xylene			20.0	19.94		ug/L		100	80 - 120	2	30
Toluene			10.0	10.12		ug/L		101	80 - 120	3	28
Trichloroethene			10.0	10.18		ug/L		102	80 - 120	3	25
Vinyl chloride			10.0	10.80		ug/L		108	63 - 135	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 128*
4-Bromofluorobenzene (Surr)	*98*		*68 - 120*
Dibromofluoromethane	*98*		*80 - 127*
Toluene-d8 (Surr)	*101*		*80 - 120*

GC/MS VOA

Analysis Batch: 71137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-28918-1	TB-202005	Total/NA	Water	8260B	
570-28918-2	RW-11-201905	Total/NA	Water	8260B	
570-28918-3	RW-06-201905	Total/NA	Water	8260B	
570-28918-4	RW-16-201905	Total/NA	Water	8260B	
MB 570-71137/7	Method Blank	Total/NA	Water	8260B	
LCS 570-71137/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-71137/4	Lab Control Sample Dup	Total/NA	Water	8260B	
570-28918-2 MS	RW-11-201905	Total/NA	Water	8260B	
570-28918-2 MSD	RW-11-201905	Total/NA	Water	8260B	

Analysis Batch: 71138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-28918-5	DUP2-201905	Total/NA	Water	8260B	
570-28918-6	RW-04-202005	Total/NA	Water	8260B	
570-28918-7	RW-10-202005	Total/NA	Water	8260B	
570-28918-8	MW-39-202005	Total/NA	Water	8260B	
570-28918-9	RW-09-202005	Total/NA	Water	8260B	
570-28918-11	MW-19S-202005	Total/NA	Water	8260B	
570-28918-12	MW-19D-202005	Total/NA	Water	8260B	
570-28918-13	RW-15-202005	Total/NA	Water	8260B	
570-28918-14	CM-8D-202105	Total/NA	Water	8260B	
570-28918-15	MW-37-202105	Total/NA	Water	8260B	
570-28918-16	DUP3-202105	Total/NA	Water	8260B	
570-28918-17	CM-4D-202105	Total/NA	Water	8260B	
570-28918-18	DUP1-202105	Total/NA	Water	8260B	
570-28918-19	MW-16-202105	Total/NA	Water	8260B	
570-28918-20	CM-16-202105	Total/NA	Water	8260B	
MB 570-71138/7	Method Blank	Total/NA	Water	8260B	
LCS 570-71138/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-71138/4	Lab Control Sample Dup	Total/NA	Water	8260B	
570-28918-17 MS	CM-4D-202105	Total/NA	Water	8260B	
570-28918-17 MSD	CM-4D-202105	Total/NA	Water	8260B	

Analysis Batch: 71247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-28918-3 - DL	RW-06-201905	Total/NA	Water	8260B	
570-28918-10	MW-20S-202005	Total/NA	Water	8260B	
MB 570-71247/10	Method Blank	Total/NA	Water	8260B	
LCS 570-71247/6	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-71247/7	Lab Control Sample Dup	Total/NA	Water	8260B	
570-28893-A-9 MS	Matrix Spike	Total/NA	Water	8260B	
570-28893-A-9 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 72089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-28918-4	RW-16-201905	Total/NA	Water	8260B	
570-28918-5	DUP2-201905	Total/NA	Water	8260B	
MB 570-72089/6	Method Blank	Total/NA	Water	8260B	
LCS 570-72089/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-72089/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC
Project/Site: CANOGA PARK 1SA20

Job ID: 570-28918-1

Client Sample ID: TB-202005
Date Collected: 05/20/20 08:00
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	71137	05/25/20 03:41	UJHB	ECL 2
	Instrument ID: GCMSUU									

Client Sample ID: RW-11-201905
Date Collected: 05/19/20 14:36
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	20 mL	20 mL	71137	05/25/20 04:08	UJHB	ECL 2
	Instrument ID: GCMSUU									

Client Sample ID: RW-06-201905
Date Collected: 05/19/20 14:17
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	71137	05/25/20 04:34	UJHB	ECL 2
	Instrument ID: GCMSUU									
Total/NA	Analysis	8260B	DL	4	20 mL	20 mL	71247	05/27/20 01:15	UJHB	ECL 2
	Instrument ID: GCMSUU									

Client Sample ID: RW-16-201905
Date Collected: 05/19/20 15:49
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	71137	05/25/20 05:01	UJHB	ECL 2
	Instrument ID: GCMSUU									
Total/NA	Analysis	8260B		1	20 mL	20 mL	72089	05/29/20 16:12	UJHB	ECL 2
	Instrument ID: GCMSUU									

Client Sample ID: DUP2-201905
Date Collected: 05/19/20 15:51
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	71138	05/24/20 22:16	UJHB	ECL 2
	Instrument ID: GCMSL									
Total/NA	Analysis	8260B		1	20 mL	20 mL	72089	05/29/20 16:41	UJHB	ECL 2
	Instrument ID: GCMSUU									

Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC
Project/Site: CANOGA PARK 1SA20

Job ID: 570-28918-1

Client Sample ID: RW-04-202005
Date Collected: 05/20/20 08:38
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	71138	05/24/20 22:45	UJHB	ECL 2
	Instrument ID: GCMSL									

Client Sample ID: RW-10-202005
Date Collected: 05/20/20 09:23
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	20 mL	20 mL	71138	05/24/20 23:14	UJHB	ECL 2
	Instrument ID: GCMSL									

Client Sample ID: MW-39-202005
Date Collected: 05/20/20 09:46
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	20 mL	20 mL	71138	05/24/20 23:43	UJHB	ECL 2
	Instrument ID: GCMSL									

Client Sample ID: RW-09-202005
Date Collected: 05/20/20 10:34
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	71138	05/25/20 00:12	UJHB	ECL 2
	Instrument ID: GCMSL									

Client Sample ID: MW-20S-202005
Date Collected: 05/20/20 11:30
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	20 mL	20 mL	71247	05/27/20 01:41	UJHB	ECL 2
	Instrument ID: GCMSUU									

Client Sample ID: MW-19S-202005
Date Collected: 05/20/20 12:17
Date Received: 05/21/20 17:55

Lab Sample ID: 570-28918-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	71138	05/25/20 01:10	UJHB	ECL 2
	Instrument ID: GCMSL									

Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC
Project/Site: CANOGA PARK 1SA20

Job ID: 570-28918-1

Client Sample ID: MW-19D-202005
Lab Sample ID: 570-28918-12
Date Collected: 05/20/20 13:06
Matrix: Water
Date Received: 05/21/20 17:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	71138	05/25/20 01:39	UJHB	ECL 2
	Instrument ID: GCMSL									

Client Sample ID: RW-15-202005
Lab Sample ID: 570-28918-13
Date Collected: 05/20/20 14:30
Matrix: Water
Date Received: 05/21/20 17:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	71138	05/25/20 02:08	UJHB	ECL 2
	Instrument ID: GCMSL									

Client Sample ID: CM-8D-202105
Lab Sample ID: 570-28918-14
Date Collected: 05/21/20 08:56
Matrix: Water
Date Received: 05/21/20 17:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	71138	05/25/20 02:37	UJHB	ECL 2
	Instrument ID: GCMSL									

Client Sample ID: MW-37-202105
Lab Sample ID: 570-28918-15
Date Collected: 05/21/20 10:17
Matrix: Water
Date Received: 05/21/20 17:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	20 mL	20 mL	71138	05/25/20 03:06	UJHB	ECL 2
	Instrument ID: GCMSL									

Client Sample ID: DUP3-202105
Lab Sample ID: 570-28918-16
Date Collected: 05/21/20 10:30
Matrix: Water
Date Received: 05/21/20 17:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	20 mL	20 mL	71138	05/25/20 03:35	UJHB	ECL 2
	Instrument ID: GCMSL									

Client Sample ID: CM-4D-202105
Lab Sample ID: 570-28918-17
Date Collected: 05/21/20 11:16
Matrix: Water
Date Received: 05/21/20 17:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	71138	05/25/20 04:04	UJHB	ECL 2
	Instrument ID: GCMSL									

Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC
Project/Site: CANOGA PARK 1SA20

Job ID: 570-28918-1

Client Sample ID: DUP1-202105

Lab Sample ID: 570-28918-18

Date Collected: 05/21/20 11:40
Matrix: Water
Date Received: 05/21/20 17:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	71138	05/25/20 04:33	UJHB	ECL 2
	Instrument ID: GCMSL									

Client Sample ID: MW-16-202105

Lab Sample ID: 570-28918-19

Date Collected: 05/21/20 12:23
Matrix: Water
Date Received: 05/21/20 17:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	71138	05/25/20 05:02	UJHB	ECL 2
	Instrument ID: GCMSL									

Client Sample ID: CM-16-202105

Lab Sample ID: 570-28918-20

Date Collected: 05/21/20 13:05
Matrix: Water
Date Received: 05/21/20 17:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	71138	05/25/20 05:31	UJHB	ECL 2
	Instrument ID: GCMSL									

Laboratory References:

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: Oneida Total Integrated Enterprises LLC
Job ID: 570-28918-1
Project/Site: CANOGA PARK 1SA20

Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-29-20
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-29-20
Guam	State	20-003R	10-31-20
Nevada	State	CA00111	07-31-20
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-20

Method Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: CANOGA PARK 1SA20

Job ID: 570-28918-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	ECL 2
5030C	Purge and Trap	SW846	ECL 2

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

Sample Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: CANOGA PARK 1SA20

Job ID: 570-28918-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-28918-1	TB-202005	Water	05/20/20 08:00	05/21/20 17:55	
570-28918-2	RW-11-201905	Water	05/19/20 14:36	05/21/20 17:55	
570-28918-3	RW-06-201905	Water	05/19/20 14:17	05/21/20 17:55	
570-28918-4	RW-16-201905	Water	05/19/20 15:49	05/21/20 17:55	
570-28918-5	DUP2-201905	Water	05/19/20 15:51	05/21/20 17:55	
570-28918-6	RW-04-202005	Water	05/20/20 08:38	05/21/20 17:55	
570-28918-7	RW-10-202005	Water	05/20/20 09:23	05/21/20 17:55	
570-28918-8	MW-39-202005	Water	05/20/20 09:46	05/21/20 17:55	
570-28918-9	RW-09-202005	Water	05/20/20 10:34	05/21/20 17:55	
570-28918-10	MW-20S-202005	Water	05/20/20 11:30	05/21/20 17:55	
570-28918-11	MW-19S-202005	Water	05/20/20 12:17	05/21/20 17:55	
570-28918-12	MW-19D-202005	Water	05/20/20 13:06	05/21/20 17:55	
570-28918-13	RW-15-202005	Water	05/20/20 14:30	05/21/20 17:55	
570-28918-14	CM-8D-202105	Water	05/21/20 08:56	05/21/20 17:55	
570-28918-15	MW-37-202105	Water	05/21/20 10:17	05/21/20 17:55	
570-28918-16	DUP3-202105	Water	05/21/20 10:30	05/21/20 17:55	
570-28918-17	CM-4D-202105	Water	05/21/20 11:16	05/21/20 17:55	
570-28918-18	DUP1-202105	Water	05/21/20 11:40	05/21/20 17:55	
570-28918-19	MW-16-202105	Water	05/21/20 12:23	05/21/20 17:55	
570-28918-20	CM-16-202105	Water	05/21/20 13:05	05/21/20 17:55	

Virendra Patel

From: Lindsey Larsen <LLarsen@otie.com>
Sent: Tuesday, June 2, 2020 10:33 AM
To: Virendra Patel; Emmanuel Vasquez; Kim Sawyer
Subject: RE: Eurofins Calscience report and EDD files from 570-28918-1 CANOGA PARK 1SA20

EXTERNAL EMAIL*

Hi Virendra,

We are okay with either a separate report for the two confirmation runs, or with a new report for the entire SDG, whichever is convenient.

Thank you!

From: Virendra Patel <VirendraPatel@eurofinsUS.com>
Sent: Tuesday, June 2, 2020 10:03 AM
To: Lindsey Larsen <LLarsen@otie.com>; Emmanuel Vasquez <EVasquez@otie.com>; Kim Sawyer <KSawyer@otie.com>
Subject: RE: Eurofins Calscience report and EDD files from 570-28918-1 CANOGA PARK 1SA20

Lindsey,

Good Morning. The lab has completed the confirmation runs on the two subject samples from this batch.

Sample #4 (RW-16) came out higher for the positive hits. Sample #5 (Dup2) confirmed the original run.

How would you like to proceed with data reporting? Please advise. Thank you.

Best Regards,

Virendra Patel
Project Manager

Eurofins Calscience
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F: +1 714 894 7501

Email: virendrapatel@eurofinsUS.com
Website: www.eurofinsUS.com/Calscience

Links to use:
Website: https://www.eurofinsus.com/environment-testing/
Facebook: https://www.facebook.com/EurofinsEnvTesting
LinkedIn: https://www.linkedin.com/company/eurofins-env-testing-america/

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be transferred by way of this email. We may monitor all email communication through our networks. If you contact us by email, we may store your name and address to facilitate communication.

From: Lindsey Larsen [mailto:LLarsen@otie.com]
Sent: Friday, May 29, 2020 9:22 AM
To: Virendra Patel; Emmanuel Vasquez; Kim Sawyer
Subject: RE: Eurofins Calscience report and EDD files from 570-28918-1 CANOGA PARK 1SA20

EXTERNAL EMAIL*

Hi Virendra,

We are looking at some unexpected RPDs on two samples in this SDG. Can we possibly re-run the samples/confirm the results for sample DUP2-201905 and RW-16-201905?

Thank you kindly

Lindsey Larsen
Oneida Total Integrated Enterprises (OTIE)
O: 951.259.2315
llarsen@otie.com

From: Virendra Patel <noreply@eurofinslimsservices.com>
Sent: Wednesday, May 27, 2020 6:01 PM
To: Emmanuel Vasquez <EVasquez@otie.com>; Jacques Marcillac <JMarcillac@srsllc.co>; Kim Sawyer <KSawyer@otie.com>; Lindsey Larsen <LLarsen@otie.com>; Patrick Devericks <PDevericks@otie.com>; Patel Virendra <virendrapatel@eurofinsus.com>
Subject: Eurofins Calscience report and EDD files from 570-28918-1 CANOGA PARK 1SA20

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Hello,

Attached please find the report and EDD files for job 570-28918-1; CANOGA PARK 1SA20

Please feel free to contact me if you have any questions.

Thank you.

Virendra Patel

Project Manager

Eurofins Calscience LLC
Phone: 714-895-5494

E-mail: virendrapatel@eurofinsus.com
www.eurofinsus.com/env



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28918

28918

Eurofins Calscience

7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

570-28918 Chain of Custody

CHAIN OF CUSTODY RECORD

DATE: 5/21/20

PAGE: 1 OF 2

LABORATORY CLIENT: OTIE	CLIENT PROJECT NAME / NUMBER: CANOGA PARK 1SA20	P.O. NO.: 2020.047/0102
ADDRESS: 317 E. Main Street, Ventura CA 93001	PROJECT CONTACT: Kim Sawyer	LAB USE ONLY
TEL: 805.585.2110 / FAX: 805.585.2111 / E-MAIL: ksawyer@otie.com	SAMPLER(S): (SIGNATURE)	COELT LOG CODE: T N A V
		COOLER RECEIPT: Temp = ____ °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ☐ 5 DAYS ☒ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING ☒ COELT EDF ☒ SL2043T1572

SPECIAL INSTRUCTIONS:
EPA 8260B 20ml LL – ECI TC#4785 (VOCs + MTBE)

** OTIE SPECIFIC EDDs **

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	EPA 8260B - VOCs	CONTAINER TYPE
1	TB - 202005	DCTB	~~5/20/20~~ 5/19/20	800	H2O	2	X	
2	RW11202005	RW-11	5/19/20	1436	WG	9	X	MS/MSD
3	RW-06-202005	RW-06	5/19/20	1417	WG	3	X	
4	RW-16-202005	RW-16	5/19/20	1549	WG	3	X	
5	DUP2-202005	~~FIELD~~ DUP	5/19/20	1551	WG	3	X	JP
6	RW-04-202005	RW-04	5/20/20	0836	WG	3	X	[redacted]
7	RW-10-202005	RW-10	5/20/20	0923	WG	3	X	
8	MW-39-202005	MW-39	5/20/20	0946	WG	3	X	
9	RW-01-202005	RW-01	5/20/20	1034	WG	3	X	
10	MW-20S-202005	MW-20S	5/20/20	1130	WG	3	X	

Relinquished by: (Signature)	Received by: (Signature)	Date: 05/21/20	Time: 14:11
Relinquished by: (Signature) Sampson, C	Received by: (Signature)	Date: 05/21/20	Time: 17:55
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

3.4 13.0 SCG

28918

Eurofins Calscience

7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: 5/21/20

PAGE: 2 OF 2

LABORATORY CLIENT: **OTIE**

ADDRESS: **317 E. Main Street, Ventura CA 93001**

TEL: **805.585.2110** | FAX: **805.585.2111** | E-MAIL: **ksawyer@otie.com**

CLIENT PROJECT NAME / NUMBER: **CANOGA PARK 1SA20**

PROJECT CONTACT: **Kim Sawyer**

SAMPLER(S) (SIGNATURE):

P.O. NO.: 2020.047/0102

LAB USE ONLY

COELT LOG CODE: T N A V

COOLER RECEIPT: Temp = ____ °C

TURNAROUND TIME: ☐ SAME-DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ☐ 5 DAYS ☒ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING ☒ COELT EDF ☒ SL2043T1572

SPECIAL INSTRUCTIONS:
EPA 8260B 20ml LL – ECI TC#4785 (VOCs + MTBE)

** OTIE SPECIFIC EDDs **

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	EPA 8260B - VOCs	CONTAINER TYPE
11	MW-19S-202005	MW-19S	5/20/20	1317	GW	3	X	
12	MW-19D-202005	MW-19D	5/20/20	1306	GW	3	X	
13	RW-15-202005	RW-15	5/20/20	1430	GW	3	X	
14	CM-8D-202105	CM-8D	5/21/20	0856	GW	3	X	
15	MW-37-202105	MW 37	5/21/20	1017	GW	3	X	
16	DUP3-202105	TP ~~DUP~~	5/21/20	1030	GW	3	X	
17	CM-4D-202105	CM-4D	5/21/20	1116	GW	9	X	MS/MSD
18	DUP1-202105	TP ~~DUP~~	5/21/20	1140	GW	3	X	
19	MW-16-202105	MW-16	5/21/20	1223	GW	3	X	
20	CM-16-202105	CM-16	5/21/20	1305	GW	3	X	

Relinquished by: (Signature)	Received by: (Signature)	Date: 05/21/20	Time: 14:11
Relinquished by: (Signature) SAMPLE	Received by: (Signature)	Date: 05/21/20	Time: 17:55
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 570-28918-1

Login Number: 28918
List Number: 1
Creator: Le, Sunny

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-28689-1
Client Project/Site: Canoga Park 1SA20

For:
Oneida Total Integrated Enterprises LLC
317 E Main Street
Ventura, California 93001

Attn: Kim Sawyer

Virendra R Patel

Authorized for release by:
5/27/2020 11:19:35 AM

Virendra Patel, Project Manager I
(714)895-5494
virendrapatel@eurofinsus.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Surrogate Summary 18
QC Sample Results 19
QC Association Summary 23
Lab Chronicle 24
Certification Summary 26
Method Summary 27
Sample Summary 28
Chain of Custody 29
Receipt Checklists 31

Definitions/Glossary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: Canoga Park 1SA20

Job ID: 570-28689-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 570-28689-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-28689-1

Comments
No additional comments.

Receipt
The samples were received on 5/19/2020 6:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2º C.

GC/MS VOA
Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) precision for analytical batch 570-70753 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: Canoga Park 1SA20

Job ID: 570-28689-1

Client Sample ID: MW-15-201905 — Lab Sample ID: 570-28689-1

No Detections.

Client Sample ID: RW-05-201905 — Lab Sample ID: 570-28689-2

No Detections.

Client Sample ID: RW-07-201905 — Lab Sample ID: 570-28689-3

No Detections.

Client Sample ID: RW-08-201905 — Lab Sample ID: 570-28689-4

No Detections.

Client Sample ID: CM-7D-201905 — Lab Sample ID: 570-28689-5

No Detections.

Client Sample ID: RW-13-201905 — Lab Sample ID: 570-28689-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.52		0.50		ug/L	1		8260B	Total/NA
Trichloroethene	0.71		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: RW-01-201905 — Lab Sample ID: 570-28689-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.54		0.50		ug/L	1		8260B	Total/NA
1,1-Dichloroethene	12		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: TB-201905 — Lab Sample ID: 570-28689-8

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Oneida Total Integrated Enterprises LLC
Project/Site: Canoga Park 1SA20

Job ID: 570-28689-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: MW-15-201905
Date Collected: 05/19/20 09:08
Date Received: 05/19/20 18:10

Lab Sample ID: 570-28689-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/22/20 15:49	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/22/20 15:49	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/22/20 15:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/22/20 15:49	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/22/20 15:49	1
1,1-Dichloroethane	ND		0.50		ug/L			05/22/20 15:49	1
1,1-Dichloroethene	ND		0.50		ug/L			05/22/20 15:49	1
1,1-Dichloropropene	ND		0.50		ug/L			05/22/20 15:49	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/22/20 15:49	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/22/20 15:49	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/22/20 15:49	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/22/20 15:49	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/22/20 15:49	1
1,2-Dibromoethane	ND		0.50		ug/L			05/22/20 15:49	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/22/20 15:49	1
1,2-Dichloroethane	ND		0.50		ug/L			05/22/20 15:49	1
1,2-Dichloropropane	ND		0.50		ug/L			05/22/20 15:49	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/22/20 15:49	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/22/20 15:49	1
1,3-Dichloropropane	ND		1.0		ug/L			05/22/20 15:49	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/22/20 15:49	1
2,2-Dichloropropane	ND		1.0		ug/L			05/22/20 15:49	1
2-Butanone	ND		5.0		ug/L			05/22/20 15:49	1
2-Chlorotoluene	ND		0.50		ug/L			05/22/20 15:49	1
2-Hexanone	ND		10		ug/L			05/22/20 15:49	1
4-Chlorotoluene	ND		0.50		ug/L			05/22/20 15:49	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/22/20 15:49	1
Acetone	ND		10		ug/L			05/22/20 15:49	1
Benzene	ND		0.50		ug/L			05/22/20 15:49	1
Bromobenzene	ND		0.50		ug/L			05/22/20 15:49	1
Bromochloromethane	ND		1.0		ug/L			05/22/20 15:49	1
Bromodichloromethane	ND		0.50		ug/L			05/22/20 15:49	1
Bromoform	ND		0.50		ug/L			05/22/20 15:49	1
Bromomethane	ND		2.0		ug/L			05/22/20 15:49	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/22/20 15:49	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/22/20 15:49	1
Carbon disulfide	ND		10		ug/L			05/22/20 15:49	1
Carbon tetrachloride	ND		0.50		ug/L			05/22/20 15:49	1
Chlorobenzene	ND		0.50		ug/L			05/22/20 15:49	1
Chloroethane	ND		0.50		ug/L			05/22/20 15:49	1
Chloroform	ND		0.50		ug/L			05/22/20 15:49	1
Chloromethane	ND		5.0		ug/L			05/22/20 15:49	1
Dibromochloromethane	ND		0.50		ug/L			05/22/20 15:49	1
Dibromomethane	ND		0.50		ug/L			05/22/20 15:49	1
Dichlorodifluoromethane	ND		1.0		ug/L			05/22/20 15:49	1
Ethylbenzene	ND		0.50		ug/L			05/22/20 15:49	1
Isopropylbenzene	ND		0.50		ug/L			05/22/20 15:49	1
Methylene Chloride	ND		1.0		ug/L			05/22/20 15:49	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			05/22/20 15:49	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-15-201905
Date Collected: 05/19/20 09:08
Date Received: 05/19/20 18:10
Lab Sample ID: 570-28689-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			05/22/20 15:49	1
n-Butylbenzene	ND		0.50		ug/L			05/22/20 15:49	1
N-Propylbenzene	ND		0.50		ug/L			05/22/20 15:49	1
o-Xylene	ND		0.50		ug/L			05/22/20 15:49	1
m,p-Xylene	ND		1.0		ug/L			05/22/20 15:49	1
p-Isopropyltoluene	ND		0.50		ug/L			05/22/20 15:49	1
sec-Butylbenzene	ND		0.50		ug/L			05/22/20 15:49	1
Styrene	ND		0.50		ug/L			05/22/20 15:49	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/22/20 15:49	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/22/20 15:49	1
tert-Butylbenzene	ND		0.50		ug/L			05/22/20 15:49	1
Tetrachloroethene	ND		0.50		ug/L			05/22/20 15:49	1
Toluene	ND		0.50		ug/L			05/22/20 15:49	1
Trichloroethene	ND		0.50		ug/L			05/22/20 15:49	1
Trichlorofluoromethane	ND		0.50		ug/L			05/22/20 15:49	1
Vinyl acetate	ND		5.0		ug/L			05/22/20 15:49	1
Vinyl chloride	ND		0.50		ug/L			05/22/20 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 128*		*05/22/20 15:49*	*1*
4-Bromofluorobenzene (Surr)	*92*		*68 - 120*		*05/22/20 15:49*	*1*
Dibromofluoromethane	*96*		*80 - 127*		*05/22/20 15:49*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/22/20 15:49*	*1*

Client Sample ID: RW-05-201905
Date Collected: 05/19/20 10:04
Date Received: 05/19/20 18:10
Lab Sample ID: 570-28689-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/22/20 16:18	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/22/20 16:18	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/22/20 16:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/22/20 16:18	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/22/20 16:18	1
1,1-Dichloroethane	ND		0.50		ug/L			05/22/20 16:18	1
1,1-Dichloroethene	ND		0.50		ug/L			05/22/20 16:18	1
1,1-Dichloropropene	ND		0.50		ug/L			05/22/20 16:18	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/22/20 16:18	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/22/20 16:18	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/22/20 16:18	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/22/20 16:18	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/22/20 16:18	1
1,2-Dibromoethane	ND		0.50		ug/L			05/22/20 16:18	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/22/20 16:18	1
1,2-Dichloroethane	ND		0.50		ug/L			05/22/20 16:18	1
1,2-Dichloropropane	ND		0.50		ug/L			05/22/20 16:18	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/22/20 16:18	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/22/20 16:18	1
1,3-Dichloropropane	ND		1.0		ug/L			05/22/20 16:18	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/22/20 16:18	1
2,2-Dichloropropane	ND		1.0		ug/L			05/22/20 16:18	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: RW-05-201905
Date Collected: 05/19/20 10:04
Date Received: 05/19/20 18:10

Lab Sample ID: 570-28689-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			05/22/20 16:18	1
2-Chlorotoluene	ND		0.50		ug/L			05/22/20 16:18	1
2-Hexanone	ND		10		ug/L			05/22/20 16:18	1
4-Chlorotoluene	ND		0.50		ug/L			05/22/20 16:18	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/22/20 16:18	1
Acetone	ND		10		ug/L			05/22/20 16:18	1
Benzene	ND		0.50		ug/L			05/22/20 16:18	1
Bromobenzene	ND		0.50		ug/L			05/22/20 16:18	1
Bromochloromethane	ND		1.0		ug/L			05/22/20 16:18	1
Bromodichloromethane	ND		0.50		ug/L			05/22/20 16:18	1
Bromoform	ND		0.50		ug/L			05/22/20 16:18	1
Bromomethane	ND		2.0		ug/L			05/22/20 16:18	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/22/20 16:18	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/22/20 16:18	1
Carbon disulfide	ND		10		ug/L			05/22/20 16:18	1
Carbon tetrachloride	ND		0.50		ug/L			05/22/20 16:18	1
Chlorobenzene	ND		0.50		ug/L			05/22/20 16:18	1
Chloroethane	ND		0.50		ug/L			05/22/20 16:18	1
Chloroform	ND		0.50		ug/L			05/22/20 16:18	1
Chloromethane	ND		5.0		ug/L			05/22/20 16:18	1
Dibromochloromethane	ND		0.50		ug/L			05/22/20 16:18	1
Dibromomethane	ND		0.50		ug/L			05/22/20 16:18	1
Dichlorodifluoromethane	ND		1.0		ug/L			05/22/20 16:18	1
Ethylbenzene	ND		0.50		ug/L			05/22/20 16:18	1
Isopropylbenzene	ND		0.50		ug/L			05/22/20 16:18	1
Methylene Chloride	ND		1.0		ug/L			05/22/20 16:18	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			05/22/20 16:18	1
Naphthalene	ND		1.0		ug/L			05/22/20 16:18	1
n-Butylbenzene	ND		0.50		ug/L			05/22/20 16:18	1
N-Propylbenzene	ND		0.50		ug/L			05/22/20 16:18	1
o-Xylene	ND		0.50		ug/L			05/22/20 16:18	1
m,p-Xylene	ND		1.0		ug/L			05/22/20 16:18	1
p-Isopropyltoluene	ND		0.50		ug/L			05/22/20 16:18	1
sec-Butylbenzene	ND		0.50		ug/L			05/22/20 16:18	1
Styrene	ND		0.50		ug/L			05/22/20 16:18	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/22/20 16:18	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/22/20 16:18	1
tert-Butylbenzene	ND		0.50		ug/L			05/22/20 16:18	1
Tetrachloroethene	ND		0.50		ug/L			05/22/20 16:18	1
Toluene	ND		0.50		ug/L			05/22/20 16:18	1
Trichloroethene	ND		0.50		ug/L			05/22/20 16:18	1
Trichlorofluoromethane	ND		0.50		ug/L			05/22/20 16:18	1
Vinyl acetate	ND		5.0		ug/L			05/22/20 16:18	1
Vinyl chloride	ND		0.50		ug/L			05/22/20 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 128*		*05/22/20 16:18*	*1*
4-Bromofluorobenzene (Surr)	*92*		*68 - 120*		*05/22/20 16:18*	*1*
Dibromofluoromethane	*101*		*80 - 127*		*05/22/20 16:18*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/22/20 16:18*	*1*

Client: Oneida Total Integrated Enterprises LLC
Project/Site: Canoga Park 1SA20

Job ID: 570-28689-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: RW-07-201905
Date Collected: 05/19/20 10:47
Date Received: 05/19/20 18:10

Lab Sample ID: 570-28689-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/22/20 16:47	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/22/20 16:47	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/22/20 16:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/22/20 16:47	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/22/20 16:47	1
1,1-Dichloroethane	ND		0.50		ug/L			05/22/20 16:47	1
1,1-Dichloroethene	ND		0.50		ug/L			05/22/20 16:47	1
1,1-Dichloropropene	ND		0.50		ug/L			05/22/20 16:47	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/22/20 16:47	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/22/20 16:47	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/22/20 16:47	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/22/20 16:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/22/20 16:47	1
1,2-Dibromoethane	ND		0.50		ug/L			05/22/20 16:47	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/22/20 16:47	1
1,2-Dichloroethane	ND		0.50		ug/L			05/22/20 16:47	1
1,2-Dichloropropane	ND		0.50		ug/L			05/22/20 16:47	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/22/20 16:47	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/22/20 16:47	1
1,3-Dichloropropane	ND		1.0		ug/L			05/22/20 16:47	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/22/20 16:47	1
2,2-Dichloropropane	ND		1.0		ug/L			05/22/20 16:47	1
2-Butanone	ND		5.0		ug/L			05/22/20 16:47	1
2-Chlorotoluene	ND		0.50		ug/L			05/22/20 16:47	1
2-Hexanone	ND		10		ug/L			05/22/20 16:47	1
4-Chlorotoluene	ND		0.50		ug/L			05/22/20 16:47	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/22/20 16:47	1
Acetone	ND		10		ug/L			05/22/20 16:47	1
Benzene	ND		0.50		ug/L			05/22/20 16:47	1
Bromobenzene	ND		0.50		ug/L			05/22/20 16:47	1
Bromochloromethane	ND		1.0		ug/L			05/22/20 16:47	1
Bromodichloromethane	ND		0.50		ug/L			05/22/20 16:47	1
Bromoform	ND		0.50		ug/L			05/22/20 16:47	1
Bromomethane	ND		2.0		ug/L			05/22/20 16:47	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/22/20 16:47	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/22/20 16:47	1
Carbon disulfide	ND		10		ug/L			05/22/20 16:47	1
Carbon tetrachloride	ND		0.50		ug/L			05/22/20 16:47	1
Chlorobenzene	ND		0.50		ug/L			05/22/20 16:47	1
Chloroethane	ND		0.50		ug/L			05/22/20 16:47	1
Chloroform	ND		0.50		ug/L			05/22/20 16:47	1
Chloromethane	ND		5.0		ug/L			05/22/20 16:47	1
Dibromochloromethane	ND		0.50		ug/L			05/22/20 16:47	1
Dibromomethane	ND		0.50		ug/L			05/22/20 16:47	1
Dichlorodifluoromethane	ND		1.0		ug/L			05/22/20 16:47	1
Ethylbenzene	ND		0.50		ug/L			05/22/20 16:47	1
Isopropylbenzene	ND		0.50		ug/L			05/22/20 16:47	1
Methylene Chloride	ND		1.0		ug/L			05/22/20 16:47	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			05/22/20 16:47	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: RW-07-201905
Date Collected: 05/19/20 10:47
Date Received: 05/19/20 18:10
Lab Sample ID: 570-28689-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			05/22/20 16:47	1
n-Butylbenzene	ND		0.50		ug/L			05/22/20 16:47	1
N-Propylbenzene	ND		0.50		ug/L			05/22/20 16:47	1
o-Xylene	ND		0.50		ug/L			05/22/20 16:47	1
m,p-Xylene	ND		1.0		ug/L			05/22/20 16:47	1
p-Isopropyltoluene	ND		0.50		ug/L			05/22/20 16:47	1
sec-Butylbenzene	ND		0.50		ug/L			05/22/20 16:47	1
Styrene	ND		0.50		ug/L			05/22/20 16:47	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/22/20 16:47	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/22/20 16:47	1
tert-Butylbenzene	ND		0.50		ug/L			05/22/20 16:47	1
Tetrachloroethene	ND		0.50		ug/L			05/22/20 16:47	1
Toluene	ND		0.50		ug/L			05/22/20 16:47	1
Trichloroethene	ND		0.50		ug/L			05/22/20 16:47	1
Trichlorofluoromethane	ND		0.50		ug/L			05/22/20 16:47	1
Vinyl acetate	ND		5.0		ug/L			05/22/20 16:47	1
Vinyl chloride	ND		0.50		ug/L			05/22/20 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 128*		*05/22/20 16:47*	*1*
4-Bromofluorobenzene (Surr)	*93*		*68 - 120*		*05/22/20 16:47*	*1*
Dibromofluoromethane	*105*		*80 - 127*		*05/22/20 16:47*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/22/20 16:47*	*1*

Client Sample ID: RW-08-201905
Date Collected: 05/19/20 11:31
Date Received: 05/19/20 18:10
Lab Sample ID: 570-28689-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/22/20 17:16	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/22/20 17:16	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/22/20 17:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/22/20 17:16	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/22/20 17:16	1
1,1-Dichloroethane	ND		0.50		ug/L			05/22/20 17:16	1
1,1-Dichloroethene	ND		0.50		ug/L			05/22/20 17:16	1
1,1-Dichloropropene	ND		0.50		ug/L			05/22/20 17:16	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/22/20 17:16	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/22/20 17:16	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/22/20 17:16	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/22/20 17:16	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/22/20 17:16	1
1,2-Dibromoethane	ND		0.50		ug/L			05/22/20 17:16	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/22/20 17:16	1
1,2-Dichloroethane	ND		0.50		ug/L			05/22/20 17:16	1
1,2-Dichloropropane	ND		0.50		ug/L			05/22/20 17:16	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/22/20 17:16	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/22/20 17:16	1
1,3-Dichloropropane	ND		1.0		ug/L			05/22/20 17:16	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/22/20 17:16	1
2,2-Dichloropropane	ND		1.0		ug/L			05/22/20 17:16	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: RW-08-201905
Date Collected: 05/19/20 11:31
Date Received: 05/19/20 18:10

Lab Sample ID: 570-28689-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			05/22/20 17:16	1
2-Chlorotoluene	ND		0.50		ug/L			05/22/20 17:16	1
2-Hexanone	ND		10		ug/L			05/22/20 17:16	1
4-Chlorotoluene	ND		0.50		ug/L			05/22/20 17:16	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/22/20 17:16	1
Acetone	ND		10		ug/L			05/22/20 17:16	1
Benzene	ND		0.50		ug/L			05/22/20 17:16	1
Bromobenzene	ND		0.50		ug/L			05/22/20 17:16	1
Bromochloromethane	ND		1.0		ug/L			05/22/20 17:16	1
Bromodichloromethane	ND		0.50		ug/L			05/22/20 17:16	1
Bromoform	ND		0.50		ug/L			05/22/20 17:16	1
Bromomethane	ND		2.0		ug/L			05/22/20 17:16	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/22/20 17:16	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/22/20 17:16	1
Carbon disulfide	ND		10		ug/L			05/22/20 17:16	1
Carbon tetrachloride	ND		0.50		ug/L			05/22/20 17:16	1
Chlorobenzene	ND		0.50		ug/L			05/22/20 17:16	1
Chloroethane	ND		0.50		ug/L			05/22/20 17:16	1
Chloroform	ND		0.50		ug/L			05/22/20 17:16	1
Chloromethane	ND		5.0		ug/L			05/22/20 17:16	1
Dibromochloromethane	ND		0.50		ug/L			05/22/20 17:16	1
Dibromomethane	ND		0.50		ug/L			05/22/20 17:16	1
Dichlorodifluoromethane	ND		1.0		ug/L			05/22/20 17:16	1
Ethylbenzene	ND		0.50		ug/L			05/22/20 17:16	1
Isopropylbenzene	ND		0.50		ug/L			05/22/20 17:16	1
Methylene Chloride	ND		1.0		ug/L			05/22/20 17:16	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			05/22/20 17:16	1
Naphthalene	ND		1.0		ug/L			05/22/20 17:16	1
n-Butylbenzene	ND		0.50		ug/L			05/22/20 17:16	1
N-Propylbenzene	ND		0.50		ug/L			05/22/20 17:16	1
o-Xylene	ND		0.50		ug/L			05/22/20 17:16	1
m,p-Xylene	ND		1.0		ug/L			05/22/20 17:16	1
p-Isopropyltoluene	ND		0.50		ug/L			05/22/20 17:16	1
sec-Butylbenzene	ND		0.50		ug/L			05/22/20 17:16	1
Styrene	ND		0.50		ug/L			05/22/20 17:16	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/22/20 17:16	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/22/20 17:16	1
tert-Butylbenzene	ND		0.50		ug/L			05/22/20 17:16	1
Tetrachloroethene	ND		0.50		ug/L			05/22/20 17:16	1
Toluene	ND		0.50		ug/L			05/22/20 17:16	1
Trichloroethene	ND		0.50		ug/L			05/22/20 17:16	1
Trichlorofluoromethane	ND		0.50		ug/L			05/22/20 17:16	1
Vinyl acetate	ND		5.0		ug/L			05/22/20 17:16	1
Vinyl chloride	ND		0.50		ug/L			05/22/20 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 128*		*05/22/20 17:16*	*1*
4-Bromofluorobenzene (Surr)	*92*		*68 - 120*		*05/22/20 17:16*	*1*
Dibromofluoromethane	*104*		*80 - 127*		*05/22/20 17:16*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/22/20 17:16*	*1*

Client: Oneida Total Integrated Enterprises LLC
Project/Site: Canoga Park 1SA20

Job ID: 570-28689-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: CM-7D-201905
Date Collected: 05/19/20 13:36
Date Received: 05/19/20 18:10

Lab Sample ID: 570-28689-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/22/20 17:45	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/22/20 17:45	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/22/20 17:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/22/20 17:45	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/22/20 17:45	1
1,1-Dichloroethane	ND		0.50		ug/L			05/22/20 17:45	1
1,1-Dichloroethene	ND		0.50		ug/L			05/22/20 17:45	1
1,1-Dichloropropene	ND		0.50		ug/L			05/22/20 17:45	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/22/20 17:45	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/22/20 17:45	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/22/20 17:45	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/22/20 17:45	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/22/20 17:45	1
1,2-Dibromoethane	ND		0.50		ug/L			05/22/20 17:45	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/22/20 17:45	1
1,2-Dichloroethane	ND		0.50		ug/L			05/22/20 17:45	1
1,2-Dichloropropane	ND		0.50		ug/L			05/22/20 17:45	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/22/20 17:45	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/22/20 17:45	1
1,3-Dichloropropane	ND		1.0		ug/L			05/22/20 17:45	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/22/20 17:45	1
2,2-Dichloropropane	ND		1.0		ug/L			05/22/20 17:45	1
2-Butanone	ND		5.0		ug/L			05/22/20 17:45	1
2-Chlorotoluene	ND		0.50		ug/L			05/22/20 17:45	1
2-Hexanone	ND		10		ug/L			05/22/20 17:45	1
4-Chlorotoluene	ND		0.50		ug/L			05/22/20 17:45	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/22/20 17:45	1
Acetone	ND		10		ug/L			05/22/20 17:45	1
Benzene	ND		0.50		ug/L			05/22/20 17:45	1
Bromobenzene	ND		0.50		ug/L			05/22/20 17:45	1
Bromochloromethane	ND		1.0		ug/L			05/22/20 17:45	1
Bromodichloromethane	ND		0.50		ug/L			05/22/20 17:45	1
Bromoform	ND		0.50		ug/L			05/22/20 17:45	1
Bromomethane	ND		2.0		ug/L			05/22/20 17:45	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/22/20 17:45	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/22/20 17:45	1
Carbon disulfide	ND		10		ug/L			05/22/20 17:45	1
Carbon tetrachloride	ND		0.50		ug/L			05/22/20 17:45	1
Chlorobenzene	ND		0.50		ug/L			05/22/20 17:45	1
Chloroethane	ND		0.50		ug/L			05/22/20 17:45	1
Chloroform	ND		0.50		ug/L			05/22/20 17:45	1
Chloromethane	ND		5.0		ug/L			05/22/20 17:45	1
Dibromochloromethane	ND		0.50		ug/L			05/22/20 17:45	1
Dibromomethane	ND		0.50		ug/L			05/22/20 17:45	1
Dichlorodifluoromethane	ND		1.0		ug/L			05/22/20 17:45	1
Ethylbenzene	ND		0.50		ug/L			05/22/20 17:45	1
Isopropylbenzene	ND		0.50		ug/L			05/22/20 17:45	1
Methylene Chloride	ND		1.0		ug/L			05/22/20 17:45	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			05/22/20 17:45	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: CM-7D-201905
Date Collected: 05/19/20 13:36
Date Received: 05/19/20 18:10
Lab Sample ID: 570-28689-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			05/22/20 17:45	1
n-Butylbenzene	ND		0.50		ug/L			05/22/20 17:45	1
N-Propylbenzene	ND		0.50		ug/L			05/22/20 17:45	1
o-Xylene	ND		0.50		ug/L			05/22/20 17:45	1
m,p-Xylene	ND		1.0		ug/L			05/22/20 17:45	1
p-Isopropyltoluene	ND		0.50		ug/L			05/22/20 17:45	1
sec-Butylbenzene	ND		0.50		ug/L			05/22/20 17:45	1
Styrene	ND		0.50		ug/L			05/22/20 17:45	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/22/20 17:45	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/22/20 17:45	1
tert-Butylbenzene	ND		0.50		ug/L			05/22/20 17:45	1
Tetrachloroethene	ND		0.50		ug/L			05/22/20 17:45	1
Toluene	ND		0.50		ug/L			05/22/20 17:45	1
Trichloroethene	ND		0.50		ug/L			05/22/20 17:45	1
Trichlorofluoromethane	ND		0.50		ug/L			05/22/20 17:45	1
Vinyl acetate	ND		5.0		ug/L			05/22/20 17:45	1
Vinyl chloride	ND		0.50		ug/L			05/22/20 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 128*		*05/22/20 17:45*	*1*
4-Bromofluorobenzene (Surr)	*95*		*68 - 120*		*05/22/20 17:45*	*1*
Dibromofluoromethane	*104*		*80 - 127*		*05/22/20 17:45*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/22/20 17:45*	*1*

Client Sample ID: RW-13-201905
Date Collected: 05/19/20 13:39
Date Received: 05/19/20 18:10
Lab Sample ID: 570-28689-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/22/20 18:14	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/22/20 18:14	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/22/20 18:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/22/20 18:14	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/22/20 18:14	1
1,1-Dichloroethane	ND		0.50		ug/L			05/22/20 18:14	1
1,1-Dichloroethene	**0.52**		0.50		ug/L			05/22/20 18:14	1
1,1-Dichloropropene	ND		0.50		ug/L			05/22/20 18:14	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/22/20 18:14	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/22/20 18:14	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/22/20 18:14	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/22/20 18:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/22/20 18:14	1
1,2-Dibromoethane	ND		0.50		ug/L			05/22/20 18:14	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/22/20 18:14	1
1,2-Dichloroethane	ND		0.50		ug/L			05/22/20 18:14	1
1,2-Dichloropropane	ND		0.50		ug/L			05/22/20 18:14	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/22/20 18:14	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/22/20 18:14	1
1,3-Dichloropropane	ND		1.0		ug/L			05/22/20 18:14	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/22/20 18:14	1
2,2-Dichloropropane	ND		1.0		ug/L			05/22/20 18:14	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: RW-13-201905
Date Collected: 05/19/20 13:39
Date Received: 05/19/20 18:10

Lab Sample ID: 570-28689-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			05/22/20 18:14	1
2-Chlorotoluene	ND		0.50		ug/L			05/22/20 18:14	1
2-Hexanone	ND		10		ug/L			05/22/20 18:14	1
4-Chlorotoluene	ND		0.50		ug/L			05/22/20 18:14	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/22/20 18:14	1
Acetone	ND		10		ug/L			05/22/20 18:14	1
Benzene	ND		0.50		ug/L			05/22/20 18:14	1
Bromobenzene	ND		0.50		ug/L			05/22/20 18:14	1
Bromochloromethane	ND		1.0		ug/L			05/22/20 18:14	1
Bromodichloromethane	ND		0.50		ug/L			05/22/20 18:14	1
Bromoform	ND		0.50		ug/L			05/22/20 18:14	1
Bromomethane	ND		2.0		ug/L			05/22/20 18:14	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/22/20 18:14	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/22/20 18:14	1
Carbon disulfide	ND		10		ug/L			05/22/20 18:14	1
Carbon tetrachloride	ND		0.50		ug/L			05/22/20 18:14	1
Chlorobenzene	ND		0.50		ug/L			05/22/20 18:14	1
Chloroethane	ND		0.50		ug/L			05/22/20 18:14	1
Chloroform	ND		0.50		ug/L			05/22/20 18:14	1
Chloromethane	ND		5.0		ug/L			05/22/20 18:14	1
Dibromochloromethane	ND		0.50		ug/L			05/22/20 18:14	1
Dibromomethane	ND		0.50		ug/L			05/22/20 18:14	1
Dichlorodifluoromethane	ND		1.0		ug/L			05/22/20 18:14	1
Ethylbenzene	ND		0.50		ug/L			05/22/20 18:14	1
Isopropylbenzene	ND		0.50		ug/L			05/22/20 18:14	1
Methylene Chloride	ND		1.0		ug/L			05/22/20 18:14	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			05/22/20 18:14	1
Naphthalene	ND		1.0		ug/L			05/22/20 18:14	1
n-Butylbenzene	ND		0.50		ug/L			05/22/20 18:14	1
N-Propylbenzene	ND		0.50		ug/L			05/22/20 18:14	1
o-Xylene	ND		0.50		ug/L			05/22/20 18:14	1
m,p-Xylene	ND		1.0		ug/L			05/22/20 18:14	1
p-Isopropyltoluene	ND		0.50		ug/L			05/22/20 18:14	1
sec-Butylbenzene	ND		0.50		ug/L			05/22/20 18:14	1
Styrene	ND		0.50		ug/L			05/22/20 18:14	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/22/20 18:14	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/22/20 18:14	1
tert-Butylbenzene	ND		0.50		ug/L			05/22/20 18:14	1
Tetrachloroethene	ND		0.50		ug/L			05/22/20 18:14	1
Toluene	ND		0.50		ug/L			05/22/20 18:14	1
Trichloroethene	**0.71**		0.50		ug/L			05/22/20 18:14	1
Trichlorofluoromethane	ND		0.50		ug/L			05/22/20 18:14	1
Vinyl acetate	ND		5.0		ug/L			05/22/20 18:14	1
Vinyl chloride	ND		0.50		ug/L			05/22/20 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 128*		*05/22/20 18:14*	*1*
4-Bromofluorobenzene (Surr)	*94*		*68 - 120*		*05/22/20 18:14*	*1*
Dibromofluoromethane	*103*		*80 - 127*		*05/22/20 18:14*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/22/20 18:14*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: RW-01-201905
Date Collected: 05/19/20 11:55
Date Received: 05/19/20 18:10

Lab Sample ID: 570-28689-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/22/20 18:44	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/22/20 18:44	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/22/20 18:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/22/20 18:44	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/22/20 18:44	1
1,1-Dichloroethane	**0.54**		0.50		ug/L			05/22/20 18:44	1
1,1-Dichloroethene	**12**		0.50		ug/L			05/22/20 18:44	1
1,1-Dichloropropene	ND		0.50		ug/L			05/22/20 18:44	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/22/20 18:44	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/22/20 18:44	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/22/20 18:44	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/22/20 18:44	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/22/20 18:44	1
1,2-Dibromoethane	ND		0.50		ug/L			05/22/20 18:44	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/22/20 18:44	1
1,2-Dichloroethane	ND		0.50		ug/L			05/22/20 18:44	1
1,2-Dichloropropane	ND		0.50		ug/L			05/22/20 18:44	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/22/20 18:44	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/22/20 18:44	1
1,3-Dichloropropane	ND		1.0		ug/L			05/22/20 18:44	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/22/20 18:44	1
2,2-Dichloropropane	ND		1.0		ug/L			05/22/20 18:44	1
2-Butanone	ND		5.0		ug/L			05/22/20 18:44	1
2-Chlorotoluene	ND		0.50		ug/L			05/22/20 18:44	1
2-Hexanone	ND		10		ug/L			05/22/20 18:44	1
4-Chlorotoluene	ND		0.50		ug/L			05/22/20 18:44	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/22/20 18:44	1
Acetone	ND		10		ug/L			05/22/20 18:44	1
Benzene	ND		0.50		ug/L			05/22/20 18:44	1
Bromobenzene	ND		0.50		ug/L			05/22/20 18:44	1
Bromochloromethane	ND		1.0		ug/L			05/22/20 18:44	1
Bromodichloromethane	ND		0.50		ug/L			05/22/20 18:44	1
Bromoform	ND		0.50		ug/L			05/22/20 18:44	1
Bromomethane	ND		2.0		ug/L			05/22/20 18:44	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/22/20 18:44	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/22/20 18:44	1
Carbon disulfide	ND		10		ug/L			05/22/20 18:44	1
Carbon tetrachloride	ND		0.50		ug/L			05/22/20 18:44	1
Chlorobenzene	ND		0.50		ug/L			05/22/20 18:44	1
Chloroethane	ND		0.50		ug/L			05/22/20 18:44	1
Chloroform	ND		0.50		ug/L			05/22/20 18:44	1
Chloromethane	ND		5.0		ug/L			05/22/20 18:44	1
Dibromochloromethane	ND		0.50		ug/L			05/22/20 18:44	1
Dibromomethane	ND		0.50		ug/L			05/22/20 18:44	1
Dichlorodifluoromethane	ND		1.0		ug/L			05/22/20 18:44	1
Ethylbenzene	ND		0.50		ug/L			05/22/20 18:44	1
Isopropylbenzene	ND		0.50		ug/L			05/22/20 18:44	1
Methylene Chloride	ND		1.0		ug/L			05/22/20 18:44	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			05/22/20 18:44	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: RW-01-201905
Date Collected: 05/19/20 11:55
Date Received: 05/19/20 18:10

Lab Sample ID: 570-28689-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			05/22/20 18:44	1
n-Butylbenzene	ND		0.50		ug/L			05/22/20 18:44	1
N-Propylbenzene	ND		0.50		ug/L			05/22/20 18:44	1
o-Xylene	ND		0.50		ug/L			05/22/20 18:44	1
m,p-Xylene	ND		1.0		ug/L			05/22/20 18:44	1
p-Isopropyltoluene	ND		0.50		ug/L			05/22/20 18:44	1
sec-Butylbenzene	ND		0.50		ug/L			05/22/20 18:44	1
Styrene	ND		0.50		ug/L			05/22/20 18:44	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/22/20 18:44	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/22/20 18:44	1
tert-Butylbenzene	ND		0.50		ug/L			05/22/20 18:44	1
Tetrachloroethene	ND		0.50		ug/L			05/22/20 18:44	1
Toluene	ND		0.50		ug/L			05/22/20 18:44	1
Trichloroethene	ND		0.50		ug/L			05/22/20 18:44	1
Trichlorofluoromethane	ND		0.50		ug/L			05/22/20 18:44	1
Vinyl acetate	ND		5.0		ug/L			05/22/20 18:44	1
Vinyl chloride	ND		0.50		ug/L			05/22/20 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 128*		*05/22/20 18:44*	*1*
4-Bromofluorobenzene (Surr)	*89*		*68 - 120*		*05/22/20 18:44*	*1*
Dibromofluoromethane	*98*		*80 - 127*		*05/22/20 18:44*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/22/20 18:44*	*1*

Client Sample ID: TB-201905
Date Collected: 05/19/20 08:00
Date Received: 05/19/20 18:10

Lab Sample ID: 570-28689-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/22/20 12:55	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/22/20 12:55	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/22/20 12:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/22/20 12:55	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/22/20 12:55	1
1,1-Dichloroethane	ND		0.50		ug/L			05/22/20 12:55	1
1,1-Dichloroethene	ND		0.50		ug/L			05/22/20 12:55	1
1,1-Dichloropropene	ND		0.50		ug/L			05/22/20 12:55	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/22/20 12:55	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/22/20 12:55	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/22/20 12:55	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/22/20 12:55	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/22/20 12:55	1
1,2-Dibromoethane	ND		0.50		ug/L			05/22/20 12:55	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/22/20 12:55	1
1,2-Dichloroethane	ND		0.50		ug/L			05/22/20 12:55	1
1,2-Dichloropropane	ND		0.50		ug/L			05/22/20 12:55	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/22/20 12:55	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/22/20 12:55	1
1,3-Dichloropropane	ND		1.0		ug/L			05/22/20 12:55	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/22/20 12:55	1
2,2-Dichloropropane	ND		1.0		ug/L			05/22/20 12:55	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: TB-201905
Date Collected: 05/19/20 08:00
Date Received: 05/19/20 18:10

Lab Sample ID: 570-28689-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			05/22/20 12:55	1
2-Chlorotoluene	ND		0.50		ug/L			05/22/20 12:55	1
2-Hexanone	ND		10		ug/L			05/22/20 12:55	1
4-Chlorotoluene	ND		0.50		ug/L			05/22/20 12:55	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/22/20 12:55	1
Acetone	ND		10		ug/L			05/22/20 12:55	1
Benzene	ND		0.50		ug/L			05/22/20 12:55	1
Bromobenzene	ND		0.50		ug/L			05/22/20 12:55	1
Bromochloromethane	ND		1.0		ug/L			05/22/20 12:55	1
Bromodichloromethane	ND		0.50		ug/L			05/22/20 12:55	1
Bromoform	ND		0.50		ug/L			05/22/20 12:55	1
Bromomethane	ND		2.0		ug/L			05/22/20 12:55	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/22/20 12:55	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/22/20 12:55	1
Carbon disulfide	ND		10		ug/L			05/22/20 12:55	1
Carbon tetrachloride	ND		0.50		ug/L			05/22/20 12:55	1
Chlorobenzene	ND		0.50		ug/L			05/22/20 12:55	1
Chloroethane	ND		0.50		ug/L			05/22/20 12:55	1
Chloroform	ND		0.50		ug/L			05/22/20 12:55	1
Chloromethane	ND		5.0		ug/L			05/22/20 12:55	1
Dibromochloromethane	ND		0.50		ug/L			05/22/20 12:55	1
Dibromomethane	ND		0.50		ug/L			05/22/20 12:55	1
Dichlorodifluoromethane	ND		1.0		ug/L			05/22/20 12:55	1
Ethylbenzene	ND		0.50		ug/L			05/22/20 12:55	1
Isopropylbenzene	ND		0.50		ug/L			05/22/20 12:55	1
Methylene Chloride	ND		1.0		ug/L			05/22/20 12:55	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			05/22/20 12:55	1
Naphthalene	ND		1.0		ug/L			05/22/20 12:55	1
n-Butylbenzene	ND		0.50		ug/L			05/22/20 12:55	1
N-Propylbenzene	ND		0.50		ug/L			05/22/20 12:55	1
o-Xylene	ND		0.50		ug/L			05/22/20 12:55	1
m,p-Xylene	ND		1.0		ug/L			05/22/20 12:55	1
p-Isopropyltoluene	ND		0.50		ug/L			05/22/20 12:55	1
sec-Butylbenzene	ND		0.50		ug/L			05/22/20 12:55	1
Styrene	ND		0.50		ug/L			05/22/20 12:55	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/22/20 12:55	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/22/20 12:55	1
tert-Butylbenzene	ND		0.50		ug/L			05/22/20 12:55	1
Tetrachloroethene	ND		0.50		ug/L			05/22/20 12:55	1
Toluene	ND		0.50		ug/L			05/22/20 12:55	1
Trichloroethene	ND		0.50		ug/L			05/22/20 12:55	1
Trichlorofluoromethane	ND		0.50		ug/L			05/22/20 12:55	1
Vinyl acetate	ND		5.0		ug/L			05/22/20 12:55	1
Vinyl chloride	ND		0.50		ug/L			05/22/20 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 128*		*05/22/20 12:55*	*1*
4-Bromofluorobenzene (Surr)	*93*		*68 - 120*		*05/22/20 12:55*	*1*
Dibromofluoromethane	*92*		*80 - 127*		*05/22/20 12:55*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/22/20 12:55*	*1*

Surrogate Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: Canoga Park 1SA20

Job ID: 570-28689-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-128)	(68-120)	(80-127)	(80-120)
570-28679-A-8 MS	Matrix Spike	94	99	97	98
570-28679-A-8 MSD	Matrix Spike Duplicate	93	97	95	100
570-28689-1	MW-15-201905	99	92	96	98
570-28689-2	RW-05-201905	100	92	101	98
570-28689-3	RW-07-201905	104	93	105	99
570-28689-4	RW-08-201905	104	92	104	98
570-28689-5	CM-7D-201905	102	95	104	99
570-28689-6	RW-13-201905	101	94	103	100
570-28689-7	RW-01-201905	104	89	98	99
570-28689-8	TB-201905	93	93	92	97
LCS 570-70753/3	Lab Control Sample	88	99	91	98
LCSD 570-70753/4	Lab Control Sample Dup	89	99	91	98
MB 570-70753/7	Method Blank	96	94	95	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-70753/7
Matrix: Water
Analysis Batch: 70753

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/22/20 12:26	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/22/20 12:26	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/22/20 12:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/22/20 12:26	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/22/20 12:26	1
1,1-Dichloroethane	ND		0.50		ug/L			05/22/20 12:26	1
1,1-Dichloroethene	ND		0.50		ug/L			05/22/20 12:26	1
1,1-Dichloropropene	ND		0.50		ug/L			05/22/20 12:26	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/22/20 12:26	1
1,2,3-Trichloropropane	ND		1.0		ug/L			05/22/20 12:26	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/22/20 12:26	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/22/20 12:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/22/20 12:26	1
1,2-Dibromoethane	ND		0.50		ug/L			05/22/20 12:26	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/22/20 12:26	1
1,2-Dichloroethane	ND		0.50		ug/L			05/22/20 12:26	1
1,2-Dichloropropane	ND		0.50		ug/L			05/22/20 12:26	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/22/20 12:26	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/22/20 12:26	1
1,3-Dichloropropane	ND		1.0		ug/L			05/22/20 12:26	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/22/20 12:26	1
2,2-Dichloropropane	ND		1.0		ug/L			05/22/20 12:26	1
2-Butanone	ND		5.0		ug/L			05/22/20 12:26	1
2-Chlorotoluene	ND		0.50		ug/L			05/22/20 12:26	1
2-Hexanone	ND		10		ug/L			05/22/20 12:26	1
4-Chlorotoluene	ND		0.50		ug/L			05/22/20 12:26	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/22/20 12:26	1
Acetone	ND		10		ug/L			05/22/20 12:26	1
Benzene	ND		0.50		ug/L			05/22/20 12:26	1
Bromobenzene	ND		0.50		ug/L			05/22/20 12:26	1
Bromochloromethane	ND		1.0		ug/L			05/22/20 12:26	1
Bromodichloromethane	ND		0.50		ug/L			05/22/20 12:26	1
Bromoform	ND		0.50		ug/L			05/22/20 12:26	1
Bromomethane	ND		2.0		ug/L			05/22/20 12:26	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/22/20 12:26	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/22/20 12:26	1
Carbon disulfide	ND		10		ug/L			05/22/20 12:26	1
Carbon tetrachloride	ND		0.50		ug/L			05/22/20 12:26	1
Chlorobenzene	ND		0.50		ug/L			05/22/20 12:26	1
Chloroethane	ND		0.50		ug/L			05/22/20 12:26	1
Chloroform	ND		0.50		ug/L			05/22/20 12:26	1
Chloromethane	ND		5.0		ug/L			05/22/20 12:26	1
Dibromochloromethane	ND		0.50		ug/L			05/22/20 12:26	1
Dibromomethane	ND		0.50		ug/L			05/22/20 12:26	1
Dichlorodifluoromethane	ND		1.0		ug/L			05/22/20 12:26	1
Ethylbenzene	ND		0.50		ug/L			05/22/20 12:26	1
Isopropylbenzene	ND		0.50		ug/L			05/22/20 12:26	1
Methylene Chloride	ND		1.0		ug/L			05/22/20 12:26	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-70753/7
Matrix: Water
Analysis Batch: 70753

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			05/22/20 12:26	1
Naphthalene	ND		1.0		ug/L			05/22/20 12:26	1
n-Butylbenzene	ND		0.50		ug/L			05/22/20 12:26	1
N-Propylbenzene	ND		0.50		ug/L			05/22/20 12:26	1
o-Xylene	ND		0.50		ug/L			05/22/20 12:26	1
m,p-Xylene	ND		1.0		ug/L			05/22/20 12:26	1
p-Isopropyltoluene	ND		0.50		ug/L			05/22/20 12:26	1
sec-Butylbenzene	ND		0.50		ug/L			05/22/20 12:26	1
Styrene	ND		0.50		ug/L			05/22/20 12:26	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/22/20 12:26	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/22/20 12:26	1
tert-Butylbenzene	ND		0.50		ug/L			05/22/20 12:26	1
Tetrachloroethene	ND		0.50		ug/L			05/22/20 12:26	1
Toluene	ND		0.50		ug/L			05/22/20 12:26	1
Trichloroethene	ND		0.50		ug/L			05/22/20 12:26	1
Trichlorofluoromethane	ND		0.50		ug/L			05/22/20 12:26	1
Vinyl acetate	ND		5.0		ug/L			05/22/20 12:26	1
Vinyl chloride	ND		0.50		ug/L			05/22/20 12:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 128*		*05/22/20 12:26*	*1*
4-Bromofluorobenzene (Surr)	*94*		*68 - 120*		*05/22/20 12:26*	*1*
Dibromofluoromethane	*95*		*80 - 127*		*05/22/20 12:26*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/22/20 12:26*	*1*

Lab Sample ID: LCS 570-70753/3
Matrix: Water
Analysis Batch: 70753

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	10.0	9.342		ug/L		93	77 - 120
1,2-Dibromoethane	10.0	9.648		ug/L		96	80 - 120
1,2-Dichlorobenzene	10.0	9.969		ug/L		100	80 - 120
1,2-Dichloroethane	10.0	9.215		ug/L		92	80 - 122
Benzene	10.0	9.564		ug/L		96	80 - 120
Carbon tetrachloride	10.0	8.972		ug/L		90	80 - 129
Chlorobenzene	10.0	9.728		ug/L		97	80 - 120
Ethylbenzene	10.0	9.938		ug/L		99	80 - 120
Methyl-t-Butyl Ether (MTBE)	10.0	8.353		ug/L		84	75 - 123
o-Xylene	10.0	10.05		ug/L		100	80 - 120
m,p-Xylene	20.0	20.02		ug/L		100	80 - 120
Toluene	10.0	9.578		ug/L		96	80 - 120
Trichloroethene	10.0	9.394		ug/L		94	80 - 120
Vinyl chloride	10.0	9.152		ug/L		92	63 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*80 - 128*
4-Bromofluorobenzene (Surr)	*99*		*68 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-70753/3
Matrix: Water
Analysis Batch: 70753

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane	*91*		*80 - 127*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: LCSD 570-70753/4
Matrix: Water
Analysis Batch: 70753

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene			10.0	9.193		ug/L		92	77 - 120	2	26
1,2-Dibromoethane			10.0	9.863		ug/L		99	80 - 120	2	32
1,2-Dichlorobenzene			10.0	9.924		ug/L		99	80 - 120	0	30
1,2-Dichloroethane			10.0	9.138		ug/L		91	80 - 122	1	23
Benzene			10.0	9.372		ug/L		94	80 - 120	2	22
Carbon tetrachloride			10.0	9.379		ug/L		94	80 - 129	4	36
Chlorobenzene			10.0	9.692		ug/L		97	80 - 120	0	29
Ethylbenzene			10.0	9.903		ug/L		99	80 - 120	0	25
Methyl-t-Butyl Ether (MTBE)			10.0	8.891		ug/L		89	75 - 123	6	27
o-Xylene			10.0	10.09		ug/L		101	80 - 120	0	30
m,p-Xylene			20.0	20.19		ug/L		101	80 - 120	1	30
Toluene			10.0	9.309		ug/L		93	80 - 120	3	28
Trichloroethene			10.0	9.426		ug/L		94	80 - 120	0	25
Vinyl chloride			10.0	8.895		ug/L		89	63 - 135	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*89*		*80 - 128*
4-Bromofluorobenzene (Surr)	*99*		*68 - 120*
Dibromofluoromethane	*91*		*80 - 127*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: 570-28679-A-8 MS
Matrix: Water
Analysis Batch: 70753

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	30		100	129.3		ug/L		99	66 - 126
1,2-Dibromoethane	ND		100	91.61		ug/L		92	75 - 126
1,2-Dichlorobenzene	ND		100	95.87		ug/L		96	75 - 125
1,2-Dichloroethane	100		100	188.6		ug/L		89	75 - 127
Benzene	19		100	113.2		ug/L		95	75 - 125
Carbon tetrachloride	ND		100	102.0		ug/L		102	69 - 135
Chlorobenzene	ND		100	94.49		ug/L		94	75 - 125
Ethylbenzene	ND		100	98.65		ug/L		99	75 - 125
Methyl-t-Butyl Ether (MTBE)	ND		100	82.94		ug/L		83	71 - 131
o-Xylene	ND		100	97.94		ug/L		98	75 - 127
m,p-Xylene	ND		200	201.2		ug/L		101	75 - 125
Toluene	ND		100	94.97		ug/L		95	75 - 125
Trichloroethene	ND		100	94.30		ug/L		92	75 - 125
Vinyl chloride	60		100	160.0		ug/L		100	52 - 142

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 570-28679-A-8 MS
Matrix: Water
Analysis Batch: 70753

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 128*
4-Bromofluorobenzene (Surr)	*99*		*68 - 120*
Dibromofluoromethane	*97*		*80 - 127*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: 570-28679-A-8 MSD
Matrix: Water
Analysis Batch: 70753

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	30		100	111.6		ug/L		82	66 - 126	15	20
1,2-Dibromoethane	ND		100	90.45		ug/L		90	75 - 126	1	20
1,2-Dichlorobenzene	ND		100	91.07		ug/L		91	75 - 125	5	20
1,2-Dichloroethane	100		100	182.3		ug/L		82	75 - 127	3	20
Benzene	19		100	106.5		ug/L		88	75 - 125	6	20
Carbon tetrachloride	ND		100	91.71		ug/L		92	69 - 135	11	20
Chlorobenzene	ND		100	87.46		ug/L		87	75 - 125	8	20
Ethylbenzene	ND		100	88.59		ug/L		89	75 - 125	11	20
Methyl-t-Butyl Ether (MTBE)	ND		100	77.68		ug/L		78	71 - 131	7	20
o-Xylene	ND		100	89.61		ug/L		90	75 - 127	9	20
m,p-Xylene	ND		200	178.8		ug/L		89	75 - 125	12	20
Toluene	ND		100	87.16		ug/L		87	75 - 125	9	20
Trichloroethene	ND		100	85.36		ug/L		83	75 - 125	10	20
Vinyl chloride	60		100	157.0		ug/L		97	52 - 142	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 128*
4-Bromofluorobenzene (Surr)	*97*		*68 - 120*
Dibromofluoromethane	*95*		*80 - 127*
Toluene-d8 (Surr)	*100*		*80 - 120*

QC Association Summary

Client: Oneida Total Integrated Enterprises LLC
Job ID: 570-28689-1
Project/Site: Canoga Park 1SA20

GC/MS VOA

Analysis Batch: 70753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-28689-1	MW-15-201905	Total/NA	Water	8260B	
570-28689-2	RW-05-201905	Total/NA	Water	8260B	
570-28689-3	RW-07-201905	Total/NA	Water	8260B	
570-28689-4	RW-08-201905	Total/NA	Water	8260B	
570-28689-5	CM-7D-201905	Total/NA	Water	8260B	
570-28689-6	RW-13-201905	Total/NA	Water	8260B	
570-28689-7	RW-01-201905	Total/NA	Water	8260B	
570-28689-8	TB-201905	Total/NA	Water	8260B	
MB 570-70753/7	Method Blank	Total/NA	Water	8260B	
LCS 570-70753/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-70753/4	Lab Control Sample Dup	Total/NA	Water	8260B	
570-28679-A-8 MS	Matrix Spike	Total/NA	Water	8260B	
570-28679-A-8 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC
Project/Site: Canoga Park 1SA20

Job ID: 570-28689-1

Client Sample ID: MW-15-201905
Date Collected: 05/19/20 09:08
Date Received: 05/19/20 18:10

Lab Sample ID: 570-28689-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	70753	05/22/20 15:49	UJHB	ECL 2
	Instrument ID: GCMSL									

Client Sample ID: RW-05-201905
Date Collected: 05/19/20 10:04
Date Received: 05/19/20 18:10

Lab Sample ID: 570-28689-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	70753	05/22/20 16:18	UJHB	ECL 2
	Instrument ID: GCMSL									

Client Sample ID: RW-07-201905
Date Collected: 05/19/20 10:47
Date Received: 05/19/20 18:10

Lab Sample ID: 570-28689-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	70753	05/22/20 16:47	UJHB	ECL 2
	Instrument ID: GCMSL									

Client Sample ID: RW-08-201905
Date Collected: 05/19/20 11:31
Date Received: 05/19/20 18:10

Lab Sample ID: 570-28689-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	70753	05/22/20 17:16	UJHB	ECL 2
	Instrument ID: GCMSL									

Client Sample ID: CM-7D-201905
Date Collected: 05/19/20 13:36
Date Received: 05/19/20 18:10

Lab Sample ID: 570-28689-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	70753	05/22/20 17:45	UJHB	ECL 2
	Instrument ID: GCMSL									

Client Sample ID: RW-13-201905
Date Collected: 05/19/20 13:39
Date Received: 05/19/20 18:10

Lab Sample ID: 570-28689-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	70753	05/22/20 18:14	UJHB	ECL 2
	Instrument ID: GCMSL									

Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC
Project/Site: Canoga Park 1SA20

Job ID: 570-28689-1

Client Sample ID: RW-01-201905

Date Collected: 05/19/20 11:55
Date Received: 05/19/20 18:10

Lab Sample ID: 570-28689-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	70753	05/22/20 18:44	UJHB	ECL 2
	Instrument ID: GCMSL									

Client Sample ID: TB-201905

Date Collected: 05/19/20 08:00
Date Received: 05/19/20 18:10

Lab Sample ID: 570-28689-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	70753	05/22/20 12:55	UJHB	ECL 2
	Instrument ID: GCMSL									

Laboratory References:

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: Oneida Total Integrated Enterprises LLC
Job ID: 570-28689-1
Project/Site: Canoga Park 1SA20

Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-29-20
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-29-20
Guam	State	20-003R	10-31-20
Nevada	State	CA00111	07-31-20
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-20

Method Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: Canoga Park 1SA20

Job ID: 570-28689-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	ECL 2
5030C	Purge and Trap	SW846	ECL 2

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

Sample Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: Canoga Park 1SA20

Job ID: 570-28689-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-28689-1	MW-15-201905	Water	05/19/20 09:08	05/19/20 18:10	
570-28689-2	RW-05-201905	Water	05/19/20 10:04	05/19/20 18:10	
570-28689-3	RW-07-201905	Water	05/19/20 10:47	05/19/20 18:10	
570-28689-4	RW-08-201905	Water	05/19/20 11:31	05/19/20 18:10	
570-28689-5	CM-7D-201905	Water	05/19/20 13:36	05/19/20 18:10	
570-28689-6	RW-13-201905	Water	05/19/20 13:39	05/19/20 18:10	
570-28689-7	RW-01-201905	Water	05/19/20 11:55	05/19/20 18:10	
570-28689-8	TB-201905	Water	05/19/20 08:00	05/19/20 18:10	

570-28689 Chain of Custody

Eurofins Calscience

7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: 5/19/20

PAGE: 1 OF 1

LABORATORY CLIENT: **OTIE**

ADDRESS: **317 E. Main Street, Ventura CA 93001**

TEL: **805.585.2110** | FAX: **805.585.2111** | E-MAIL: **ksawyer@otie.com**

CLIENT PROJECT NAME / NUMBER: **CANOGA PARK 1SA20**

P.O. NO.: **2020.047/0102**

PROJECT CONTACT: **Kim Sawyer**

LAB USE ONLY

SAMPLER(S): (SIGNATURE)

COELT LOG CODE: T N A V

COOLER RECEIPT: Temp = ____ °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48HR ☑ 72 HR ☐ 5 DAYS ☒ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING ☒ COELT EDF ☒ SL2043T1572

SPECIAL INSTRUCTIONS: EPA 8260B 20ml LL – ECI TC#4785 (VOCs + MTBE)

** OTIE SPECIFIC EDDs **

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	EPA 8260B - VOCs	CONTAINER TYPE
1	MW-15-201905	MW-15	5/19/20	0908	WA	3	X	VOAs
2	RW-05-201905	RW-05	5/19/20	1004	WA	3	X	
3	RW-07-201905	RW-07	5/19/20	1047	WA	3	X	
4	RW-08-201905	RW-08	5/19/20	1131	WA	3	X	
5	CM-7D-201905	CM-7D	5/19/20	1336	WA	3	X	
6	RW-13-201905	RW-13	5/19/20	1337	WA	3	X	
7	RW-2-201905	RW-02	5/19/20	1155	WA	3	X	
8	TB-201905	QC TB	5/19/20	0800	[redacted]	2	X	
					H2O			

Relinquished by: (Signature)	Received by: (Signature) Santos, L	Date: 05/19/20	Time: 14:10
Relinquished by: (Signature) Santos, L	Received by: (Signature)	Date: 05/19/20	Time: 18:00
Relinquished by: (Signature)	Received by: (Signature) 3.6/3.2 SG	Date:	Time:

570-28689 Chain of Custody

Eurofins Calscience

7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: 5/19/20

PAGE: 1 OF 1

LABORATORY CLIENT: **OTIE**

ADDRESS: **317 E. Main Street, Ventura CA 93001**

TEL: **805.585.2110** | FAX: **805.585.2111** | E-MAIL: **ksawyer@otie.com**

CLIENT PROJECT NAME / NUMBER: **CANOGA PARK 1SA20**

PROJECT CONTACT: **Kim Sawyer**

SAMPLER(S): (SIGNATURE)

P.O. NO.: 2020.047/0102

LAB USE ONLY

COELT LOG CODE: T N A V

COOLER RECEIPT: Temp = ____ °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48HR ☑ 72 HR ☐ 5 DAYS ☒ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

☐ RWQCB REPORTING ☒ COELT EDF ☒ SL2043T1572

SPECIAL INSTRUCTIONS

EPA 8260B 20ml LL – ECI TC#4785 (VOCs + MTBE)

** OTIE SPECIFIC EDDs **

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	EPA 8260B - VOCs	CONTAINER TYPE
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2	RW-05-201905	RW-05	5/19/20	1004	WA	3	X	
3	RW-07-201905	RW-07	5/19/20	1047	WA	3	X	
4	RW-08-201905	RW-08	5/19/20	1131	WA	3	X	
5	CM-7D-201905	CM-7D	5/19/20	1336	WA	3	X	
6	RW-13-201905	RW-13	5/19/20	1337	WA	3	X	
7	RW-2-201905	RW-02	5/19/20	1155	WA	3	X	
8	TB-201905	QC TB	5/19/20	0800	[illegible]	2	X	
					H2O			

Relinquished by: (Signature)	Received by: (Signature) Santos, L	Date: 05/19/20	Time: 14:10
Relinquished by: (Signature) Santos, L	Received by: (Signature)	Date: 05/19/20	Time: 18:00
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

3.6/3.2 SAG

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 570-28689-1

Login Number: 28689

List Source: Eurofins Calscience

List Number: 1

Creator: Soriano, Precy

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix E

Raytheon Company
Certification Statement Letter

Raytheon Company
1151 East Hermans Road
TU/B845
Tucson, AZ 85706
520.794.9026

July 30, 2020

Dr. Ann Chang, PhD
California Regional Water Quality Control Board
Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, CA 90013

RE: Second Quarter 2020 Remedial Progress and Site-Wide Groundwater Monitoring Report, Raytheon Company, Former Canoga Park Facility, 8433 Fallbrook Avenue Compliance File No. CI-8947

Dear Dr. Chang:

This letter provides the certification statement for the referenced report, as required by the Waste Discharge Requirements.

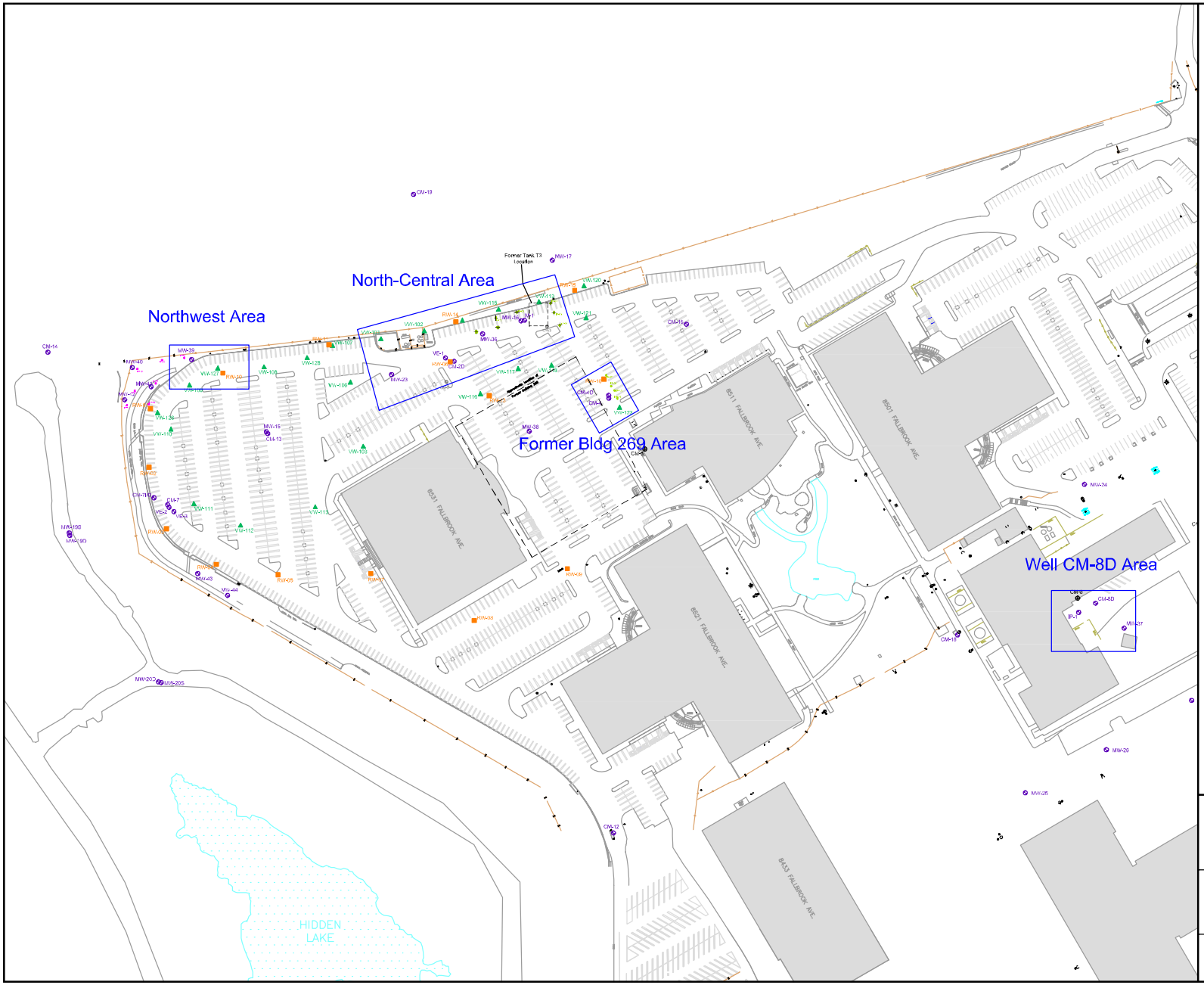
I declare under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.

Sincerely,

RAYTHEON COMPANY

Daniel S. Samorano
Authorized Representative

Executed on the 30th day of July, 2020
cc: File



Legend

- MW-# / CM-#: Groundwater Monitoring Well
- RW-#: Groundwater Recovery Well
- VW-#: Vapor Extraction Well
- MW-#: Former Hazardous Waste Storage Area Monitoring Well
- SW/VW-#: Air Sparge/Vapor Extraction Well
- S#: Triple Nested Sparge Well

N
W E
S

Approximate Scale in Feet

0 150 300

Figure 2
Site Plan Showing
Proposed Injection Areas

Former Canoga Park Facility
8433 Fallbrook Ave, Canoga Park, California

OTIE
Creating Total Integrated Enterprises

Date: November 5, 2015
File: CAP5 Injection plan.dwg

Jared Blumenfeld
Secretary for
Environmental Protection

Department of Toxic Substances Control
Meredith Williams, Ph.D., Director
1001 "I" Street
P.O. Box 806
Sacramento, California 95812-0806

Gavin Newsom
Governor

Facility Search Results

Selection Criteria:

Facility:
Search on: Physical Address
Street: roscoe
Zip: 91304
Status: Active and Inactive
Sort Direction: asc
Sorted By: Address
Records Found: 123

EPA ID Number	Name	Address	City	Zip
CAC001245664	MAURICE PACK	12935 ROSCOE BLVD	CANOGA PARK	913040000
CAL000033007	JERRY BENSON & SON AUTOMOTIVE	20041 ROSCOE BLVD	CANOGA PARK	913040000
CAL921082785	JOES MOBILE	20101 ROSCOE BLVD	CANOGA PARK	913040000
CAL000065859	ALL TIME TUNE AND LUBE	20138 ROSCOE #11	CANOGA PARK	913040000
CAD981405350	EQUILON ENTERPRISES	20505 ROSCOE	CANOGA PARK	913040000
CAC000885840	HOLIDAY MANOR	20554 ROSCOE BLVD	CANOGA PARK	913040000
CAL000066005	CRISWELL AND SONS	20931 ROSCOE UNIT 2	CANOGA PARK	913040000
CAC000301465	1X MILLERS OUTPOST	20934 ROSCOE BLVD.	CANOGA PARK	913040000
CAL000378390	DOLLAR TREE #03826	20936 ROSCOE BLVD	CANOGA PARK	91304
CAC002890589	KHACATURIAN, ANDY	20945 ROSCOE BLVD.	CANOGA PARK	91304
CAC003066401	GOLDRICH KEST MANAGEMENT	21027 ROSCOE BLVD #4	CANOGA PARK	913044323
CAC003066567	GOLDRICH KEST MANAGEMENT	21027 ROSCOE BLVD #4	CANOGA PARK	91304
CAL000076941	THE HOME DEPOT STORE 612	21218 ROSCOE BLVD	CANOGA PARK	913040000
CAC002622435	MPM SILICONES LLC	21218 ROSCOE BLVD	CANOGA PARK	913044203
CAR000166280	HOME DEPOT #0612	21218 ROSCOE BLVD	CANOGA PARK	913040000
CAD982370538	BMP SERVICE	21220 ROSCOE BLVD, UNIT P	CANOGA PARK	913040000
CAC000261873	1X VALLEY CANOGA PROPERTIES	21220 ROSCOE BLVD.	CANOGA PARK	913040000
CAD000628651	TESORO GASOLINE DIGAS ROSCOE	21222 ROSCOE BLVD	CANOGA PARK	913040000
CAD000316133	1X COSTCO WHOLESALE	21300 ROSCOE BLVD	CANOGA PK	913040000
CAD079597811	COSTCO WHOLESALE #44	21300 ROSCOE BLVD	CANOGA PARK	913040000
CAC003016979	CARMAX AUTO SUPERSTORES CALIFORNIA LLC	21300 ROSCOE BLVD	CANOGA PARK	91304
CAC003016982	CARMAX AUTO SUPERSTORES CA LLC	21300 ROSCOE BLVD	CANOGA PARK	91304
CAL921425045	COSTCO WHOLESALE #44	21300 ROSCOE BLVD	CANOGA PARK	913040000
CAL000454449	CARMAX 7124	21300 ROSCOE BLVD	CANOGA PARK	91304
CAC002898105	UPPER GROUND ENTERTAINMENT	21300 ROSCOE BLVD.	CANOGA PARK	91304
CAC002961967	WARBIRD PRODUCTION	21300 ROSCOE BOULEVARD	CANOGA PARK	91304
CAC002760111	THE SALVATION ARMY	21375 ROSCOE BLVD	CANOGA PARK	913044214
CAC002665376	THE SALVATION ARMY	21375 ROSCOE BLVD	CANOGA PARK	913044214
CAX000139675	SALVATION ARMY A R C THE	21375 ROSCOE BLVD	CANOGA PARK	913040000
CAL000148526	THE SALVATION ARMY	21375 ROSCOE BLVD	CANOGA PARK	913040000
CAX000025304	SALVATION ARMY, THE	21375 ROSCOE BLVD.	CANOGA PARK	913040000
CAC002890169	THE SALVATION ARMY-ARC COMMAND	21375 ROSCOE BOULEVARD	CANOGA PARK	91304
CAL000105928	KING AUTO SUPPLY	21400 ROSCOE BLVD	CANOGA PARK	913044142
CAL000376516	GENUINE PARTS CO DBA NAPA AUTO PARTS - LA 038	21400 ROSCOE BLVD	CANOGA PARK	91304
CAP999001686	1X DEPENDABLE DODGE	21415 ROSCOE BLVD	CANOGA PARK	913040000
CAD058007444	DEPENDABLE DODGE INC	21415 ROSCOE BLVD	CANOGA PARK	913040000
CAD981456148	DAVID ELLIS CHRYSLER, INC	21422 ROSCOE BLVD	CANOGA PARK	913040000
CAL000456079		21422 ROSCOE BLVD	CANOGA PARK	91304

	BN DEALERSHIP II LLC DBA WEST VALLEY USED CAR CENTER			
CAL000445405	DYNAMIC AUTO IMAGES	21422 ROSCOE BLVD	CANOGA PARK	91304
CAL000446612	FAIR MOBILITY SERVICES LLC DBA FAIR	21422 ROSCOE BLVD	CANOGA PARK	91304
CAL000411106	SOVEREIGN CA-CJ LLC DBA WEST VALLEY CHRYSLER JEEP	21422 ROSCOE BLVD	CANOGA PARK	91304
CAL000427081	WEST VALLEY CHRYSLER JEEP	21422 ROSCOE BLVD	CANOGA PARK	91304
CAX000114876	JACK ELLIS CHRYSLER PLYMOUTH	21422 ROSCOE BLVD.	CANOGA PARK	913040000
CAC002907786	DYNAMIC AUTO IMAGES	21422 ROSCOE BLVD.	CANOGA PARK	91304
CAL000331338	WILCOX & WILCOX	21510 ROSCOE BLVD	CANOGA PARK	913044144
CAL000178003	CANOGA PARK MITSUBISHI	21515 ROSCOE BLVD	CANOGA PARK	913040000
CAL000190496	MOTORLIFE DISTRIBUTORS	21515 ROSCOE BLVD	CANOGA PARK	913040000
CAC000880616	GRANDE INVESTMENTS	21515 ROSCOE BLVD	CANOGA PARK	913040000
CAC002681501	CITY HOMES CORP	21515 ROSCOE BLVD	CANOGA PARK	91304
CAD981441793	JIM BESS INC	21515 ROSCOE BLVD	CANOGA	913040000
CAC000219257	1X BESS, JIM	21515 ROSCOE BLVD.	CANOGA PARK	913040000
CAC002637056	CALIFORNIA HOME BUILDERS DIV OF EVAN HAIM INDUSRIES CORP	21530 ROSCOE BLVD	CANOGA PARK	91304
CAC002600168	GATEWAY PACIFIC	21530 ROSCOE BLVD	CANOGA PARK	913040
CAD981617848	CANOGA AMC JEEP INC	21530 ROSCOE BLVD	CANOGA PARK	913040000
CAD981445398	JIM BESS NISSAN	21535 ROSCOE BLVD	CANOGA PARK	913040000
CAC002637892	CALIFORNIA HOME BUILDERS	21535 ROSCOE BLVD	CANOGA PARK	913044145
CAL000216793	AUTOWORLD DAIWOO	21535 ROSCOE BLVD	CANOGA PARK	913040000
CAL000235955	WEST VALLEY KIA	21535 ROSCOE BLVD	CANOGA PARK	913040000
CAL000237819	CERTIFIED AUTOBODY LLC	21535 ROSCOE BLVD	CANOGA PARK	913040000
CAL000120354	VALLEY PARK FORD, INC/VALLEY PARK NISSAN	21535 ROSCOE BLVD	CANOGA PARK	913040000
CAL000284964	KIA OF THE VALLEY	21535 ROSCOE BLVD	CANOGA PARK	913044145
CAX000121681	CANOGA A M C/JEEP INC.	21535 ROSCOE BLVD.	CANOGA PARK	913040000
CAC000219265	1X BESS, JIM	21535 ROSCOE BLVD.	CANOGA PARK	913040000
CAC001497600	OGNER MOTOR CARS INC	21555 ROSCOE BLVD	CANOGA PARK	913040000
CAD982058950	VALLEY PARK FORD, INC/VALLEY PARK MOTORS	21555 ROSCOE BLVD	CANOGA PARK	913040000
CAL000361806	DANIEL FOOD ENTERPRISES INC DBA VALLARTA SUPERMARKETS #12	21555 ROSCOE BLVD	CANOGA PARK	91304
CAL000213488	JOE'S AUTO CARE	21577 ROSCOE BLVD	CANOGA PARK	913040000
CAR000088625	AUTO WORLD	21577 ROSCOE BLVD	CANOGA PARK	913040000
CAL000263925	HOLLYWOOD MOTOR CORP	21600 ROSCOE BLVD	CANOGA PARK	91304
CAL000139059	TOSCO CORPORATION STATION #30990	21600 ROSCOE BLVD	CANOGA PARK	913040000
CAD982369191	DARA'S UNOCAL	21600 ROSCOE BLVD	CANOGA PARK	913040000
CAD981646268	UNOCAL SERVICE STATION 5811	21600 ROSCOE BLVD	CANOGA PARK	913040000
CAC002420711	7 ELEVEN	21618 ROSCOE BLVD	CANOGA PARK	913040000
CAL000231760	MARINE CENTER INC DBA OLYMPIC BOAT CENTERS	21627 ROSCOE BLVD	CANOGA PARK	913040000
CAL000350085	DAVID ELLIS AUTOMOTIVE INC	21627 ROSCOE BLVD	CANOGA PARK	913044159
CAL000435695	CAL GROVE RENTALS	21627 ROSCOE BLVD	CANOGA PARK	91304
CAC002941766	CAL GROVE RENTALS	21627 ROSCOE BLVD.	CANOGA PARK	91304
CAC000725704	LAWRENCE WEINREB	21834 ROSCOE BLVD	CANOGA PARK	913040000
CAC000765592	PARK WEST TOWER/LAWRENCE WEINREB	21834 ROSCOE BLVD	CANOGA PARK	913040000
CAC000971280	SOLUS PROPERTY	21901 ROSCOE BLVD	CANOGA PARK	913040000
CAC002129744	R & S OIL	21935 ROSCOE BLVD	CANOGA PARK	913040000
CAC000502088	1X LIPPMANS ARCO STATION	21935 ROSCOE BLVD	CANOGA PARK	913040000
CAC000685264	1X R AND S OIL	21935 ROSCOE BLVD	CANOGA PARK	913040000
CAL000267109	GGHS OIL CO INC DBA TOPROS GAS & MART	21935 ROSCOE BLVD	CANOGA PARK	91304
CAC003010058	MAURICE PACK	21935 ROSCOE BLVD.	CANOGA PARK	91304
CAL000182747	WEST HILLS LAWN MOWER SHOP	22101 ROSCOE BLVD	CANOGA PARK	913040000
CAL000084637	GREATER VALLEY MEDICAL GROUP	22110 ROSCOE BLVD	CANOGA PARK	913040000
CAC002486071	WESTMONT PROPERTY LTD	22110 ROSCOE BLVD	CANOGA PARK	913040000
CAL000097178	VALLEY FOOT HEALTH CENTER	22110 ROSCOE BLVD STE 201	CANOGA PARK	913040000
CAL000141425	EDGARDO DELA VEGA DDS	22114 ROSCOE BLVD	CANOGA PARK	913040000
CAC001153604	TOPANGA TERRACE CONVALESCENT HOME	22125 ROSCOE	CANOGA PARK	913043839
CAC002969810	PRESIDIO WATT ROSCOE 43, LLC	22135 ROSCOE BLVD	CANOGA PARK	91304
CAC002925253	DOMINI PROPERTIES	22135 ROSCOE BLVD	WEST HILLS	91304
CAL000111301	MOHAMED SHAARAWY MD	22135 ROSCOE BLVD	CANOGA PARK	913040000
CAL000380533	DLH DAVINCI LLC DBA DAVINCI DENTAL STUDIOS	22135 ROSCOE BLVD	WEST HILLS	91304
DAL000111301	MOHAMED SHAARAWY MD	22135 ROSCOE BLVD	CANOGA PARK	913040000
CAC002925276	DOMINI PROPERTIES	22135 ROSCOE BLVD, SUITE 100	WEST HILLS	91304
CAL000304963	DAVINCI DENTAL STUDIOS INC	22136 ROSCOE BLVD	WEST HILLS	91304
CAD982022295	NU MED REGIONAL MEDICAL CTR WEST VALLEY	22141 ROSCOE BLVD	CANOGA PARK	913040000

CAC000044784	1X NU-MED REGIONAL MEDICAL CENTER - NO	22141 ROSCOE BLVD	CANOGA PARK	913040000
CAC002842873	JEANE HAINING	22225 ROSCOE BLVD	CANOGA PARK	913043344
CAC002908946	SIMON AND EMILIA LUCAS	22327 ROSCOE BLVD	WEST HILLS	91304
CAC003080233	ASHLYNN PARKER	22434 ROSCOE BOULEVARD	WEST HILLS	913043347
CAC002826767	GEORGE FERNANDO	22456 ROSCOE BLVD.	WEST HILLS	91304
CAL000285155	LAKEVIEW CLEANERS	22730 ROSCOE BLVD	CANOGA PARK	91304
CAL000312588	LAKEVIEW CLEANERS	22736 ROSCOE BLVD	CANOGA PARK	91304
CAL000092099	LAKEVIEW CLEANERS	22736 ROSCOE BLVD	CANOGA PARK	913040000
CAD981639297	LAKEVIEW CLEANERS	22736 ROSCOE BLVD	CANOGA PARK	913040000
CAC002585208	DEVRY UNIVERSITY	22801 ROSCOE	WEST HILLS	91304
CAL000436439	THERMO FISHER SCIENTIFIC CORPORATION ONE LAMBDA INC	22801 ROSCOE BLVD	WEST HILLS	91304
CAC002421631	TUTUR SILIBA	23001 ROSCOE BLVD	WEST HILLS	913040000
CAC002626834	LA CITY LAPD VALLEY COMMUNICATIONS DISPATCH CENTER	23001 ROSCOE BLVD	LOS ANGELES	91304
CAC002634056	CITY OF LOS ANGELES - DEPT OF GENERAL SERVICES	23001 ROSCOE BLVD	LOS ANGELES	91304
CAD981964208	CITY OF LA GENERAL SERVICES	23004 ROSCOE BLVD	CANOGA PARK	913040000
CAC002611410	CITY OF LOS ANGELES DEPT OF PARKS & RECREATION	23600 ROSCOE BLVD	LOS ANGELES	91304
CAR000247312	ORCUTT RANCH HORTICULTURAL CENTER	23600 ROSCOE BLVD	WEST HILLS	913040000
CAP000080127	ORCUTT RANCH	23600 ROSCOE BLVD	WEST HILLS	913040000
CAC002764919	CITY OF LA, DEPT. OF RECREATION AND PARKS	23600 ROSCOE BLVD.	WEST HILLS	91304
CAL000032434	COUNTRY ROSE CLEANERS	23735 ROSCOE BL	CANOGA PARK	913040000
CAD983617838	DARLING CLEANERS	23735 ROSCOE BLVD	CANOGA PARK	913040000
CAL000436315	DARLING CLEANERS	23735 ROSCOE BLVD	WEST HILLS	91304
CAL000047672	PRIME POINT CLEANERS	23735 ROSCOE BLVD	WEST HILLS	913040000
CAL000404833	PAPICH CONSTRUCTION CO INC	VALLEY CIRCLE BLVD @ ROSCOE BLVD	WEST HILLS	91304

The Department of Toxics Substances Control (DTSC) takes every precaution to ensure the accuracy of data in the Hazardous Waste Tracking System (HWTS). However, because of the large number of manifests handled, inaccuracies in the submitted data, limitations of the manifest system and the technical limitations of the database, DTSC cannot guarantee that the data accurately reflect what was actually transported or produced.

Report Generation Date: 08/25/2020

City of Los Angeles
Department of City Planning

8/25/2020
PARCEL PROFILE REPORT

PROPERTY ADDRESSES
22815 W ROSCOE BLVD
22825 W ROSCOE BLVD

ZIP CODES
91304

RECENT ACTIVITY
None

CASE NUMBERS
CPC-2019-1742-CPU
CPC-2007-237-GPA-ZC-CU
CPC-19XX-21216
CPC-19XX-20636
CPC-1998-304-CU
CPC-1997-94-ZC
CPC-1996-340-CU
CPC-1987-205-CU
CPC-1977-26675
CPC-1958-9268
ORD-180844
ORD-129279
DIR-2019-7507-ACI-CLQ
DIR-2016-317-ACI-CLQ
ZA-2002-1565-CU
ZA-1998-549-ZV
ZA-1997-208-ZV
ZA-1996-894-CUZ
ZA-1994-595-ZV
ZA-1960-15504
ZA-1960-15263
AA-1997-22-PMEX
AA-2016-410-PMEX
AA-2017-1168-PMEX
PM-1994-7115
PMV-3749
ENV-2019-7508-CE
ENV-2019-1743-EIR
ENV-2016-318-CE
ENV-2016-2989-CE
ENV-2006-10437-MND
ENV-2002-1569-CE
ENV-2002-1567-CE
MND-84-124-CUZ
MND-96-311-CUZ
MND-97-117-ZV-ZC-GPA-SPR

Address/Legal Information	
PIN Number	192B097 591
Lot/Parcel Area (Calculated)	305,516.6 (sq ft)
Thomas Brothers Grid	PAGE 529 - GRID G2
	PAGE 529 - GRID H2
Assessor Parcel No. (APN)	2005002018
Tract	P M 7115
Map Reference	BK 276-1/4
Block	None
Lot	A
Arb (Lot Cut Reference)	1
Map Sheet	192B097
Jurisdictional Information	
Community Plan Area	Chatsworth - Porter Ranch
Area Planning Commission	North Valley
Neighborhood Council	West Hills
Council District	CD 12 - John Lee
Census Tract #	1132.31
LADBS District Office	Van Nuys
Planning and Zoning Information	
Special Notes	None
Zoning	[T][Q]M1-1
Zoning Information (ZI)	ZI-2374 State Enterprise Zone: Los Angeles
	ZI-1022
General Plan Land Use	Limited Industrial
General Plan Note(s)	Yes
Hillside Area (Zoning Code)	No
Specific Plan Area	None
Subarea	None
Special Land Use / Zoning	None
Historic Preservation Review	No
Historic Preservation Overlay Zone	None
Other Historic Designations	None
Other Historic Survey Information	None
Mills Act Contract	None
CDO: Community Design Overlay	None
CPIO: Community Plan Imp. Overlay	None
Subarea	None
CUGU: Clean Up-Green Up	None
HCR: Hillside Construction Regulation	No
NSO: Neighborhood Stabilization Overlay	No
POD: Pedestrian Oriented Districts	None
RFA: Residential Floor Area District	None
RIO: River Implementation Overlay	No
SN: Sign District	No
Streetscape	No
Adaptive Reuse Incentive Area	None

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ND-77-410-CUC	Affordable Housing Linkage Fee	
ND-78-288-CU	Residential Market Area	Low
OB-15263	Non-Residential Market Area	Low
OB-15203	Transit Oriented Communities (TOC)	Not Eligible
AF-95-882842-MB	RPA: Redevelopment Project Area	None
AF-18-0703479-COC	Central City Parking	No
AF-16-1390121-COC	Downtown Parking	No
AF-16-1390120-GD	Building Line	None
FG	500 Ft School Zone	No
CFG-1800	500 Ft Park Zone	No
CFG-1000	**Assessor Information**	
	Assessor Parcel No. (APN)	2005002018
	APN Area (Co. Public Works)*	7.027 (ac)
	Use Code	2700 - Commercial - Parking Lot (Commercial Use Property) - Lots - Patron or Employee - One Story
	Assessed Land Val.	$2,415,236
	Assessed Improvement Val.	$10,612
	Last Owner Change	07/13/2018
	Last Sale Amount	$0
	Tax Rate Area	16
	Deed Ref No. (City Clerk)	9-610
		88086
		861718
		786008
		703480
		595438
		1869002
		1486
		1440918,19
		1390120
		1307926
	Building 1	
	Year Built	0
	Number of Units	0
	Number of Bedrooms	0
	Number of Bathrooms	0
	Building Square Footage	305,356.0 (sq ft)
	Building 2	No data for building 2
	Building 3	No data for building 3
	Building 4	No data for building 4
	Building 5	No data for building 5
	Rent Stabilization Ordinance (RSO)	No [APN: 2005002018]
	Additional Information	
	Airport Hazard	None
	Coastal Zone	None
	Farmland	Urban and Built-up Land
	Urban Agriculture Incentive Zone	YES
	Very High Fire Hazard Severity Zone	Yes
	Fire District No. 1	No
	Flood Zone	Outside Flood Zone
	Watercourse	No
	Hazardous Waste / Border Zone Properties	No
	Methane Hazard Site	None
	High Wind Velocity Areas	No

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Special Grading Area (BOE Basic Grid Map A-13372)	Yes
Wells	None
Seismic Hazards	
Active Fault Near-Source Zone	
Nearest Fault (Distance in km)	11.1578136
Nearest Fault (Name)	Simi - Santa Rosa Fault Zone
Region	Transverse Ranges and Los Angeles Basin
Fault Type	B
Slip Rate (mm/year)	1.00000000
Slip Geometry	Left Lateral - Reverse - Oblique
Slip Type	Poorly Constrained
Down Dip Width (km)	15.00000000
Rupture Top	1.00000000
Rupture Bottom	14.00000000
Dip Angle (degrees)	-60.00000000
Maximum Magnitude	7.00000000
Alquist-Priolo Fault Zone	No
Landslide	No
Liquefaction	Yes
Preliminary Fault Rupture Study Area	No
Tsunami Inundation Zone	No
Economic Development Areas	
Business Improvement District	None
Hubzone	Not Qualified
Opportunity Zone	No
Promise Zone	None
State Enterprise Zone	Los Angeles
Housing	
Direct all Inquiries to	Housing+Community Investment Department
Telephone	(866) 557-7368
Website	http://hcidla.lacity.org
Rent Stabilization Ordinance (RSO)	No [APN: 2005002018]
Ellis Act Property	No
Public Safety	
Police Information	
Bureau	Valley
Division / Station	Topanga
Reporting District	2102
Fire Information	
Bureau	Valley
Batallion	17
District / Fire Station	106
Red Flag Restricted Parking	No

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CASE SUMMARIES

Note: Information for case summaries is retrieved from the Planning Department's Plan Case Tracking System (PCTS) database.

Case Number:	CPC-2019-1742-CPU
Required Action(s):	CPU-COMMUNITY PLAN UPDATE
Project Descriptions(s):	COMMUNITY PLAN UPDATE
Case Number:	CPC-2007-237-GPA-ZC-CU
Required Action(s):	CU-CONDITIONAL USE GPA-GENERAL PLAN AMENDMENT ZC-ZONE CHANGE
Project Descriptions(s):	GENERAL PLAN AMENDMENT/ZONE CHANGE/COMMERCIAL CORNER DEVELOPMENT
Case Number:	CPC-19XX-21216
Required Action(s):	Data Not Available
Project Descriptions(s):	
Case Number:	CPC-19XX-20636
Required Action(s):	Data Not Available
Project Descriptions(s):	
Case Number:	CPC-1998-304-CU
Required Action(s):	CU-CONDITIONAL USE
Project Descriptions(s):	NEW GOVERNMENT FACILITY
Case Number:	CPC-1997-94-ZC
Required Action(s):	ZC-ZONE CHANGE
Project Descriptions(s):	REQUEST FOR OFFICE AND LIGHT MANUFACTURING.
Case Number:	CPC-1996-340-CU
Required Action(s):	CU-CONDITIONAL USE
Project Descriptions(s):	CONDITIONAL USE PERMIT, NOTE PURCHASE OF PROPERTY IS CURRENTLYBE NEGOTIATED BY GSD ASSET MANAGEMENT. AUTH. CY CF-96-0398-S1
Case Number:	CPC-1987-205-CU
Required Action(s):	CU-CONDITIONAL USE
Project Descriptions(s):	CONDITIONAL USE PERMIT FOR CONTINUED USE OF AN EXISTING HELISTOP
Case Number:	CPC-1977-26675
Required Action(s):	Data Not Available
Project Descriptions(s):	
Case Number:	CPC-1958-9268
Required Action(s):	Data Not Available
Project Descriptions(s):	
Case Number:	DIR-2019-7507-ACI-CLQ
Required Action(s):	ACI-AMENDMENT TO COUNCIL INSTRUCTIONS CLQ-CLARIFICATION OF 'Q' CONDITIONS
Project Descriptions(s):	PURSUANT TO LAMC 12.32 H, AN AMENDMENT OF COUNCIL INSTRUCTIONS [T] CLASSIFICATIONS & CLARIFICATION OF [Q] CONDITIONS ADOPTED UNDER ORDINANCE NO. 180,844 & ASSOCIATED W/ CPC-2007-237-ZC-GPA-CU-SPR IN ORDER TO REALLOCATE THE 250,000 SF OF FLOOR AREA PREVIOUSLY APPROVED FOR PARCEL 2B TO 2A, W/ A REDUCED BUILDING FLOOR AREA (REDUCED TO 180,000 SF) & REDUCED BUILDING HEIGHT, & TO ELIMINATE THE PARKING STRUCTURE.
Case Number:	DIR-2016-317-ACI-CLQ
Required Action(s):	ACI-AMENDMENT TO COUNCIL INSTRUCTIONS CLQ-CLARIFICATION OF 'Q' CONDITIONS
Project Descriptions(s):	THAT THE [T] TENTATIVE CLASSIFICATION MAY BE REMOVED IN TWO PHASES. THAT THE [Q] CONDITIONS FOR DEVELOPMENT CONDITIONS BE CLARIFIED: ADDRESSING CONDITION # A. 4 “SITE PLAN”, #A. 6 “CHANGE OF USE”, #A. 9 “PARKING”; AND THE DELETION OF CONDITIONS #B. 3, AND #C. 2.
Case Number:	ZA-2002-1565-CU
Required Action(s):	CU-CONDITIONAL USE
Project Descriptions(s):	
Case Number:	ZA-1998-549-ZV
Required Action(s):	ZV-ZONE VARIANCE
Project Descriptions(s):	ZONE VARIANCE TO ADD ONE STORY TO A PREVIOUSLY APPROVED 3-STORY BUILDING THAT ISNOT YET CONSTRUCTED IN THE (T)(Q)M1-1 ZONE.
Case Number:	ZA-1997-208-ZV
Required Action(s):	ZV-ZONE VARIANCE

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Project Descriptions(s):	REQUEST FOR OFFICE AND LIGHT MANUFACTURING IN THE A1-1 ZONE.
Case Number:	ZA-1996-894-CUZ
Required Action(s):	CUZ-ALL OTHER CONDITIONAL USE CASES
Project Descriptions(s):	TO PERMIT A ROOF-MOUNTED WIRELESS TELECOMMUNICATIONS FACILITY.
Case Number:	ZA-1994-595-ZV
Required Action(s):	ZV-ZONE VARIANCE
Project Descriptions(s):	TO PERMIT A NON-SIGNIFICANT CHANGE OF USE TO AN EXISTING FACILITY AND TO PERMIT CONTINUED MAINTENANCE OF 2-FOOT SIDE YARDS INLIEU OF THE REQUIRED 10-FOOT SIDE YARDS IN THE A1-1 ZONE.
Case Number:	ZA-1960-15504
Required Action(s):	Data Not Available
Project Descriptions(s):	
Case Number:	ZA-1960-15263
Required Action(s):	Data Not Available
Project Descriptions(s):	
Case Number:	AA-1997-22-PMEX
Required Action(s):	PMEX-PARCEL MAP EXEMPTION
Project Descriptions(s):	Data Not Available
Case Number:	AA-2016-410-PMEX
Required Action(s):	PMEX-PARCEL MAP EXEMPTION
Project Descriptions(s):	PARCEL MAP EXEMPTION (LOT LINE ADJUSTMENT) BETWEEN TWO LEGAL LOTS PURSUANT TO SECTION 17.50.B.3(C).
Case Number:	AA-2017-1168-PMEX
Required Action(s):	PMEX-PARCEL MAP EXEMPTION
Project Descriptions(s):	PURSUANT TO LAMC 17.50.B .3(C), REQUEST OF PARCEL MAP EXEMPTION TO ADJUST THE LINES BETWEEN THREE LEGAL LOTS.
Case Number:	PM-1994-7115
Required Action(s):	Data Not Available
Project Descriptions(s):	3-LOT PARCEL MAP\
Case Number:	ENV-2019-7508-CE
Required Action(s):	CE-CATEGORICAL EXEMPTION
Project Descriptions(s):	PURSUANT TO LAMC 12.32 H, AN AMENDMENT OF COUNCIL INSTRUCTIONS [T] CLASSIFICATIONS & CLARIFICATION OF [Q] CONDITIONS ADOPTED UNDER ORDINANCE NO. 180,844 & ASSOCIATED W/ CPC-2007-237-ZC-GPA-CU-SPR IN ORDER TO REALLOCATE THE 250,000 SF OF FLOOR AREA PREVIOUSLY APPROVED FOR PARCEL 2B TO 2A, W/ A REDUCED BUILDING FLOOR AREA (REDUCED TO 180,000 SF) & REDUCED BUILDING HEIGHT, & TO ELIMINATE THE PARKING STRUCTURE.
Case Number:	ENV-2019-1743-EIR
Required Action(s):	EIR-ENVIRONMENTAL IMPACT REPORT
Project Descriptions(s):	COMMUNITY PLAN UPDATE
Case Number:	ENV-2016-318-CE
Required Action(s):	CE-CATEGORICAL EXEMPTION
Project Descriptions(s):	THAT THE [T] TENTATIVE CLASSIFICATION MAY BE REMOVED IN TWO PHASES. THAT THE [Q] CONDITIONS FOR DEVELOPMENT CONDITIONS BE CLARIFIED: ADDRESSING CONDITION # A. 4 “SITE PLAN”, #A. 6 “CHANGE OF USE”, #A. 9 “PARKING”; AND THE DELETION OF CONDITIONS #B. 3, AND #C. 2.
Case Number:	ENV-2016-2989-CE
Required Action(s):	CE-CATEGORICAL EXEMPTION
Project Descriptions(s):	CATEGORICAL EXEMPTION FOR THE MOVEMENT OF 4,100 CUBIC YARDS OF IMPORT OF DIRT IN A SPECIAL GRADING AREA. THE PROJECT QUALIFIES FOR AN EXEMPTION PER SECTION 15304 OF THE CEQA GUIDELINES.
Case Number:	ENV-2006-10437-MND
Required Action(s):	MND-MITIGATED NEGATIVE DECLARATION
Project Descriptions(s):	EAF FOR BATCHING PROJECT
Case Number:	ENV-2002-1569-CE
Required Action(s):	CE-CATEGORICAL EXEMPTION
Project Descriptions(s):	TO PERMIT A ROOF-MOUNTED WIRELESS TELECOMMUNICATIONS FACILITY.
Case Number:	ENV-2002-1567-CE
Required Action(s):	CE-CATEGORICAL EXEMPTION
Project Descriptions(s):	
Case Number:	MND-84-124-CUZ
Required Action(s):	CUZ-ALL OTHER CONDITIONAL USE CASES
Project Descriptions(s):	Data Not Available

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Case Number:	MND-96-311-CUZ
Required Action(s):	CUZ-ALL OTHER CONDITIONAL USE CASES
Project Descriptions(s):	Data Not Available
Case Number:	MND-97-117-ZV-ZC-GPA-SPR
Required Action(s):	GPA-GENERAL PLAN AMENDMENT
	SPR-SITE PLAN REVIEW
	ZC-ZONE CHANGE
	ZV-ZONE VARIANCE
Project Descriptions(s):	Data Not Available
Case Number:	ND-77-410-CUC
Required Action(s):	CUC-CONDITIONAL USE TO THE COMMISSION
Project Descriptions(s):	Data Not Available
Case Number:	ND-78-288-CU
Required Action(s):	CU-CONDITIONAL USE
Project Descriptions(s):	Data Not Available
Case Number:	AF-18-0703479-COC
Required Action(s):	COC-CERTIFICATE OF COMPLIANCE
Project Descriptions(s):	Data Not Available
Case Number:	AF-16-1390121-COC
Required Action(s):	COC-CERTIFICATE OF COMPLIANCE
Project Descriptions(s):	Data Not Available

DATA NOT AVAILABLE

ORD-180844

ORD-129279

PMV-3749

OB-15263

OB-15203

AF-95-882842-MB

AF-16-1390120-GD

FG

CFG-1800

CFG-1000

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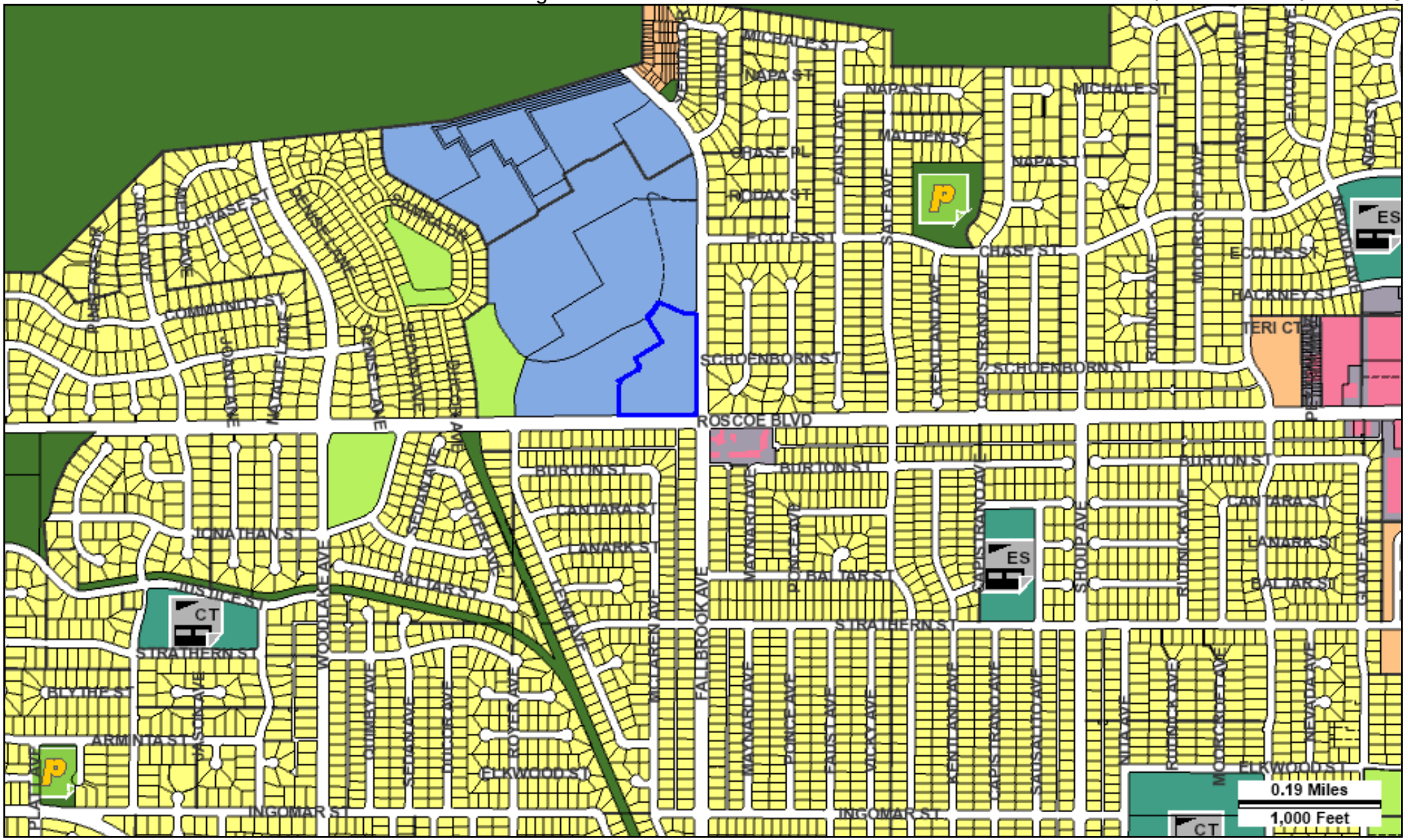
ZIMAS PUBLIC

Generalized Zoning

08/25/2020

City of Los Angeles
Department of City Planning



Address: 22815 W ROSCOE BLVD
APN: 2005002018
PIN #: 192B097 591

Tract: P M 7115
Block: None
Lot: A
Arb: 1

Zoning: [T][Q]M1-1
General Plan: Limited Industrial

N
W
E
S

LEGEND

GENERALIZED ZONING

- OS, GW
- A, RA
- RE, RS, R1, RU, RZ, RW1
- R2, RD, RMP, RW2, R3, RAS, R4, R5, PVSP
- CR, C1, C1.5, C2, C4, C5, CW, WC, ADP, LASED, CEC, USC, PPSP, MU, NMU
- CM, MR, CCS, UV, UI, UC, M1, M2, LAX, M3, SL, HJ, HR, NI
- P, PB
- PF

GENERAL PLAN LAND USE

LAND USE

RESIDENTIAL

- Minimum Residential
- Very Low / Very Low I Residential
- Very Low II Residential
- Low / Low I Residential
- Low II Residential
- Low Medium / Low Medium I Residential
- Low Medium II Residential
- Medium Residential
- High Medium Residential
- High Density Residential
- Very High Medium Residential

COMMERCIAL

- Limited Commercial
- Limited Commercial - Mixed Medium Residential
- Highway Oriented Commercial
- Highway Oriented and Limited Commercial
- Highway Oriented Commercial - Mixed Medium Residential
- Neighborhood Office Commercial
- Community Commercial
- Community Commercial -Mixed High Residential
- Regional Center Commercial

INDUSTRIAL

- Commercial Manufacturing
- Limited Manufacturing
- Light Manufacturing
- Heavy Manufacturing
- Hybrid Industrial

PARKING

- Parking Buffer

PORT OF LOS ANGELES

- General / Bulk Cargo - Non Hazardous (Industrial / Commercial)
- General / Bulk Cargo - Hazard
- Commercial Fishing
- Recreation and Commercial
- Intermodal Container Transfer Facility Site

LOS ANGELES INTERNATIONAL AIRPORT

- Airport Landside / Airport Landside Support
- Airport Airside
- LAX Airport Northside

OPEN SPACE / PUBLIC FACILITIES

- Open Space
- Public / Open Space
- Public / Quasi-Public Open Space
- Other Public Open Space
- Public Facilities

FRAMEWORK

COMMERCIAL

- Neighborhood Commercial
- General Commercial
- Community Commercial
- Regional Mixed Commercial

INDUSTRIAL

- Limited Industrial
- Light Industrial

CIRCULATION

STREET

- Arterial Mountain Road
- Collector Scenic Street
- Collector Street
- Collector Street (Hillside)
- Collector Street (Modified)
- Collector Street (Proposed)
- Country Road
- Divided Major Highway II
- Divided Secondary Scenic Highway
- Local Scenic Road
- Local Street
- Major Highway (Modified)
- Major Highway I
- Major Highway II
- Major Highway II (Modified)
- Major Scenic Highway
- Major Scenic Highway (Modified)
- Major Scenic Highway II
- Mountain Collector Street
- Park Road
- Parkway
- Principal Major Highway
- Private Street
- Scenic Divided Major Highway II
- Scenic Park
- Scenic Parkway
- Secondary Highway
- Secondary Highway (Modified)
- Secondary Scenic Highway
- Special Collector Street
- Super Major Highway

FREEWAYS

- Freeway
- Interchange
- On-Ramp / Off- Ramp
- Railroad
- Scenic Freeway Highway

MISC. LINES

- Airport Boundary
- Bus Line
- Coastal Zone Boundary
- Coastline Boundary
- Collector Scenic Street (Proposed)
- Commercial Areas
- Commercial Center
- Community Redevelopment Project Area
- Country Road
- DWP Power Lines
- Desirable Open Space
- Detached Single Family House
- Endangered Ridgeline
- Equestrian and/or Hiking Trail
- Hiking Trail
- Historical Preservation
- Horsekeeping Area
- Local Street
- MSA Desirable Open Space
- Major Scenic Controls
- Multi-Purpose Trail
- Natural Resource Reserve
- Park Road
- Park Road (Proposed)
- Quasi-Public
- Rapid Transit Line
- Residential Planned Development
- Scenic Highway (Obsolete)
- Secondary Scenic Controls
- Secondary Scenic Highway (Proposed)
- Site Boundary
- Southern California Edison Power
- Special Study Area
- Specific Plan Area
- Stagecoach Line
- Wildlife Corridor

POINTS OF INTEREST

- Alternative Youth Hostel (Proposed)
- Animal Shelter
- Area Library
- Area Library (Proposed)
- Bridge
- Campground
- Campground (Proposed)
- Cemetery
- HW Church
- City Hall
- Community Center
- Community Library
- Community Library (Proposed Expansion)
- Community Library (Proposed)
- Community Park
- Community Park (Proposed Expansion)
- Community Park (Proposed)
- Community Transit Center
- Convalescent Hospital
- Correctional Facility
- Cultural / Historic Site (Proposed)
- Cultural / Historical Site
- Cultural Arts Center
- DMV DMV Office
- DWP DWP
- DWP Pumping Station
- Equestrian Center
- HQ Fire Department Headquarters
- Fire Station
- Fire Station (Proposed Expansion)
- Fire Station (Proposed)
- Fire Supply & Maintenance
- Fire Training Site
- Fireboat Station
- Health Center / Medical Facility
- Helistop
- Historic Monument
- Historical / Cultural Monument
- Horsekeeping Area
- Horsekeeping Area (Proposed)
- Horticultural Center
- Hospital
- Hospital (Proposed)
- HW House of Worship
- e Important Ecological Area
- e Important Ecological Area (Proposed)
- Interpretive Center (Proposed)
- JC Junior College
- M MTA / Metrolink Station
- M MTA Station
- MTA Stop
- MWD MWD Headquarters
- Maintenance Yard
- Municipal Office Building
- P Municipal Parking lot
- Neighborhood Park
- Neighborhood Park (Proposed Expansion)
- Neighborhood Park (Proposed)
- Oil Collection Center
- P Parking Enforcement
- HQ Police Headquarters
- Police Station
- Police Station (Proposed Expansion)
- Police Station (Proposed)
- Police Training site
- PO Post Office
- Power Distribution Station
- Power Distribution Station (Proposed)
- Power Receiving Station
- Power Receiving Station (Proposed)
- C Private College
- E Private Elementary School
- Private Golf Course
- Private Golf Course (Proposed)
- JH Private Junior High School
- PS Private Pre-School
- Private Recreation & Cultural Facility
- SH Private Senior High School
- SF Private Special School
- E Public Elementary (Proposed Expansion)
- E Public Elementary School
- E Public Elementary School (Proposed)
- Public Golf Course
- Public Golf Course (Proposed)
- Public Housing
- Public Housing (Proposed Expansion)
- JH Public Junior High School
- JH Public Junior High School (Proposed)
- MS Public Middle School
- SH Public Senior High School
- SH Public Senior High School (Proposed)
- Pumping Station
- Pumping Station (Proposed)
- Refuse Collection Center
- Regional Library
- Regional Library (Proposed Expansion)
- Regional Library (Proposed)
- Regional Park
- Regional Park (Proposed)
- RPD Residential Plan Development
- Scenic View Site
- Scenic View Site (Proposed)
- ADM School District Headquarters
- SC School Unspecified Loc/Type (Proposed)
- Skill Center
- SS Social Services
- Special Feature
- Special Recreation (a)
- SF Special School Facility
- SF Special School Facility (Proposed)
- Steam Plant
- sm Surface Mining
- Trail & Assembly Area
- Trail & Assembly Area (Proposed)
- UTL Utility Yard
- Water Tank Reservoir
- Wildlife Migration Corridor
- Wildlife Preserve Gate

SCHOOLS/PARKS WITH 500 FT. BUFFER

- Existing School/Park Site
- Planned School/Park Site
- Inside 500 Ft. Buffer

- Aquatic Facilities
- Beaches
- Child Care Centers
- Dog Parks
- Golf Course
- Historic Sites
- Horticulture/Gardens
- Skate Parks
- Other Facilities
- Park / Recreation Centers
- Parks
- Performing / Visual Arts Centers
- Recreation Centers
- Senior Citizen Centers
- Opportunity School
- Charter School
- Elementary School
- Span School
- Special Education School
- High School
- Middle School
- Early Education Center

COASTAL ZONE

- Coastal Zone Commission Authority
- Calvo Exclusion Area
- Not in Coastal Zone
- Dual Jurisdictional Coastal Zone

TRANSIT ORIENTED COMMUNITIES (TOC)

- Tier 1
- Tier 2
- Tier 3
- Tier 4

Note: TOC Tier designation and map layers are for reference purposes only. Eligible projects shall demonstrate compliance with Tier eligibility standards prior to the issuance of any permits or approvals. As transit service changes, eligible TOC Incentive Areas will be updated.

WAIVER OF DEDICATION OR IMPROVEMENT

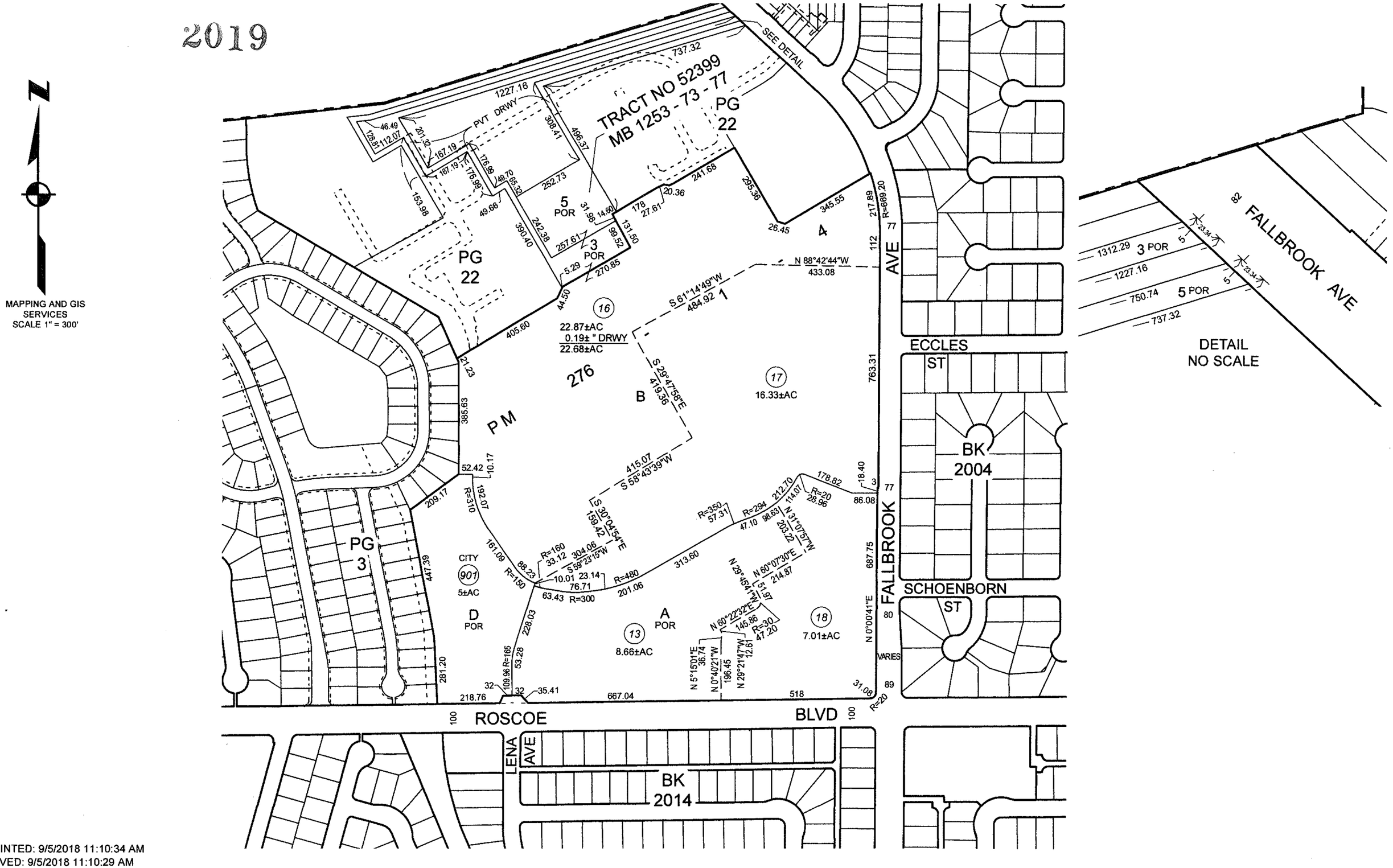
- Public Work Approval (PWA)
- Waiver of Dedication or Improvement (WDI)

OTHER SYMBOLS

- Lot Line
- Tract Line
- Lot Cut
- Easement
- Zone Boundary
- Building Line
- Lot Split
- Community Driveway
- Building Outlines 2014
- Building Outlines 2008
- Airport Hazard Zone
- Census Tract
- Coastal Zone
- Council District
- LADBS District Office
- Downtown Parking
- Fault Zone
- Fire District No. 1
- Tract Map
- Parcel Map
- Flood Zone
- Hazardous Waste
- High Wind Zone
- Hillside Grading
- Historic Preservation Overlay Zone
- Specific Plan Area
- Very High Fire Hazard Severity Zone
- Wells

2005	2 SHEET	P. A. 2005-22 2011-27	TRA 16	REVISED: 671204059 97061105001001-29	97061105001002-29 97072104003001-29 97101603005001-29	97101603005002-29 2000121104002001-29 2003071107006001-23, 29	2016122002008001-23 2016122002008002-23 2018090602001001-23	2018090602001002-23	SEARCH NO		OFFICE OF THE ASSESSOR COUNTY OF LOS ANGELES COPYRIGHT © 2002

2019



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DATE SAVED: 9/5/2018 11:10:29 AM

PHASE I/II ENVIRONMENTAL SITE ASSESSMENT
WEST HILLS CORPORATE VILLAGE
WEST HILLS PHASE II
8501 FALLBROOK AVENUE
CANOGA PARK, CALIFORNIA

for

MEPT West Hills, LLC

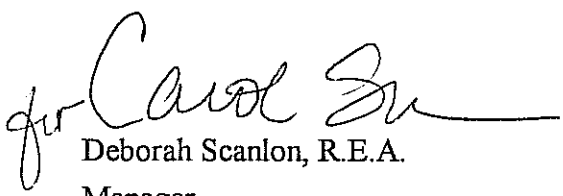
Prepared by

ENVIRON International Corporation
Irvine, California

March 29, 2002

Prepared by:

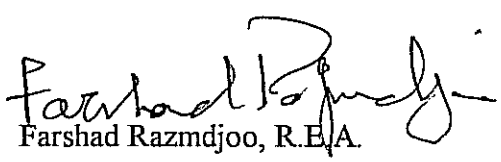
ENVIRON International Corporation
2010 Main Street, Suite 900
Irvine, California 92614
Tel. (949) 261-5151
Fax (949) 261-6202



Deborah Scanlon, R.E.A.
Manager



Carol Serlin, R.G.
Senior Manager



Farshad Razmdjoo, R.E.A.
Principal

CONTENTS

		Page
1.0	SUMMARY OF CONCLUSIONS	1
2.0	INTRODUCTION	5
2.1	Scope of Phase I/II Environmental Site Assessment	5
2.2	Definitions	7
2.3	Data Evaluation and Report Compilation	8
2.4	Exceptions to/Deletions from ASTM Practice E 1527-00	8
3.0	FINDINGS	9
3.1	Site Review	9
3.1.1	Property Setting	9
3.1.1.1	Immediate Vicinity Sites	9
3.1.1.2	Topography	9
3.1.1.3	Utilities	15
3.1.2	Site Reconnaissance	15
3.1.2.1	Chemical Use and Chemical Waste Storage	18
3.1.2.2	Non-Hazardous and Hazardous Solid Waste	18
3.1.2.3	Asbestos	19
3.1.2.4	Lead-Based Paint	19
3.1.2.5	Polychlorinated Biphenyls ("PCBs")	20
3.1.2.6	Air Emissions	20
3.1.2.7	Wastewater Discharges	21
3.1.2.8	Soil and Ground Water Contamination	21
3.1.2.9	Mold	21
3.1.3	Immediate Vicinity Reconnaissance	22
3.2	Indoor Air Sampling	22
3.3	Historical Review	24
3.3.1	Historical Operations Interview	24
3.3.2	Chronological Summary of Historical Topographic Maps, Aerial Photographs, and City Directories	25

CONTENTS (Continued)

		Page
3.3.3	Previous Reports Review	27
3.3.4.	Summary of Historical Reviews	27
3.4	Regulatory Review	30
3.4.1	Geologic and Hydrogeologic Setting	30
3.4.2	Regulatory Agency File Review	31
3.4.3	Regulatory Agency Databases	32
3.4.4	Munger Map Book	34
3.4.5	Radon	34
4.0	LIMITATIONS	35
5.0	REFERENCES	36-49

TABLES

Table 1:	Regulatory Database Search Results	32-33

FIGURES

Figure 1:	Site Vicinity Map	10
Figure 2:	Site Plan	11
Figure 3:	Site Plan and Locations of Former Tanks and Pits	12
Figure 4:	Site Plan and Locations of AOC, SWMUs and Wells	13
Figure 5:	Indoor Air Sampling Locations	14

APPENDICES

Appendix A: Site Photographs
Appendix B: EDR Report
Appendix C: Summary of Asbestos Reports
Appendix D: Summary of ENVIRON's Review of Previous Reports
Appendix E. Indoor Air Sampling Results, Calculations and Laboratory Data Reports

1.0 SUMMARY OF CONCLUSIONS

Subject to the qualifications and limitations stated in Chapter 2.0, Introduction, on behalf of Multi Employer Pension Trust (MEPT) West Hills, LLC, and its legal counsel Allen Matkins Leck Gamble & Mallory, LLP (AMLGM), ENVIRON International Corporation (ENVIRON) performed a Phase I/II Environmental Site Assessment of the West Hills Corporate Village facility located at 8501-8531 Fallbrook Avenue in Canoga Park, California (Property, see Figure 1). The Property was part of the Hughes Aircraft Company Missile Systems Group Facility (Site or Facility), that covered approximately 80 acres. ENVIRON understands that the Phase I/II Environmental Site Assessment was requested as part of MEPT's potential purchase of the Property. The Phase I Environmental Site Assessment was performed in conformance with the scope and limitations of the American Society of Testing and Materials (ASTM) Practice E 1527-00, and according to ENVIRON's proposal to Mr. John Allen of AMLGM dated November 8, 2001. Any exceptions to, or deletions from, this practice are described in Section 2.4 of this report. The Phase II work, consisted of indoor air quality sampling, and was performed according to ENVIRON's proposal to Mr. John Allen of AMLGM dated February 22, 2002.

Based on our visual observation of the Property, review of sources of historical information, a review of regulatory agency databases, the results of the indoor air quality sampling, and ENVIRON's professional judgment, "recognized environmental conditions," or "historical recognized environmental conditions" as defined by ASTM (see pages 3 and 5), were identified at the Property, as follows:

- The Property was occupied by aerospace research and development companies from 1966 through 1994. During this period, several underground storage tanks, clarifiers, pits, and trenches were installed. Based on the information reviewed by ENVIRON, these structures appear to have been removed or closed in place. To date, regulatory closures have not been issued for all of the underground storage tanks (USTs). Soil and ground water in proximity to certain of the USTs and clarifiers have been impacted by volatile organic compounds (VOCs) and/or petroleum hydrocarbons (TPH). Numerous subsurface investigations have been conducted since chemicals were first detected in soil and ground water in the mid-1980s. A corrective action plan was prepared in 1992 (1992 CAP) and revised in 1994. The California Regional Water Quality Control Board – Los Angeles Region (LARWQCB) has provided oversight for the soil and ground water remediation at the Property. Based on correspondence from the Department of Toxics Substances Control (DTSC), soil and ground

water cleanup standards established for the Property in the 1992 CAP, were based on the lowest numbers produced from a health risk assessment, background measurement, or maximum contaminant levels (MCLs). Based on ENVIRON's review of available documents, the ground water cleanup goals appeared to be 10 times greater than the MCL, and soil cleanup goals were established for total chlorinated VOCs at 100 milligrams per kilogram (mg/kg). ENVIRON understands that in the purchase and sale agreements for the Property, Raytheon retains all responsibility and liability for the investigation and remediation of chemicals in soil and ground water underlying the Property.

Given the known occurrence of chemicals in soil and ground water underlying the Property, the fact that certain areas of the Property have not been investigated, and stated cleanup goals, which indicate that residual chemical concentrations will remain in soil and ground water, ENVIRON recommended conducting indoor air sampling to evaluate the potential health risks from VOCs to workers inside the buildings. This air monitoring was conducted on February 28 and March 14, 2002, and is described in Section 3.2 of this report. Twelve VOCs were detected at concentrations above applicable detection limits, five of which are Proposition 65 listed chemicals. Detected VOC concentrations were well below worker Permissible Exposure Levels (PELs, 8 hr, time-weighted average) specified by the Occupational Safety and Health Administration (OSHA). Furthermore, ENVIRON reviewed the results for the five Proposition 65-listed VOCs to evaluate if the facility would be subject to Proposition 65 requirements. The results of this assessment indicated that Proposition 65 requirements are not applicable inside the buildings. Therefore, the presence of VOCs and petroleum hydrocarbons in soil and/or ground water underlying the Property does not appear to have resulted in a significant health risk to workers inside the buildings.

- In June 1998, hexavalent chromium contaminated soils were encountered during the demolition of the former Hazardous Waste Storage Area (HWSA). Because the hexavalent chromium contaminated soils were encountered at depths of 5 to 13 feet below ground surface (bgs), Raytheon (which purchased Hughes) believed that the soils would not pose a health threat; therefore, no removal was planned. In 1999, hexavalent chromium was detected in ground water samples collected from wells adjacent to the former HWSA. Seven ground water monitoring wells were installed in proximity to the HWSA in June of 2000, and monitoring for the presence of hexavalent chromium. Sampling results indicated that the state MCL for hexavalent chromium in drinking water, currently 50 micrograms per liter (µg/l), was exceeded at two monitoring wells (MW-32S and MW-32D), both located within the footprint of the former HWSA. It should be noted that the California Environmental

Protection Agency Office of Environmental Health Hazard Assessment (OEHHA) is reviewing the public health goal (PHG) and drinking water standard for hexavalent chromium, and the standards may be decreased in 2003. However, because the former HWSA is paved and located outside the footprint of currently constructed buildings, and due to the absence of a complete exposure pathway, the localized occurrence of hexavalent chromium in ground water at the former HWSA does not appear to represent a significant health risk to workers at the Property.

The following are other pertinent findings, which are not representative of recognized environmental conditions:

- Two Resource Conservation and Recovery Act (RCRA) permitted waste storage facilities were located at the Property: Tank T-3 and the hazardous waste storage area (HWSA). DTSC is the lead agency for RCRA closure of these two waste storage facilities. In a 1995 memorandum, DTSC outlined seven areas of concern (AOCs) and several solid waste management units (SWMUs) at the Property. Correspondence from DTSC indicates that the agency has not been fully satisfied with the investigations of the AOCs, the closure of the SWMUs, or post closure of the hazardous waste management unit (Tank T-3).

- Based on historical documents reviewed, the Property was used for agricultural purposes from at least 1928 until the mid- to late 1950s, when commercial structures were built. From 1966 to 1994, the Property was occupied by aerospace research and development companies. In the late 1990s, several buildings were demolished and the remaining buildings were completely remodeled. One additional building was constructed on the Property in 2000. The Property buildings are currently used for office space.

  Prior asbestos documents reviewed indicated that several types of asbestos-containing materials (ACMs) were present within the Property buildings (except for the recently constructed building). Based on a review of prior documents, interviews conducted, and the site visit, it appears that the previously identified ACMs were removed from the Property prior to remodeling activities. Therefore, it is unlikely that ACMs are present in the Property buildings.

- Based on interviews and the site visit conducted, it appears that painted materials previously located within the Property buildings were removed prior to remodeling activities. Therefore, it is unlikely that lead-based paint is present in the Property buildings.

- Based on a review of prior documents, interviews conducted, and visual observations of readily accessible areas during site visit, it does not appear that areas of water leaks or stains, or areas of mold are located in the Property buildings.

- The Property is listed in the Environmental Data Resources (EDR) report on the Historical Underground Storage Tanks (HIST UST), Resource Conservation and Recovery Information Systems (RCRIS), Facility Index System (FINDS), RCRIS – Transport, Storage and Disposal (RCRIS-TSD), RCRIS- - Corrective Action Sites (CORRACTS), Comprehensive Environmental Response, Compensation and Liability Information System - No Further Action Planned (CERCLIS-NFRAP), California Hazardous Substances Release Sites (Cal-Sites), Hazardous Waste and Substances Sites List (Cortese), and Leaking Underground Storage Tank (LUST) databases. These listings appear to include the former Hughes facility at the Property and southern adjacent area. As described above, remediation activities are currently being conducted by Raytheon at the Property.

- Several off-site facilities were identified in the database report, within the specified search radii. Based on the regulatory status and/or direction from the Property, it is unlikely that these listed facilities have adversely affected the Property.

2.0 INTRODUCTION

ENVIRON was retained by AMLGM on behalf of MEPT to conduct a Phase I/II Environmental Site Assessment of the West Hills Corporate Village located at 8501-8531 Fallbrook Avenue in Canoga Park, California ("Property"). ENVIRON understands that the Phase I Environmental Site Assessment was requested as part of MEPT's potential purchase of the Property. The Phase I Environmental Site Assessment described in this report was performed in conformance with the scope and limitations of the ASTM Practice E 1527-00, and ENVIRON's proposal to Mr. John Allen of AMLGM, dated November 8, 2001. The purpose of the assessment was to identify recognized environmental conditions. The term "recognized environmental conditions" is defined by ASTM as:

> "The presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products in structures on the property or into the ground, ground water, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimus* conditions that generally do not represent a material risk of harm to public health and environment and that generally would not be the subject of enforcement action if brought to the attention of appropriate governmental agencies."

ENVIRON undertook tasks, as necessary, to provide information required under ASTM Practice E1527-00. In addition, ENVIRON performed Phase II work, consisting of indoor air quality sampling, which was performed according to ENVIRON's proposal to Mr. John Allen of AMLGM dated February 22, 2002.

2.1 Scope of Phase I/II Environmental Site Assessment

The assessment included the following activities:

- A visit to the Property to observe and evaluate visible site conditions (see Appendix A for site photographs), ENVIRON was escorted by Ms. Rosa Amelia Samaniego, Property Manager with Insignia/ESG, Inc. (Insignia).

- A review of historical aerial photographs (dated 1928, 1952, 1965, 1976, 1989, and 1994) provided by Environmental Data Resources (EDR).

- A review of a city directory abstract dated November 19, 2001 (for the years from 1920 to 2000), provided by EDR.

- A review of historical topographic maps (dated 1903, 1947, and 1967) provided by EDR.

- A request for Sanborn maps of the Property and vicinity from EDR. EDR indicated that Sanborn maps are not available for the area of the Property.

- A review of publicly available reports pertaining to geology and hydrogeology in the vicinity of the Property.

- A request, through Environmental Support Services of Santa Ana, California (ESS) for available documents pertaining to the Property from the following agencies: The Los Angeles County Environmental Health Department (Health Department), and City of Los Angeles Building and Fire Departments (Building and Fire Departments).

- A review of available documents pertaining to the Property at the LARWQCB.

- A review of the results of an environmental regulatory database search of environmentally impaired sites located in the vicinity of the Property, conducted by EDR, dated November 19, 2001 (see Appendix B). EDR conducted searches of the following federal databases: the United States Environmental Protection Agency (USEPA) Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS); the USEPA National Priority List (NPL); the USEPA Emergency Response Notification System (ERNS); the USEPA Resource Conservation and Recovery Information System (RCRIS); and, the USEPA Corrective Action Reports (CORRACTS). State databases searched were: State Hazardous Waste Sites (SHWS), Solid Waste Sites & Facilities (LF), Leaking Underground Storage Tank List (LUST), Underground Storage Tank Database (UST), Historic UST Database (HIST UST), Known Hazardous Waste Sites (Cal-Sites), California hazardous Material Incident Report System (CHMIRS), and Hazardous Waste Information System (HAZNET).

Because the environmental databases themselves are sometimes not updated by the specific regulatory agencies for periods of up to one year (depending on the database and the agency), the database search conducted herein will not necessarily list all facilities or sites recently identified as having, or suspected of having, environmental problems and for which an environmental investigation/listing has been initiated, or reflect the current status of activities at a particular site, subsequent to the last update of a given list. The dates of the most recent updates for the searched environmental databases are listed in Appendix B.

- A review of the 2001 Munger Map Book, California-Alaska Oil and Gas Fields, to identify oil and gas wells located on or adjacent to the Property.

- A review of previous reports relating to soil and ground water sampling, remediation, and asbestos surveys and abatement at the Property, a complete list of all reports reviewed by ENVIRON is included in Section 5.0 of this report.

- An assessment of indoor air quality at the Property, performed in the existing buildings, to evaluate the potential health risks from VOCs detected in soil and ground water to workers inside the buildings. This air monitoring was conducted on February 28 and March 14, 2002, and is described in Section 3.2 of this report.

2.2 Definitions

The following terms are used in this report:

- The word "Property" refers to the property within the approximate boundaries depicted on Figure 2,

- "Immediate vicinity" refers to properties immediately adjacent to the Property that share a common boundary with the Property, and

- "Vicinity" refers to the area within an approximate 1/4-mile radius of the Property.

- "Historical Recognized Environmental Condition" is based on the definition in ASTM E 1527-00 and refers to an environmental condition which in the past would have been considered to be Recognized Environmental Condition, but has been satisfactorily remediated or addressed in such a manner that it is no longer considered to be a Recognized Environmental Condition.

The term "hazardous" is used herein in general accordance with 40 CFR Part 261, Federal Code of Regulations. No legal distinction is implied between the three terms "material," "waste," and "substance" as used herein. The word "impact" or "impacted" is used herein to indicate the result of a release of a hazardous substance.

2.3 Data Evaluation and Report Compilation

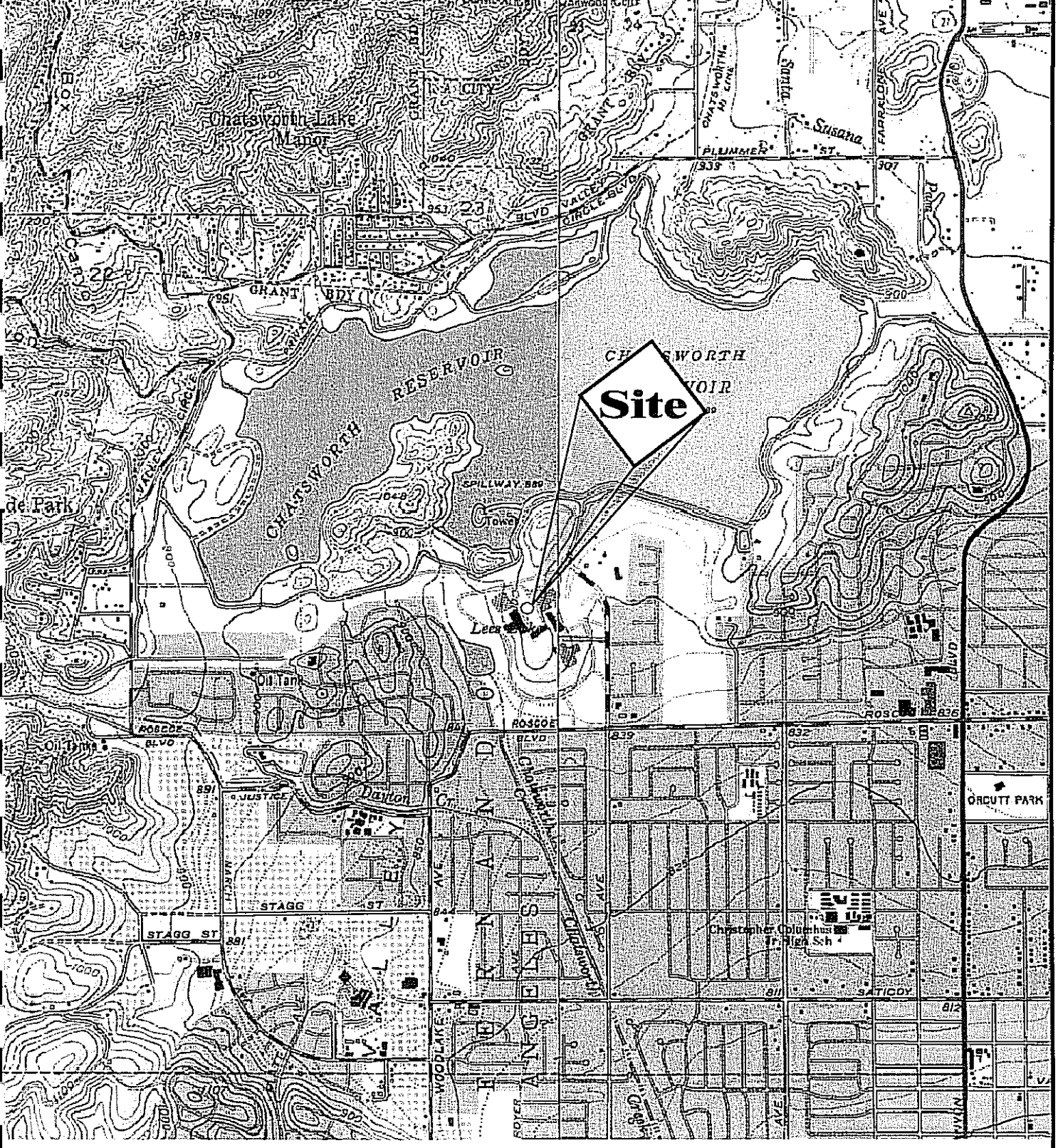
This report presents the results of ENVIRON's evaluation. It is based primarily upon a site visit, a review of available historical documents, and a review of lists of environmentally impaired sites. No environmental samples, other than indoor air quality samples, were collected as part of this review. Chain-of-title documents were not provided for ENVIRON's review. Although, where possible, reasonable attempts were made to verify information provided to ENVIRON, this report is accurate and complete only to the extent that information provided to ENVIRON was itself accurate and complete. However, we have found no reason to question the information received.

Antecedent to this Introduction (Chapter 2.0), ENVIRON's conclusions are presented in Chapter 1.0. The findings for the Phase I/II environmental assessment for the Property are presented in Chapter 3.0. Limitations are presented in Chapter 4.0, and references are presented in Chapter 5.0.

2.4 Exceptions to/Deletions from ASTM Practice E 1527-00

Resumes for ENVIRON personnel conducting the assessment are not included in this report, but will be provided upon request. Due to security clearance restrictions, ENVIRON was able to access only a portion of Building C, located on the Property. No other exceptions to, or deletions from, ASTM Practice E 1527-00 were made during this assessment.

3.0 FINDINGS



0 1/2 1 MILE

2000 0 2000 4000 FEET

SOURCE:
U.S.G.S. 7.5 minute series (topographic)
Calabasses Quadrangle, CA, 1952, photo revised, 1967
Canoga Park Quadrangle, CA, 1952, photo revised, 1967

CONTOUR INTERVAL 40 FEET
DOTTED LINES REPRESENT 10-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929
SCALE 1:24000

ENVIRON

Site Vicinity Map

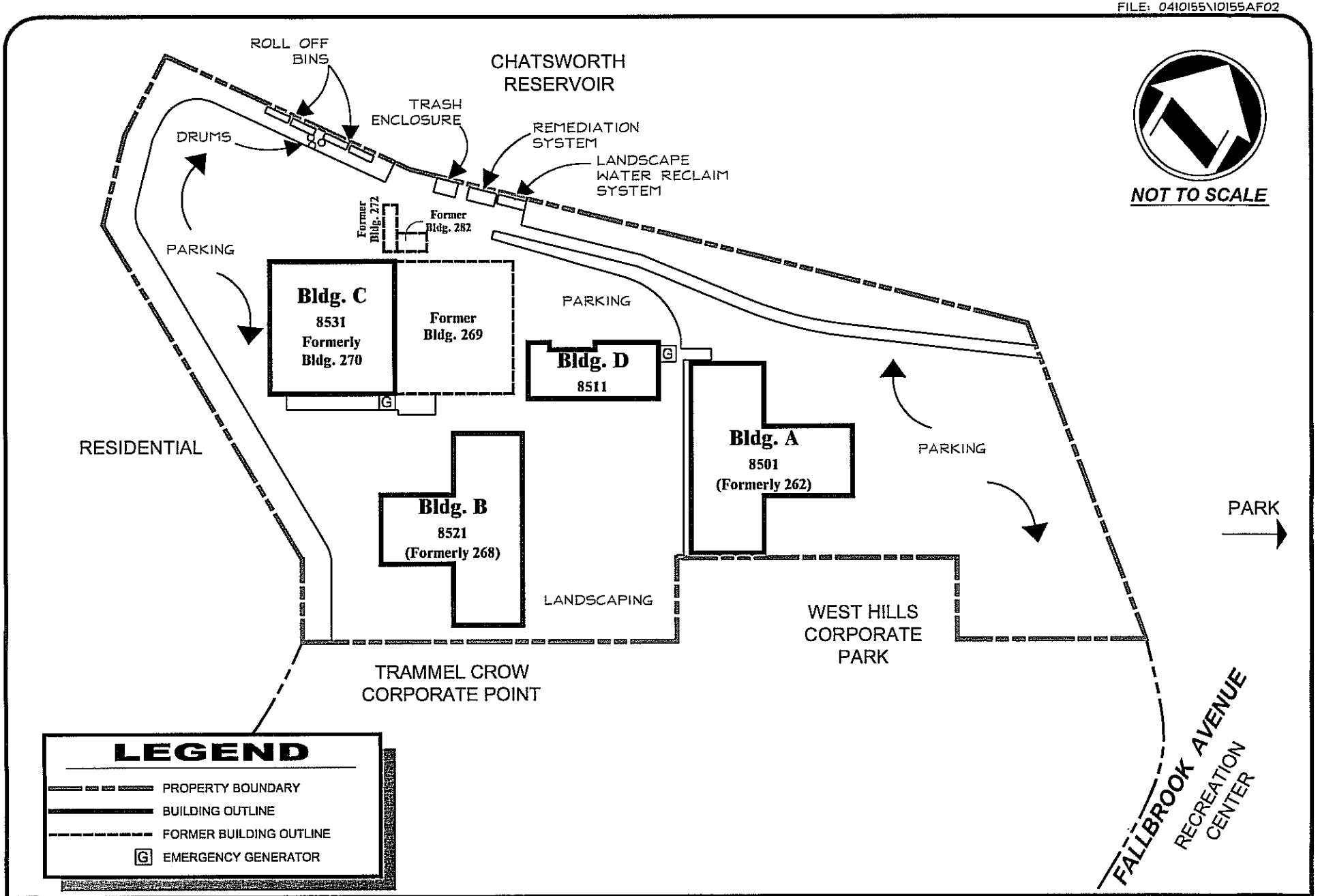
8501-8531 Fallbrook Avenue
Canoga Park, California

Figure **1**

Drafter: JJC Date: 12/20/01 Contract Number: 04-10155A Approved: Revised:

FILE: 04I0155V10155AF01

FILE: 0410155\10155AF02



ENVIRON

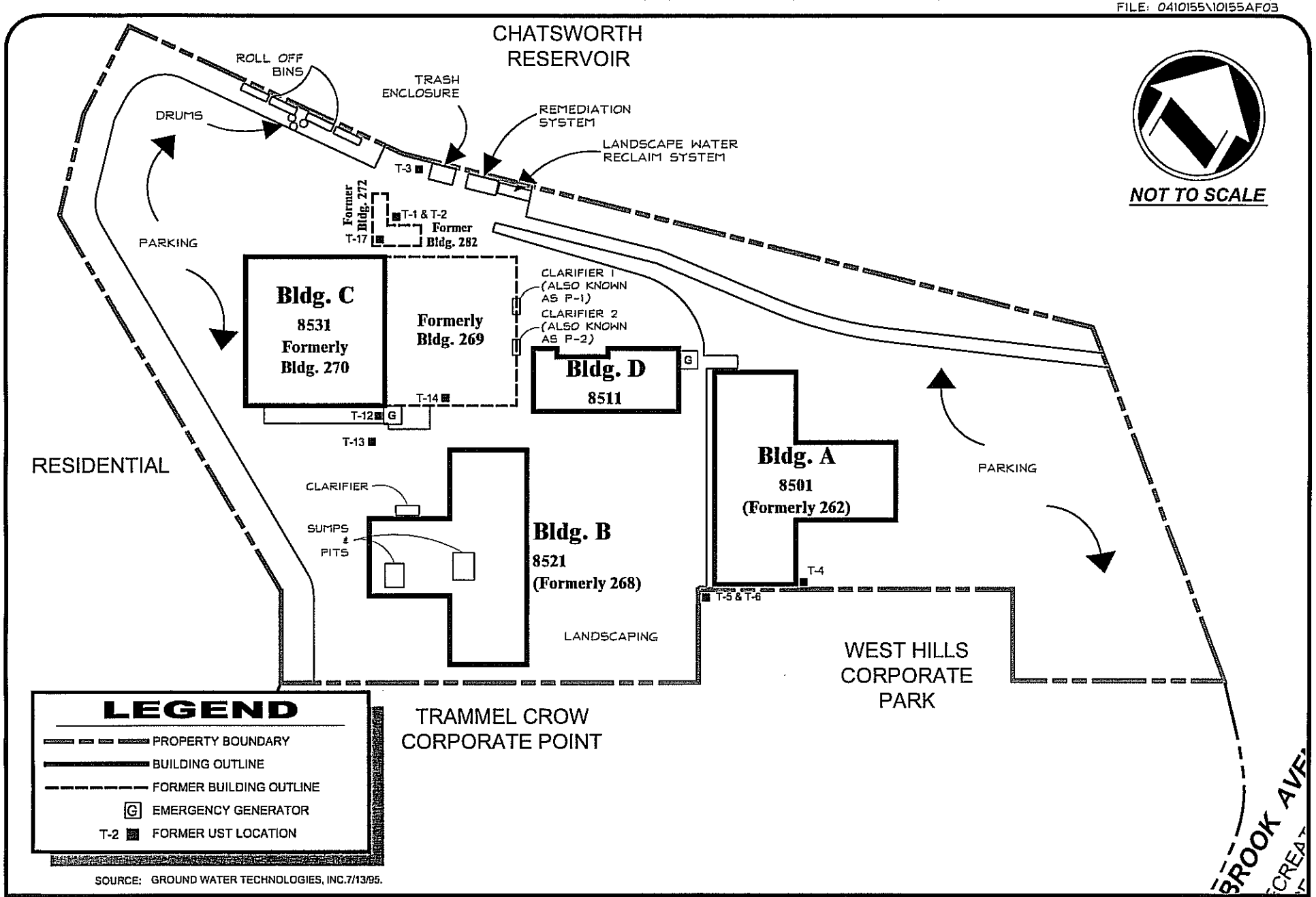
Site Plan

8501-8531 Fallbrook Avenue
Canoga Park, California

Figure 2

Drafter: JJC | Date: 1/09/02 | Contract Number: 04-10155A | Approved: | Revised: 3/7/02

FILE: 0410155\10155AF03



ENVIRON

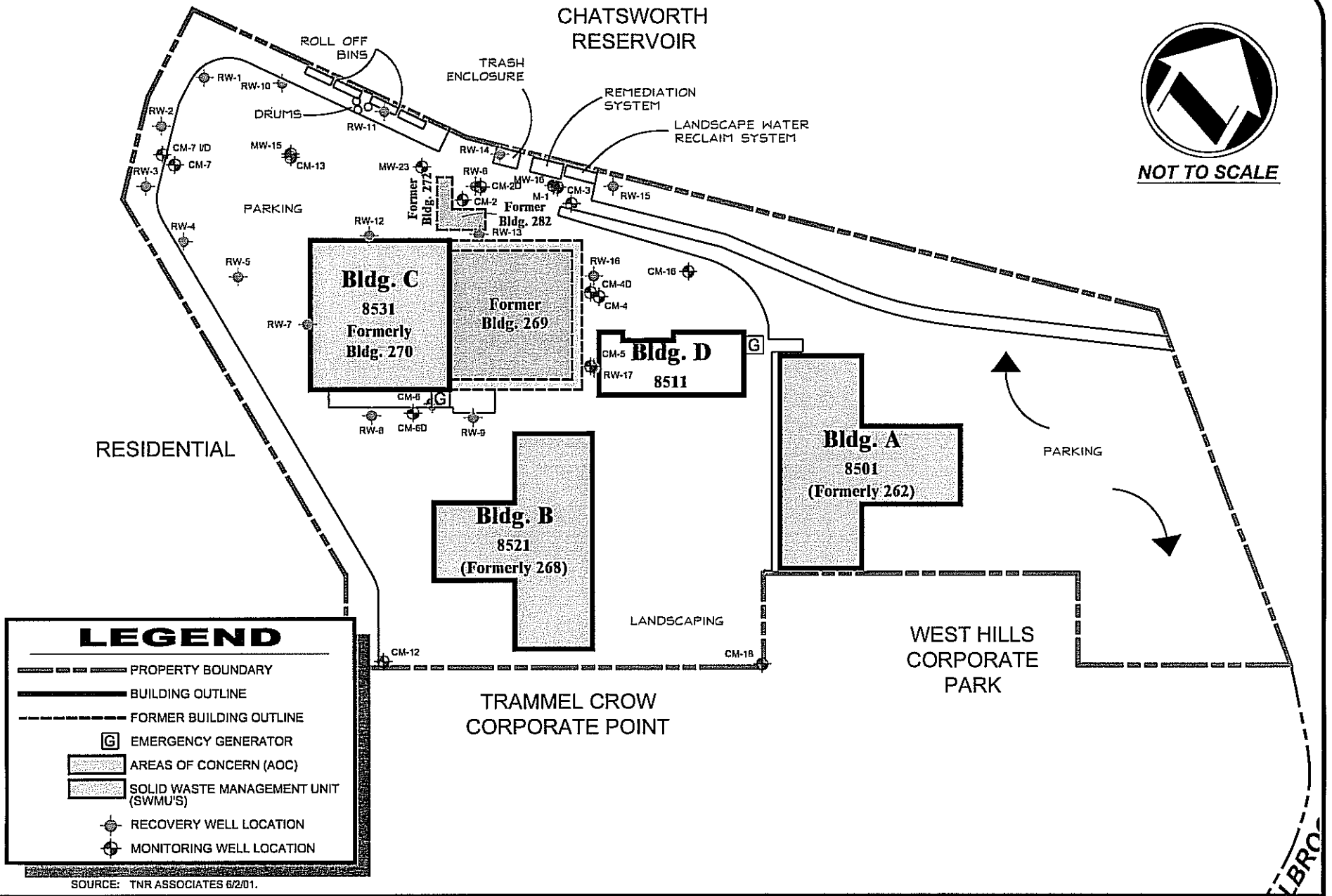
Site Plan and Locations of Former Tanks and Pits

8501-8531 Fallbrook Avenue
Canoga Park, California

Figure 3

Drafter: JJC | Date: 1/10/02 | Contract Number: 04-10155A | Approved: | Revised: 3/7/02

FILE: 0410155\10155AF04



SOURCE: TNR ASSOCIATES 6/2/01.

ENVIRON

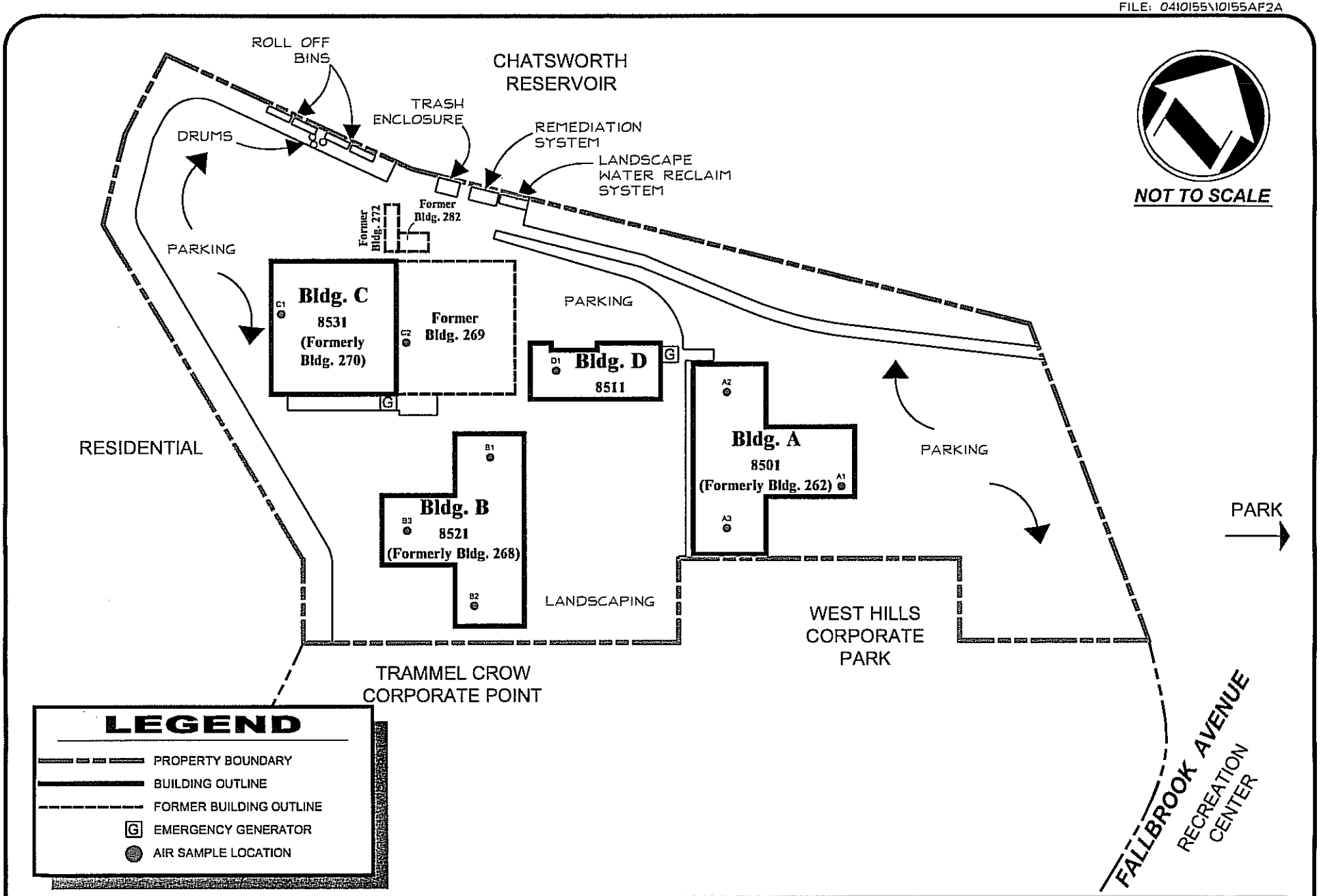
Site Plan and Locations of AOC, SWMU's and Wells

8501-8531 Fallbrook Avenue
Canoga Park, California

Figure 4

Drafter: JJC | Date: 1/10/02 | Contract Number: 04-10155A | Approved: | Revised: 3/7/02

FILE: 0410155\10155AF2A



ENVIRON

Indoor Air Sampling Locations

8501-8531 Fallbrook Avenue
Canoga Park, California

Figure 5

Drafter: JJC | Date: 3/8/02 | Contract Number: 04-10155A | Approved: | Revised: 3/25/02

3.1.1.3 Utilities

Electricity, domestic water, and sewer services are provided to the Property by the Los Angeles Department of Water and Power (LADWP). Natural gas is supplied by the Southern California Gas Company.

3.1.2 Site Reconnaissance

As described previously, the Property consists of approximately 30 acres of land, improved with four office buildings and associated parking and landscaped areas. ENVIRON's site visit to the Property was conducted on December 18, 2001. ENVIRON was escorted during the visit by Ms. Samaniego of Insignia. Ms. Samaniego indicated that three of the Property buildings (A through C) were completely remodeled in the year 2000. According to Ms. Samaniego, all interior building materials, with the exception of the steel framing and concrete flooring were removed and the building interiors were re-built. The roofing materials also were reportedly removed and replaced during this remodeling. Light and other electrical fixtures, as well as plumbing also were replaced.

Ms. Samaniego indicated that ground water remediation has been ongoing during the year that she has managed the Property. She stated that approximately ten soil borings were drilled in the northwestern portion of the Property during the past month. Remedial activities and subsurface investigations at the Property are further discussed in Section 3.3.3 and Appendix D of this report.

Ms. Samaniego indicated that the buildings are comprised of office space and no manufacturing is conducted at the Property. She also indicated that no chemicals are stored or used on-site, other than janitorial supplies and a small amount of paint.

The four buildings at the Property are referred to as Buildings A through D. Building A has the address of 8501 Fallbrook Avenue and is located in the northeastern portion of the Property. Building A was previously known as Building 262, when occupied by Hughes Missile Systems Company (Hughes). This building has 157,674 square feet of rentable space covering 2½ floors. The ground floor is the ½ floor and is partially below grade. Building A has two hydraulic passenger elevators and one hydraulic freight elevator. Electrical rooms, janitorial rooms, and restrooms are located on each floor of the building. Building A is occupied by Xerox, Software Dynamics, and Countrywide, all of which use the space for offices. Asphalt paved parking areas are located to the east and north of the building.

Building B has the address of 8521 Fallbrook Avenue and is located in the southwestern portion of the Property. This building was previously known as Building 268, when occupied by Hughes. Building B has 153,892 rentable square feet covering 2½ floors. Again the ground floor is the ½ floor and is partially below grade. This building has two hydraulic passenger elevators and one hydraulic freight elevator. Electrical rooms, janitorial rooms, and restrooms are located on each floor of the building. This building is occupied by Pitney Bowes, IBM, Boeing, and Countrywide, all of which use the space for offices. One tenant suite in Building B is currently vacant, and was previously occupied by Vast Solutions, a paging company. Asphalt parking areas are located to the north and south of this building.

Building C has the address of 8531 Fallbrook Avenue and is located in the northwestern corner of the Property. This building was previously known as Building 270, when occupied by Hughes. Building C has 2 floors, with a portion of the ground floor located partially below grade. This building has 100,000 square feet of rentable space, all of which is occupied by Boeing. Only the entrance and front hallway of this building were accessible to ENVIRON during the site visit due to security clearance requirements. The portion accessed was observed to consist of office space and the remainder of the building is reportedly also used for offices. This building has two hydraulic passenger elevators and one hydraulic freight elevator. A diesel-operated emergency generator is located within a fenced enclosure at the southeastern exterior of the building. Asphalt parking areas are located to each side of this building. Numerous monitoring wells were observed in these parking areas.

Building D has the address of 8511 Fallbrook Avenue and is located in the north-central portion of the Property. This building was constructed during the year 2000, and was not a part of the former Hughes facility. Building D has 141,386 square feet of rentable space in four floors. An unfinished portion of the first floor (located in the south-central part of the building) is partially below grade, and was designed to be used as an auditorium. The interior spaces on the first floor, with the exception of the lobby, and the fourth floor have not been finished. The building is currently leased by Sterling Software/Computer Associates, which occupies the second floor. The first and fourth floors were also to be occupied by this tenant, however, construction has been halted. The third floor is subleased to Countrywide. The occupied areas of this building are used for office space. Two hydraulic passenger elevators and one hydraulic freight elevator are located in the building. Restrooms, electrical rooms, and janitorial rooms are located on each floor. A diesel-operated emergency generator and large electrical transformer are located in a fenced enclosure on the eastern exterior of this building. Asphalt parking areas are located to the north and west of the building.

As described above, asphalt parking areas are located adjacent to each of the buildings. Numerous ground water wells and former soil boring locations were observed in the northern and northwestern portions of the parking areas. These wells and borings are associated with past and current remediation activities at the Property (Figures 3 and 4). These activities are discussed further in Section 3.3.3 and Appendix D of this report.

A large landscaped area, consisting of grass, planters, a pond, and two streams, is located in the center of the Property, to the south of Building D, between Buildings A and B. According to Ms. Samaniego, the water in the pond and connected streams is recirculated through a biofilter, and no chlorine or other chemicals are used in the water. Landscaping services are provided by an on-site contractor which uses the West Hills Corporate Park site adjacent to the south of the Property to store equipment.

A water reclaim system, used for watering landscaped areas on the Property, is located along the northern Property boundary, to the north of Building D. The reclaim system is located within a fenced enclosure and consists of large water holding tanks and PVC piping. According to Ms. Samaniego, ground water extracted at the Property is processed through the system and delivered by PVC piping to planter areas throughout the Property. Based on information provided in the ground water monitoring and remediation reports reviewed for the Property, treated ground water is used for the irrigation of landscaping. Several steel drums, labeled "purge water" were observed within the fenced enclosure. Based on ENVIRON's observations at the time of the site visit, it appears that these drums are used during monitoring well sampling.

A fenced trash enclosure is also located along the northern Property boundary. Several trash dumpsters, placed in the enclosure area, are used by the Property tenants. Minor staining was observed on the asphalt beneath the dumpsters.

A remediation system is located in a locked, fenced enclosure along the northern Property boundary. This enclosure was not accessible at the time of the site visit, however portions were observed through the fencing. The systems appear to include several units labeled as "aqua scrub" and "carbon." According to Ms. Samaniego, ground water sampling and remediation activities currently are being conducted at the Property. These remediation activities are discussed further in Section 3.3.3.

As described above, Ms. Samaniego indicated that several soil borings were recently drilled along the northern portion of the parking area. Four roll-off bins and approximately 20 steel drums were observed in the area of the recent borings. The bins appear to contain soil, and the drums are labeled as containing "non-classified waste decon water." The drums and bins were placed on the asphalt surface without secondary containment; however, no sign of leaks or spills were observed around these containers at the time of ENVIRON's site visit.

3.1.2.1 Chemical Use and Chemical Waste Storage

Ms. Samaniego indicated that significant quantities of chemicals are not used at the Property. No chemical waste reportedly is generated at the Property, and no waste storage areas (other than municipal waste dumpsters) were observed during the site visit. Chemicals observed, or reported to be used on-site, consist of janitorial cleaners, small amounts of paint, hydraulic fluid for the elevators, and diesel in the emergency generators. Paint cans are stored in a small flammable cabinet in the maintenance room located in Building B. The paint reportedly is used for touch-up jobs only.

One 55-gallon drum of hydraulic fluid, without secondary containment, was observed in the elevator machine room in Building B. No containers of hydraulic fluid were observed in the elevator equipment rooms of the remaining buildings. ENVIRON did not observe staining on the concrete floor beneath or adjacent to the elevator equipment in the machine rooms during the site visit.

Diesel is stored in tanks that are an integral part of the emergency generators. Ms. Samaniego was not aware of the capacity of these tanks. No staining was observed on the raised concrete pads beneath the generators.

3.1.2.2 Non-Hazardous and Hazardous Solid Waste

No hazardous solid waste was observed or reported to be stored (with the exception of the possible hazardous drill cuttings generated from recent investigations at the Property). Non-hazardous waste observed at the Property consists of general office trash. This waste is collected in dumpsters located in the enclosure at the northern side of the Property, as described above. Minor staining was observed on the asphalt beneath the dumpsters.

3.1.2.3 Asbestos

Based on the construction date of Building D (built in 2000), it is unlikely that asbestos-containing materials (ACMs) were used in this building. As previously mentioned, Ms. Samaniego indicated that Buildings A through C were completely remodeled during 1999-2000. Several previous reports relating to asbestos surveys and abatement activities conducted in these buildings were provided for ENVIRON's review and are summarized in Appendix C of this report.

Based on a review of available reports, it appears that the majority of floor tiles and associated mastics and pipe, elbow, and tee insulation in the Property buildings were found to contain asbestos. Portions of the wall materials, exterior stucco (paint) materials, and roofing materials also were found to contain asbestos. As reported by Ms. Samaniego, all building materials, other than metal, wood, and concrete, reportedly were removed during recent remodeling activities. Ms. Samaniego also indicated the roofing materials were removed and replaced during the remodeling. Reports describing the abatement of various ACMs were reviewed (see Appendix C), however reports documenting the removal of all ACMs from the buildings were not provided to ENVIRON. A June 2000 Environmental Impact Report prepared by AllWest stated that a review of a November 1999 report by J&H indicated that *"all asbestos containing material identified in the interiors of the buildings"* (Buildings A and B at 8521 and 8531 Fallbrook Avenue) had been abated. During the site visit, the building materials observed appeared to have been installed recently, and ENVIRON believes it is unlikely that the current building materials contain ACMs.

3.1.2.4 Lead-Based Paint

Based on the construction date of Building D (built in 2000), it is unlikely that lead-based paint was used. As described above, Ms. Samaniego indicated that Buildings A through C were completely remodeled during 1999-2000. The only materials reportedly left in-place were metal, wood, and concrete, which were not painted. Property areas accessed during the site visit appeared to have been recently painted, and no areas of peeling or chipping paint were observed. Black paint was not observed during the site visit.

One report relating to paint sampling was provided to ENVIRON during the site visit. The report entitled "*Lead Inspection, Westhills Corporate Village, Building 8521,*" prepared by J&H, and dated November 15, 1999, was reviewed. Based on this

report, the paint sampled during this inspection was collected from the ceiling area on the first floor of Building B. Four bulk samples of the black paint were collected and found to contain between 0.050% and 0.056% lead. These results are below the Los Angeles County Department of Health Services and U.S. Department of Housing and Urban Development's standards for lead-based paint. No recommendations were included in the report.

3.1.2.5 Polychlorinated Biphenyls ("PCBs")

Small, dry-type transformers are located in various areas throughout the Property. Because the transformers are dry-type units, PCB-containing fluid is not expected to be present in the transformers.

Pad-mounted transformers are located within fenced enclosures adjacent to Buildings C and D. These transformers are not labeled, but are assumed to be owned by the electric utility company, LADWP. Ms. Samaniego indicated that the transformers were installed during the buildings' remodeling activities in 1999 or 2000. Based on this installation date, it is unlikely that the transformers are PCB-containing. No staining was observed on the concrete pads beneath and adjacent to the transformers.

Fluorescent light fixtures are present throughout the buildings at the Property. Ms. Samaniego indicated that the fixtures were installed during the remodeling conducted in 1999-2000. Based on this installation date, it is unlikely that these fixtures and ballasts contain PCBs.

3.1.2.6 Air Emissions

Air emissions sources observed at the Property appear to be limited to the two diesel emergency generators, which are only operated during routine testing and power outages. Emissions from the generators are expected to be limited in duration and quantity and are not expected to adversely affect soil and/or ground water underlying the Property. Permits for the generators, issued by the South Coast Air Quality Management District (SCAQMD), were observed at the Property.

In addition, the remediation system located at the Property likely generates air emissions and would, therefore, require a permit from the SCAQMD. ENVIRON was not provided with access to this system to check whether such a permit is posted near the equipment.

3.1.2.7 Wastewater Discharges

According to Ms. Samaniego, sources of wastewater generated at the Property consist of sanitary effluent from the sinks and toilets. Rainwater runoff on the western side of the Property is directed into concrete gutters that flow to an unlined creek located between the Property and adjacent residences. This creek was dry at the time of the site visit. Rainwater runoff on the remainder of the Property appears to flow toward the south and southeast, to street gutters.

Treated ground water arising from the remediation system is collected in the water reclaim system and used in the landscaped areas of the Property.

3.1.2.8 Soil and Ground Water Contamination

As previously mentioned, numerous monitoring wells are located at the Property. Moreover, evidence of previous soil borings was observed during the site visit. Ground water remediation activities currently are being conducted at the Property. Soil and ground water contamination at the Property is a result of past Property use by Hughes. The contamination and remediation activities are discussed in Section 3.3.3 and Appendix D of this report. No current Property uses that would contribute to soil or ground water contamination were observed by ENVIRON during the site visit.

3.1.2.9 Mold

During the site visit, ENVIRON observed the readily accessible areas of the Property buildings for indications of water stains and/or mold. No signs of such stains or mold were observed within the Property buildings at the time of the site visit. Additionally, Ms. Samaniego indicated that she is not aware of any such areas within the buildings, or of any current roof or pipe leaks.

Ms. Samaniego indicated that there had a been an area of mold previously identified in Building A, and provided ENVIRON with a report pertaining to the sampling of the mold. This area was identified due to visual observation from an employee. According to an April 9, 2001 letter report prepared by J&H regarding "mold inspection, sampling and report," an inspection for mold was conducted in Building A on March 30, 2001. The inspection included Cubicle 109A, the adjacent area, and Cubicle 112A. At the time of the inspection, no visible signs of mold reportedly were observed; however, three tape lift samples were collected from the carpet of the

above referenced areas. The sample collected from the carpet adjacent to cubicle 109A was found to have a minor, abundant, and major density of acremonium, aspergillus/penicillium, and hyphae, respectively. Penicilium phialides reportedly was also observed. The sample collected from the carpet beneath the desk in cubicle 109A was found to have a trace density of cladosporium, aspergillus/penicillium, and hyphae, and the sample collected from the carpet in cubicle 112A was found to have a trace density of cladosporium and hyphae. J&H concluded that "no toxic molds" were found. However, Ms. Samaniego stated that the materials in the area of concern were removed and the area was cleaned with a biocide substance.

3.1.3 Immediate Vicinity Reconnaissance

A reconnaissance of the immediate vicinity of the Property was conducted by ENVIRON on December 18, 2001. ENVIRON's reconnaissance of the immediate vicinity consisted of walk- and drive-by observations from the public streets. ENVIRON did not enter any sites near or adjacent to the Property. The immediate vicinity of the Property was observed to consist of residences, a park/recreation area, a reservoir, and office buildings. During ENVIRON's reconnaissance of the immediate vicinity, ENVIRON did not identify facilities that are listed in the EDR database report.

3.2 Indoor Air Sampling

ENVIRON conducted indoor air sampling in the four buildings at the Property to evaluate the potential health risks from VOCs to workers inside the buildings. This air monitoring was conducted on February 28 and March 14, 2002. On February 28, 2002, ENVIRON placed nine Summa canisters, with flow controllers, at the Property (see Figure 5). The sample locations included three on the ground floor of Building A, three on the ground floor of Building B, one on the ground floor of Building C, one at the exterior of Building C, and one on the ground floor of Building D. The sample located exterior to Building C malfunctioned, and the canister was not full after 8 hours, therefore, VOC detection limits for this sample were elevated. This sample was recollected on March 14, 2002. In all cases, the canisters were retrieved after approximately eight hours , and submitted to Performance Analytical Inc. Air Quality Laboratory (Performance) under chain-of-custody protocol for VOC analysis using EPA Method TO-15. Air samples were analyzed on an expedited turnaround.

Based on the analytical results, the following 12 compounds were detected at various concentrations in Buildings A, B, C, and/or D: acetone, benzene, chloromethane, methylene chloride, 2-butanone, o-xylene, ethylbenzene, 4-methyl-2-pentanone, toluene, tetrachloroethene, methyl-t-butyl ether (MTBE), and p/m-xylene. Tables summarizing sampling results, and the laboratory data report are

included in Appendix E. Using these data, ENVIRON calculated the average indoor concentration for each detected analyte, according to the building in which the samples were retrieved. The three samples obtained in Building A were retrieved in office working areas where employees could be expected to work an entire 8-hour day. The average compound concentration of each detected analyte in the three samples was calculated and assumed to be representative of the compounds' concentrations in Building A. Similarly, the average compound concentration of each detected analyte in the three samples obtained in Building B (office working areas) were assumed to be representative of the compound concentrations in Building B. In Building C, the representative compound concentrations were assumed to be the values obtained from the one indoor sample (C1) located in the building's front lobby. For the sole sample obtained from Building D, the concentrations observed from the sampling result were considered to be representative of average concentrations inside the building. Building D was under construction at the time of the sampling.

The average concentration of each detected VOC was compared to the 8-hr time-weighted-average (TWA) Permissible Exposure Level (PEL) specified by OSHA and/or the OSHA Limit for Air Concentrations specified in 29 CFR 1910.1000 Tables Z-1 and Z-2. For all 12 compounds in all four buildings, the representative concentrations were well below the OSHA thresholds.

To evaluate compliance with California Proposition 65 requirements, the 12 chemicals detected inside the buildings were compared with the Proposition 65 list of applicable chemicals for either developmental or carcinogenic effects listing. Two compounds were identified on the developmental effects listing: chloromethane and toluene. Three compounds were identified on the carcinogenic effects listing: benzene, methylene chloride, and tetrachloroethene.

Certain interpretations of Proposition 65 exposure thresholds employ a daily intake limitation, therefore as a conservative measure, daily human intake values were calculated as exposure through the inhalation pathway using the average concentration for each Proposition 65 listed VOC. The daily intake amount was calculated by multiplying the compound concentration by the amount of air an exposed human would breathe during the 8-hour exposure period (i.e., 10 cubic meters). The California Office of Environmental Health Hazard Assessment (OEHHA) has established the maximum allowable daily limit (MADL) for each compound with developmental effects and the no significant risk level (NSRL) for each listed carcinogenic compound. The MADL and NSRL are specified in the Proposition 65 Status Report, dated February 2001. The results of ENVIRON's evaluation are presented in Appendix E. The representative toluene concentrations were found to be less than the established MADL. As such, no further evaluation for toluene was necessary. The MADL for chloromethane has not yet been established and, therefore, the compound could not be evaluated. The representative methylene chloride concentrations were less than the established

NSRL. As such, no further evaluation for methylene chloride was necessary. The representative concentrations for benzene and tetrachloroethene were greater than the NSRLs in all four buildings. Therefore, the incremental lifetime cancer risks for benzene and tetrachloroethene were calculated for each building.

To conduct these calculations, ENVIRON used guidance provided by OEHHA, which calculates risk as the average chronic daily dose multiplied by the established cancer slope factor. A few conservative assumptions are utilized in the equation for calculating the average chronic daily dose, such as exposure duration, average body weight, and inhalation rate. For this evaluation, the average exposure duration was assumed to be 20.9 years of exposure in Buildings A, B, and C, using US EPA exposure factors. Since Building D was under construction, exposure duration of 2 years was assumed for a construction worker. As shown in data tables included in Appendix E, an exposure scenario was generated for each building, assuming an 8-hour day for 250 days per year for the exposure period, a daily exposure breathing volume of 10 cubic meters, and the average compound concentration for each building. In all scenarios, the calculated incremental cancer risks were below 1 in 100,000 (i.e., 1.0 E-05). Given these exposure scenarios, Proposition 65 requirements are not applicable for benzene and tetrachlorothene inside the buildings.

3.3 Historical Review

To evaluate the historical uses of the Property, ENVIRON reviewed topographic maps (dated 1903, 1947, and 1967), historic aerial photographs (dated 1928, 1952, 1965, 1976, 1989, and 1994), and city directories (dated 1920 to 2000). Sanborn maps were also requested from EDR. EDR indicated that Sanborn maps were not available for the Property. ENVIRON also conducted an interview with Ms. Samaniego, the current Property manager, and reviewed numerous reports pertaining to the Property. The results of ENVIRON's historical review are presented below.

3.3.1 Historical Operations Interview

During the site visit, ENVIRON interviewed Ms. Samaniego regarding the history of the Property. Ms. Samaniego indicated that the Property was previously owned and occupied by Hughes, then later owned by Coast Federal Savings. The Property is currently owned by West Hills Corporate Village/Shamrock. As discussed previously, Ms. Samaniego indicated that Buildings A through C had been completely remodeled during 1999-2000 and all interior building materials, with the exception of concrete floors and framing, had been removed. Ms. Samaniego also indicated that Building D was constructed in 2000. According to Ms. Samaniego, tenants occupying the Property buildings since the time of the remodeling have

used the spaces for offices, and no manufacturing or chemical use are conducted at the Property.

Ms. Samaniego indicated that additional soil borings had been drilled in the northern portion of the Property during the past month, and that she has been told that the current remediation activities will be completed within approximately the next two years.

3.3.2 Chronological Summary of Historical Topographic Maps, Aerial Photographs, and City Directories

- The 1903 topographic map depicts the Property and surrounding areas as vacant, undeveloped land. The roads currently adjacent to the Property and the reservoir are not shown on this map. The vicinity is depicted as primarily undeveloped land.

- The Property address of 8501 Fallbrook Avenue was not listed in the city directories dated from 1920 to 2000. The surrounding site addresses were not listed in the city directories dated from 1920 to 1961.

- In the 1928 aerial photographs, the Property and adjacent area appear to be agricultural land. Unpaved roads are visible to the east and south of the Property. The vicinity is primarily agricultural land.

- The 1947 topographic map shows the Property as vacant, undeveloped land. Fallbrook Avenue is depicted as an unpaved road adjacent to the east of the Property. Several residential-type structures are shown beyond this road to the east. The Chatsworth Reservoir is depicted to the north of the Property, and vacant, undeveloped land is shown to the west and south. Roscoe Boulevard is depicted further south. The Property vicinity land use is shown as a mixture of agriculture, undeveloped land, and scattered residences.

- In the 1952 aerial photograph, the Property appears to be agricultural land. An unpaved road is located adjacent to the north and west of the Property, and Fallbrook Avenue is visible to the east. Undeveloped land and a small lake are visible to the west of the Property. The Chatsworth Reservoir is located to the north of the Property, north of the unpaved road. Several small structures, which are likely related to the apparent agricultural activities, are located to the south and southeast of

the Property. The remainder of the land to the south of the Property and the vicinity also appears to be used for agricultural purposes.

- Residences are listed in the 1962 city directory for surrounding sites. Surrounding site addresses were not listed in the city directories dated from 1963 to 1969.

- Three of the current Property buildings are visible in the 1965 aerial photograph. Associated paved parking areas are discernable to the east and west of the buildings. Additional commercial structures and parking areas (which appear to be part of the same complex as the Property) are located to the south. A small commercial structure and an apparent residential development are visible to the east of the Property, beyond Fallbrook Avenue. Undeveloped land and a small lake are visible to the west of the Property. Other than the large structures observed south of the Property, the vicinity appears to have been primarily developed for residential uses.

- Three structures are depicted on the 1967 topographic map at the Property. The structures correspond to the current buildings (Buildings A and C). An unnamed road, then the Chatsworth Reservoir, is shown to the north of the Property. Fallbrook Avenue is depicted to the east of the Property, with several small structures, one larger commercial structure and a residential development shown further east. Undeveloped land and Lees Lake are to the west of the Property, with a residential development further west. The vicinity is primarily residential, with scattered areas of agricultural use.

- In the 1970 city directory, the neighboring site address of 8500 Fallbrook Avenue was listed as North American Rockwell and "Rocketdyne/A Division of North America."

- The surrounding site addresses are not listed in the 1971 to 1990 city directories.

- No major changes were noted in the 1976 aerial photograph from the 1965 photograph, with the exception of a residential development to the west of the Property, surrounding the small lake. The Property and vicinity appear to have changed from the 1976 to the 1989 aerial photograph..

- Residences were listed in the 1991 and 1995 city directories for neighboring sites. Surrounding site addresses were not listed in the 2000 city directory.

- The 1994 aerial photograph shows the Property as it is currently developed. The adjacent areas and vicinity appear similar to the 1989 photograph.

3.3.3 Previous Reports Review

ENVIRON reviewed numerous prior reports that included information regarding historical uses of, and activities conducted at, the Property. A detailed summary of each report/letter reviewed by ENVIRON is presented in Appendix D.

3.3.4 Summary of Historical Reviews

Based on available historical aerial photographs and topographic maps, the Property and vicinity appear to have been used for agricultural purposes from the early 1900s to the late 1950s. The first structures were built at the Property in 1959 and were used by several occupants. The historical documents reviewed did not provide details of the operations conducted at the Property from 1959 to 1966. Hughes first occupied the Property in 1966 and was the sole occupant of the Site from 1976 to 1994.

Hughes operations were mainly related to aerospace research and development programs. Six buildings were located at the Property (Buildings 262, 268, 269, 270, 272, and 282); activities conducted in these buildings included solvent cleaning, painting, coating, lubricating, etching, degreasing, soldering, as well as laboratory and garage/repair shop operations. The Property buildings were damaged during the 1994 Northridge earthquake, and it appears from review of various documents, that the buildings were then vacated due to this damage. In November 1995, the Hughes facility, including the Property and adjacent areas to the south, were purchased by Coast Federal Bank. The Property was then sold to Regent Properties, Inc. (Regent) in 1997. During 1997 and/or 1998, Buildings 269, 272, and 282 were demolished. Shamrock later purchased Regent, and the Property is currently owned by West Hills Corporate Village/Shamrock. Only Buildings 262, 268, and 270 remain from the original buildings.

A hazardous waste storage shed also was located at the northern boundary of the Property. Eight USTs were located at the Property (Tanks T-1 to T-4, T-12 to T-14, and T-17). Most of these tanks have been removed; tank T-4 was abandoned in-place; and, according to McLaren/Hart tank T-14 actually was an aboveground storage tank. Soils in the vicinity of these tanks reportedly were impacted by VOCs. The local regulatory agency has not issued closure letters for the USTs.

Two clarifiers were present immediately east of Building 269 (which has been demolished). Soil and ground water investigations have been conducted in the areas surrounding the clarifiers; however, it appears that the clarifiers were backfilled and capped in-place (it is not clear whether they were subsequently removed). A clarifier reportedly also was located in or immediately north of Building 268; according to McLaren/Hart, this clarifier was located on the second floor of the building and received only photographic laboratory effluent. A system of pits and trenches were also located in Building 268. Soil samples in this area showed no detectable contamination; therefore, the pits and trenches were backfilled with sand or slurry and covered with a concrete cap. A large cooling pond reportedly was located between Buildings 268 and 269.

Based on information contained in the Order issued by the LARWQCB in December 1994, in 1985 Hughes discovered that soil and ground water at the Site were impacted with VOCs. Since then, numerous investigations have been conducted to delineate the nature and extent of these impacts. Three areas of the Site are known to be contaminated: (1) Northwestern corner from Building 269 to western edge of the Site (northwestern part of the Property); (2) area of monitoring well CM-8D (outside the Property to the south); and (3) area of monitoring well CM-10 (outside the Property to the south).

In 1990, Hughes and the DTSC entered into a consent agreement whereby Hughes would comply with LARWQCB requirements for the ground water remediation and monitoring at the Site. A CAP was prepared in 1992, and amended in 1994. In 1995, DTSC and the LARWQCB agreed to include the Site on the SB1082 list. It appears that the LARWQCB has provided oversight for the soil and ground water remediation at the Site, while DTSC is the lead agency for RCRA closure at the Site. Two RCRA permitted facilities were located at the Property: Tank T-3 and the HWSA. In a 1995 memorandum, DTSC outlined seven AOCs at the Property: Buildings 272/282, portions of Building 262, Building 268, Building 269, Building 270, Tank T-12, and Tanks T-14/T-16. In addition, several SWMUs were identified at the Property. ENVIRON has not been able to find one document that details all the SWMUs, but based on available records, the following were identified: SWMU#1 at Building 272, SWMU#2 at Building 282, SWMU#3 at Building 269 P-1 and P-2, and SWMU#6 at Tanks T-1/T-2 and associated pump area.

Correspondence from DTSC indicates that the agency has not been fully satisfied with the investigations of the AOCs, the closure of the SWMUs, or post closure of the HWMU. In a letter dated March 12, 1999, DTSC indicated that Raytheon's (Raytheon purchased Hughes

in 1997) approach thus far of investigating small portions of the Facility and submitting such data to DTSC for closure of SWMUs or AOCs was not adequate. DTSC was requiring a RCRA Facility Investigation Workplan, which summarized all SWMUs, AOCs, and HWMUs identified at the Facility and investigations and corrective actions conducted to date. DTSC would then work with Raytheon to prioritize these areas. However, since Raytheon had elected to stop its fee-for-service agreement with DTSC, DTSC staff could not perform significant work on the corrective action activities. DTSC further indicated that Raytheon was in violation of requirements to submit post-closure permit application for Tank T-3.

As previously mentioned, the Property is undergoing remediation. The remediation system includes a ground water recovery system consisting of 17 recovery wells (first started in February 1995 and fully operational since March 1995); the treated effluent is reused for on-site irrigation purposes. An SVE system, which has operated since August 1995, included 54 manifolded extraction wells. The air sparging system operated since March 1996 and consisted of 30 manifolded wells, which are connected to an air compressor. A dual-phase treatment system was tested at the Property in 1999, but has not been fully implemented. Since late 1999, the SVE and air sparging wells have not been in operation. Moreover, as of December 2000, only ten recovery wells have been connected to the treatment system at the Property.

In a letter dated October 12, 1995, the DTSC indicated that initially soil and ground water cleanup standards were established for the Site (1992 CAP) based on the lowest numbers produced from a health risk assessment, background measurement, or MCLs. Based on ENVIRON's review of available documents, the ground water cleanup goals appeared to be 10 times greater than the MCL, and soil cleanup goals were established for total chlorinated VOCs at 100 milligrams per kilogram (mg/kg).

The main chlorinated VOCs detected in soils and ground water at the Property are dichloroethene (DCE), 1,1-dichloroethane (1,1-DCA), 1,2-dichloroethane (1,2-DCA), Tetrachloroethene (PCE), trichloroethane (TCA), and trichloroethene (TCE). In addition, benzene is detected in several wells, and is known to be present in soils near former tanks. Based on the latest available ground water monitoring report (June 2001), DCE, 1,1-DCA, and benzene are still detected in several wells at concentrations exceeding the CAP cleanup goals; however, in general VOCs concentrations have been declining in the monitored wells, which shows progress towards Site cleanup.

During the demolition of the HWSA in June 1998, hexavalent chromium contamination was encountered in soils in this area. At that time, Fluor Daniel/Groundwater Technology, Inc. (FD/GTI) did not recommend any additional subsurface investigation or soil removal because the hexavalent chromium contaminated soils were encountered at minimal depths of 5 to 13 feet bgs. Furthermore, FD/GTI indicated that future grading in this area would raise the ground surface by approximately 5 feet. Therefore, FD/GTI did not believe that the hexavalent chromium encountered in the soils would pose a health threat. FD/GTI recommended sampling monitoring wells located up- and down-gradient of the former HWSA for hexavalent chromium on a quarterly basis for a period of one year to evaluate whether the impacted soils would result in impact to ground water. In its March 1999 letter, the DTSC indicated that Raytheon's plan to keep hexavalent chromium contaminated soils in-place and monitor the ground water in this area was not acceptable.

In 1999, hexavalent chromium was detected in three ground water samples collected from Well RW-15, with concentrations ranging from 0.083 to 0.1 milligrams per liter (mg/L). RW-15 is located adjacent to the former HWSA. RW-15 was disconnected from the remediation system and the LARWQCB and DTSC were notified. Seven ground water monitoring wells were installed in proximity to the HWSA in June of 2000, and monitoring for the presence of hexavalent chromium. Sampling results indicated that the MCL for hexavalent chromium, currently 50 micrograms per liter (µg/l), was exceeded at two monitoring wells (MW-32S and MW-32D), both located within the footprint of the former HWSA. It should be noted that the California Environmental Protection Agency Office of Environmental Health Hazard Assessment (OEHHA) is reviewing the public health goal (PHG) and drinking water standard for hexavalent chromium, and the standards may be decreased in 2003.

3.4 Regulatory Review

To assess the potential for soil and/or ground water contamination at the Property due to on- and off-site sources, ENVIRON conducted a review of federal and state regulatory agency database lists of environmentally impacted sites. Sites from the searched databases are summarized in Table 1 in Section 3.4.3.

3.4.1 Geologic and Hydrogeologic Setting

In the evaluation of the potential for environmental problems from other sites to impact the Property, one must consider the possibility that ground water could transport contamination from sites in the vicinity to the Property. Therefore, the depth and flow direction of ground

water are important. To evaluate the possibility of migration of contaminants from other sites onto the Property, this section presents a discussion regarding the geologic and hydrogeologic setting of the Property.

The geologic and hydrogeologic setting at the Property presented below is generated from a review of numerous previous reports. The Property overlies consolidated bedrock of the Miocene Modelo Formation, over the Lower Miocene-aged Topanga Formations. The Modelo Formation consists of siltstone, clayey siltstone and shale with minor interbedded diatomaceous shale. Soils at the Property and vicinity are comprised of Cenozoic-aged Basin fill, which consists of flat-lying, poorly sorted unconsolidated sands, silts, and clays, with some gravels. A layer of construction fill lies above the native soils.

Shallow ground water is encountered at the Property at depth of 15 to 50 feet bgs. Ground water flow direction across the Property is generally to the south and southeast, however the flow is to the southwest in the northwestern portion of the Property (influenced by the remediation system).

3.4.2 Regulatory Agency File Review

ENVIRON requested, through Environmental Support Services of Santa Ana, California (ESS), information regarding the Property address of 8501 Fallbrook Avenue from the Los Angeles County Environmental Health Department, City of Canoga Park Fire Department, and the City of Canoga Park Building Department. According to ESS, the Health Department and Fire Department did not have files for this address. The Building Department files included a demolition permit for Building 269 (previously located on the Property, adjacent to Building 270, currently Building C). The permit was issued in October 1997 to Coast Federal Bank.

ESS also requested information from the above agencies for the former Property address of 8433 Fallbrook Avenue. ESS has not provided ENVIRON with this information as of the date of this report.

ENVIRON also reviewed available files pertaining to the Property, at the LARWQCB. ENVIRON reviewed available reports for the Property provided by Trammel Crow and Insignia. These documents are summarized in Appendix D.

3.4.3 Regulatory Agency Databases

EDR conducted an environmental regulatory agency database search of sites located within the ASTM radii from the Property. The EDR report is presented in Appendix B. Findings of the database search for sites within the search radii required by ASTM are presented in this section.

The EDR report indicated there was poor or inadequate address information for several sites located in the vicinity of the Property; therefore, these sites could not be mapped by EDR. Because the location of these sites with respect to the Property could not be evaluated, ENVIRON is limited in its ability to express an opinion regarding the potential for impact to the Property from these sites. However, ENVIRON reviewed the list of unmappable sites and could not identify sites located adjacent to the Property that were listed as environmentally impaired.

In this section, only facilities that were listed on databases of environmentally impaired sites, and that are located in the immediate vicinity of the Property or are located upgradient (but are not necessarily located near the Property) are discussed. These facilities were selected based on the assumption that a hazardous material released to the subsurface generally does not migrate laterally within the unsaturated soil for a significant distance, but a hazardous material can migrate in the ground water in a generally downgradient direction; however, there are limitations to this interpretation. A list of these facilities is presented in Table 1.

TABLE 1

Regulatory Data Base Search Results

Site	Location Relative to Property	Data Base(s) Listings	Regulatory Status/ Comments
LA City Fire Station #106 23004 Roscoe Boulevard	Approximately 1/6 mile southwest	LUST RCRIS FINDS HAZNET	This facility is listed as having had a tank release, which occurred during repair and impacted soils. No action reportedly has been taken by the responsible party. This facility is also reported to be a small quantity generator of hazardous waste, with wastes listed as unspecified aqueous solution, unspecified oil-containing waste, asbestos-containing waste, and tank bottom waste.
Missile Systems Group/Hughes	Former Property and	HIST UST FINDS	Facility is listed as having had 14 USTs, which stored gasoline, waste, and other

TABLE 1

Regulatory Data Base Search Results

Site	Location Relative to Property	Data Base(s) Listings	Regulatory Status/ Comments
Aircraft Company 8433 Fallbrook Avenue	southern adjacent area	RCRIS RCRIS-TSD CORRACTS CERC-NFRAP Cal-Sites Cortese LUST	substances. A solvents tank release reportedly impacted the ground water. The abatement method for the site is described as excavation and disposal of contaminated soil, and the status is listed as remedial action in progress. The Facility was assigned a low corrective action priority on the CORRACTS database, and has a status of "no further remedial action planned on the CERCLIS database." The Cal-Sites listing indicates that DTSC action is not required, and the case has been referred to a RCRA lead. The Facility is a large quantity generator of hazardous waste and a TSD facility. Violations are reported as "TSD-other requirements," "TSD-closure/post closure requirements," and "TSD-financial responsibility requirements."
Hughes Aircraft Company/Missile Systems group 8433 Fallbrook Avenue	Former Property and southern adjacent area	CA FID UST HIST UST	This facility is listed as an inactive UST location, that had three waste USTs installed in 1981.

The former occupant of the Property, Hughes, is identified on several databases. These listings appear to include the former Hughes facility at the Property and southern adjacent area. As discussed in Section 3.3.3 and 3.3.4, remediation activities currently are being conducted at the Property.

Listings on the UST, RCRIS, HAZNET, ERNS, or FINDS databases are not necessarily indicative of environmental impairment at a facility, therefore facilities listed on those databases are not included in the table above. As indicated above, there is one LUST listing identified as being located in proximity of the Property. However, this facility is located downgradient of the Property, and therefore, is not expected to have adversely impacted the Property.

3.4.4 Munger Map Book

According to the 2001 Munger Map Book of California and Alaska Oil and Gas Fields, oil or gas wells are not located, and were not previously located, on or within ½ mile of the Property.

3.4.5 Radon

Based on radon information included in the EDR database report, the Property is located in an area noted as Zone 2. Zone 2 has average indoor radon levels of greater than 2 pico Curies per liter (pCi/L) and less than 4 pCi/L. The continuous exposure limit established by the EPA is 4.0 pCi/L, which is the limit at which further testing or remedial action is indicated.

The radon survey results listed in the EDR report cannot predict the radon exposure level measurement in any existing or future buildings at the Property. The only way to determine the amount of radon present in a particular structure is to conduct a radon survey in that structure. However, the results detected in the survey are indicative of similar results that could be expected from a survey conducted at other locations and at other times within this same region, which includes the Property.

4.0 LIMITATIONS

This Assessment has been prepared exclusively for use by AMLGM and MEPT and may not be relied upon by any other person or entity without ENVIRON's express written permission. The conclusions presented in this report represent ENVIRON's professional judgment based upon the information available to us and conditions existing as of the date of the Assessment, and are true and correct to the best of ENVIRON's knowledge as of the date of the Assessment. Future conditions may differ from those described herein and this report is not intended for use in future evaluations of the Property. In performing its assignment, ENVIRON must rely upon publicly available information, information provided by the client, and information provided by third parties. Accordingly, the conclusions in the report are valid only to the extent that the information provided to ENVIRON was accurate and complete. ENVIRON does not make any warranties or representations, whether expressed or implied, regarding the accuracy of such information, and shall not be held accountable or responsible in the event that any such inaccuracies are present.

This report is not intended as a substitute for legal advice. Nor is it an exhaustive review of site conditions. ENVIRON makes no representations or warranties about the condition of the Property.

ENVIRON performed the activities cited herein in conformance with the ASTM Practice E 1527-00 for Phase I environmental site assessments. The work was conducted objectively in accordance with generally accepted professional practice standards for this type of work. ENVIRON's scope of work for this assignment did not include collecting samples of any environmental media. As such, this Assessment cannot rule out the existence of latent conditions, and is intended, consistent with normal standards of practice and care, to assist the client in identifying the risks of such conditions.

5.0 REFERENCES

United States Geological Survey (USGS). Canoga Park, California Quadrangle 7.5-minute quadrangle, scale 1:24,000, 1967.

Calscience Engineering & Laboratories. 1988. *Supplemental Information IRT Excavation Pits T-3 and T-13*. July 12.

McLaren Hart. 1989. *Table 1, Underground Tank Inventory.*

McLaren Hart. 1989. *Potential Source Area Investigation Report for The Hughes Missile Systems Group, Canoga Park, California.* November 30.

McLaren Hart. 1991. *Radioisotope Review and Comparison for the Hughes Missile Systems Group Facility, Canoga Park, California.* July 30.

Hughes Missile Systems Group. 1991. *Fire/Life Safety Violation No. 49456.* December 2.

Groundwater Resources Consultants, Inc. 1992. *Investigation of Radioactivity in Groundwater at The Hughes Aircraft Company, Canoga Park Facility, Canoga Park, California.* January 23.

Groundwater Technology, Inc. 1992. *Feasibility Study for Groundwater Remediation, Hughes Aircraft Company Missile System Group Facility, Canoga Park, California.* February 14.

Groundwater Resources Consultants, Inc. 1992. *Results of Radiological Sampling of Monitor Wells December 1991, Hughes Missile Systems Group Canoga Park Facility, Canoga Park, California.* March 27.

Department of Toxic Substances Control. 1992. *Supporting Documentation for the Radioactive Materials Investigation at Hughes Aircraft Company-MSG-CP Required by the RWQCB.* May.

Hughes Missile Systems Group. 1992. *Tabulated Radiological Results from the Groundwater Monitoring Project at Hughes Aircraft Missile Systems Group.* June 18.

Department of Toxic Substances Control. 1992. *Use of Waste Discharge Requirements for Establishing Closure Standards at the Former Hughes Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park, CA.* October 12.

Groundwater Technology, Inc. 1993. *Phase I Environmental Report: Areas of Potential Chemical Release to Soil and Groundwater, Hughes Missile Systems Company, Canoga Park, California.* December 28.

Groundwater Technology, Inc. 1994. *Report on Facility-Wide Site Assessment, Hughes Missile Systems Company, Canoga Park, California.* January 4.

E and A Environmental Services, Inc. 1994. *Asbestos Sampling and Laboratory Testing Wall and Ceiling Construction Materials in Building 262 and 265 at the Hughes Missile Systems Group Facility in, Canoga Park, California.* February 18.

California Regional Water Quality Control Board. 1994. *Requirements for Active Soil Gas Investigation, Well Investigation Program.* March.

Groundwater Technology, Inc. 1994. *Corrective Action Plan Addendum, Hughes Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park, California.* March 29.

E and A Environmental Services, Inc. 1994. *Asbestos Bulk Sampling at the Hughes Missile Systems Group, Building 270, Canoga Park, California.* April 20.

E and A Environmental Services, Inc. 1994. *Asbestos Bulk Sampling at the Hughes Missile Systems Group, Building 262 and 268, Canoga Park, California.* April 29.

Earth Tech. 1994. *Consultation regarding Property Transfer and Summary of Preliminary Records Review, Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California.* August 30.

CH2M Hill. 1994. *Contingent Closure and Post Closure Plans, Hughes Aircraft Company, Missile Systems Group, Canoga Park Facility.* November 21.

Earth Tech. 1994. *Technical Memorandum Records Review and Limited Site Investigation, Hughes Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park, California.* November 28.

Earth Tech. 1994. *Opinion Costs for removal of Asbestos Containing Marterials (ACMs) at 8433 Fallbrook, Building # 268, Canoga Park, California.* December 6.

California Regional Water Quality Control Board. 1994. *Waste discharge requirements for Hughes Missile Systems Company.* December 14.

Department of Toxic Substances Control. 1995. *Proposed Negative Declaration for Hughes Missile Systems, Canoga Park Facility Closure Plan.* January.

Department of Toxic Substances Control. 1995. *Areas of Concern for Hughes Missile Systems Group, Canoga Park Facility.* January 21.

Environmental Support Technologies, Inc. 1995. *Multi-Depth Soil Gas Survey Report, Former Hughes Missile Systems Facility, Canoga Park, California.* July 6.

Groundwater Technology, Inc. 1995. *Report on Soil Gas Surveying Former Hughes Missile Systems Company Site, Canoga Park, California.* August 1.

Environmental Support Technologies, Inc. 1995. *Phase 2 Soil Gas Survey Report, Former Hughes Missile Systems Facility, Canoga Park, California.* September 15.

Groundwater Resources Consultants, Inc. 1995. *Additional Soil Gas Surveying, Area 5, Former Hughes Missile Systems Facility, Canoga Park, California.* September 21.

Groundwater Resources Consultants, Inc. 1996. *Quarterly Groundwater Monitoring Report Fourth Quarter 1995, Hughes Missile Systems Company, Canoga Park, California.* January 10.

California Regional Water Quality Control Board. 1996. *Lead Agency Confirmation – Hughes Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park.* January 30.

Groundwater Technology, Inc. 1996. *Groundwater Monitoring Quarterly Report, January-March 1996, Hughes Missile Systems Company, Canoga Park, California.* March 27.

Department of Toxic Substances Control. 1996. *Negative Declaration Approval.* August 6.

Department of Toxic Substances Control. 1996. *Response to Comments on the Modified Closure Plan and The Proposed Negative Declaration for Hughes Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park, CA.* August 6.

Fluor Daniel GTI. 1996. *Request to Change Monitoring & Sampling Requirements for Waste Discharge Requirements Order No. 95-012, Hughes Missile Systems Company, Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California.* September 17.

Fluor Daniel GTI. 1997. *Operation and Maintenance Program, Former Hughes Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park.* February 25.

Coast Federal Bank. 1997. *Tract Map No. 7115.* June 20.

Allwest Geoscience, Inc. 1997. *Environmental Sampling and Testing Under Floor Slabs and Clarifiers, Former Hughes Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park, Los Angeles County, California.* June 27.

Fluor Daniel GTI. 1997. *Groundwater and Remediation System Monitoring Quarterly Report April-June 1997, Hughes Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park, California.* July 9.

Allwest Geoscience Inc. 1997. *Summary Review of Environmental Documents, Former Hughes Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park, California.* July 10.

Environmental Inc. 1997. *Regent Properties, Coast Federal Bank Facility, Buildings 262, 268, 269, 270, 272, and 282, Woodland Hills, Ca.* July.

Environmental Inc. 1997. *Asbestos Inspection report, Coast Federal Bank Facility, NWC Fallbrook Ave. and Roscoe Blvd. Buildings 262, 268, 269, 270, 272, and 282, West Hills, Ca.* August 6.

California Environmental Protection Agency. 1997. *Request to change Monitoring and Sampling Requirements for Waste Discharge Requirements Order No. 95-012, Hughes Missile Systems Company-8433 Fallbrook Avenue, Canoga Park.* August 21.

California Environmental Protection Agency. 1997. *Solid Waste Management Units, Areas of Concern, and Closure of Hazardous Waste Management Units, Hughes Missile Systems Company Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California.* November 14.

California Environmental Protection Agency. 1997. *Spills, Leaks, Investigations and Cleanup Oversight Cost Reimbursement Account —Former Hughes Missile Systems Company – 8433 Fallbrook Avenue, Canoga Park, CA.* December 19.

California Environmental Protection Agency. 1998. *Corrective Action (Solid Waste Management Units and Areas of Concern), Hughes Missile Systems Company, Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California.* January 9.

DTSC. 1998. *Hughes Missile System Company, Canoga Park, Summary Data.* February 6.

Fluor Daniel GTI. 1998. *Groundwater and Remediation System Monitoring October-December 1997 Quarterly Report and 1997 Annual Report, Raytheon Missile Systems Company Former Hughes Facility, 8433 Fallbrook Avenue, Canoga Park, California.* February 20.

Raytheon Systems Company. 1998. *Meeting Follow-up, and Transmittal of Hazardous Waste Storage Area Clean Closure Workplan and Additional Information Regarding Former Raytheon Missile Systems Company (formerly known as Hughes Missile Systems Company) Facility in Canoga Park, 8433 Fallbrook Avenue, California.* March 11.

Raytheon Systems Company. 1998. *Cost Reimbursement Account for Former Raytheon Missile Systems Company (RMSC, formerly known as Hughes Missile Systems Company) Canoga Park Facility; 8433 Fallbrook Avenue, Canoga Park, CA.* March 31.

J and H Environmental. 1998. *Regent Properties, Bldg. # 268, Coast Federal Bank Facility, West Hills CA. Asbestos Abatement Observation Report.* April .

Fluor Daniel GTI. 1998. *Quarterly Remediation System and Groundwater Monitoring Report, First Quarter (January-March) 1998, Former Raytheon Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park, California.* April 15.

Raytheon Systems Company. 1998. *Abandonment and Replacement of Groundwater Monitoring Well CM-11 Former Hughes Missile Systems Company Facility, 8433 Fallbrook, Canoga Park, California.* April 28.

Raytheon Systems Company. 1998. *Request for Modification of the Waste Discharge Requirements Permit for the Groundwater Remediation System at the Former Hughes Missile Systems Company (HMSC) Site Located in, Canoga Park, California.* May 8.

Fluor Daniel GTI. 1998. *April 1998 Status Summary for the Groundwater Recovery and Soil Vapor Extraction/Air Sparge Systems, Former Hughes Missile Systems Company Site, 8433 Fallbrook Avenue, Canoga Park, California.* May 15.

Department of Toxic Substances Control. 1998. *Post-Closure Permit Application Requirement: Raytheon (Formerly Hughes) Missile Systems Company, Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* May 19.

Raytheon Systems Company. 1998. *Response to DTSC Letter of 19 May 1998 Requiring Post-Closure Permit Application for Raytheon Missile Systems Company, Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* June 12.

California Environmental Protection Agency. 1998. *Resource Conservation and Recovery Act (RCRA) Closure/Post-Closure and Corrective Action at the Raytheon (Formerly Hughes) Missile Systems Company Former Canoga Park Facility, 8433 Fallbrook Ave., Canoga Park, CA.* June 18.

California Environmental Protection Agency. 1998. *Conditional Approval of A Class I Permit Modification-Ownership and Facility Name Change At Hughes Aircraft Company, Electro-Optical Systems (Hughes-EOS) Hazardous Waste Storage Facility.* June 30.

California Regional Water Quality Control Board. 1998. *Abandonment and Replacement of Groundwater Monitoring Well CM-11, Former Hughes Missile Systems Company Facility, 8433 Fallbrook, Canoga Park, California.* July 2.

Raytheon Systems Company. 1998. *Response to DTSC Comments on Hazardous Waste Storage Area Closure Workplan; Raytheon (Formerly Hughes) Missile Systems Company.* July 2.

Raytheon Systems Company. 1998. *Follow-on Sampling and Analysis Plan for the Hazardous Waste Storage Area; Raytheon (Formerly Hughes) Missile Systems Company, Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* August 26.

Raytheon Systems Company. 1998. *Request for Modification of the Waste Discharge Requirements Permit for the Groundwater Remediation System at the Raytheon Missile Systems Company (RMSC) Site Located in Canoga Park, California.* August 27.

Fluor Daniel GTI. 1998. *Additional Site Assessment Report, Vicinity of CM-10 and Buildings 265, 274, and 276, Former Raytheon Missile Systems Company Facility, 8433 Fallbrook, Canoga Park, California.* September 2.

Fluor Daniel GTI. 1998. *Additional Site Assessment Report Sampling and Analysis for Vicinity of CM-10 and Parking Area adjacent to Buildings 265, 274, Former Raytheon Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park, California.* September 3.

Raytheon Systems Company. 1998. *Report of Additional Site Assessment in Vicinity of CM-10 and Parking Area Adjacent to Buildings 265, 274, and 276 at Raytheon Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California.* September 8.

Raytheon Systems Company. 1998. *Follow-on Sampling and Analysis Plan for the Hazardous Waste Storage Area; Raytheon (Formerly Hughes) Missile Systems Company, Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* September 14.

Errol L. Montgomery & Associates, Inc. 1998. *Plan for Modification of Remediation Systmes Former Hughes Missile Systems Company Facility, 8433 Fallbrook Avenue, Canoga Park, California.* September 16.

Raytheon Systems Company. 1998. *Modification of Remediation System at former Hughes Missile Systems Company Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* September 18.

Upper Los Angeles River Area Watermaster. 1998. *Modification to the Waste Discharge Requirement (WDR) For the Groundwater Remediation System at the Hughes Missile Systems Company, Canoga Park, California.* September 23.

Fluor Daniel GTI. 1998. *Summary Report of Supplemental Sampling and Analysis Performed at the Locations of Former Buildings 269, 272, and 282, Former Raytheon Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park, California.* September 23.

Raytheon Systems Company. 1998. *Comments on Hazardous Waste Storage Area Follow-on Sampling and Analysis Workplan for Former Raytheon Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* September 28.

Raytheon Systems Company. 1998. *Summary Report of Supplemental Sampling and Analysis Performed at the Locations of Former Buildings 269, 272, 282; Raytheon Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California.* October 5.

Fluor Daniel GTI. 1998. *Quarterly Remediation System and Groundwater Monitoring Report, Third Quarter (July-September) 1998, Raytheon (Formerly Hughes) Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park.* October 15.

Fluor Daniel GTI. 1998. *Results of Fallow-on Sampling and Analysis, Conducted September 21, 1998, Hazardous Waste Storage Area.* October 30.

State Water Resources Control Board. 1998. *Rejection of Request for Addition of the Hughes Missile System Company Site to the SLIC Cost Recovery Program.* November 3.

Raytheon Systems Company. 1998. *Results of Follow-on Sampling and Analysis at Former Hazardous Waste Storage Area, September 21, 1998, Raytheon Missile Systems Company, Canoga Park, CA.* November 3.

Raytheon Systems Company. 1998. *Administrative Progress in Close-out of Raytheon Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California.* November 23.

Raytheon Systems Company. 1998. *DTSC Review of Hazardous Waste Storage Area Closure Workplan, Comments, and Responses; DTSC Letter dated 29 October 1998; Raytheon*

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California. November 23.

Raytheon Systems Company. 1998. *Redevelopment Activities at Canoga Park Site.* December 22.

Allwest Geoscience, Inc. 1999. *Smmary Review of Environmental Documents and Potential Environmental Impacts, Building A (Former Building 262), Wests Hills Corporate Village, 8501 Fallbrook Avenue, Canoga Park, California.* January 15.

Raytheon Systems Company. 1999. *Merger and Name Change for Raytheon Missile Systems Company; Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* January 18.

California Regional Water Quality Control Board. 1999. *Modification of Remediation System at Former Hughes Missile Systems Company Facility (FHMSC) – 8433 Fallbrook Avenue, Canoga Park.* January 20.

Department of Toxic Substances Control. 1999. *Redevelopment Activities: Raytheon (Formerly Hughes) Missile Systems Company, Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* January 21.

Raytheon Systems Company. 1999. *Response to Urgent Letter Regarding Redevelopment Activities at Raytheon Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* January 26.

Raytheon Systems Company. 1999. *Sampling and Analysis Plan for Follow-on Investigation, Former Building 269; Former Raytheon Systems Company Facility in Canoga Park, 8433 Fallbrook Avenue, California.* February 2.

IT Corporation. 1999. *Groundwater and Remediation System Monitoring 1998 Fourth Quarter Report October-December and 1998 Annual Summary, Raytheon Missile Systems Company Former Hughes Facility, 8433 Fallbrook Avenue, Canoga Park, California.* February 20.

Department of Toxic Substances Control. 1999. *Sampling and Analysis Plan for Follow-on VOC Investigation, Former Building 269 – Raytheon (Formerly Hughes Missile) Systems*

Company Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA. March 3.

Department of Toxic Substances Control. 1999. *Administrative Progress, Various Issues, Post-Closure Permit Application Requirement: Raytheon (Formerly Hughes Missile) Systems Company Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* March 12.

IT Corporation. 1999. *Confirmation of Extension Requestion for Submittal of Quarterly Groundwater and Remediaton System Monitoring Report Former Raytheon Systems Company Facility, 8433 Fallbrook Avenue, Canoga Park, California.* March 12.

Raytheon Systems Company. 1999. *Response to DTSC's Comments Regarding Alleged Data Gaps and Other Deficiencies in Investigative and Closure Activities at Raytheon Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park CA.* March 25.

IT Corporation. 1999. *Additional Site Assessment Report Sampling and Analysis for Former Building 269 Location, Former Raytheon Systems Company, Canoga Park, California.* April.

Raytheon Systems Company. 1999. *Additional Site Assessment Report; Sampling and Analysis for Former Building 269 Location, Raytheon Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park CA.* April 30.

IT Corporation. 1999. *Quarterly Remediation System and Groundwater Monitoring Report First Quarter (January-March 1999), Former Raytheon Systems Company Canoga Park, California.* May.

California Regional Water Quality Control Board. 1999. *Modification of Remediation System at Former Hughes Missile Systems Company Facility (FHMSC) – 8433 Fallbrook Avenue, Canoga Park.* June 11.

Department of Toxic Substances Control. 1999. *Hazardous Waste Storage Area Closure and Post-Closure Permit Application Requirement: Raytheon (Formerly Hughes Missile) Systems Company, Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* July 22.

IT Corporation. 1999. *Groundwater and Remediation System Monitoring 1999 Forth Quarter October-December and 1999 Annual Report*. August.

Raytheon Systems Company. 1999. *Groundwater Sampling for Hexavalent Chromium, Raytheon System Company, former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* August 17.

Raytheon Systems Company. 1999. *Hazardous Waste Storage Area Closure and Post-Closure Permit Application; Response to DTSC Letter dated 22 July 1999; Raytheon Systems Company former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* August 19.

IT Corporation. 1999. *Groundwater and Remediation System Monitoring 1999 Second Quarter, April through June and 1999 Semiannual Report, January though June. Raytheon Systems Company Former Hughes Facility -8433 Fallbrook Avenue, Canoga Park.* August 20.

Raytheon Systems Company. 1999. *Implementation of Plan for Modification of Remediation Systems Former Raytheon Systems Company Facility, 8433 Fallbrook Avenue, Canoga Park, California.* September 7.

Allwest Geoscience, Inc. 1999. *Planned Office Building D, West Hills Corporate Center, 8501 Fallbrook Avenue, Canoga Park, California.* September 13.

IT Corporation. 1999. *Quarterly Remediation System and Groundwater Monitoring Report Third Quarter (July-September 1999), Raytheon Company, Canoga Park, California.* October.

Allwest Geoscience, Inc. 1999. *Review of Environmental Documents and Environmental Health Concerns Planned Building D, West Hills Corporate Center, 8501 Fallbrook Avenue, Canoga Park, California.* October 20.

Raytheon Systems Company. 1999. *Allwest Sampling at Former Raytheon Canoga Park, Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* October 25.

Department of Toxic Substances Control. 1999. *West Hills Corporate Village (North Parcel Created from Former Hughes Missile Systems, Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California.* October 27.

J and H Environmental, Inc. 1999. *Emergency Asbestos Clean Up, Patch and Repair Report. Westhills Corporate Village, Building 8521.* November 6.

J and H Environmental, Inc. 1999. *Asbestos Inspection Report. West Hills Corporate Village, Buildings 8501 and 8531.* November 15.

IT Corporation. 1999. *Waste Discharge Requirements Renewal Application. Former, Raytheon System Company Facility, 8433 Fallbrook Avenue, Canoga Park, California.* December 2.

Raytheon Systems Company. 1999. *Delineation of Hexavalent Chromium in Groundwater in the Vicinity of the Former Hazardous Waste Storage Area, Raytheon Company, Former Facility (Raytheon), 8433 Fallbrook Avenue, Canoga Park, CA.* December 10.

Raytheon Systems Company. 1999. *Enclosed Data Maps Summarizing Sampling at Raytheon Former Canoga Park, Facility, 8433 Fallbrook Avenue, Canoga Park, California,* December 15.

Raytheon Systems Company. 1999. *Meeting to Resolve Issues Related to Close-Out of Environmental Concerns at Raytheon Former Canoga Park, Facility, 8433 Fallbrook Avenue, Canoga Park, California,* December 16.

Department of Toxic Substances Control. 2000. *Delineation of Hexavalent Chromium in Groundwater in the Vicinity of the Former Hazardous Waste Storage Area, Raytheon (Formerly Hughes Missile) Systems Company, Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* January 7.

Department of Toxic Substances Control. 2000. *DTSC Review of Corrective Action Investigation Submittals, Raytheon (Formerly Hughes Missile) Systems Company, Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* January 12.

Raytheon Systems Company. 2000. *Pilot Test for Treatment of Hexavalent Chromium Produced from well RW-15, Former Raytheon Facility, Canoga Park, CA.* March 20.

Department of Toxic Substances Control. 2000. *Review of Groundwater Investigation Workplan: Delineation of Hexavalent Chromium in Groundwater in the Vicinity of the Former Hazardous Waste Storage Area, and Groundwater Sampling and analysis plan, Raytheon System Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* April 14.

California Regional Water Quality Control Board. 2000. *Pilot Test for Treatment of Hexavalent Chromium Produced from Well RW-15; Former Hughes Missile System Company-8433 Fallbrook Avenue, Canoga Park.* April 20.

Department of Toxic Substances Control. 2000. *Review of Groundwater Investigation Workplan: Delineation of Hexavalent Chromium in Groundwater in the Vicinity of the Former Analysis Plan, Raytheon Systems Company, Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* May 8.

Raytheon Systems Company. 2000. *Revised Health and Safety Plan (HASP) for Environmental Activities at Raytheon Former Canoga Park Facility-8433 Fallbrook Avenue, Canoga Park, Ca.* May 31.

Allwest Geoscience. 2000. *Environmental Impacts West Hills Corporate Village, 8501 Fallbrook Avenue, Canoga Park, California.* June 14.

California Regional Water Quality Control Board. 2000. *Annual Estimation for Cost Recovery Program-Former Hughes (Raytheon) Missile Systems Company-8433 Fallbrook Avenue, Canoga Park.* June 22.

Raytheon Systems Company. 2000. *Hexavalent Chromium Attenuation Test at Former Raytheon Canoga Park Facility-8433 Fallbrook Avenue, Canoga Park.* June 29

TN& Associates, Inc. 2001. *Semiannual Groundwater Monitoring and Groundwater Remediation System Report January through June 2001.* September 12

TN& Associates, Inc. 2000. *Semiannual Groundwater Monitoring and Groundwater Remediation System Report January through June 2000.* September 15.

TN& Associates, Inc. 2001. *Annual Groundwater Monitoring and Groundwater Remediation System Report January through December 2000.* January 29.

California Regional Water Quality Control Board. 2001. *Site Cleanup Program-Groundwater Monitoring Well Maintenance and Protection Requirements, Former Hughes Missile Systems Company-8433 Fallbrook Avenue, Conoga Park.* October 22.

California Regional Water Quality Control Board. 2001. *Site Cleanup Program-Groundwater Monitoring Well Maintenance and Protection Requirements, Hughes Missile Compan-8433 Fallbrook Avenue, Conoga Park.* October 23.

EDR. 2001. Radius Map Data Base Report, Inquiry Number: 704883.3s, November 19.

EDR. 2001. "City Directory Abstract, Inquiry Number704883-6," November 19.

EDR. 2001. "Aerial Photography Print Service, Inquiry Number 704883-8, November 21.

EDR. 2001. "Topographic Map Report, Inquiry Number 704883-5, November 20.

Munger Map Book, California-Alaska Oil and Gas Fields, 2001.

Allen, Matkins Leck Gamble & Mallory, LLP. Letter to ENVIRON, dated February 12, 2002, to which are appended a undated map prepared by McLaren/Hart and a table entitled *"Past Chemical Use and Storage Practices at the Hughes Facility, Canoga Park, California."*

TN & A Associates, Inc.. 2002. *Results of Quarterly Groundwater Monitoring, Former Hazardous Waste Storage Area; Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California.* January 23, 2002.

APPENDIX A

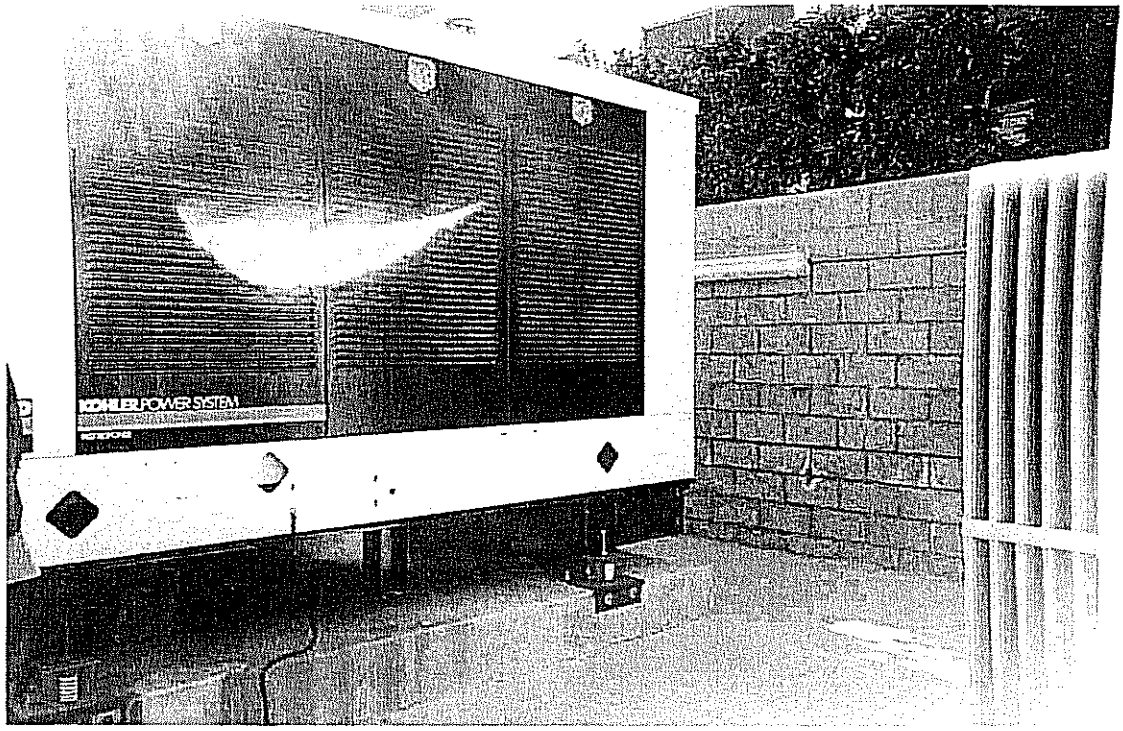
Property Photographs



Photograph #1: Building C and parking.



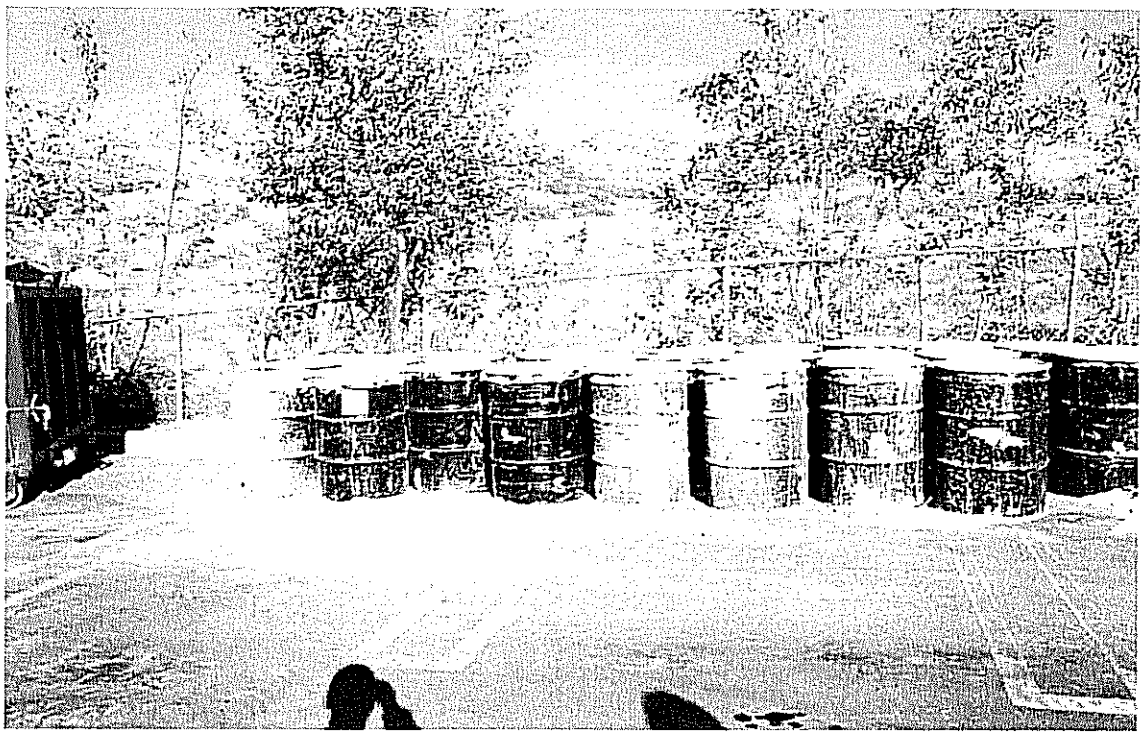
Photograph #2: Buildings B and D.



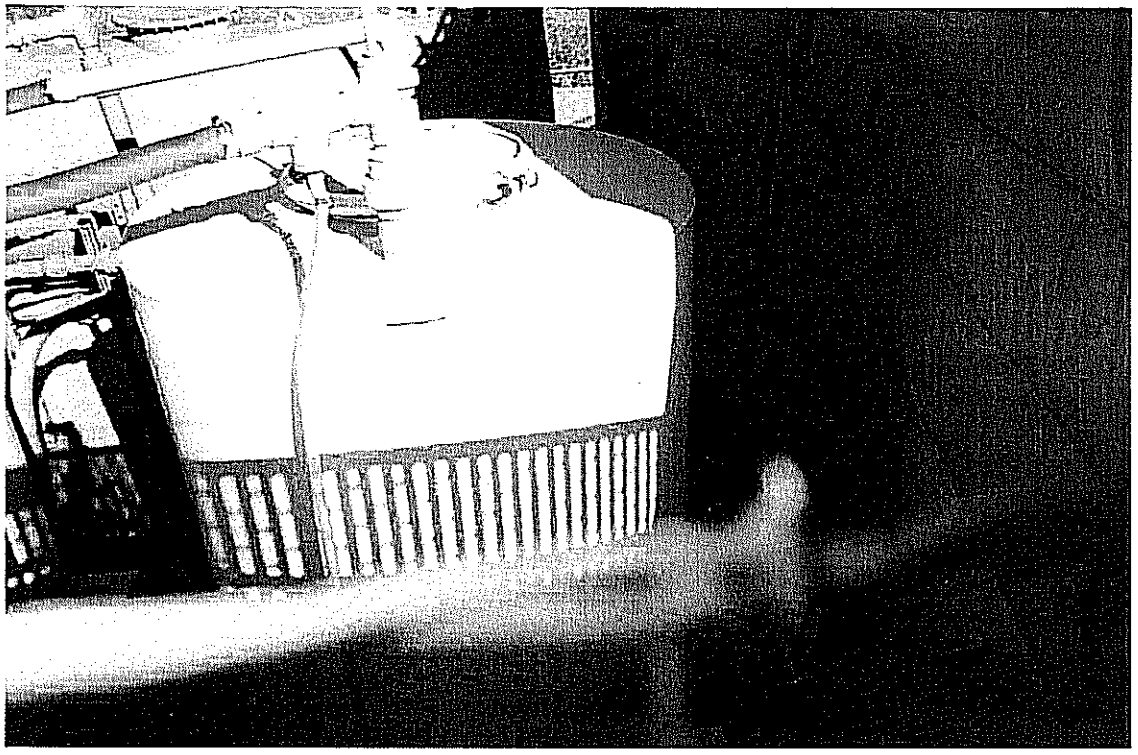
Photograph #3: Diesel emergency generator to east of Building D.



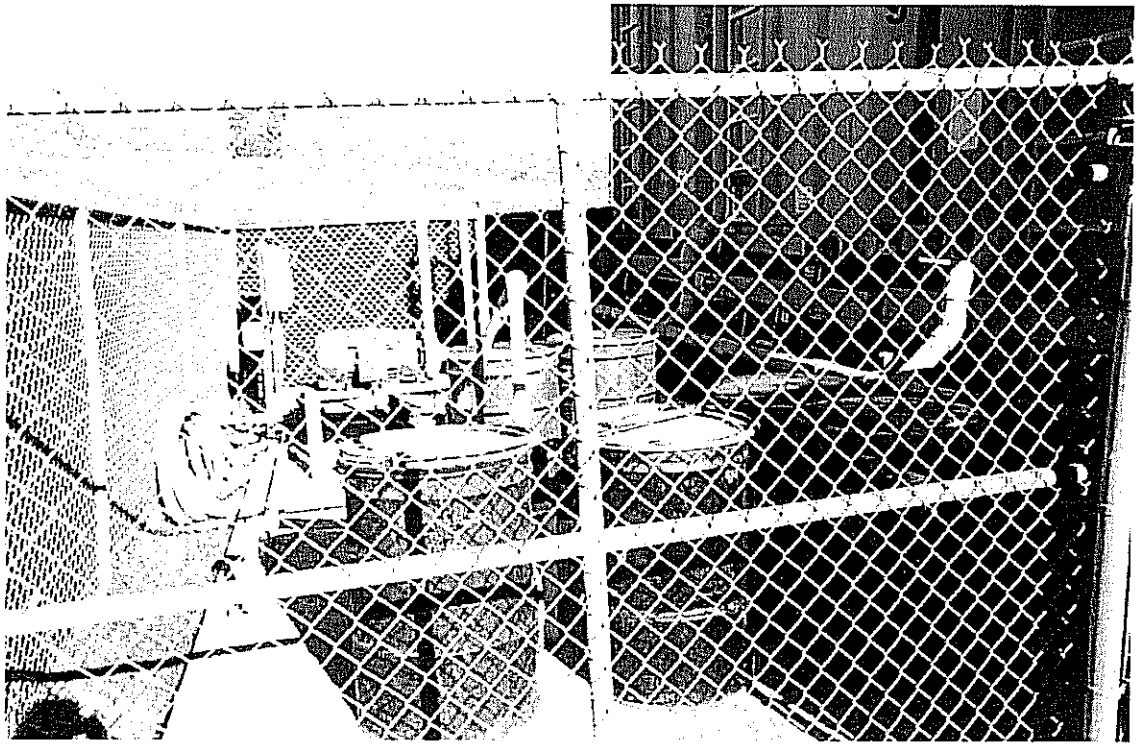
Photograph #4: New borings and roll-off bins at northwest area.



Photograph #5: Decon water drums at northwest part of site.



Photograph #6: Remediation systems.



Photograph #7: Water reclaim system for irrigation and purge water drums.



Photograph #8: Water storage for irrigation system.

APPENDIX B

EDR Report

The EDR Radius Map
with GeoCheck®

Parcel C
8501 Fallbrook Avenue
Canoga Park, CA 91304

Inquiry Number: 704883.3s

November 19, 2001

Environmental Data Resources, Inc.

The Source For Environmental Risk Management Data

3530 Post Road
Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

FORM-JM

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	6
Orphan Summary	22
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting Source Map	A-6
Physical Setting Source Map Findings	A-7
Physical Setting Source Records Searched	A-10

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-00. Search distances are per ASTM standard or custom distances requested by the user.

TARGET PROPERTY INFORMATION

ADDRESS

8501 FALLBROOK AVENUE
CANOGA PARK, CA 91304

COORDINATES

Latitude (North):	34.220100 - 34° 13' 12.4"
Longitude (West):	118.624000 - 118° 37' 26.4"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	350404.2
UTM Y (Meters):	3787558.0

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:	2434118-B5 CANOGA PARK, CA
Source:	USGS 7.5 min quad index

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the ASTM E 1527-00 search radius around the target property for the following databases:

FEDERAL ASTM STANDARD

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
ERNS..... Emergency Response Notification System

STATE ASTM STANDARD

AWP..... Annual Workplan Sites
CHMIRS..... California Hazardous Material Incident Report System
Notify 65..... Proposition 65 Records
Toxic Pits..... Toxic Pits Cleanup Act Sites
SWF/LF..... Solid Waste Information System
WMUDS/SWAT..... Waste Management Unit Database
CA BOND EXP. PLAN..... Bond Expenditure Plan
UST..... List of Underground Storage Tank Facilities

FEDERAL ASTM SUPPLEMENTAL

CONSENT..... Superfund (CERCLA) Consent Decrees

EXECUTIVE SUMMARY

ROD..... Records Of Decision
Delisted NPL..... National Priority List Deletions
FINDS..... Facility Index System/Facility Identification Initiative Program Summary Report
HMIRS..... Hazardous Materials Information Reporting System
MLTS..... Material Licensing Tracking System
MINES..... Mines Master Index File
NPL Liens..... Federal Superfund Liens
PADS..... PCB Activity Database System
RAATS..... RCRA Administrative Action Tracking System
TRIS..... Toxic Chemical Release Inventory System
TSCA..... Toxic Substances Control Act
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

STATE OR LOCAL ASTM SUPPLEMENTAL

AST..... Aboveground Petroleum Storage Tank Facilities
CLEANERS..... Drycleaner Facilities
CA WDS..... Waste Discharge System
CA SLIC..... Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
LOS ANGELES CO. HMS.... HMS: Street Number List
LA Co. Site Mitigation..... Site Mitigation List
AOCONCERN..... San Gabriel Valley Areas of Concern

EDR PROPRIETARY DATABASES

Coal Gas..... Former Manufactured Gas (Coal Gas) Sites

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS 1 degree Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. EDR's definition of a site with an elevation equal to the target property includes a tolerance of +/- 10 feet. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property (by more than 10 feet). Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

FEDERAL ASTM STANDARD

CERCLIS-NFRAP: As of February 1995. CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund Action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to

promote economic redevelopment of unproductive urban sites.

A review of the CERC-NFRAP list, as provided by EDR, and dated 07/12/2001 has revealed that there is 1 CERC-NFRAP site within approximately 0.375 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
HUGHES AIRCRAFT COMPANY	*8433 FALLBROOK AVENUE*	*1/4 - 1/2N*	*B6*	*13*

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 09/20/2001 has revealed that there is 1 CORRACTS site within approximately 1.125 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
HUGHES AIRCRAFT COMPANY	*8433 FALLBROOK AVENUE*	*1/4 - 1/2N*	*B6*	*13*

RCRIS: The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-TSD list, as provided by EDR, and dated 06/21/2000 has revealed that there is 1 RCRIS-TSD site within approximately 0.625 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
HUGHES AIRCRAFT COMPANY	*8433 FALLBROOK AVENUE*	*1/4 - 1/2N*	*B6*	*13*

RCRIS: The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-LQG list, as provided by EDR, and dated 06/21/2000 has revealed that there is 1 RCRIS-LQG site within approximately 0.375 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
HUGHES AIRCRAFT COMPANY	*8433 FALLBROOK AVENUE*	*1/4 - 1/2N*	*B6*	*13*

RCRIS: The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-SQG list, as provided by EDR, and dated 06/21/2000 has revealed that there are 2 RCRIS-SQG sites within approximately 0.375 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
LAKEVIEW CLEANERS	*22736 ROSCOE BLVD*	*1/8 - 1/4ESE*	*1*	*6*
LA FIRE STATION 106	*23004 ROSCOE BLVD*	*1/8 - 1/4WSW*	*A4*	*9*

EXECUTIVE SUMMARY

STATE ASTM STANDARD

CAL-SITES: Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control.

A review of the Cal-Sites list, as provided by EDR, has revealed that there are 2 Cal-Sites sites within approximately 1.125 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
HUGHES AIRCRAFT COMPANY	*8433 FALLBROOK AVENUE*	*1/4 - 1/2 N*	*B6*	*13*
Lower Elevation	**Address**	**Dist / Dir**	**Map ID**	**Page**
WEST VALLEY HOSPITAL AND HEALT	*22141 ROSCOE BLVD*	*1/2 - 1 E*	*9*	*18*

CORTESE: This database identifies public drinking water wells with detectable levels of contamination, hazardous substance sites selected for remedial action, sites with known toxic material identified through the abandoned site assessment program, sites with USTs having a reportable release and all solid waste disposal facilities from which there is known migration. The source is the California Environmental Protection Agency/Office of Emergency Information.

A review of the Cortese list, as provided by EDR, has revealed that there are 3 Cortese sites within approximately 1.125 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
HUGHES AIRCRAFT COMPANY	*8433 FALLBROOK AVENUE*	*1/4 - 1/2 N*	*B6*	*13*
CHEVRON #9-3113	*7607 WOODLAKE*	*1/2 - 1 SSW*	*10*	*19*
Lower Elevation	**Address**	**Dist / Dir**	**Map ID**	**Page**
ARCO	*21935 ROSCOE*	*1 - 2 E*	*11*	*19*

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 08/07/2001 has revealed that there are 2 LUST sites within approximately 0.625 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
LA CITY FIRE STATION #106	23004 ROSCOE BLVD	1/8 - 1/4 WSW	A3	8
HUGHES AIRCRAFT COMPANY	*8433 FALLBROOK AVENUE*	*1/4 - 1/2 N*	*B6*	*13*

CA FID: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, has revealed that there are 2 CA FID UST sites within approximately 0.375 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
FIRE STATION 106	23004 ROSCOE BLVD	1/8 - 1/4 WSW	A2	7

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
HUGHES AIRCRAFT COMPANY	8433 FALLBROOK AVE	1/4 - 1/2 N	B7	17

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 2 HIST UST sites within approximately 0.375 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
MISSILE SYSTEMS GROUP	8433 FALLBROOK AVE	1/4 - 1/2 N	B5	11
MISSLE SYSTEMS GROUP	8433 FALLBROOK AVE	1/4 - 1/2 N	B8	17

STATE OR LOCAL ASTM SUPPLEMENTAL

HAZNET: The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000-1,000,000 annually, representing approximately 350,000-500,000 shipments. Data from non-California manifests & continuation sheets are not included at the present time. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, & disposal method. The source is the Department of Toxic Substance Control is the agency

A review of the HAZNET list, as provided by EDR, has revealed that there are 2 HAZNET sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
LAKEVIEW CLEANERS	*22736 ROSCOE BLVD*	*1/8 - 1/4 ESE*	*1*	*6*
LA FIRE STATION 106	*23004 ROSCOE BLVD*	*1/8 - 1/4 WSW*	*A4*	*9*

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
USNASA BOEING SSFL AREA I I	PADS, CERCLIS, FINDS, RCRIS-LQG, RCRIS-TSD, CORRACTS, CERC-NFRAP
THE BOEING CO SSFL AREA I AND I I I	FINDS, RCRIS-LQG, RCRIS-TSD, CORRACTS, CERC-NFRAP
LLANO ILLEGAL DISPOSAL SITE	SWF/LF
CHATSWORTH RESERVOIR	HIST UST
FIRE STATION 106	HIST UST
JOE'S AUTO CARE	HAZNET
WESTSIDE VALLEY AUTO BODY	HAZNET
SIR SPEEDY PRINTING CENTER	HAZNET

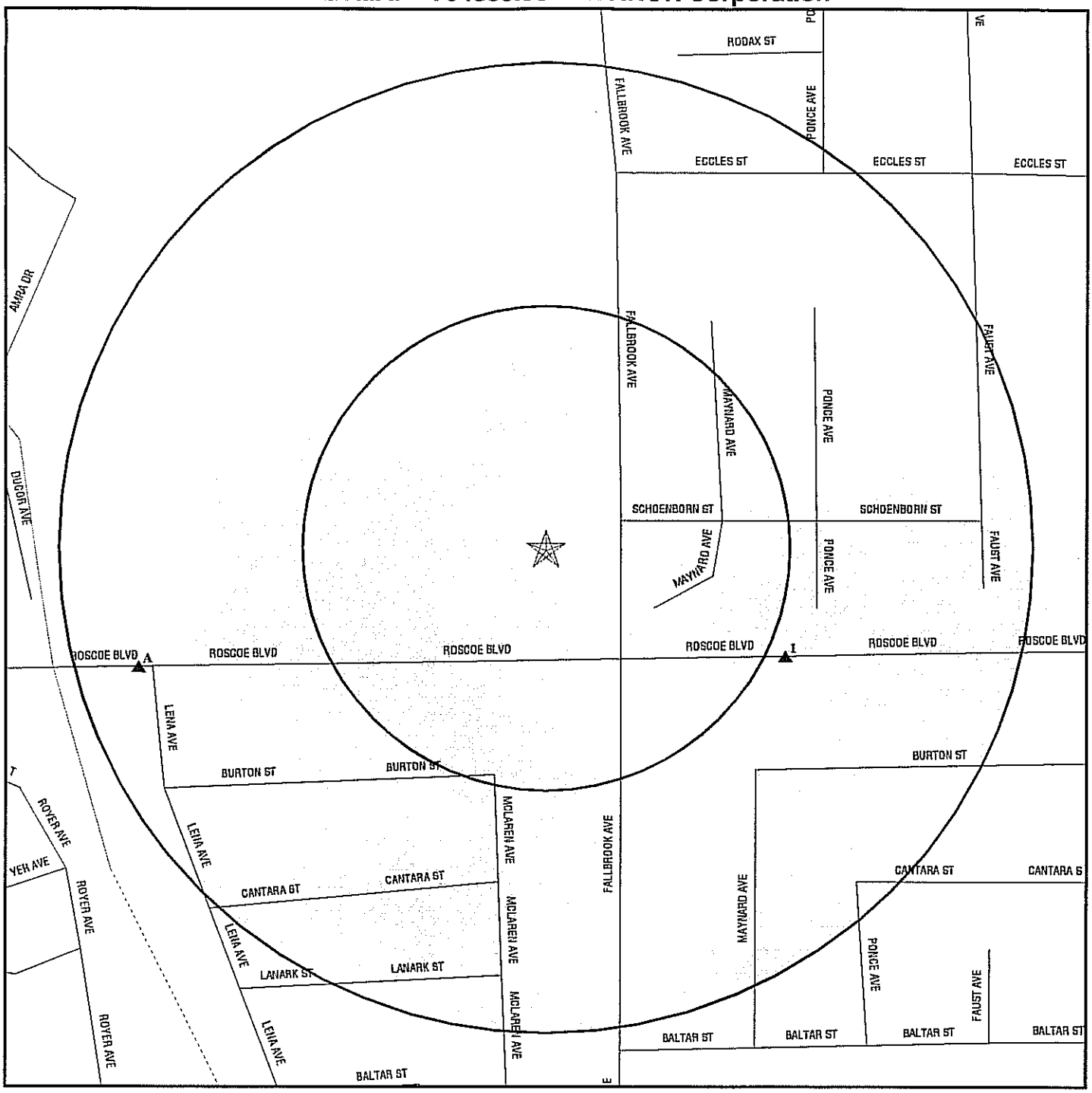
OVERVIEW MAP - 704883.3s - ENVIRON Corporation



- ☆ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites (if requested)
- National Priority List Sites
- Landfill Sites
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- Wetlands
- Areas of Concern

TARGET PROPERTY:	Parcel C	CUSTOMER:	ENVIRON Corporation
ADDRESS:	8501 Fallbrook Avenue	CONTACT:	D. Scanlon
CITY/STATE/ZIP:	Canoga Park CA 91304	INQUIRY #:	704883.3s
LAT/LONG:	34.2201 / 118.6240	DATE:	November 19, 2001 2:51 pm

DETAIL MAP - 704883.3s - ENVIRON Corporation



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Coal Gasification Sites (if requested)
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- Areas of Concern

TARGET PROPERTY:	Parcel C	CUSTOMER:	ENVIRON Corporation
ADDRESS:	8501 Fallbrook Avenue	CONTACT:	D. Scanlon
CITY/STATE/ZIP:	Canoga Park CA 91304	INQUIRY #:	704883.3s
LAT/LONG:	34.2201 / 118.6240	DATE:	November 19, 2001 2:51 pm

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FEDERAL ASTM STANDARD								
NPL		1.125	0	0	0	0	0	0
Proposed NPL		1.125	0	0	0	0	0	0
CERCLIS		0.625	0	0	0	0	NR	0
CERC-NFRAP		0.375	0	0	1	NR	NR	1
CORRACTS		1.125	0	0	1	0	0	1
RCRIS-TSD		0.625	0	0	1	0	NR	1
RCRIS Lg. Quan. Gen.		0.375	0	0	1	NR	NR	1
RCRIS Sm. Quan. Gen.		0.375	0	2	0	NR	NR	2
ERNS		0.125	0	NR	NR	NR	NR	0
STATE ASTM STANDARD								
AWP		1.125	0	0	0	0	0	0
Cal-Sites		1.125	0	0	1	1	0	2
CHMIRS		1.125	0	0	0	0	0	0
Cortese		1.125	0	0	1	1	1	3
Notify 65		1.125	0	0	0	0	0	0
Toxic Pits		1.125	0	0	0	0	0	0
State Landfill		0.625	0	0	0	0	NR	0
WMUDS/SWAT		0.625	0	0	0	0	NR	0
LUST		0.625	0	1	1	0	NR	2
CA Bond Exp. Plan		1.125	0	0	0	0	0	0
UST		0.375	0	0	0	NR	NR	0
CA FID UST		0.375	0	1	1	NR	NR	2
HIST UST		0.375	0	0	2	NR	NR	2
FEDERAL ASTM SUPPLEMENTAL								
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
STATE OR LOCAL ASTM SUPPLEMENTAL								
AST		TP	NR	NR	NR	NR	NR	0
CLEANERS		0.250	0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA WDS		TP	NR	NR	NR	NR	NR	0
CA SLIC		0.500	0	0	0	NR	NR	0
HAZNET		0.250	0	2	NR	NR	NR	2
Los Angeles Co. HMS		TP	NR	NR	NR	NR	NR	0
LA Co. Site Mitigation		TP	NR	NR	NR	NR	NR	0
AOCONCERN		1.000	0	0	0	0	NR	0
EDR PROPRIETARY DATABASES								
Coal Gas		1.000	0	0	0	0	NR	0

AQUIFLOW - see EDR Physical Setting Source Addendum

TP = Target Property

NR = Not Requested at this Search Distance

* Sites may be listed in more than one database

Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.

1
ESE
1/8-1/4
713
Higher

LAKEVIEW CLEANERS
22736 ROSCOE BLVD
CANOGA PARK, CA 91304

RCRIS-SQG **1000224867**
FINDS **CAD981639297**
HAZNET

RCRIS:
Owner: CHOI SOO DONG
(415) 555-1212

Contact: ENVIRONMENTAL MANAGER
(213) 348-1013

Record Date: 09/01/1996
Classification: Small Quantity Generator
Used Oil Recyc: No

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Facility Registry System (FRS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:
Gepaid: CAD981639297
Tepaid: CAT000613992
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0600
Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 22736 ROSCOE BLVD
CANOGA PARK, CA 91304
County Los Angeles

Gepaid: CAD981639297
Tepaid: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1400
Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 22736 ROSCOE BLVD
CANOGA PARK, CA 91304
County Los Angeles

LAKEVIEW CLEANERS (Continued) **1000224867**

Gepaid:	CAD981639297
Tepaid:	CAT000613992
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.1400
Category:	Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method:	Transfer Station
Contact:	Not reported
Telephone:	(000) 000-0000
Mailing Address:	22736 ROSCOE BLVD CANOGA PARK, CA 91304
County	Los Angeles

Gepaid:	CAD981639297
Tepaid:	CAD981397417
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.5381
Category:	Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
Disposal Method:	Recycler
Contact:	Not reported
Telephone:	(000) 000-0000
Mailing Address:	22736 ROSCOE BLVD CANOGA PARK, CA 91304
County	Los Angeles

Gepaid:	CAD981639297
Tepaid:	CAD981397417
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.0000
Category:	
Disposal Method:	Recycler
Contact:	Not reported
Telephone:	(000) 000-0000
Mailing Address:	22736 ROSCOE BLVD CANOGA PARK, CA 91304
County	Los Angeles

The CA HAZNET database contains 4 additional records for this site.
Please contact your EDR Account Executive for more information.

A2 **FIRE STATION 106** **CA FID UST** **S101585525**
WSW **23004 ROSCOE BLVD** **N/A**
1/8-1/4 **CANOGA PARK, CA 91304**
1148
Higher **Site 1 of 3 in cluster A**

FIRE STATION 106 (Continued) **S101585525**

FID:

Facility ID:	19024479	Regulate ID:	Not reported
Reg By:	Active Underground Storage Tank Location		
Cortese Code:	Not reported	SIC Code:	Not reported
Status:	Active	Facility Tel:	(213) 485-5846
Mail To:	Not reported 200 MAIN ST CANOGA PARK, CA 91304		
Contact:	Not reported	Contact Tel:	Not reported
DUNs No:	Not reported	NPDES No:	Not reported
Creation:	10/22/93	Modified:	00/00/00
EPA ID:	Not reported		
Comments:	Not reported		

A3 **LA CITY FIRE STATION #106** **LUST** **S104773279**
WSW **23004 ROSCOE BLVD** **N/A**
1/8-1/4 **CANOGA PARK, CA 91304**
1148
Higher **Site 2 of 3 in cluster A**

State LUST:

Cross Street:	Not reported		
Qty Leaked:	Not reported		
Case Number	913040670		
Reg Board:	Los Angeles Region		
Chemical:	1		
Lead Agency:	Local Agency		
Local Agency :	19050		
Case Type:	Soil only		
Status:	No leak action taken by responsible party after initial report of leak		
County:	Los Angeles		
Review Date:	Not reported	Confirm Leak:	Not reported
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported	Monitoring:	Not reported
Close Date:	Not reported		
Release Date:	10/07/1999		
Cleanup Fund Id :	Not reported		
Discover Date :	08/16/1999		
Enforcement Dt :	Not reported		
Enf Type:	Not reported		
Enter Date :	/ /		
Funding:	Not reported		
Staff Initials:	UNK		
How Discovered:	Repair Tank		
How Stopped:	Close Tank		
Interim :	Not reported		
Lat/Lon :	Not reported		
Leak Cause:	Unknown		
Leak Source:	Unknown		
Local Case # :	Not reported		
Beneficial:	Not reported		
Staff :	UNK		
MTBE Date :	Not reported		
MTBE Tested :	NRQ		
Max MTBE GW :	Not reported		
GW Qualifies :	Not reported		
Max MTBE Soil :	Not reported		

LA CITY FIRE STATION #106 (Continued) **S104773279**

Soil Qualifies : Not reported
Hydr Basin #: Not reported
Operator : CITY OF LA FIRE DEPT.
Oversight Prgm : LIA
Priority : Not reported
Review Date : 10/07/1999
Stop Date : Not reported
Office : Not reported
Work Suspended :Not reported
Responsible PartyCTIY OF LOS ANGELES
RP Address: 419 S. SPRING ST., 12TH FL., LOS ANGELES CA 90013
Global Id: T0603793051
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: 0
Mtbe Fuel: 0
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: Not reported
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported
Mtbe Class: Not reported
Summary: Not reported

LUST Region 4:
Report Date: 10/7/1999
Lead Agency: Local Agency
Local Agency: 19050
Case Number: 913040670
Substance: 1
Case Type: Soil
Status: Leak being confirmed
Region: 4
Staff: Not reported

A4 **LA FIRE STATION 106** **RCRIS-SQG 1000229490**
WSW **23004 ROSCOE BLVD** **FINDS CAD981964208**
1/8-1/4 **CANOGA PARK, CA 90012** **HAZNET**
1148
Higher **Site 3 of 3 in cluster A**

RCRIS:
Owner: CITY OF LOS ANGELES
(415) 555-1212

Contact: ENVIRONMENTAL MANAGER
(213) 485-7527

Record Date: 03/09/1987
Classification: Small Quantity Generator
Used Oil Recyc: No

Violation Status: No violations found

LA FIRE STATION 106 (Continued) **1000229490**

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:

Gepaid:	CAD981964208
Tepaid:	CAD099452708
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.1251
Category:	Unspecified aqueous solution
Disposal Method:	Recycler
Contact:	DEPT OF GENERAL SERVICES
Telephone:	(213) 485-5846
Mailing Address:	111 E 1ST STREET RM 709
	LOS ANGELES, CA 90012
County	Los Angeles

Gepaid:	CAD981964208
Tepaid:	CAT080011059
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.0625
Category:	Unspecified oil-containing waste
Disposal Method:	Recycler
Contact:	DEPT OF GENERAL SERVICES
Telephone:	(213) 485-5846
Mailing Address:	111 E 1ST STREET RM 709
	LOS ANGELES, CA 90012
County	Los Angeles

Gepaid:	CAD981964208
Tepaid:	CAD009007626
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.1685
Category:	Asbestos-containing waste
Disposal Method:	Disposal, Land Fill
Contact:	DEPT OF GENERAL SERVICES
Telephone:	(213) 485-5846
Mailing Address:	111 E 1ST STREET RM 709
	LOS ANGELES, CA 90012
County	Los Angeles

Gepaid:	CAD981964208
Tepaid:	CAD028409019
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.417
Category:	Tank bottom waste
Disposal Method:	Treatment, Tank
Contact:	DEPT OF GENERAL SERVICES
Telephone:	(213) 485-5846
Mailing Address:	111 E 1ST STREET RM 709
	LOS ANGELES, CA 90012
County	Los Angeles

B5 **MISSILE SYSTEMS GROUP** **HIST UST** **U001567141**
North **8433 FALLBROOK AVE** **N/A**
1/4-1/2 **CANOGA PARK, CA 91304**
1570
Higher **Site 1 of 4 in cluster B**

UST HIST:

Facility ID:	35465		
Tank Num:	1	Container Num:	T-1
Tank Capacity:	12000	Year Installed:	1974
Tank Used for:	PRODUCT		
Type of Fuel:	UNLEADED	Tank Construction:	1/4 inches
Leak Detection:	Stock Inventor		
Contact Name:	ROSS A. MOORE	Telephone:	(818) 702-1035
Total Tanks:	14	Region:	STATE
Facility Type:	2	Other Type:	MISSILE RESEARCH AND

Facility ID:	35465		
Tank Num:	2	Container Num:	T-2
Tank Capacity:	10000	Year Installed:	1975
Tank Used for:	PRODUCT		
Type of Fuel:	REGULAR	Tank Construction:	1/4 inches
Leak Detection:	Stock Inventor		
Contact Name:	ROSS A. MOORE	Telephone:	(818) 702-1035
Total Tanks:	14	Region:	STATE
Facility Type:	2	Other Type:	MISSILE RESEARCH AND

Facility ID:	35465		
Tank Num:	3	Container Num:	T-3
Tank Capacity:	4000	Year Installed:	1979
Tank Used for:	WASTE		
Type of Fuel:	Not Reported	Tank Construction:	1/4 inches
Leak Detection:	None		
Contact Name:	ROSS A. MOORE	Telephone:	(818) 702-1035
Total Tanks:	14	Region:	STATE
Facility Type:	2	Other Type:	MISSILE RESEARCH AND

Facility ID:	35465		
Tank Num:	4	Container Num:	T-5
Tank Capacity:	500	Year Installed:	1959
Tank Used for:	Not Reported		
Type of Fuel:	Not Reported	Tank Construction:	3/16 unknown
Leak Detection:	Visual		
Contact Name:	ROSS A. MOORE	Telephone:	(818) 702-1035
Total Tanks:	14	Region:	STATE
Facility Type:	2	Other Type:	MISSILE RESEARCH AND

Facility ID:	35465		
Tank Num:	5	Container Num:	T-6 (ABAND
Tank Capacity:	500	Year Installed:	1959
Tank Used for:	Not Reported		
Type of Fuel:	Not Reported	Tank Construction:	3/16 inches
Leak Detection:	Visual		
Contact Name:	ROSS A. MOORE	Telephone:	(818) 702-1035
Total Tanks:	14	Region:	STATE
Facility Type:	2	Other Type:	MISSILE RESEARCH AND

Facility ID:	35465		
Tank Num:	6	Container Num:	T-7

MISSILE SYSTEMS GROUP (Continued) **U001567141**

Tank Capacity: 12000
Tank Used for: PRODUCT
Type of Fuel: Not Reported
Leak Detection: Stock Inventor
Contact Name: ROSS A. MOORE
Total Tanks: 14
Facility Type: 2
Year Installed: 1979
Tank Construction: 1/4 inches
Telephone: (818) 702-1035
Region: STATE
Other Type: MISSILE RESEARCH AND

Facility ID: 35465
Tank Num: 7
Tank Capacity: 12000
Tank Used for: PRODUCT
Type of Fuel: Not Reported
Leak Detection: Stock Inventor
Contact Name: ROSS A. MOORE
Total Tanks: 14
Facility Type: 2
Container Num: T-8
Year Installed: 1979
Tank Construction: 1/4 inches
Telephone: (818) 702-1035
Region: STATE
Other Type: MISSILE RESEARCH AND

Facility ID: 35465
Tank Num: 8
Tank Capacity: 12000
Tank Used for: PRODUCT
Type of Fuel: Not Reported
Leak Detection: Stock Inventor
Contact Name: ROSS A. MOORE
Total Tanks: 14
Facility Type: 2
Container Num: T-9
Year Installed: 1979
Tank Construction: 1/4 inches
Telephone: (818) 702-1035
Region: STATE
Other Type: MISSILE RESEARCH AND

Facility ID: 35465
Tank Num: 9
Tank Capacity: 10000
Tank Used for: PRODUCT
Type of Fuel: Not Reported
Leak Detection: None
Contact Name: ROSS A. MOORE
Total Tanks: 14
Facility Type: 2
Container Num: T-10
Year Installed: 1959
Tank Construction: 5/16 inches
Telephone: (818) 702-1035
Region: STATE
Other Type: MISSILE RESEARCH AND

Facility ID: 35465
Tank Num: 10
Tank Capacity: 85
Tank Used for: WASTE
Type of Fuel: Not Reported
Leak Detection: None
Contact Name: ROSS A. MOORE
Total Tanks: 14
Facility Type: 2
Container Num: T-12
Year Installed: 1980
Tank Construction: 1/4 inches
Telephone: (818) 702-1035
Region: STATE
Other Type: MISSILE RESEARCH AND

Facility ID: 35465
Tank Num: 11
Tank Capacity: 10000
Tank Used for: PRODUCT
Type of Fuel: Not Reported
Leak Detection: Stock Inventor
Contact Name: ROSS A. MOORE
Total Tanks: 14
Facility Type: 2
Container Num: T-13
Year Installed: 1977
Tank Construction: 1/4 inches
Telephone: (818) 702-1035
Region: STATE
Other Type: MISSILE RESEARCH AND

MISSILE SYSTEMS GROUP (Continued) **U001567141**

Facility ID:	35465		
Tank Num:	12	Container Num:	T-17
Tank Capacity:	40	Year Installed:	1971
Tank Used for:	PRODUCT		
Type of Fuel:	Not Reported	Tank Construction:	Not reported
Leak Detection:	Visual		
Contact Name:	ROSS A. MOORE	Telephone:	(818) 702-1035
Total Tanks:	14	Region:	STATE
Facility Type:	2	Other Type:	MISSILE RESEARCH AND

Facility ID:	35465		
Tank Num:	13	Container Num:	PIT #1
Tank Capacity:	1687	Year Installed:	1981
Tank Used for:	WASTE		
Type of Fuel:	Not Reported	Tank Construction:	6 inches
Leak Detection:	None		
Contact Name:	ROSS A. MOORE	Telephone:	(818) 702-1035
Total Tanks:	14	Region:	STATE
Facility Type:	2	Other Type:	MISSILE RESEARCH AND

Facility ID:	35465		
Tank Num:	14	Container Num:	T-4
Tank Capacity:	135000	Year Installed:	1959
Tank Used for:	Not Reported		
Type of Fuel:	Not Reported	Tank Construction:	16 inches
Leak Detection:	None		
Contact Name:	ROSS A. MOORE	Telephone:	(818) 702-1035
Total Tanks:	14	Region:	STATE
Facility Type:	2	Other Type:	MISSILE RESEARCH AND

B6
North
1/4-1/2
1570
Higher

HUGHES AIRCRAFT COMPANY
8433 FALLBROOK AVENUE
CANOGA PARK, CA 91304

Site 2 of 4 in cluster B

FINDS **1000240986**
RCRIS-LQG **CAD041162124**
RCRIS-TSD
CORRACTS
CERC-NFRAP
Cal-Sites
Cortese
LUST

CERCLIS-NFRAP Classification Data:

Site Incident Category:	Not reported	Federal Facility:	Not a Federal Facility
Non NPL Code:	DR		
Ownership Status:	Private	NPL Status:	Not on the NPL

CERCLIS-NFRAP Assessment History:

Assessment:	DISCOVERY	Completed:	04/01/1991
Assessment:	PRELIMINARY ASSESSMENT	Completed:	08/09/1991

CORRACTS Data:

EPA Id:	CAD041162124
Region:	9
State:	CA
Area Name:	ENTIRE FACILITY
Original Scheduled Date:	Not reported
New Scheduled Date:	Not reported
Actual Date:	07/29/1991
Corrective Action:	CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

EPA Id: CAD041162124
Region: 9
State: CA
Area Name: ENTIRE FACILITY
Original Scheduled Date: Not reported
New Scheduled Date: Not reported
Actual Date: 07/29/1991
Corrective Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority

RCRIS:
Owner: HUGHES AIRCRAFT COMPANY
(213) 702-1000

Contact: ENVIRONMENTAL MANAGER
(213) 702-2102

Record Date: 09/01/1996
Classification: Large Quantity Generator
Used Oil Recyc: No

Violation Status: Violations exist

Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 08/23/1994
Priority of Violation: Low
Schedule Date to Achieve Compliance: 09/23/1994
Actual Date Achieved Compliance: 09/22/1994

Enforcement Action: Initial Formal 3008(a) Compliance Order
Enforcement Action Date: 08/23/1994
Proposed Monetary Penalty: $ 500.00
Final Monetary Penalty: $ 500.00

Regulation Violated: Not reported
Area of Violation: TSD-Financial Responsibility Requirements
Date Violation Determined: 11/22/1991
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 06/01/1994

Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 04/24/1991
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 05/28/1991

Enforcement Action: Written Informal
Enforcement Action Date: 06/07/1991
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 02/22/1989
Priority of Violation: High
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 10/15/1990

Enforcement Action: Written Informal
Enforcement Action Date: 04/06/1989

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Closure/Post Closure Requirements
Date Violation Determined:	02/22/1989
Priority of Violation:	High
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	10/15/1990
Enforcement Action:	Written Informal
Enforcement Action Date:	04/06/1989
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported

There are 5 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	09/22/1994
Financial Record Review (FRR)	TSD-Financial Responsibility Requirements	06/01/1994
Other Evaluation	TSD-Other Requirements	05/28/1991
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	10/15/1990
	TSD-Closure/Post Closure Requirements	10/15/1990

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Facility Registry System (FRS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

State LUST:

Cross Street:	ECCLES ST		
Qty Leaked:	Not reported		
Case Number	913040352		
Reg Board:	Los Angeles Region		
Chemical:	Solvents		
Lead Agency:	Regional Board		
Local Agency :	19050		
Case Type:	Other ground water affected		
Status:	Remedial action (cleanup) in progress		
County:	Los Angeles		
Abate Method:	Excavate and Dispose - remove contaminated soil and dispose in approved site		
Review Date:	Not reported	Confirm Leak:	Not reported
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported	Monitoring:	Not reported
Close Date:	Not reported		
Release Date:	01/29/1985		
Cleanup Fund Id :	Not reported		
Discover Date :	06/20/1988		
Enforcement Dt :	Not reported		
Enf Type:	Not reported		
Enter Date :	12/31/1986		
Funding:	Not reported		
Staff Initials:	UNK		
How Discovered:	Tank Closure		
How Stopped:	Close Tank		
Interim :	Yes		

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Lat/Lon : -118.6235434 / 34.224103
Leak Cause: Unknown
Leak Source: Unknown
Local Case # : Not reported
Beneficial: Not reported
Staff : SLC
MTBE Date : Not reported
MTBE Tested : NRQ
Max MTBE GW : Not reported
GW Qualifies : Not reported
Max MTBE Soil : Not reported
Soil Qualifies : Not reported
Hydr Basin #: Not reported
Operator : Not reported
Oversight Prgm : SLIC
Priority : Not reported
Review Date : 07/15/1998
Stop Date : Not reported
Office : Not reported
Work Suspended : Not reported
Responsible Party HUGHES AIRCRAFT COMPANY
RP Address: SAME AS SITE
Global Id: T0603702098
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: 0
Mtbe Fuel: 0
Water System Name: ALLAN GREEN
Well Name: LPA REPORTED PRIMARY SOURCE
Distance To Lust: 13531.155956221583606583331749
Waste Discharge Global ID: W0605100510
Waste Disch Assigned Name: 2600510-001GEN
Mtbe Class: Not reported
Summary: QTRLY G/W MON. SOLVENT & TRACE METAL CONTAMINATION. 9-21-88 UPDATE-REDRILLING WELLS 1ST ONE DRY. 4-89 UPDATE-SAP FOR NEWWELLS EXPECTED.
07/15/98 - GW & REMEDIATION SYSTEM MON 1998 Q

LUST Region 4:
Report Date: 1/29/1985
Lead Agency: Regional Board
Local Agency: 19050
Case Number: 913040352
Substance: Solvents
Case Type: Groundwater
Status: Remedial action (cleanup) in progress
Region: 4
Staff: SLC

CAL-SITES:
Facility ID 19360344
Status: REFRC - DOES NOT REQUIRE DTSC ACTION. REFERRED TO RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) LEAD
Status Date: 05/01/1995
Lead: Not reported
Region: 3 - BURBANK
Branch: SA - SOUTHERN CA. - A
File Name: Not reported
Status Name: PROPERTY/SITE REFERRED TO RCRA

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Lead Agency:	N/A	Not reported
NPL:	Not reported	
SIC:	36 MANU - ELECTRONIC & OTHER ELECTRIC EQUIP	
Facility Type:	N/A	
Type Name:	Not reported	
Staff Member Responsible for Site:	Not reported	
Supervisor Responsible for Site:	Not reported	
Region Water Control Board:	Not reported	
Access:	Not reported	
Cortese:	Not reported	
Hazardous Ranking Score:	Not reported	
Date Site Hazard Ranked:	Not reported	
Groundwater Contamination:	Not reported	
No. of Contamination Sources:	0	
Lat/Long:	0° 0' 0.00" / 0° 0' 0.00"	
Lat/long Method:	Not reported	
State Assembly District Code:	Not reported	
State Senate District:	Not reported	

The CAL-SITES database may contain additional details for this site.
Please contact your EDR Account Executive for more information.

CORTESE:
Reg Id: 913040352
Region: CORTESE
Reg By: Leaking Underground Storage Tanks

B7 **HUGHES AIRCRAFT COMPANY** **CA FID UST** **S101582682**
North **8433 FALLBROOK AVE** **N/A**
1/4-1/2 **CANOGA PARK, CA 91304**
1570
Higher **Site 3 of 4 in cluster B**

FID:

Facility ID:	19001041	Regulate ID:	00035465
Reg By:	Inactive Underground Storage Tank Location		
Cortese Code:	Not reported	SIC Code:	Not reported
Status:	Inactive	Facility Tel:	(818) 702-1014
Mail To:	Not reported 8433 FALLBROOK AVE CANOGA PARK, CA 91304		
Contact:	Not reported	Contact Tel:	Not reported
DUNs No:	Not reported	NPDES No:	Not reported
Creation:	10/22/93	Modified:	00/00/00
EPA ID:	Not reported		
Comments:	Not reported		

B8 **MISSLE SYSTEMS GROUP** **HIST UST** **U001567142**
North **8433 FALLBROOK AVE** **N/A**
1/4-1/2 **CANOGA PARK, CA 91304**
1570
Higher **Site 4 of 4 in cluster B**

UST HIST:

Facility ID:	50582		
Tank Num:	1	Container Num:	PIT #2
Tank Capacity:	5476	Year Installed:	1959
Tank Used for:	WASTE		
Type of Fuel:	Not Reported	Tank Construction:	8 inches

MISSLE SYSTEMS GROUP (Continued) **U001567142**

Leak Detection: None
Contact Name: ROSS A. MOORE
Total Tanks: 3
Facility Type: 2
Telephone: (818) 702-1035
Region: STATE
Other Type: MISSILE RESEARCH & D

Facility ID: 50582
Tank Num: 2
Tank Capacity: 11
Tank Used for: WASTE
Type of Fuel: Not Reported
Container Num: S-1
Year Installed: 1981
Tank Construction: 6 inches

Leak Detection: None
Contact Name: ROSS A. MOORE
Total Tanks: 3
Facility Type: 2
Telephone: (818) 702-1035
Region: STATE
Other Type: MISSILE RESEARCH & D

Facility ID: 50582
Tank Num: 3
Tank Capacity: 11
Tank Used for: WASTE
Type of Fuel: Not Reported
Container Num: S-2
Year Installed: 1981
Tank Construction: 6 inches

Leak Detection: None
Contact Name: ROSS A. MOORE
Total Tanks: 3
Facility Type: 2
Telephone: (818) 702-1035
Region: STATE
Other Type: MISSILE RESEARCH & D

9
East
1/2-1
4576
Lower

WEST VALLEY HOSPITAL AND HEALTH CTR
22141 ROSCOE BLVD
CANOGA PARK, CA 91304

RCRIS-SQG **1000297218**
FINDS **CAD982022295**
Cal-Sites

RCRIS:
Owner: TRIAD CORP
(818) 990-2000

Contact: JACK MCGUIRE
(818) 340-0580

Record Date: 08/20/1991
Classification: Small Quantity Generator
Used Oil Recyc: No

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Facility Registry System (FRS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

CAL-SITES:
Facility ID 19800031
Status: NA
Status Date: 12/15/1995
Lead: DTSC
Region: 3 - BURBANK
Branch: CM - CALMORTGAGE
File Name: Not reported
Status Name: NO ACTION - FOR CALMORTGAGE ONLY
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
NPL: Not reported

Not reported

WEST VALLEY HOSPITAL AND HEALTH CTR (Continued) **1000297218**

SIC:	80 HEALTH SERVICES
Facility Type:	CALMORTGAGE ONLY
Type Name:	CMORT
Staff Member Responsible for Site:	SKARINEN
Supervisor Responsible for Site:	BCOLER
Region Water Control Board:	LA - LOS ANGELES
Access:	Not reported
Cortese:	Not reported
Hazardous Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Not reported
No. of Contamination Sources:	0
Lat/Long:	0° 0' 0.00" / 0° 0' 0.00"
Lat/long Method:	Not reported
State Assembly District Code:	Not reported
State Senate District:	Not reported

The CAL-SITES database may contain additional details for this site.
Please contact your EDR Account Executive for more information.

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10 SSW 1/2-1 4940 Higher **CHEVRON #9-3113** **Cortese S103955994**
7607 WOODLAKE **HAZNET N/A**
WEST HILLS, CA 93104

HAZNET:

Gepaid:	CAL000194234
Tepaid:	CAD982484933
Gen County:	Los Angeles
Tsd County:	7
Tons:	.2500
Category:	Empty containers less than 30 gallons
Disposal Method:	Disposal, Other
Contact:	CHEVRON USA
Telephone:	(925) 842-5931
Mailing Address:	PO BOX 6004
	SAN RAMON, CA 94583
County	Los Angeles

CORTESE:

Reg Id:	913040616
Region:	CORTESE
Reg By:	Leaking Underground Storage Tanks

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11 East > 1 5836 Lower **ARCO** **Cortese S101295722**
21935 ROSCOE **LUST N/A**
CANOGA PARK, CA 91304

State LUST:

Cross Street:	TOPANGA CYN
Qty Leaked:	Not reported
Case Number	913040607
Reg Board:	Los Angeles Region
Chemical:	Hydrocarbons
Lead Agency:	Regional Board
Local Agency :	19050

ARCO (Continued) **S101295722**

Case Type: Other ground water affected
Status: Post remedial action monitoring in progress
County: Los Angeles
Review Date: 07/05/1990 Confirm Leak: 07/05/1990
Workplan: 11/07/1990 Prelim Assess: 11/07/1990
Pollution Char: Not reported Remed Plan: Not reported
Remed Action: 02/19/1997 Monitoring: 02/19/1997
Close Date: Not reported
Release Date: 01/16/1992
Cleanup Fund Id : Not reported
Discover Date : / /
Enforcement Dt : 03/19/2001
Enf Type: IEA
Enter Date : 03/21/1992
Funding: Not reported
Staff Initials: UNK
How Discovered: Subsurface Monitoring
How Stopped: Repair Piping
Interim : Not reported
Lat/Lon : -118.6049728 / 34.2198291
Leak Cause: Unknown
Leak Source: Piping
Local Case # : Not reported
Beneficial: Not reported
Staff : TAS
MTBE Date : 01/01/1965
MTBE Tested : YES
Max MTBE GW : 365,000
GW Qualifies : Not reported
Max MTBE Soil : Not reported
Soil Qualifies : Not reported
Hydr Basin #: Not reported
Operator : R & S OIL CO
Oversight Prgm : UST
Priority : 1C
Review Date : 04/12/2001
Stop Date : Not reported
Office : Not reported
Work Suspended : Not reported
Responsible Party: R & S OIL CO.
RP Address: 10974 LE CONTE AVE., LOS ANGELES, CA 90024
Global Id: T0603702102
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: 1
Mtbe Fuel: 0
Water System Name: ALLAN GREEN
Well Name: LPA REPORTED PRIMARY SOURCE
Distance To Lust: 12403.510117669789519830724493
Waste Discharge Global ID: W0605100510
Waste Disch Assigned Name: 2600510-001GEN
Mtbe Class: Not reported
Summary: 10/17/00 3RD QTR GW MON RPT 2000; 11/7/00 PROPOSED WP FOR ADDL SITE ASSESSM.; 1/22/01 4TH QTR GW MONR PT 2000; 4/12/01 1ST QTR GW MON RPT 2001

LUST Region 4:
Report Date: 1/16/1992
Lead Agency: Regional Board

ARCO (Continued) **S101295722**

Local Agency: 19050
Case Number: 913040607
Substance: Hydrocarbons
Case Type: Groundwater
Status: Pollution characterization
Region: 4
Staff: TAS

CORTESE:
Reg Id: 913040607
Region: CORTESE
Reg By: Leaking Underground Storage Tanks

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)	Facility ID
CANOGA PARK	U001567130	CHATSWORTH RESERVOIR	8600 FALLBROOK	91304	HIST UST	19055642
CANOGA PARK	S104583312	JOE'S AUTO CARE	21577 ROSCOE BLVD	91304	HAZNET	CAL000213488
CANOGA PARK	U001567133	FIRE STATION 106	2004 ROSCOE BLVD.	91304	HIST UST	19055521
CANOGA PARK	S104579737	WESTSIDE VALLEY AUTO BODY	21510 SCHOENBORN ST BLDG B	91304	HAZNET	CAL000153683
CANOGA PARK	S103641971	SIR SPEEDY PRINTING CENTER	21430 STRATHERN ST SUITE A	91304	HAZNET	CAL000043881
LOS ANGELES COUNTY	S104889769	LLANO ILLEGAL DISPOSAL SITE	1 MILE SOUTH OF HWY 138 @ 190TH ST EAST		SWF/LF	19-AA-5692
SIMI HILLS	1000273243	USNASA BOEING SSFL AREA I I	SANTA SUSANA FIELD LAB NASA	91311	PADS, CERCLIS, FINDS, RCRIS-LQG RCRIS-TSD, CORRACTS, CERC-NFF	
SIMI HILLS	1000273250	THE BOEING CO SSFL AREA I AND I I I	SANTA SUSANA LAB AREAS 1 2 3 4	91311	FINDS, RCRIS-LQG, RCRIS-TSD, CORRACTS, CERC-NFRAP	

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL ASTM STANDARD RECORDS

NPL: National Priority List
Source: EPA
Telephone: N/A
National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/26/01
Date Made Active at EDR: 08/28/01
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 08/06/01
Elapsed ASTM days: 22
Date of Last EDR Contact: 11/05/01

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 6
Telephone: 214-655-6659

EPA Region 8
Telephone: 303-312-6774

Proposed NPL: Proposed National Priority List Sites
Source: EPA
Telephone: N/A

Date of Government Version: 07/26/01
Date Made Active at EDR: 08/28/01
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 08/06/01
Elapsed ASTM days: 22
Date of Last EDR Contact: 11/05/01

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System
Source: EPA
Telephone: 703-413-0223
CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/12/01
Date Made Active at EDR: 10/16/01
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 09/24/01
Elapsed ASTM days: 22
Date of Last EDR Contact: 09/24/01

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned
Source: EPA
Telephone: 703-413-0223
As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

Date of Government Version: 07/12/01
Date Made Active at EDR: 10/16/01
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 09/24/01
Elapsed ASTM days: 22
Date of Last EDR Contact: 09/24/01

CORRACTS: Corrective Action Report
Source: EPA
Telephone: 800-424-9346
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/20/01
Date Made Active at EDR: 10/30/01
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 09/24/01
Elapsed ASTM days: 36
Date of Last EDR Contact: 09/11/01

RCRIS: Resource Conservation and Recovery Information System
Source: EPA/NTIS
Telephone: 800-424-9346
Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Date of Government Version: 06/21/00
Date Made Active at EDR: 07/31/00
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 07/10/00
Elapsed ASTM days: 21
Date of Last EDR Contact: 11/07/01

ERNS: Emergency Response Notification System
Source: EPA/NTIS
Telephone: 202-260-2342
Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 08/08/00
Date Made Active at EDR: 09/06/00
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 08/11/00
Elapsed ASTM days: 26
Date of Last EDR Contact: 10/25/01

FEDERAL ASTM SUPPLEMENTAL RECORDS

BRS: Biennial Reporting System
Source: EPA/NTIS
Telephone: 800-424-9346
The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/99
Database Release Frequency: Biennially
Date of Last EDR Contact: 09/18/01
Date of Next Scheduled EDR Contact: 12/17/01

CONSENT: Superfund (CERCLA) Consent Decrees
Source: EPA Regional Offices
Telephone: Varies
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: N/A
Database Release Frequency: Varies
Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

ROD: Records Of Decision
Source: NTIS
Telephone: 703-416-0223
Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 09/30/00
Database Release Frequency: Annually

Date of Last EDR Contact: 10/09/01
Date of Next Scheduled EDR Contact: 01/07/02

DELISTED NPL: National Priority List Deletions
Source: EPA
Telephone: N/A
The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/26/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 11/05/01
Date of Next Scheduled EDR Contact: 02/04/02

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report
Source: EPA
Telephone: N/A
Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/13/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/08/01
Date of Next Scheduled EDR Contact: 01/07/02

HMIRS: Hazardous Materials Information Reporting System
Source: U.S. Department of Transportation
Telephone: 202-366-4526
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 05/31/01
Database Release Frequency: Annually

Date of Last EDR Contact: 10/22/01
Date of Next Scheduled EDR Contact: 01/21/02

MLTS: Material Licensing Tracking System
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 05/29/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/08/01
Date of Next Scheduled EDR Contact: 01/07/02

MINES: Mines Master Index File
Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959

Date of Government Version: 08/24/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/01/01
Date of Next Scheduled EDR Contact: 12/31/01

NPL LIENS: Federal Superfund Liens
Source: EPA
Telephone: 205-564-4267
Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/91
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 08/21/01
Date of Next Scheduled EDR Contact: 11/19/01

PADS: PCB Activity Database System
Source: EPA
Telephone: 202-260-3936
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/30/01
Database Release Frequency: Annually
Date of Last EDR Contact: 10/25/01
Date of Next Scheduled EDR Contact: 11/12/01

RAATS: RCRA Administrative Action Tracking System
Source: EPA
Telephone: 202-564-4104
RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/95
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 09/13/01
Date of Next Scheduled EDR Contact: 12/10/01

TRIS: Toxic Chemical Release Inventory System
Source: EPA
Telephone: 202-260-1531
Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/99
Database Release Frequency: Annually
Date of Last EDR Contact: 09/24/01
Date of Next Scheduled EDR Contact: 12/24/01

TSCA: Toxic Substances Control Act
Source: EPA
Telephone: 202-260-1444
Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/98
Database Release Frequency: Every 4 Years
Date of Last EDR Contact: 10/24/01
Date of Next Scheduled EDR Contact: 01/21/02

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-564-2501
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/19/01
Database Release Frequency: Quarterly
Date of Last EDR Contact: 09/25/01
Date of Next Scheduled EDR Contact: 12/24/01

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
Source: EPA
Telephone: 202-564-2501

Date of Government Version: 07/19/01
Database Release Frequency: Quarterly
Date of Last EDR Contact: 09/25/01
Date of Next Scheduled EDR Contact: 12/24/01

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STATE OF CALIFORNIA ASTM STANDARD RECORDS

AWP: Annual Workplan Sites
Source: California Environmental Protection Agency
Telephone: 916-323-3400
Known Hazardous Waste Sites. California DTSC's Annual Workplan (AWP), formerly BEP, identifies known hazardous substance sites targeted for cleanup.

Date of Government Version: 11/08/00
Date Made Active at EDR: 03/02/01
Database Release Frequency: Annually
Date of Data Arrival at EDR: 01/31/01
Elapsed ASTM days: 30
Date of Last EDR Contact: 10/30/01

CAL-SITES: Calsites Database
Source: Department of Toxic Substance Control
Telephone: 916-323-3400
The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database.

Date of Government Version: 10/01/00
Date Made Active at EDR: 11/22/00
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 10/30/00
Elapsed ASTM days: 23
Date of Last EDR Contact: 10/16/01

CHMIRS: California Hazardous Material Incident Report System
Source: Office of Emergency Services
Telephone: 916-464-3283
California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/94
Date Made Active at EDR: 04/24/95
Database Release Frequency: No Update Planned
Date of Data Arrival at EDR: 03/13/95
Elapsed ASTM days: 42
Date of Last EDR Contact: 08/29/01

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
Source: CAL EPA/Office of Emergency Information
Telephone: 916-327-1848
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 04/01/01
Date Made Active at EDR: 07/26/01
Database Release Frequency: Varies
Date of Data Arrival at EDR: 05/29/01
Elapsed ASTM days: 58
Date of Last EDR Contact: 10/30/01

NOTIFY 65: Proposition 65 Records
Source: State Water Resources Control Board
Telephone: 916-657-0696
Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/93
Date Made Active at EDR: 11/19/93
Database Release Frequency: No Update Planned
Date of Data Arrival at EDR: 11/01/93
Elapsed ASTM days: 18
Date of Last EDR Contact: 10/22/01

TOXIC PITS: Toxic Pits Cleanup Act Sites
Source: State Water Resources Control Board
Telephone: 916-227-4364
Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/95
Date Made Active at EDR: 09/26/95
Database Release Frequency: No Update Planned
Date of Data Arrival at EDR: 08/30/95
Elapsed ASTM days: 27
Date of Last EDR Contact: 11/05/01

SWF/LF (SWIS): Solid Waste Information System
Source: Integrated Waste Management Board
Telephone: 916-341-6320
Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/20/01
Date Made Active at EDR: 10/19/01
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 09/21/01
Elapsed ASTM days: 28
Date of Last EDR Contact: 09/21/01

WMUDS/SWAT: Waste Management Unit Database
Source: State Water Resources Control Board
Telephone: 916-227-4448
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/00
Date Made Active at EDR: 05/10/00
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 04/10/00
Elapsed ASTM days: 30
Date of Last EDR Contact: 09/13/01

LUST: Leaking Underground Storage Tank Information System
Source: State Water Resources Control Board
Telephone: 916-445-6532
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 08/07/01
Date Made Active at EDR: 09/07/01
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 08/09/01
Elapsed ASTM days: 29
Date of Last EDR Contact: 11/08/01

CA BOND EXP. PLAN: Bond Expenditure Plan
Source: Department of Health Services
Telephone: 916-255-2118
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/89
Date Made Active at EDR: 08/02/94
Database Release Frequency: No Update Planned
Date of Data Arrival at EDR: 07/27/94
Elapsed ASTM days: 6
Date of Last EDR Contact: 05/31/94

CA UST:

UST: Active UST Facilities
Source: SWRCB
Telephone: 916-341-5700
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 10/30/01
Date Made Active at EDR: 11/14/01
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 11/05/01
Elapsed ASTM days: 9
Date of Last EDR Contact: 10/15/01

CA FID UST: Facility Inventory Database
Source: California Environmental Protection Agency
Telephone: 916-445-6532
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/94
Date Made Active at EDR: 09/29/95
Database Release Frequency: No Update Planned
Date of Data Arrival at EDR: 09/05/95
Elapsed ASTM days: 24
Date of Last EDR Contact: 12/28/98

HIST UST: Hazardous Substance Storage Container Database
Source: State Water Resources Control Board
Telephone: 916-227-4408
The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/90
Date Made Active at EDR: 02/12/91
Database Release Frequency: No Update Planned
Date of Data Arrival at EDR: 01/25/91
Elapsed ASTM days: 18
Date of Last EDR Contact: 07/26/01

STATE OF CALIFORNIA ASTM SUPPLEMENTAL RECORDS

AST: Aboveground Petroleum Storage Tank Facilities
Source: State Water Resources Control Board
Telephone: 916-227-4382
Registered Aboveground Storage Tanks.

Date of Government Version: 08/21/01
Database Release Frequency: Quarterly
Date of Last EDR Contact: 11/05/01
Date of Next Scheduled EDR Contact: 02/04/02

CLEANERS: Drycleaner Facilities
Source: Department of Toxic Substance Control
Telephone: 916-225-0873
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 07/27/01
Database Release Frequency: Annually
Date of Last EDR Contact: 10/08/01
Date of Next Scheduled EDR Contact: 01/07/02

CA WDS: Waste Discharge System
Source: State Water Resources Control Board
Telephone: 916-657-1571
Sites which have been issued waste discharge requirements.

Date of Government Version: 07/19/01
Database Release Frequency: Quarterly
Date of Last EDR Contact: 09/25/01
Date of Next Scheduled EDR Contact: 12/24/01

HAZNET: Hazardous Waste Information System
Source: California Environmental Protection Agency
Telephone: 916-255-1136
Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/00
Database Release Frequency: Annually
Date of Last EDR Contact: 08/17/01
Date of Next Scheduled EDR Contact: 11/12/01

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LOCAL RECORDS

ALAMEDA COUNTY:

Local Oversight Program Listing of UGT Cleanup Sites
Source: Alameda County Environmental Health Services
Telephone: 510-567-6700

Date of Government Version: 07/01/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/30/01
Date of Next Scheduled EDR Contact: 01/28/02

Underground Tanks
Source: Alameda County Environmental Health Services
Telephone: 510-567-6700

Date of Government Version: 12/01/00
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/30/01
Date of Next Scheduled EDR Contact: 01/28/02

CONTRA COSTA COUNTY:

Site List
Source: Contra Costa Health Services Department
Telephone: 925-646-2286
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 09/01/00
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 09/04/01
Date of Next Scheduled EDR Contact: 12/03/01

FRESNO COUNTY:

CUPA Resources List
Source: Dept. of Community Health
Telephone: 559-445-3271
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 08/14/01
Database Release Frequency: N/A

Date of Last EDR Contact: 08/14/01
Date of Next Scheduled EDR Contact: 11/12/01

KERN COUNTY:

Underground Storage Tank Sites & Tanks Listing
Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Kern County Sites and Tanks Listing.

Date of Government Version: 08/01/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 09/04/01
Date of Next Scheduled EDR Contact: 12/03/01

LOS ANGELES COUNTY:

List of Solid Waste Facilities
Source: La County Department of Public Works
Telephone: 818-458-5185

Date of Government Version: 09/16/98
Database Release Frequency: Varies

Date of Last EDR Contact: 08/20/01
Date of Next Scheduled EDR Contact: 11/19/01

City of El Segundo Underground Storage Tank
Source: City of El Segundo Fire Department
Telephone: 310-607-2239

Date of Government Version: 02/01/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 08/20/01
Date of Next Scheduled EDR Contact: 11/19/01

City of Long Beach Underground Storage Tank
Source: City of Long Beach Fire Department
Telephone: 562-570-2543

Date of Government Version: 10/01/99
Database Release Frequency: Annually

Date of Last EDR Contact: 08/31/01
Date of Next Scheduled EDR Contact: 11/26/01

City of Torrance Underground Storage Tank
Source: City of Torrance Fire Department
Telephone: 310-618-2973

Date of Government Version: 02/01/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 08/20/01
Date of Next Scheduled EDR Contact: 11/19/01

City of Los Angeles Landfills
Source: Engineering & Construction Division
Telephone: 213-473-7869

Date of Government Version: 08/31/99
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 09/19/01
Date of Next Scheduled EDR Contact: 12/17/01

HMS: Street Number List
Source: Department of Public Works
Telephone: 626-458-3517
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 06/28/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/30/01
Date of Next Scheduled EDR Contact: 11/19/01

Site Mitigation List
Source: Community Health Services
Telephone: 323-890-7806
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/11/01
Database Release Frequency: Annually

Date of Last EDR Contact: 08/20/01
Date of Next Scheduled EDR Contact: 11/19/01

San Gabriel Valley Areas of Concern
Source: EPA Region 9
Telephone: 415-744-2407
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/98
Database Release Frequency: N/A

Date of Last EDR Contact: 06/29/99
Date of Next Scheduled EDR Contact: N/A

MARIN COUNTY:

Underground Storage Tank Sites
Source: Public Works Department Waste Management
Telephone: 415-499-6647
Currently permitted USTs in Marin County.

Date of Government Version: 03/05/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 11/05/01
Date of Next Scheduled EDR Contact: 02/04/02

NAPA COUNTY:

Sites With Reported Contamination
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269

Date of Government Version: 10/01/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/02/01
Date of Next Scheduled EDR Contact: 12/31/01

Closed and Operating Underground Storage Tank Sites
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269

Date of Government Version: 10/01/01
Database Release Frequency: Annually

Date of Last EDR Contact: 10/02/01
Date of Next Scheduled EDR Contact: 12/31/01

ORANGE COUNTY:

List of Underground Storage Tank Cleanups
Source: Health Care Agency
Telephone: 714-834-3446
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 06/12/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 09/11/01
Date of Next Scheduled EDR Contact: 12/10/01

List of Underground Storage Tank Facilities
Source: Health Care Agency
Telephone: 714-834-3446
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 11/29/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 09/11/01
Date of Next Scheduled EDR Contact: 12/10/01

List of Industrial Site Cleanups
Source: Health Care Agency
Telephone: 714-834-3446
Petroleum and non-petroleum spills.

Date of Government Version: 10/24/00
Database Release Frequency: Annually

Date of Last EDR Contact: 09/11/01
Date of Next Scheduled EDR Contact: 12/10/01

PLACER COUNTY:

Master List of Facilities
Source: Placer County Health and Human Services
Telephone: 530-889-7335
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/25/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 09/25/01
Date of Next Scheduled EDR Contact: 12/24/01

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Source: Department of Public Health
Telephone: 909-358-5055
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 09/05/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/22/01
Date of Next Scheduled EDR Contact: 01/21/02

Underground Storage Tank Tank List
Source: Health Services Agency
Telephone: 909-358-5055

Date of Government Version: 08/01/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/22/01
Date of Next Scheduled EDR Contact: 01/21/02

SACRAMENTO COUNTY:

CS - Contaminated Sites
Source: Sacramento County Environmental Management
Telephone: 916-875-8450

Date of Government Version: 08/08/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/05/01
Date of Next Scheduled EDR Contact: 02/04/02

ML - Regulatory Compliance Master List
Source: Sacramento County Environmental Management
Telephone: 916-875-8450
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/08/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/05/01
Date of Next Scheduled EDR Contact: 02/04/02

SAN BERNARDINO COUNTY:

Hazardous Material Permits
Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 08/13/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 08/13/01
Date of Next Scheduled EDR Contact: 12/10/01

SAN DIEGO COUNTY:

Solid Waste Facilities
Source: Department of Health Services
Telephone: 619-338-2209
San Diego County Solid Waste Facilities.

Date of Government Version: 07/01/98
Database Release Frequency: Annually

Date of Last EDR Contact: 08/29/01
Date of Next Scheduled EDR Contact: 11/26/01

Hazardous Materials Management Division Database
Source: Hazardous Materials Management Division
Telephone: 619-338-2268
The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 10/08/01
Database Release Frequency: Quarterly
Date of Last EDR Contact: 10/08/01
Date of Next Scheduled EDR Contact: 01/07/02

SAN FRANCISCO COUNTY:

Local Oversite Facilities
Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920

Date of Government Version: 09/01/01
Database Release Frequency: Quarterly
Date of Last EDR Contact: 09/11/01
Date of Next Scheduled EDR Contact: 12/10/01

Underground Storage Tank Information
Source: Department of Public Health
Telephone: 415-252-3920

Date of Government Version: 09/01/01
Database Release Frequency: Quarterly
Date of Last EDR Contact: 09/11/01
Date of Next Scheduled EDR Contact: 12/10/01

SAN MATEO COUNTY:

Fuel Leak List
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921

Date of Government Version: 07/05/01
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 10/30/01
Date of Next Scheduled EDR Contact: 01/28/02

Business Inventory
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 05/15/01
Database Release Frequency: Annually
Date of Last EDR Contact: 10/16/01
Date of Next Scheduled EDR Contact: 01/14/02

SANTA CLARA COUNTY:

Fuel Leak Site Activity Report
Source: Santa Clara Valley Water District
Telephone: 408-927-0710

Date of Government Version: 07/09/01
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 10/01/01
Date of Next Scheduled EDR Contact: 12/31/01

Hazardous Material Facilities
Source: City of San Jose Fire Department
Telephone: 408-277-4659

Date of Government Version: 06/13/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 09/11/01
Date of Next Scheduled EDR Contact: 12/10/01

SOLANO COUNTY:

Leaking Underground Storage Tanks
Source: Solano County Department of Environmental Management
Telephone: 707-421-6770

Date of Government Version: 07/01/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 09/19/01
Date of Next Scheduled EDR Contact: 12/17/01

Underground Storage Tanks
Source: Solano County Department of Environmental Management
Telephone: 707-421-6770

Date of Government Version: 07/01/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 09/19/01
Date of Next Scheduled EDR Contact: 12/17/01

SONOMA COUNTY:

Leaking Underground Storage Tank Sites
Source: Department of Health Services
Telephone: 707-525-6565

Date of Government Version: 05/01/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/30/01
Date of Next Scheduled EDR Contact: 01/28/02

SUTTER COUNTY:

Underground Storage Tanks
Source: Sutter County Department of Agriculture
Telephone: 530-822-7500

Date of Government Version: 07/01/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/09/01
Date of Next Scheduled EDR Contact: 01/07/02

VENTURA COUNTY:

Inventory of Illegal Abandoned and Inactive Sites
Source: Environmental Health Division
Telephone: 805-654-2813
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 04/02/01
Database Release Frequency: Annually

Date of Last EDR Contact: 08/29/01
Date of Next Scheduled EDR Contact: 11/26/01

Listing of Underground Tank Cleanup Sites
Source: Environmental Health Division
Telephone: 805-654-2813
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/24/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 09/19/01
Date of Next Scheduled EDR Contact: 12/17/01

Underground Tank Closed Sites List
Source: Environmental Health Division
Telephone: 805-654-2813
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 05/24/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/16/01
Date of Next Scheduled EDR Contact: 01/14/02

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 09/10/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 09/18/01
Date of Next Scheduled EDR Contact: 12/17/01

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Source: Yolo County Department of Health
Telephone: 530-666-8646

Date of Government Version: 01/23/01
Database Release Frequency: Annually

Date of Last EDR Contact: 10/22/01
Date of Next Scheduled EDR Contact: 01/21/02

California Regional Water Quality Control Board (RWQCB) LUST Records

LUST REG 1: Active Toxic Site Investigation
Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-576-2220
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/01
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 10/03/01
Date of Next Scheduled EDR Contact: 11/26/01

LUST REG 2: Fuel Leak List
Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457

Date of Government Version: 07/01/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/18/01
Date of Next Scheduled EDR Contact: 01/14/02

LUST REG 3: Leaking Underground Storage Tank Database
Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147

Date of Government Version: 08/20/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 08/20/01
Date of Next Scheduled EDR Contact: 11/19/01

LUST REG 4: Underground Storage Tank Leak List
Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-266-6600
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 08/09/01
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 10/18/01
Date of Next Scheduled EDR Contact: 12/31/01

LUST REG 5: Leaking Underground Storage Tank Database
Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-255-3125

Date of Government Version: 09/01/01
Database Release Frequency: Quarterly
Date of Last EDR Contact: 10/08/01
Date of Next Scheduled EDR Contact: 01/07/02

LUST REG 6L: Leaking Underground Storage Tank Case Listing
Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 916-542-5424

Date of Government Version: 07/01/01
Database Release Frequency: Quarterly
Date of Last EDR Contact: 10/22/01
Date of Next Scheduled EDR Contact: 01/07/02

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-346-7491

Date of Government Version: 07/01/01
Database Release Frequency: Quarterly
Date of Last EDR Contact: 10/08/01
Date of Next Scheduled EDR Contact: 01/07/02

LUST REG 7: Leaking Underground Storage Tank Case Listing
Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-346-7491

Date of Government Version: 05/14/01
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 10/02/01
Date of Next Scheduled EDR Contact: 12/31/01

LUST REG 8: Leaking Underground Storage Tanks
Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4498
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 07/23/01
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 08/17/01
Date of Next Scheduled EDR Contact: 11/12/01

LUST REG 9: Leaking Underground Storage Tank Report
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 619-467-2952
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/01
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 10/22/01
Date of Next Scheduled EDR Contact: 01/21/02

California Regional Water Quality Control Board (RWQCB) SLIC Records

SLIC REG 1: Active Toxic Site Investigations
Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220

Date of Government Version: 02/01/01
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 09/06/01
Date of Next Scheduled EDR Contact: 11/26/01

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 07/01/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/15/01
Date of Next Scheduled EDR Contact: 01/14/02

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 08/20/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 08/20/01
Date of Next Scheduled EDR Contact: 11/19/01

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 09/13/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/29/01
Date of Next Scheduled EDR Contact: 01/28/02

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-855-3075
Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 06/01/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/10/01
Date of Next Scheduled EDR Contact: 01/07/02

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583

Date of Government Version: 07/19/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/09/01
Date of Next Scheduled EDR Contact: 01/07/02

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-3298

Date of Government Version: 06/11/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/11/01
Date of Next Scheduled EDR Contact: 01/07/02

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980

Date of Government Version: 07/01/01
Database Release Frequency: Annually

Date of Last EDR Contact: 09/04/01
Date of Next Scheduled EDR Contact: 12/03/01

EDR PROPRIETARY DATABASES

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

Disclaimer Provided by Real Property Scan, Inc.

The information contained in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HISTORICAL AND OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Oil/Gas Pipelines/Electrical Transmission Lines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines and electrical transmission lines.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 1999 from the U.S. Fish and Wildlife Service.

GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

PARCEL C
8501 FALLBROOK AVENUE
CANOGA PARK, CA 91304

TARGET PROPERTY COORDINATES

Latitude (North):	34.220100 - 34° 13' 12.4"
Longitude (West):	118.624001 - 118° 37' 26.4"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	350404.2
UTM Y (Meters):	3787558.0

EDR's GeoCheck Physical Setting Source Addendum has been developed to assist the environmental professional with the collection of physical setting source information in accordance with ASTM 1527-00, Section 7.2.3. Section 7.2.3 requires that a current USGS 7.5 Minute Topographic Map (or equivalent, such as the USGS Digital Elevation Model) be reviewed. It also requires that one or more additional physical setting sources be sought when (1) conditions have been identified in which hazardous substances or petroleum products are likely to migrate to or from the property, and (2) more information than is provided in the current USGS 7.5 Minute Topographic Map (or equivalent) is generally obtained, pursuant to local good commercial or customary practice, to assess the impact of migration of recognized environmental conditions in connection with the property. Such additional physical setting sources generally include information about the topographic, hydrologic, hydrogeologic, and geologic characteristics of a site, and wells in the area.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata. EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

USGS TOPOGRAPHIC MAP ASSOCIATED WITH THIS SITE

Target Property: 2434118-B5 CANOGA PARK, CA
Source: USGS 7.5 min quad index

GENERAL TOPOGRAPHIC GRADIENT AT TARGET PROPERTY

Target Property: General SE

Source: General Topographic Gradient has been determined from the USGS 1 Degree Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
LOS ANGELES, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 0601370026C / CBPP

Additional Panels in search area:
0604130985B / CBPP
0650430605B / CBPP
0601370017C / CBPP
0601370018C / CBPP
0601370027C / CBPP
0601370025C / CBPP
0601370035C / CBPP

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
CANOGA PARK	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Site-Specific Hydrogeological Data*:

Search Radius:	2.0 miles
Status:	Not found

AQUIFLOW®

Search Radius: 2.000 Miles.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
A2	1 - 2 Miles East	SW
A3	1 - 2 Miles East	NW
4	1 - 2 Miles East	SSW
B5	1 - 2 Miles SE	S
B6	1 - 2 Miles SE	SSE

For additional site information, refer to Physical Setting Source Map Findings.

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Mesozoic
System:	Cretaceous
Series:	Upper Cretaceous
Code:	uK *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Component Name: URBAN LAND

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 10 inches

Depth to Bedrock Max: > 10 inches

Soil Layer Information

	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures:
loam
clay
silt loam
clay loam
sandy loam
gravelly - sandy loam
loamy sand
fine sand
coarse sand
sand
gravelly - sand

Surficial Soil Types:
loam
clay
silt loam
clay loam
sandy loam
gravelly - sandy loam
loamy sand
fine sand
coarse sand
sand
gravelly - sand

Shallow Soil Types:
fine sandy loam
gravelly - loam
sand
silty clay

Deeper Soil Types:
stratified

clay loam
silty clay loam
gravelly - sandy loam
coarse sand
sand
weathered bedrock
very fine sandy loam

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

According to ASTM E 1527-00, Section 7.2.2, "one or more additional state or local sources of environmental records may be checked, in the discretion of the environmental professional, to enhance and supplement federal and state sources... Factors to consider in determining which local or additional state records, if any, should be checked include (1) whether they are reasonably ascertainable, (2) whether they are sufficiently useful, accurate, and complete in light of the objective of the records review (see 7.1.1), and (3) whether they are obtained, pursuant to local, good commercial or customary practice." One of the record sources listed in Section 7.2.2 is water well information. Water well information can be used to assist the environmental professional in assessing sources that may impact groundwater flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

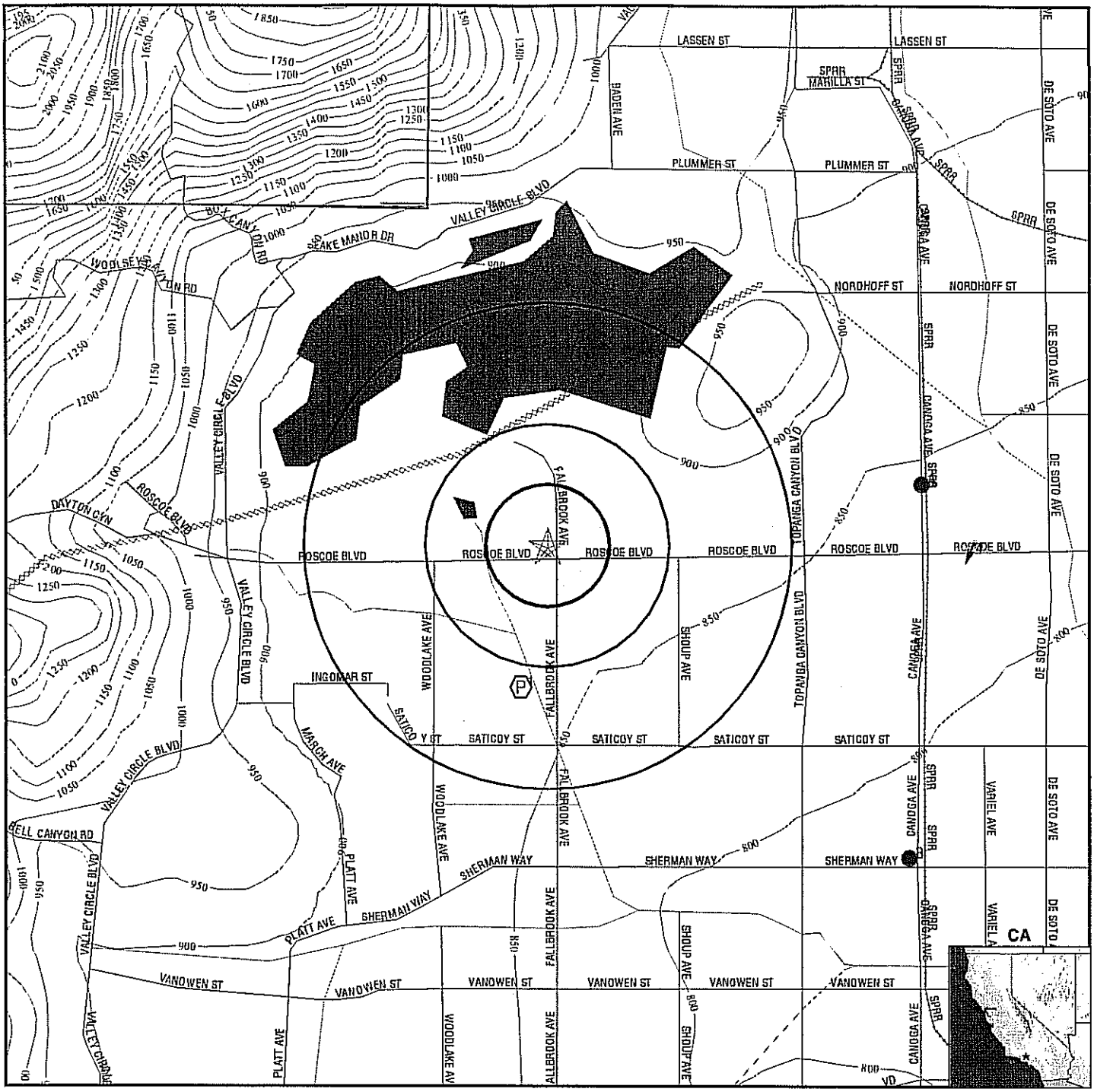
MAP ID	WELL ID	LOCATION FROM TP
1	CA3900735	1/2 - 1 Mile South

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 704883.3s



0 1/2 1 2 Miles

- Major Roads
- Contour Lines
- Earthquake Fault Lines
- (W) Water Wells
- (P) Public Water Supply Wells
- Groundwater Flow Direction
- (GI) Indeterminate Groundwater Flow at Location
- (GV) Groundwater Flow Varies at Location
- Cluster of Multiple Icons
- (O) Earthquake epicenter, Richter 5 or greater
- (HD) Closest Hydrogeological Data
- Oil, gas or related wells

TARGET PROPERTY:	Parcel C	CUSTOMER:	ENVIRON Corporation
ADDRESS:	8501 Fallbrook Avenue	CONTACT:	D. Scanlon
CITY/STATE/ZIP:	Canoga Park CA 91304	INQUIRY #:	704883.3s
LAT/LONG:	34.2201 / 118.6240	DATE:	November 19, 2001 2:52 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
1 **South** **1/2 - 1 Mile** **Higher**	**FRDS PWS**	**CA3900735**

PWS ID: CA3900735 PWS Status: Not Reported
Date Initiated: Not Reported Date Deactivated: Not Reported
PWS Name: CHARTER WAY MOBILE HOME PARK
HUNTINGTON BEACH, CA 926491828

Addressee / Facility: System Owner/Responsible Party
CASA DE SANTIAGO
16582 GRIMAUD LANE
HUNTINGTON BEACH, CA 926491828

Facility Latitude: 34 12 42 Facility Longitude: 118 37 30
City Served: Not Reported
Treatment Class: Untreated Population: 150

PWS currently has or had major violation(s) or enforcement: Yes

Violations information not reported.

ENFORCEMENT INFORMATION:

System Name: CHARTER WAY MOBILE HOME PA
Violation Type: Initial Tap Sampling for Pb and Cu
Contaminant: LEAD & COPPER RULE
Compliance Period: 1993-07-01 - 2015-12-31 Analytical Value: 0000000.000000000
Violation ID: 95V0001 Enforcement ID: Not Reported
Enforcement Date: Not Reported Enf. Action: Not Reported

System Name: CHARTER WAY MOBILE HOME PA
Violation Type: Initial Tap Sampling for Pb and Cu
Contaminant: LEAD & COPPER RULE
Compliance Period: 1993-07-01 - 2015-12-31 Analytical Value: 0000000.000000000
Violation ID: 95V0001 Enforcement ID: Not Reported
Enforcement Date: Not Reported Enf. Action: Not Reported

System Name: CHARTER WAY MOBILE HOME PA
Violation Type: Initial Tap Sampling for Pb and Cu
Contaminant: LEAD & COPPER RULE
Compliance Period: 1993-07-01 - 2000-04-04 Analytical Value: 0000000.000000000
Violation ID: 95V0001 Enforcement ID: 0089899
Enforcement Date: 2000-04-04 Enf. Action: State Compliance Achieved

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A2 **East** **1 - 2 Miles** **Lower**	Site ID: Not Reported Groundwater Flow: SW Shallow Water Depth: 7'bgs Deep Water Depth: 8'bgs Average Water Depth: Not Reported Date: 06/06/1997		**AQUIFLOW**	**69643**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID / Direction / Distance / Elevation			Database	EDR ID Number
A3 **East** **1 - 2 Miles** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	10954 NW 9 10 Not Reported 04/30/1997	**AQUIFLOW**	**66178**
4 **East** **1 - 2 Miles** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	913040589 SSW Not Reported Not Reported 50 07/22/1994	**AQUIFLOW**	**38149**
B5 **SE** **1 - 2 Miles** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	91300725 S 18.62 18.85 Not Reported 10/22/1991	**AQUIFLOW**	**38169**
B6 **SE** **1 - 2 Miles** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	913030752 SSE 17.34 17.68 Not Reported 07/29/1996	**AQUIFLOW**	**38152**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for LOS ANGELES County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 1999 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the national Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-260-2805
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-260-2805
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: In November 1971 the United States Geological Survey (USGS) implemented a national water resource information tracking system. This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on more than 900,000 wells, springs, and other sources of groundwater.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STATE RECORDS

California Drinking Water Quality Database
Source: Department of Health Services
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations for District 2 and 6
Source: Department of Conservation
Telephone: 916-323-1779

RADON

Area Radon Information: The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones: Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

APPENDIX C

Summary of Asbestos Reports

Appendix C
Summary of Asbestos Reports

Asbestos Survey Results, Hughes Aircraft Missile Systems Group, Building 269
This document consists of only a table with sample numbers, sample locations, descriptions, analytical results, and friability. No text report or cover page was included with this document.

Based on a review of this document, materials that were sampled from Building 269 (no longer located at the Property) included: several types of ceiling tiles, ceiling tile mastic, door gasket, drywall, pipe elbow insulation, valve packing, pipe valve insulation, and duct tape. The materials found to contain asbestos included: door gasket in oven #1 in room 1570, pipe elbow insulation, valve packing, and pipe valve insulation in mezzanine 03.

Interdepartmental Correspondence, Hughes Aircraft Company, regarding an asbestos survey conducted by International Technology, Inc. (IT), dated June 27, 1989
This survey included portions of Buildings 262 (Building A) and 270 (Building C). Suspect ACMs sampled in Building 262 included pipe and elbow insulation, pipe insulation debris, drywall, ceiling tile, fireproofing, ceiling tile mastic, plaster, and duct tape. Materials that were found to contain asbestos included pipe and elbow insulation and associated debris, plaster, and drywall. One sample of the drywall material and two samples of the plaster material were found to contain a trace amount of asbestos. The remaining samples of these materials were found to be non-detect for asbestos. Suspect ACMs sampled and found to contain asbestos in Building 270 included valve and gauge insulation pipe and elbow insulation and related debris. It is not known if other materials were sampled in this building. The pipe, elbow, valve, and gauge insulation materials reportedly were rated in a condition of 2 to 6. The rating system appears to be qualitative with 1 (worst condition) to 7 (best condition).

Interdepartmental Correspondence, Hughes Aircraft Company, dated June 20, 1989
This document refers to Buildings 272, 274, and 279, however only information relating to Building 272 (no longer at the Property) was reviewed as part of this scope of work. The remaining buildings were not located at the Property. Suspect ACMs sampled in this building included: drywall and drywall mud material. No asbestos was detected in the samples analyzed. Vinyl floor materials were reportedly assumed to contain asbestos.

Asbestos Survey Buildings 261, 264, and 268, September 13, 1989

Only information for Building 268 (Building B) was reviewed from this report. The remaining buildings were not part of the Property. Suspect ACMs sampled as part of this survey included: pipe elbow insulation, pipe trap insulation, transite vent pipe, "clean out" insulation at the roof drain, plaster, drywall, ceiling tiles, and duct tape. It is not known if the joint compound associated with the drywall was sampled. Sampled materials that were found to contain asbestos included: pipe elbow insulation, "clean out" insulation, and transite vent pipe. The ACMs were reportedly observed in conditions from 2 to 6.

Hughes Interdepartmental Correspondence, dated November 7, 1989

This memorandum indicates that ACM was identified on "some water pipes above the ceilings, drain lines, and in duct chaseways" in Building 262 (Building A). These materials were reportedly planned for removal between November and December 1989. No abatement reports or closeout documents were available to confirm the removal activities.

Asbestos Sampling and Laboratory Testing of Wall & Ceiling Construction Materials in Building 262 and 265 at the Hughes Missile Systems Group Facility, by E&A Environmental Services, Inc. (E&A), dated February 18, 1994

Only information pertaining to Building 262 is included in this review. Building 265 is not a part of the Property. According to this report, plaster and button board materials were sampled due to damage that occurred during the 1994 earthquake. The table of laboratory results included in this report was not legible, however, the text portion indicates that asbestos was detected in the plaster material on the first floor east end stairwell of the building. The material was reported to be damaged, and repair was recommended.

Asbestos Bulk Sampling at The Hughes Missile Systems Group, Building 262 & 268, by E&A, dated April 29, 1994

According to this report, suspect ACMs that were sampled in each of the buildings included: ceiling tiles, floor tiles and associated mastic, vapor barrier, drywall and joint compound, pipe insulation, roofing materials, vibration damper, and exterior paint. Materials that were found to contain asbestos in each of the buildings included: various floor tiles and mastic, drywall joint compound, mastic on an exterior wall base, exterior wall paint, pipe insulation, and roof mastic. The majority of these materials were reported as being in good condition, with damage reported on some pipe insulation and drywall.

Asbestos Bulk Sampling at The Hughes Missile Systems Group, Building 270, by E&A, dated April 20, 1994

According to this report, the suspect ACMs sampled were roofing materials. Asbestos was detected in roof flashing and black mastic patches. These materials were reported as being in good condition.

Visual Asbestos Survey of the Facility Located at 8433 Fallbrook, Canoga Park, California, by Earth Tech, November 30, 1994

This survey includes Buildings 261, 263, 264, 265, 268, 274, 276, 277, and 281. Only those portions of the report related to Building 268 were reviewed. The remaining buildings were not located at the Property. The purpose of the survey reportedly was to inspect the known ACMs and note any change in condition. The building was previously surveyed by IT in 1989.

The report indicates that damaged materials were observed in Building 268. Some areas of this building were not inspected because they were unsafe (presumably from earthquake damage). No information on the types of ACMs or locations was included in the report. According to this report, the majority of the damaged and/or friable pipe insulation identified in various buildings (assumed to include Building 268) in the 1989 IT survey, had been removed. Floor tiles and associated mastic were assumed to contain asbestos during the 1989 survey and reportedly were still in place during this survey.

Asbestos Inspection Report #R970732-2, Coast Federal Bank Facility, Buildings 262, 268, 269, 270, 272 & 282, by J&H Environmental, Inc. (J&H), dated July 21, 1997

This inspection reportedly was conducted to verify the extent of abatement work that had been performed and to collect samples to confirm the existence of non-friable ACMs. As part of the inspection, J&H reviewed prior asbestos documents, dated from 1989 to 1994. The buildings were not occupied at the time of the inspection, due to earthquake damage.

According to the J&H report, flooring materials, drywall joint compound, pipe insulation, exterior stucco (paint), and roofing materials in Buildings 262, 268, 269, and 270 had been found to contain asbestos. Drywall joint compound and roofing materials in Building 272 had been found to contain asbestos, and none of the suspect materials sampled in Building 282 were found to contain asbestos.

Asbestos Inspection Report, Coast Federal Bank Facility, Buildings 262, 268, 269, 270, 272, & 282, by J&H, dated August 6, 1997

The findings of this report are similar to the July 21, 1997 J&H report, moreover, confirmation of the removal of pipe insulation was included in this report. Based on this report, the majority of accessible asbestos-containing pipe insulation had been removed and replaced with fiberglass.

Asbestos Abatement Observation Report, Bldg #268, Coast Federal Bank Facility, by J&H, dated April, 1998

According to this report, floor tiles and mastic were removed from Building 268 during March and April 1998. Clearance air sample results were within the allowable limits. The quantity of material removed is not included in the report.

Emergency Asbestos Clean Up, Patch and Repair Report, Westhills Corporate Village, Building 8521, by J&H, dated November 6, 1999

The cleanup referenced in this report consisted of asbestos pipe insulation and debris located in and near the HVAC system on the roof of Building 8521 (known as Building B). Repairs were also made to damaged pipe, tee, and elbow insulation. Clearance air sampling was conducted and the results were within the allowable limits.

Asbestos Inspection Report, West Hills Corporate Village, Buildings 8501 and 8531, by J&H, dated November 15, 1999

Suspect ACMs sampled as part of this inspection included pipe insulation, silver paint, roof mastic, and several types of insulation. The pipe insulation was found to contain asbestos, and the remainder of the materials were reported as not containing asbestos. J&H recommended abatement of the ACMs, due to the poor condition.

APPENDIX D

Summary of ENVIRON's Review of Previous Reports

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Summary of ENVIRON's Review of Previous Reports

Letter, dated July 12, 1988

The earliest dated document available for ENVIRON's review is a letter from Calscience Engineering & Laboratories, Inc. (CEL) dated July 12, 1988, regarding supplemental information on excavation pits T-3 and T-13 (both of which were located at the Property). The letter indicated that two USTs were closed by abandonment at the Hughes Aircraft Company Missile Systems Group Facility, Canoga Park (Site or Facility), that comprised an area much larger than that of the Property. The letter further indicated that pits were excavated in those areas to approximate depths of 23 feet and samples were collected from the bottom and sides of the pits, and were analyzed for total recoverable petroleum hydrocarbons (TRPH). The letter reported that analytical results showed minimal contamination in pit T-13, while elevated concentrations were detected in pit T-3, and therefore, the extent of contamination in that area had not been delineated.

Potential Source Area Investigation Report for the Hughes Missile Systems Group, Canoga Park, California, prepared by McLaren Hart (Mclaren), dated November 30, 1989

Mclaren indicated that the Site covers approximately 80 acres; the report indicated that a plan view of the Facility showing all areas of chemical use and concern was included (this figure was not included in the report, but was provide to ENVIRON by AMLGM). McLaren further indicted that operations at the Site began in 1959 under ownership and occupants other than Hughes. Hughes first occupied the Site in 1966, and was still operating at the Facility in 1989 (mainly research and development activities in fifteen buildings). Mclaren reported that the main chemicals of concern at the Site included paints, solvents, and petroleum products including oils, diesel and gasoline; corrosives were also used in printed wire board plating. Since 1959, storage tanks have been used at the Site, including twenty-nine ASTs used primarily for processed water storage, six active USTs used for diesel and gasoline storage, seven abandoned USTs previously used for storage of oils and solvents, two polypropylene lined concrete pits, and several areas for drum storage. The USTs reportedly had resulted in releases and have impacted the Site with benzene, trichloroethene (TCE), 1,1-dichloroethene (DCE), and 1,1-dichloroethane (1,1-DCA). Eight of the aforementioned USTs were located at the Property.

Mclaren indicated that the Facility had been investigated for potential sources of contamination and that 53 areas of concern were identified and detailed on a figure, which was later provided to ENVIRON by AMLGM.

The McLaren report included a brief summary of activities in each of the buildings at the Site; only those buildings currently or previously located at the Property are summarized below:

- Building 262: areas used for solvent cleaning, paint storage, coating and lubrication operations.

- Building 268: areas where solvents, lubricants, spray paint and ferric chloride are used, copper etching was also conducted. A clarifier has been active since 1982 and receives photographic lab waste.

- Building 269: areas used for cleaning, vapor degreasing, bonding, metal machining, plating, painting, etching, soldering, photographic developing and laboratory operations.

- Building 270: areas used for degreasing, soldering, solvent cleaning, bonding, laboratory operations.

- Building 272: solvents, acids, bases, caustic materials, flammable and nonflammable liquid storage.

- Building 282: garage with gasoline, motor oil, antifreeze, and kerosene use.

- Hazardous Waste Storage Shed or Area (HWSA): solvent storage.

In addition to tank T-3 area, Mclaren recommended investigations at five areas, all of which are located at the Property:

1) Waste neutralization sump P-2 (clarifier near former building 269)
2) Buildings 269/270 plating areas
3) Building 270 UST T-12
4) Building 272 chemical storage area
5) Former drum storage area east of building 272.

Radioisotope Review and Comparison for the Hughes Missile Systems Group Facility, Canoga Park, California, by Mclaren, dated July 30, 1991

It is not clear what prompted this study. Mclaren reported that the objective was to evaluate whether radioactivity levels observed in ground water beneath the Facility were consistent with background levels within the region.

Uranium was identified as a naturally occurring radioisotope in rock and soil in nearby formations. Mclaren also reviewed a summary of the reported radioisotopes concentrations in ground water in the San Fernando Valley Area. On a regional basis, gross alpha, gross beta, total uranium, and radium-226 were detected at mean concentrations ranging from 2 to 41, 3.7 to 11.9, 18.3, and 0.1 to 0.8 picoCuries per liter (pCi/L), respectively. These radioisotopes were detected in ground water at the Site in the following ranges: Gross alpha 2.5 to 43.4 pCi/L, gross beta 5.5 to 20.4 pCi/L, total uranium 1.0 to 49.7 pCi/L, and radium-226 from 0.1 to 1.9 pCi/L. The drinking water standards (maximum contaminant levels or MCLs) for these radioisotopes are: Gross alpha 15 pCi/L, gross beta 50 pCi/L, total uranium 20 pCi/L, and radium-226 5 pCi/L.

Mclaren indicated that, although rock deposits at the Site have not been tested for radioisotopes, research suggests that uranium and radium are naturally occurring in this area. Mclaren concluded that, although radioisotopes are slightly elevated at the Site in comparison to other parts of San Fernando Valley, the occurrence could be attributed to uranium in geologic deposits. Mclaren recommended continuing to monitor the on-site ground water for uranium and radium-226 on a quarterly basis.

Feasibility Study for Ground Water Remediation at Hughes Aircraft Company Missile System Group Facility, by Groundwater Technology Inc. (GTI), February 14, 1992

ENVIRON was only provided with the executive summary and some of the figures from this report; the reviewed portions did not detail the contaminants present at the Property. The purpose of GTI's feasibility study was to evaluate the remedial activities for ground water containing dissolved-phase volatile organic compounds (VOCs) at the Site (which included the Property).

Based on its calculations of the volume of dissolved VOCs present in the ground water at the northeast portion of the Site, the estimated transmissivity of the underlying aquifer, and using a numerical ground water modeling program, GTI indicated that the capture zones produced by pumping would be sufficiently large to capture and remediate the existing plume within 20 years. GTI further indicated that the ground water pump-and-treat system using liquid-phase carbon would

be the most appropriate remedial technology for this Site. GTI recommended installing a minimum of nine ground water recovery wells to fully contain of the dissolved-phase plume.

Investigation of Radioactivity in Groundwater at the Hughes Aircraft Company, Canoga Park Facility, Canoga Park, California, prepared by Groundwater Resources Consultants, Inc. (GRCI), dated January 23, 1992

GRCI indicated that it collected ground water samples from twenty-seven monitoring wells at the Site. Only the summary and recommendations section of this report was available for ENVIRON's review. GRCI indicated that based on the analytical results from monitoring wells at the Site, all adjusted gross alpha results were below the drinking water standards. Several samples had uranium concentrations that exceeded the proposed MCL; these were attributed to naturally occurring uranium in the region's soils.

Phase I Environmental Report: Areas of Potential Chemical Release to Soil and Ground Water, Hughes Missile Systems Company, prepared by GTI, dated December 28, 1993

This report indicated that thirteen USTs exist or existed at the Site. Based on available figures from other reports, eight USTs were present at the Property (Tanks T-1 to T-4, T-12 to T-14, and T-17). GTI indicated that there are reports documenting the removal of ten tanks (T-1 to T-3, T-5 to T-10, and T-13). T-4 reportedly was abandoned in-place. Soils in the vicinity of these tanks reportedly have been impacted by VOCs.

Two storage pits (likely referring to the clarifiers) are reported to be present immediately east of Building 269, Mclaren identified one of them as a source of contamination. Two large cooling ponds reportedly were present between Buildings 262/263 (outside the Property) and 268/269 (at the Property). Two main chemical storage areas were identified at the Site as Building 272 and the HWSA, both located at the Property.

Report on Facility-Wide Site Assessment, Hughes Missile Systems Company, prepared by GTI, dated January 4, 1994

GTI indicated that investigations have been conducted at the Site since early 1980s but have not been thorough. GTI reported that three areas of the Site are known to be contaminated: (1) Northwestern corner from Building 269 to western edge of the Site (northwestern part of the Property); (2) area of monitoring well CM-8D (outside the Property); and (3) area of monitoring well CM-10 (outside the Property). As part of this investigation, GTI installed seven additional monitoring wells (central and eastern portions of the Facility) and advanced twenty soil borings (near

former plating areas by Building 269, along main sewer line from pit P-2, on periphery of Building 270, and at four random locations). Ground water samples were collected from these seven wells and from three existing wells. Soil samples were analyzed for metals and VOCs.

GTI reported that based on soil sampling analytical results, there was no evidence of releases in the areas sampled. VOCs were detected, however, in the ground water. Freon 11 was detected in samples collected from well CM-10.

Corrective Action Plan Addendum, Hughes Missile Systems Company, prepared by GTI, dated March 29, 1994

The GTI report indicated that VOCs are present in ground water at concentrations exceeding 100 micrograms per liter (µg/L) at three main areas of the Site:

- Northwestern corner of the Facility from north of Building 269 to the extreme northwestern edge of the Site (total petroleum hydrocarbons in the gasoline range [TPH-g] has also been detected in ground water in this area; furthermore, soils in this area are impacted with VOCs and TPH-g). The area includes former Tanks T-1 and T-2 (vicinity of Building 282), and T-3 (near monitoring well M-1).

- Area around monitoring well CM-8D, where tanks T-5, T-6, and T-10 were previously located (outside the Property).

- Area around monitoring well CM-10, ground water impacted with Freon 11 (outside the Property).

The report indicated that an interim ground water remediation system is operating at the Site, and consists of recovery wells RW-1 to RW-5 (operating since early 1993). GTI indicated that this report offers an addendum to the corrective action plan (CAP) previously prepared in 1992. ENVIRON does not have a copy of the 1992 CAP, which reportedly outlined a phased approach to Site remediation, as follows:

- Phase I: Containing the ground water contamination to prevent off-site migration (installing and operating 5 recovery wells).

- Phase II: Continuing Site Assessment and conducting pilot testing of alternative remedial technologies.

- Phase III: Designing and implementing an expanded Facility-wide remediation system.

- Phase IV: Verifying that remediation objectives have been met and requesting Site closure.

GTI indicated that Phase I was partially completed because a system has been installed; however, the system had not been operated because extracted ground water was found to be high in total dissolved solids (TDS) and could not be discharged to the storm drain. Hughes was obtaining a permit from the Regional Water Quality Control Board – Los Angeles Region (LARWQCB) to reuse the extracted ground water for on-site irrigation.

GTI also indicated that a pilot test of vapor extraction, air sparging and ground water pumping was conducted in May 1993. Moreover, in August and October 1993, additional assessments reportedly were conducted at the Facility, and no additional source areas were identified. The main contaminants at the Site are TPH-g, 1,1-DCE, and TCE with maximum concentrations detected in ground water at 24,000, 5,100, and 310 µg/L, respectively. 1,1,1-trichloroethane (TCA), 1,1-DCA, and tetrachloroethene (PCE) were also detected at lower concentrations. The chlorinated VOCs reportedly were detected down to 25 to 30 feet below the ground water table. GTI proposed the following: Seventeen ground water recovery wells (some of which had already been installed as part of Phase I), twenty five vapor extraction wells, and twenty nine air sparging/vapor extraction combination wells. The recovery wells were proposed to be screened from 5 feet above to 35 feet below the ground water table. GTI proposed no remediation but only monitoring of ground water in the area of CM-8D.

The addendum to the CAP did not re-list the cleanup goals, reportedly established in the CAP.

Contingent Closure and Post Closure Plans, Hughes Aircraft Company, Missile Systems Group, Canoga Park Facility, prepared by CH2M Hill, dated November 21, 1994

The Department of Toxics Substances Control (DTSC) had requested a contingent closure plan for Tank T-3, which was permitted under the Resource Conservation and Recovery Act (RCRA) when it was removed in 1988. Two RCRA permitted facilities reportedly were present at the Site: the HWSA, and the Tank T-3 (both are located at the Property). CH2M Hill reported that all remedial activities at T-3 area will be completed during closure, therefore, post closure care is not anticipated.

The contingent closure plan indicated that soil remediation in the tank vicinity was conducted in accordance with the CAP and was detailed in the Final Report for Remediation of Former Tank T-3 Site (November 1991, ENVIRON has no copies). CH2M Hill further reported that soils were excavated in the area of this tank and confirmation soil samples were compared to RCRA Universal Treatment Standards (UTS) and found to be below these standards. Ground water, however, was found to contain 1,1-DCE, TCA, TCE and PCE above UTS. The ground water was being remediated under oversight from the LARWQCB.

Technical Memorandum Records Review and Limited Site Investigation, Hughes Missile Systems Company, prepared by Earth Tech, dated November 28, 1994

Earth Tech conducted the work for a potential buyer with the purpose of: (1) evaluating whether current or past environmental investigations and remedial actions carried out by Hughes sufficiently identified past environmental conditions; (2) evaluating whether Hughes adequately mitigated areas of environmental impacts; and (3) documenting the current regulatory status of the Site. The portion of the Site considered for purchase lies outside the Property (to the south) and includes Buildings 261, 263, 264, 265, 271, 274, 276, 277, and 281. The report reiterates the three main areas of contamination at the Site (same as those described in the GTI 1994 report).

Earth Tech also indicated that based on its reviews, the following additional concerns were identified at the Site: (1) Hughes was still in the process of obtaining regulatory closure for its hazardous waste storage building from DTSC. (2) Chemical staining and powder residues were noted in Building 272 at the Property. (3) No sampling has been conducted for drain lines inside buildings; however, based on sampling in outside areas, contamination would be expected to be minor. (4) Earth Tech recommended that Clarifiers P-1 and P-2 be removed. (5) Although all tanks have been removed, no closure letters were available. Earth Tech conducted supplemental soil sampling in areas of several former USTs (figure shows locations), which did not reveal additional sources of VOCs or TPH-g.

LARWQCB, Order Number 95-012, Waste Discharge Requirements for Hughes Missile Systems (File No. 94-45), dated December 14, 1994

The Order indicated that in 1985 Hughes discovered that soils and ground water at the Facility were contaminated with VOCs, and that the lateral and vertical extent of contamination is believed to have been defined. The Order also indicated that Hughes has prepared a CAP, which has been approved by the LARWQCB. The CAP indicates that shallow ground water will be pumped and treated on-site using activated carbon; the treated water would be reused on-site for irrigation purposes. The

Order lists maximum discharge limitations for treated water for benzene, toluene, ethylbenzene, and xylenes (BTEX), chlorinated VOCs, oil and grease, TDS, sulfate, chloride, and boron. The Order requires quarterly monitoring of ground water and treatment systems at the Site; in addition, an annual summary is required to be submitted to the LARWQCB in March of each year.

Proposed Negative Declaration for Hughes Missile Systems, Canoga Park Facility Closure Plan, prepared by DTSC and dated January 1995

The document was prepared by DTSC for the closure units: HWSA and Tank T-3 (both located at the Property). The negative declaration describes the closure requirements and indicates that Hughes will prepare a final closure certification report upon completion of the closure activities; and if acceptable, the DTSC will issue a letter approving the certification to release DTSC of its financial assurance responsibility; the DTSC, however, indicated that it could still impose additional corrective action to be addressed during post closure if any credible evidence is obtained indicating there are new solid waste management units at the Site.

Memorandum regarding Areas of Concern for Hughes Missile Systems Group, prepared by DTSC and dated February 1995

The memorandum outlines tentative solid waste management units (SWMUs) and areas of concern (AOCs), based on existing data to date. Only areas located at the Property are listed below:

- Buildings 272 and 282, which are located at the Property north of Building 270, were previously used for hazardous waste storage and identified as sources of chlorinated solvents contamination. These buildings are SWMUs that require remediation.

- Portions of Building 262 at the Property are considered AOCs because of the long history of chemical usage and because wells located semi-downgradient (CM-8d, CM-9d, and CM-18) have 1,1-DCE. Further evaluation is required.

- Building 268, located at the Property, had several areas of active chemical use. Well CM-12 is located approximately 100 feet downgradient of this building and has high concentrations of 1,1-DCE. According to DTSC, this building is considered an AOC and a soil gas survey should be conducted in this area.

- Building 269, located at the Property, has been identified as a source of soil and ground water contamination; however, according to DTSC, not all potential sources in this building

have been investigated; therefore, the building remained an AOC requiring additional investigations. DTSC requested that a soil gas survey be conducted in this area.

- Building 270, located at the Property, had several source areas. The DTSC indicated that investigations have been conducted outside the building; however, the building would still need to be considered an AOC requiring further evaluation with respect to the previous interior uses and waste disposal. The DTSC further indicated that a soil gas survey is required as an initial step to evaluate this AOC.

- Tanks T-1, T-2 and associated pump island are located near Building 272 at the Property, are considered SWMUs. Also tanks T-5, T-6, T-7, T-8, T-9, and T-10, which appear to be south of the Property (near Buildings 281 and 263) are considered SWMUs.

- Tank T-12, located at the Property south of Building 270, was used for storage of waste solvent. T-13 was also a short distance away from T-12; both are AOCs requiring further evaluation.

- Tank T-14 reportedly was located south of Building 269, and another tank T-16 is shown on a map south of Building 269; neither tanks are discussed and would be considered AOCs until further evaluation was completed by Hughes.

Report on Soil Gas Surveying at Former Hughes Missile Systems Company, Canoga Park, prepared by GTI, dated August 1, 1995

Only the results and discussions portion of this report was available for ENVIRON's review. VOCs were detected in most soil gas samples. It appears that GTI divided the Site into 5 areas, as follows:

Area 1: East of Building 269, no evidence that there is additional sources other than T-3, T-1 and T-2.

Area 2: South of Building 270, no evidence of sources in this area.

Area 3: Southwest of Building 263 (outside the Property), no evidence of sources in this area.

Area 4: Southeast of Building 263 (outside the Property), no clear source area was identified; therefore GTI was not able to point to the origin of contamination detected in well CM-8D.

Area 5: Southeast of Building 265 (outside the Property), a Freon anomaly was detected in this area and could be attribute to releases from the sewer lines.

Letter, dated October 12, 1995

In a letter dated October 12, 1995, the DTSC indicated that initially soil and ground water cleanup standards were established for the Site based on the lowest numbers produced from a health risk assessment, background measurement, or MCLs. However, since those cleanup levels were established, the LARWQCB has issued a Waste Discharge Requirement (WDR) permit with limitations that are lower than MCLs. The DTSC was requesting from the LARWQCB a determination regarding which cleanup goals to use for the Site.

Letter, dated January 26, 1996

In a letter dated January 26, 1996 to the LARWQCB, the DTSC was requesting confirmation of the lead agency for the corrective action conducted at the Site. The letter indicated that on November 28, 1995, DTSC and LARWQCB agreed to include the Site on the SB1082 list. However, back in August 1990, Hughes and DTSC had entered into a consent agreement and order wherein Hughes would comply with LARWQCB requirements for the ground water remediation and monitoring. The LARWQCB responded in a letter dated January 30, 1996 that it has no objections to the DTSC's request to be the lead agency. The LARWQCB, however, requested to be copied on all future correspondence/reports regarding this case.

Quarterly Ground Water Monitoring Report, Fourth Quarter 1995, by Groundwater Resources Consultants Inc. (GRCI), January 10, 1996

ENVIRON reviewed only a text summary of this report, which did not include figures and tables. GRCI reported that in December 1995, the depth to ground water measured at the Site ranged from approximately 10 feet to 63 feet below ground surface (bgs). During the period from September 1995 to December 1995, water levels generally declined in peripheral wells and rose in wells located in or near the reclamation well field.

GRCI reported that the direction of ground water flow in the shallow portion of the saturated zone was generally to the south and southwest, which was consistent with previously reported ground

water flow. Ground water extraction from reclamation wells in the northwest portion of the Facility was reported to have resulted in a cone of depression. The portions of the report reviewed by ENVIRON did not include analytical results from the sampling activities.

Groundwater Monitoring, Quarterly Report, January-March 1996, Hughes Missile Systems Company, by Groundwater Technology, dated March 27, 1996

Based on this report, a ground water recovery system was in operation at the Site. Seventeen recovery wells reportedly were pumping on a cyclic basis, thirty-four monitoring wells (located on and off the Property) were gauged monthly for depth to ground water, while sixteen monitoring wells were sampled on a quarterly basis. GTI reported that the recovery system was permitted for treatment of up to 22,000-gallons per day (gpd) of extracted ground water. On average 4,000 and 11,000 gpd were treated and reused on-site for irrigation purposes. GTI estimated that remediation of the ground water would be completed sometime between 2001 and 2003.

Based on the first quarter 1996 monitoring, the depth to ground water in shallow wells ranged from 12.78 to 46.40 feet bgs, and the gradient was to the southwest in the northwest portion of the Site and to the south-southeast in the remainder of the Site. Treated ground water effluent reportedly met the discharge requirements specified in the WDR permit. Quarterly ground water sampling results had detectable VOCs in two of the monitoring wells and in twelve of the recovery wells.

Letter, dated August 6, 1996

In a letter dated August 6, 1996, the DTSC approved the Negative Declaration for Hughes' closure plan.

Limited Review of Potential Environmental Impacts to Former Hughes Missile System Company, by AllWest Geoscience, Inc. (Allwest), dated October 11, 1996

This review, conducted by Allwest, included Buildings 262, 268, 270, 272, and 282, all of which are currently, or were previously, located on the Property. The review included a site visit, file reviews at local regulatory agencies, and review of previous documents pertaining to the Property.

Based on its review of previous reports and site visit, Allwest reported the following findings:

- The area of the Property beneath Building 269, and northward to the Property boundary has soil and ground water contaminated with chlorinated VOCs and TPH-g. At the time of Allwest's site visit, this area was undergoing remediation, which included ground water

pumping/treatment, air sparging, and soil vapor extraction (SVE)/treatment. Allwest indicated that GTI was conducting quarterly ground water monitoring at the Site.

- Six USTs were previously located at the Property, and were used for storage of gasoline, waste oil, hydraulic fluid, solvent waste, fuel oil, and water. The tanks reportedly had been removed, however at the time of Allwest's report, no formal closure documents were available from regulatory agencies (most likely would have to be obtained from the Fire Department).

- Two clarifiers, located to the east of Building 269, reportedly were closed in-place. Allwest recommended excavating and removing the clarifiers, as well as sampling the soils beneath these structures.

- A clarifier and a system of pits and trenches were located in Building 268 (current Building B). Allwest recommended removing the pits and trenches and sampling the soils beneath this area.

- Stained floor areas were observed by Allwest in Buildings 268 and 269. Allwest recommended that these areas be sampled for solvents and heavy metals.

- Based on the age of the buildings at the Site, Allwest recommended that asbestos surveys and a structural inspection be conducted in the buildings.

Operation & Maintenance Program, Former Hughes Site, Canoga Park, prepared by GTI, dated February 25, 1997

In a letter submitted to the LARWQCB, GTI described its remediation system and detailed the proposed monitoring and maintenance activities that would be conducted at the Site. The remediation is described to include a ground water recovery system consisting of 17 recovery wells (first started in February 1995 and fully operational since March 1995); the recovery wells are connected to a holding tank, followed by two liquid-phase granular activated carbon (GAC) vessels. The treated effluent is reused for on-site irrigation purposes. An SVE system, which has operated since August 1995, included 54 manifolded extraction wells, which were originally connected to a thermal oxidizer (permitted by the South Coast Air Quality Management District-SCAQMD). The thermal oxidizer was removed in October 1995 and replaced by four vapor-phase GAC vessels

(SCAQMD permitted). The air sparging system operated since March 1996 and consisted of 30 manifolded wells, which are connected to an air compressor.

Environmental Sampling and Testing under Floor Slabs and Clarifiers, Former Hughes Missile Systems Company, by Allwest, dated June 27, 1997

Following its review in 1996, Allwest conducted additional sampling at the Property. Allwest advanced four borings in the pit and trench areas of Building 268, two borings near the former solvent tank in Building 269, and four borings near the clarifiers at Building 269 (all at the Property). Soil samples were collected at a depth of 2 feet bgs in all areas except near the clarifiers where samples were collected at 8 feet bgs. The samples were analyzed for VOCs by EPA Method 8260 and CAM metals by EPA 7000 Series methods.

No VOCs were detected in the soil samples collected during this investigation. Moreover, metals were reported to be within naturally occurring background levels.

Summary Review of Environmental Documents, Former Hughes Missile Systems Company, by Allwest, dated July 10, 1997

The purpose of Allwest's review of environmental documents was (a) to evaluate whether current and past investigations and remedial actions were sufficient to identify environmental conditions at the Property, (b) to evaluate whether areas with environmental impacts have been adequately mitigated, and (c) to document the current regulatory status of the Property.

Allwest summarized the following findings:

- Soil and ground water remediation conducted in the northwestern area of the former Hughes site appeared to be several years from completion.

- All USTs had reportedly been removed, however tank closures had not been granted by regulatory agencies (in this case, the Fire Department) and would reportedly not be granted until "all soil and ground water remediation at the Site is completed."

- Although no detectable contamination was found from soil samples collected from the sides of the clarifiers located near Building 269, additional soil sampling was recommended if the clarifiers were to be removed during demolition of this building.

- Allwest recommended that the pits and trenches in Building 268 be backfilled with sand or slurry and covered with a concrete cap. Soil sampling in this area reportedly showed no detectable contamination.

- Soil sampling in areas below the former solvent tanks at Building 269 reportedly showed no detectable contamination due to solvents or heavy metals.

Allwest concluded that the "existing contamination poses no health threat and will not interfere with the occupancy of the exiting or proposed buildings, provided that requirements of the Remedial Action Plans" were followed.

Letter, dated November 14, 1997

In a letter dated November 14, 1997, DTSC discusses the RCRA closure issues at the Site, which included Hazardous Waste Management Units (HWMUs), Corrective Action SWMUs, and AOCs. The letter does not detail all the RCRA closures required at the Site. The letter, however, indicated that one of the HWMUs is the former HWSA, where much of the closure plan requirements had been implemented. DTSC also indicated that the ground water remediation conducted at the Site also was cleaning up contamination from the other HWMU at the Site (the former underground hazardous waste storage tank T-3). The remediation also was believed to be removing contamination from beneath SWMU #1 (Building 272) and SWMU#2 (Building 282). However, DTSC indicated that additional investigations still were required near many of the SWMUs and AOCs, and would be clarified in a future Corrective Action Order to be issued for the Site (anticipated to be issued in January 1998). Finally, the DTSC letter indicated that Tank T-3 will be subject to post-closure monitoring requirements under Title 22, Article 6.

Letter, dated January 9, 1998

In a letter dated January 9, 1998, DTSC approved the Corrective Action (Solid Waste Management Units and Areas of Concern) Plan (SWMU CAP) proposed by Hughes (ENVIRON has not copies of the SWMU CAP). The DTSC letter indicated that Hughes could proceed with the demolition and disposal of the HWSA. Again, DTSC required that Hughes submit a Post-Closure Operation Plan for the Tank T-3 HWMU.

Ground Water and Remediation System Monitoring, October-December 1997 Quarterly Report and 1997 Annual Report for Raytheon Missile Systems Company by Fluor Daniel GTI, February 20, 1998

This report summarizes the remediation and monitoring activities conducted at the Site in 1997. Fluor Daniel GTI (FD/GTI) monitored ground water conditions and maintained the remediation systems for Raytheon Missile Systems Company. As previously mentioned, the remediation system included ground water recovery/treatment, SVE/treatment, and air sparging.

FD/GTI indicated that approximately 6,800 pounds of VOCs including 500 pounds of chlorinated solvents had been removed since start-up. VOCs were detected in three of the ten ground water monitoring wells sampled on a semiannual basis (none located at the Property); VOCs were also detected in eleven of the seventeen recovery wells sampled on a semiannual basis (RW-1, RW-6 through RW-8, RW-10 through RW-12 and RW-14 through RW-17). Additional samples were collected semiannually from Wells RW-6 and RW-12 and analyzed for TPH-g and BTEX, which reportedly were not detected. VOCs were also detected in two of the twenty-four monitoring wells (CM-13 and CM-18, both located at the Property) sampled annually. Boron, sulfate, chloride and total dissolved solids were detected in the treated ground water effluent samples collected annually.

Letter, dated May 15, 1998

In a letter to Raytheon Missile Systems Company dated May 15, 1998, FD/GTI provided a summary of the status of on-going ground water and soil vapor treatments at the Site. Influent VOCs concentrations measured in the vapor stream were reported to reaching an asymptotic limit of 3 to 4 part per million by volume (ppmv).

FD/GTI reported that demolition and construction activities at the Site had damaged several components of the SVE and air sparging systems.

Letters, dated May 19, 1998 and June 18, 1998

In a letter dated May 19, 1998, the DTSC indicated that Raytheon was in violation of Title 22, because it had failed to provide DTSC with the required post closure plan for T-3. In a letter dated June 18, 1998, DTSC indicated to the LARWQCB that Hughes has not complied with its RCRA closure requests.

Letter, dated June 30, 1998

In a letter dated June 30, 1998, DTSC acknowledged the request for change of ownership at the Facility from Hughes to Raytheon.

Plan for Modification of Remediation the Systems at the Former Hughes Missile Systems Company, prepared by Errol L. Montgomery & Associates, September 16, 1998

Errol L. Montgomery & Associates (EM&A), reported that recent sampling had showed that VOCs concentrations were below the established ground water cleanup criteria in eight of the forty-three ground water monitoring wells sampled. The EM&A report included a table listing the established cleanup goals for soils and ground water at the Site. The ground water cleanup goals appeared to be 10 times greater than the MCL. Furthermore, based on the EM&A table, soil cleanup goals were not established for individual chlorinated VOCs at the Site; the table lists a total chlorinated VOCs cleanup goal of 100 milligrams per kilogram (mg/kg). Finally, the EM&A table did not list any established goals for hexavalent chromium.

EM&A proposed some modifications to the remediation system to expedite cleanup. Based on EM&A's recommendations, Raytheon planned to install additional wells in areas of the Site where concentrations of VOCs in ground water remained above the cleanup criteria. Raytheon also planned to deactivate sixteen air sparging wells, twenty-seven SVE wells and four ground water reclamation wells located at portions of the Site where concentrations of VOCs in ground water were consistently measured to be below the cleanup criteria. In addition, EM&A reported that Raytheon planned to continue pilot testing high-vacuum dual-phase treatment at selected ground water recovery wells.

Summary Report of Supplemental Sampling and Analysis Performed at the Locations of Former Buildings 269, 272, 282; Raytheon Former Canoga Park Facility, Canoga Park, California, by Raytheon Systems Company, dated October 5, 1998

Raytheon prepared and submitted this letter report summarizing recent sampling events conducted by FD/GTI to DTSC. The letter indicated that no metals were detected in these areas above background levels. VOCs impacted soils and ground water were encountered in an area where metal working, finishing, and cleaning operations were known to have occurred within the former Building 269. FD/GTI recommended additional sampling along the western boundary of this area to further delineate the contamination plume. FD/GTI also recommended increasing the number of recovery wells to expedite cleanup, as outlined in the Plan for Modification of Remediation Systems dated September 16, 1998.

Previous sampling conducted by Allwest Geosciences in 1998 concluded that "there have been no environmental impacts from VOCs or metals to subsurface soil directly under the concrete floor slabs or adjacent to the clarifiers due to leaks or migration of contaminants through the concrete slabs." This sampling addressed the following SWMUs and AOCs:

- SWMU#1: Building 272
- SWMU#2: Building 282
- SWMU#3: Building 269, Pits 1 and 2
- AOC#13: Tank T-14

Therefore, Raytheon requested that DTSC remove these SWMUs and AOC from its RCRA Closure requirements (no indication whether DTSC approved this request).

Results of Follow-up Sampling and Analysis, Conducted September 21, 1998, in the HWSA, by FD/GTI, dated October 30, 1998

The FD/GTI sampling was conducted in accordance with a workplan submitted to the DTSC in August 1998 and revised in September 1998.

FD/GTI indicated that the demolition of the former HWSA started in June 1998, and included soil excavation and backfilling. Soil samples reportedly were collected from the walls and floor of the excavation in this area prior to its backfilling. Hexavalent chromium was previously detected at concentrations exceeding the DTSC approved closure plan level of 0.19 mg/kg in the acid and alkaline storage bays of the former HWSA. The purpose of the follow-up sampling conducted by FD/GT was to assess the lateral and vertical extent of hexavalent chromium in subsurface soils beneath the former HWSA. FD/GTI drilled five soil borings: three within the former HWSA, one to the south of the area and one to the east of the area. Samples were collected at depths of 13, 19, and 27 feet bgs within the former HWSA and at depths of 2, 5, 13, 19, and 27 feet bgs at the adjacent areas.

Samples from the former HWSA were analyzed for hexavalent chromium using EPA Method 7196, total organic carbon (TOC) using Test Method SM 5310B, total iron (Fe) using EPA Method 601D, ferrous iron using Test Method SM3500-Fe D, and manganese using EPA Method 6010. The samples collected south and east of the former HWSA were analyzed for hexavalent chromium only. Hexavalent chromium was detected at concentrations ranging from non-detect to 78 mg/kg. The highest detections were encountered at a depth of 19 feet bgs. The TOC concentrations ranged from

1,420 mg/kg to 16,400 mg/kg, the total Fe ranged from 8,800 mg/kg to 26,000 mg/kg, the ferrous Fe was non-detect for all samples analyzed, and the manganese concentrations ranged from 47 mg/kg to 480 mg/kg.

FD/GTI did not recommend any additional subsurface investigation or soil removal because the hexavalent chromium contaminated soils were encountered at minimal depths of 5 to 13 feet bgs. Furthermore, FD/GTI indicated that future grading in this area would raise the ground surface by approximately 5 feet. Therefore, FD/GTI did not believe that the hexavalent chromium encountered in the soils would pose a health threat. FD/GTI recommended sampling monitoring wells located up- and down-gradient of the former HWSA for hexavalent chromium on a quarterly basis for a period of one year to evaluate whether the impacted soils would result in impact to ground water.

Summary Review of Environmental Documents and Potential Environmental Impacts, Building A (Former Building 262), West Hills Corporate Village; prepared by Allwest, dated January 15, 1999
Allwest indicated that based on a 1995 Facility inspection and subsequent document review, the DTSC had concerns that the past usage of solvents may have impacted the soils at the sewer lines connecting to the main sewer from Building 262 (now Building A). Allwest indicated that Hughes was responding to DTSC's recommendations for additional investigations in this area. Allwest further reported that Hughes cleaned and washed down Building A prior to its remodeling. Building A is not captured by the current remediation system at the Property, but no source areas have been identified in this building, to date. Tank T-4 was located at the southeast corner of this building. Although all tanks have been removed, as previously mentioned, closure would not be issued until ground water remediation is completed at the Site. Allwest concluded that environmental conditions at Building A have been adequately characterized and would not interfere with future occupancy of Building A.

Letter, dated January 20, 1999
In a letter dated January 20, 1999, the LARWQCB approved Hughes' request to deactivate select air sparging, SVE, and ground water reclamation wells in areas of the Site where VOCs have been consistently detected at concentration below the established cleanup criteria. The LARWQCB also approved the installation of five additional recovery wells to prevent off-site migration of contaminants in the northwestern part of the Site.

Letter, dated January 21, 1999

In a letter dated January 21, 1999 and marked as URGENT, the DTSC expressed concerns over planned demolition and development activities at the Facility, which may affect areas considered to be SWMUs, AOCs or HWMUs; DTSC considered activities such as grading, demolition or development as unauthorized and would proceed with legal action against Raytheon and Regent Properties, Inc. DTSC requested that the Site owners/developers contact the Attorney General's office for further information.

Letter, dated January 26, 1999

In a letter dated January 26, 1999, Raytheon responded to DTSC and indicated that it does not plan to conduct redevelopment activities in areas of the Site considered to be SWMUs, HWMUs or AOCs. However, Raytheon indicated that it has requested closure of some of these areas from DTSC and has not received a response to date.

Ground Water and Remediation System Monitoring October-December 1998 Fourth Quarter and 1998 Annual Summary, prepared by IT Corporation (IT), dated February 20, 1999

During 1998, IT monitored remediation activities at the Site. The ground water recovery system generally remained at full operating capacity during 1998. The treated effluent was monitored weekly to ensure compliance with limits set by the LARWQCB. Sixty-nine monitoring and vapor extraction wells were gauged quarterly. Ten perimeter monitoring wells and seventeen recovery wells were sampled on a semiannual basis and analyzed for VOCs. During 1998, VOCs were detected in ten of the seventeen recovery wells (RW-1, RW-3, RW-7 RW-10 through RW-12, and RW-14 through RW-17). Additional samples were collected semiannually from wells RW-6 and RW-12 and analyzed for TPH-g and BTEX, which were not detected.

The high-vacuum, dual-phase extraction system were applied to targeted ground water recovery wells RW-1, RW-10, RW-11, RW-14 and RW-15. The evaluation period demonstrated that ground water recovery and vapor-phase volatile organics transport temporarily increased following application of the vacuum.

Letter, dated March 12, 1999

In a letter dated March 12, 1999, DTSC indicated that Raytheon's approach thus far of investigating small portions of the Facility and submitting such data to DTSC for closure of SWMUs or AOCs was not adequate. DTSC was requiring a RCRA Facility Investigation Workplan, which summarized all SWMUs, AOCs, and HWMUs identified at the Facility and investigations and corrective actions

conducted to date. DTSC would then work with Raytheon to prioritize these areas. However, since Raytheon had elected to stop its fee-for-service agreement with DTSC, DTSC staff could not perform significant work on the corrective action activities. DTSC further indicated that Raytheon was in violation of requirements to submit post-closure permit application for Tank T-3. Finally, DTSC indicated that Raytheon's plan to keep hexavalent chromium contaminated soils in-place and monitor the ground water in this area was not acceptable.

Letter, dated March 25, 1999

Raytheon responded to DTSC's comments in a letter dated March 25, 1999 and indicated that much of the data gaps referred to by DTSC had been filled in reports recently submitted to DTSC.

Additional Site Assessment Report, Sampling and Analysis at Former Building 269, Former Raytheon Systems Company, prepared by IT, dated April 1999

According to the IT report, this work included sampling soil and ground water in five temporary ground water wells in the location of former Building 269. The samples were analyzed for VOCs, and none were detected in the soil samples and ground water samples from four of the wells. PCE and TCE were detected in ground water samples collected from one of the wells at the respective concentrations of 5.1 and 13 µg/L.

IT concluded that the contamination was confined to an area of former metal working, finishing, and cleaning operations, and was being addressed by the on-going ground water and soil remediation. Therefore, no additional sampling was recommended in this area.

Letter, dated June 11, 1999

In a letter dated June 11, 1999, the LARWQCB approved Raytheon's request to modify the ground water remediation system at the Facility. The LARWQCB also permitted Raytheon to deactivate some of the air sparging/vapor extraction wells and the ground water extraction wells at the Facility. The pilot testing of the dual-phase treatment system at selected ground water recovery wells was to be continued. The letter also indicated approval of the modification plan to install additional wells in the areas of the Site where VOC concentrations in the ground water remain above the cleanup criteria.

Letter, dated July 22, 1999

In a letter dated July 22, 1999, DTSC reiterated that Raytheon has failed to provide the required closure and post-closure permit application for HWMUs at its Facility.

Letter, dated August 17, 1999

In a letter dated August 17, 1999, Raytheon indicated that it has agreed to include hexavalent chromium in its semiannual sampling events. Hexavalent chromium had been detected in ground water samples collected from Well RW-15 (located at the Property).

Letter, dated August 19, 1999

In a letter dated August 19, 1999, Raytheon responded to DTSC's July letter and indicated that it was making a diligent effort to meet the approved closure requirements for the HWSA.

Environmental Health Concerns, Planned Building D, West Hills Corporate Center, prepared by Allwest, dated September 13, 1999

This report concluded that with the continued operation of the ground water remediation system, there were no environmental impacts on the health or safety of the occupants of planned Building D. Allwest did not conduct a health risk assessment, rather it based its conclusion on the low concentrations of VOCs detected in near surface soils in this area.

Quarterly Remediation System and Ground Water Monitoring Report, July-September 1999, Third Quarter, Raytheon Company, Canoga Park, California, prepared by IT, dated October 1999

The remediation system continued to operate as described in previous monitoring reports. Samples were collected as part of a rebound sampling effort approved by the LARWQCB. VOCs were detected in both ground water and soil gas samples collected during this sampling event.

Hexavalent chromium was detected in three ground water samples collected from Well RW-15, with concentrations ranging from 0.083 to 0.1 milligrams per liter (mg/L). Hexavalent chromium was not detected in the remaining five ground water wells that were sampled during this event (CM-16, M-1, MW-17, RW-13 and RW-16). Upon detection of hexavalent chromium, RW-15 was disconnected from the remediation system and the LARWQCB and DTSC were notified. RW-15 is located adjacent to the former HWSA.

Letter, dated October 27, 1999

In a letter dated October 27, 1999, DTSC indicated that based on available records it does not appear that releases have occurred in the area of the proposed Building D at the Facility and therefore, DTSC did not believe that further investigations or remediation were required in this area prior to the construction of the new building.

Letters, dated December 16, 1999 and January 7, 2000

In a letter dated December 16, 1999, the LARWQCB approved Raytheon's request to install additional ground water monitoring wells as proposed in a letter dated December 10, 1999. Three wells were proposed in areas close to the former HWSA. However, in a letter dated January 7, 2000, DTSC indicated that the proposed workplan was inadequate for accurately determining the nature and extent of releases from the HWSA. The DTSC requested that a rationale be provided for the number, design and placement of ground water monitoring wells, as well as boring logs for nearby wells to justify design protocols.

Letters, dated April 13, 14, and 20, 2000

In letters dated April 13 and 20, 2000, the LARWQCB approved a proposed pilot test plan to evaluate a treatment system for the hexavalent chromium, detected in the ground water at Well RW-15. However, in a letter dated April 14, 2000, DTSC indicated that a workplan that was submitted for the delineation of contamination in the former HWSA was inadequate.

Environmental Impacts, West Hills Corporate Village, prepared by Allwest, dated June 14, 2000

Allwest indicated that its report conclusions are based on several conversations with DTSC and the LARWQCB staff regarding potential environmental health concerns at the Property (Buildings A to D). Moreover, Allwest reviewed select documents pertaining to previous investigations and monitoring conducted at the Property.

1,1-DCE, 1,1-DCA, PCE and TCE were noted as the primary VOCs of concern in the ground water at the Property. The ground water undergoing remediation is at depths of 30 to 40 feet bgs; the lead agency for the remediation is the LARWQCB; while the DTSC is the lead agency for RCRA closure at the Site. Allwest reported that the ground water remediation was progressing to the satisfaction of the LARWQCB. DTSC, however, had remaining concerns regarding identification of all sources of soil and ground water contamination and closure of SWMUs and other AOCs. According to Allwest, Raytheon was actively working with DTSC to address these concerns.

Allwest reported that, with the exception of delineating the hexavalent chromium contamination near the HWSA, adequate soil and ground water investigations had been conducted near the buildings.

Allwest concluded that based on available information, there were no anticipated health or safety impacts on occupants of the buildings.

Ground Water and Remediation System Monitoring October-December1999, Fourth Quarter, and 1999 Annual Report, prepared by IT, and dated August 2000

IT reported that treated ground water effluent continued to meet all discharge requirements specified in the WDR permit with the exception of naturally occurring boron. The treated ground water was reused on-site for irrigation purposes. Influent concentrations of petroleum fuel hydrocarbons had decreased over time to below laboratory detectable levels. Influent concentrations of halogenated VOCs (mainly TCA, 1,1-DCA and TCE) had also decreased over time.

The ground water flow gradient had remained relatively constant, with some anomalies in the northwestern portion of the Site due to fluctuations in the operation of the pumping wells.

Due to redevelopment activities, the SVE and air sparging systems were shut down since December 1998. As of December 1999, the SVE system, which had been operating since August 1995, was estimated to have removed 7,400 pounds of VOCs from the vadose zone. Influent concentrations of TPH-g and chlorinated VOCs had decreased over time.

During the second quarter of 1999, IT initiated a rebound sampling effort as described in the LARWQCB-approved Plan for Modification of Remediation Systems dated September 16, 1998. The main wells where VOC concentrations exceeded cleanup criteria were located along the northern boundary of the Site or in the vicinity of the eastern portion of the former Building 269. 1,1-DCE and 1,2-dichloroethane (1,2-DCA) were the main contaminants detected above their respective cleanup criteria. Soil gas samples were also collected during the third and fourth quarters of 1999. The main contaminants detected in the soil gas samples were 1,1-DCE and TCE.

Hexavalent chromium was detected in ground water samples collected from RW-15 with concentrations ranging from 0.083 to 0.1 mg/L. Hexavalent chromium was also detected in one of the ground water samples collected from Well M-1, at a concentration of 0.02 mg/L. This was the first occurrence of hexavalent chromium in this well, which is not connected to the ground water recovery system. Hexavalent chromium was not detected above the laboratory detection limit of

0.01 mg/L in the remaining four wells sampled in 1999. The six wells selected for hexavalent chromium sampling surround the former HWSA. A workplan to delineate the boundaries of hexavalent chromium in ground water and soil in the vicinity of the former storage area was developed and submitted to the DTSC.

Annual Ground Water Monitoring and Ground Water Remediation System Report January-December 2000, prepared by TN & Associates, Inc., dated January 29, 2001

TN & Associates, Inc. (TN&A) conducted annual ground water sampling and remediation system monitoring for 2000. As of December 2000, ten recovery wells were still pumping; four recovery wells were shut down during the first quarter of 2000 due to continuously low VOCs concentrations. Recovery well RW-15 was shut down during the second quarter of 2000 due to the presence of hexavalent chromium.

The SVE and air sparging systems were not in operation in 2000 because of Site demolition and construction activities.

The main contaminant detected in the influent samples to the ground water treatment system was DCE. Other VOCs detected in the influent ground water samples included: benzene, 1,1-DCA, 1,2-DCA, PCE, TCA and TCE. No VOCs were detected in the effluent samples. DCE was also detected in nine of the monitoring wells and four of the recovery wells at concentrations ranging from 110 to 1,900 µg/L (exceeding the CAP cleanup criteria of 60 µg/L). Other VOCs detected above their respective cleanup criteria were benzene, 1,2-DCA, and TCE.

A pilot test was completed at recovery well RW-15 in May of 2000 to test the effectiveness of the existing system in treating hexavalent chromium. It is not clear how the existing system of carbon vessels would be adequate in treating hexavalent chromium. The pilot test results reportedly showed that the existing remediation system was adequate for treating the hexavalent chromium plume. Nonetheless, RW-15 remained shut off until all the data and options for addressing the hexavalent chromium concentrations were evaluated.

In order to evaluate the extent of hexavalent chromium contamination, TN&A advanced four borings in the vicinity of the former HWSA area to total depths of 55 to 60 feet bgs. One of the borings was drilled through the footprint of the former HWSA and the other three were drilled adjacent to the former HWSA area in up-, cross-, and down-gradient locations. Nested monitoring wells were installed at each of the four locations, and were screened from 35 to 45 feet and 50 to 55 bgs.

Hexavalent chromium was detected in all ground water samples at concentrations ranging from 0.03 µg/L in the deep ground water zone to 120 µg/L in the shallow ground water zone.

Semiannual Ground Water Monitoring and Ground Water Remediation System Report, prepared by TN&A, dated September 12, 2001

TN&A summarized the semiannual ground water monitoring and remediation for January to June 2001. Concentrations of DCE for the first and second quarter 2001 influent samples were 290 µg/L and 220 µg/L, respectively. Other VOCs detected in the influent samples included: benzene, 1,1-DCA, 1,2-DCA, PCE, TCA and TCE. No VOC concentrations were detected in any of the effluent samples.

Weekly influent organic vapor readings from the SVE system ranged from 1 to 3 ppmv. Trace concentrations of DCE (0.19 ppmv), and TCA (0.75 ppmv), were the only contaminants detected in the monthly Tedlar bag samples collected from the influent vapor to the SVE system.

In June 2001, seven of the fourteen recovery wells sampled had DCE concentrations ranging from 100 to 800 µg/L, exceeding the CAP ground water cleanup goal of 60 µg/L. The sample from RW-6 had a benzene concentration at 2.5 µg/L, exceeding the CAP cleanup goal of 1 µg/L and the sample from well RW-14 had a 1,1-DCA concentration at 5.2 µg/L, exceeding the CAP cleanup goal of 5 µg/L.

TN&A was planning to implement a ground water sampling and analysis plan for the HWSA to monitor hexavalent chromium in the ground water. As of September 2001, the plan was still under review by DTSC.

Results of Quarterly Groundwater Monitoring, Former Hazardous Waste Storage Area; Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California, prepared by TN&A, dated January 23, 2002

TN&A reported the results of ground water monitoring for hexavalent chromium near the former HWSA. Eight wells, seven of which were installed in June of 2000, were monitored. Ground water levels were measured on October 29, 2001 and ground water samples were collected from the eight wells on October 29 and November 1, 2001. Hexavalent chromium concentrations ranged from less than 0.1 µg/l to 370 µg/l. The highest concentrations were found in the samples collected from wells MW-32S and MW-32D, both located within the footprint of the former HWSA.

APPENDIX E

Indoor Air Monitoring Results, Calculations and Laboratory Data Reports

Table 1
Exposure Calculations

SUMMARY OF DETECTED VOCS, OSHA PELS, AND PROPOSITION 65 NSRLS AND MADLS

Compounds Name	CAS Number	Molecular Weight (g/gmol)	OSHA PELs 8-hr Permissible Exposure Levels (ug/m^3)	Prop 65 Listed?	Prop 65 NSRL[4] (ug/day)	Prop 65 MADL[4] (ug/day)
Acetone	67641	58.1	2,400,000[3]	no	NA	NA
Benzene	71432	78.1	3,190 (1 ppm [2]) 31,900 (10 ppm [3])	yes, cancer	7.0	NA
Chloromethane	74873	50.5	207,000 (100 ppm [2])	yes, developmental	NA	not established[5]
Methylene Chloride	75092	84.9	86,750 (25 ppm [2])	yes, cancer	200.0	NA
2-Butanone	78933	72.1	590,000[3]	no	NA	NA
o-Xylene	95476	106.2	435,000[3]	no	NA	NA
Ethylbenzene	100414	106.2	435,000[3]	no	NA	NA
4-Methyl-2-Pentanone	108101	100.2	410,000[3]	no	NA	NA
Toluene	108883	92.1	754,000 (200 ppm[2],[3])	yes, developmental	NA	7000.0
Tetrachloroethene	127184	165.8	687,000 (100 ppm [2],[3])	yes, cancer	14.0	NA
Methyl-t-Butyl Ether (MTBE)	1634044	88.1	(not established)	no	NA	NA
p/m-Xylene	13302071/ 136777612	106.2	435,000[3]	no	NA	NA

Building A Compounds Name	Measured Concentrations A1 (ug/m^3)	A2 (ug/m^3)	A3 (ug/m^3)	Average Concentration (ug/m^3)	Is conc. above PEL ?	Daily Intake[1] ug/day	Is intake above Prop65 NSRL or MADL?
Acetone	38.0	45.0	40.0	41.0	no	410	NA
Benzene	3.2	3.7	3.3	3.4	no	34	yes, NSRL
Chloromethane	1.9	1.6	1.7	1.7	no	17	unable to compare[6]
Methylene Chloride	2.2	2.4	2.1	2.2	no	22	no
2-Butanone	5.4	6.1	5.2	5.6	no	56	NA
o-Xylene	2.2	2.8	2.5	2.5	no	25	NA
Ethylbenzene	1.9	2.3	2.2	2.1	no	21	NA
4-Methyl-2-Pentanone	ND	3.2	1.8	2.5	no	25	NA
Toluene	14.0	14.0	18.0	15.3	no	153	no
Tetrachloroethene	2.6	2.3	2.3	2.4	no	24	yes, NSRL
Methyl-t-Butyl Ether (MTBE)	8.9	10.0	9.3	9.4	NA	94	NA
p/m-Xylene	ND	7.3	6.8	7.1	no	71	NA

Sample ID Nos.: A1 (#01109); A2 (#01500); A3 (#01187)

Building B Compounds Name	Measured Concentrations B1 (ug/m^3)	B2 (ug/m^3)	B3 (ug/m^3)	Average Concentration (ug/m^3)	Is conc. above PEL ?	Daily Intake[1] ug/day	Is intake above Prop65 NSRL or MADL?
Acetone	34.0	37.0	34.0	35.0	no	350	NA
Benzene	3.3	3.4	3.3	3.3	no	33	yes, NSRL
Chloromethane	ND	1.7	1.5	1.6	no	16	unable to compare[6]
Methylene Chloride	2.1	2.3	2.0	2.1	no	21	no
2-Butanone	5.3	9.7	4.8	6.6	no	66	NA
o-Xylene	2.2	2.2	2.1	2.2	no	22	NA
Ethylbenzene	1.7	1.9	1.8	1.8	no	18	NA
4-Methyl-2-Pentanone	4.3	12.0	2.3	6.2	no	62	NA
Toluene	12.0	14.0	12.0	12.7	no	127	no
Tetrachloroethene	1.6	1.9	1.7	1.7	no	17	yes, NSRL
Methyl-t-Butyl Ether (MTBE)	8.8	9.0	8.8	8.9	NA	89	NA
p/m-Xylene	5.6	5.9	5.5	5.7	no	57	NA

Sample ID Nos.: B1 (#00357); B2 (#01162); B3 (#01605

Table 1
Exposure Calculations

Building C	Measured Concentrations		Representative	Is conc.	Daily	Is intake
	C1	C2[7]	Concentration	above	Intake[1]	above Prop65
Compounds Name	(ug/m^3)	(ug/m^3)	(ug/m^3)	PEL ?	ug/day	NSRL or MADL?
Acetone	30.0	27.0	30.0	no	300	NA
Benzene	3.5	ND	3.5	no	35	yes, NSRL
Chloromethane	ND	ND	NA	no	NA	NA
Methylene Chloride	2.1	ND	2.1	no	21	no
2-Butanone	4.2	ND	4.2	no	42	NA
o-Xylene	3.6	ND	3.6	no	36	NA
Ethylbenzene	2.4	ND	2.4	no	24	NA
4-Methyl-2-Pentanone	6.7	ND	6.7	no	67	NA
Toluene	13.0	14.0	13.0	no	130	no
Tetrachloroethene	1.8	ND	1.8	no	18	yes, NSRL
Methyl-t-Butyl Ether (MTBE)	9.7	8.7	9.7	NA	97	NA
p/m-Xylene	8.5	ND	8.5	no	85	NA

Sample ID Nos.: C1 (#01326); C2 (#01132)

Building D	Measured Concentration	Representative	Is conc.	Daily	Is intake
	D1	Concentration	above	Intake[1]	above Prop65
Compounds Name	(ug/m^3)	(ug/m^3)	PEL ?	ug/day	NSRL or MADL?
Acetone	32.0	32.0	no	320	NA
Benzene	3.6	3.6	no	36	yes, NSRL
Chloromethane	ND	NA	no	NA	NA
Methylene Chloride	2.1	2.1	no	21	no
2-Butanone	4.2	4.2	no	42	NA
o-Xylene	2.4	2.4	no	24	NA
Ethylbenzene	1.9	1.9	no	19	NA
4-Methyl-2-Pentanone	ND	NA	no	NA	NA
Toluene	13.0	13.0	no	130	no
Tetrachloroethene	1.9	1.9	no	19	yes, NSRL
Methyl-t-Butyl Ether (MTBE)	10.0	10.0	NA	100	NA
p/m-Xylene	6.2	6.2	no	62	NA

Sample ID No.: D1 (#01277)

Notes:

[0] Each sample was obtained using SUMMA canister and 8-hour flow controller; samples were analyzed by EPA Method TO-15.

[1] Intake = Maximum Concentration * Occupational Breathing Rate

10 m^3/day; 8-hr Occupational Breathing Rate,

[2] NIOSH Pocket Guide to Chemical Hazards; June 1997; OSHA Permissible Exposure Level (PEL) 8-hr time weighted average (TWA).

[3] Limits for Air Contaminants. - 29 CFR 1910.1000 TABLE Z-1 and Table Z-2; August 4, 1997.

[4] Proposition 65 Status Report, No Significant Risk Levels (NSRL) for Carcinogens and Maximum Allowable Daily Levels (MADL) for Chemicals Causing Reproductive Toxicity; February 2001.

[5] The MADL has not been established for Chloromethane. It is on the 3rd priority list, which is not likely to be developed for at least 3 years from February 2001.

[6] The California Office of Environmental Health and Hazard Assessment (OEHHA) has not established a chronic Reference Exposure Level (REL) for Chloromethane.

[7] This sample did not obtain a reasonable amount of sample air; hence, the detection limits were roughly 5 times higher.

C:\windows\TEMP\[MEPT_measurements.xls]VOCs

Table 2
Cancer Risk Calculations under Proposition 65

Carcinogenic Risk Calculations for Inhalation Pathway:

Risk = CPS x Dose

where,

Risk - Cancer Risk, 1×10^{-5} (Proposition 65 No Significant Risk Level)

CPS - Cancer Potency Slope, $(mg/kg\text{-}day)^{-1}$, OEHHA, December 2001

Dose, mg/kg-day = (C x IR x EF x ED x CF) / (BW x AT)

C - Concentration in air, ug/m^3 (maximum measured level indoor)

IR - Inhalation Rate - 20 m^3/day for adults and adolescents (24 hrs/day),

Note: half the daily-IR will be used to represent 8 hrs/day due to activity.

EF - Exposure Frequency - 250 days/year for workers (5 days/wk and 50 wks/yr)

ED - Exposure Duration - 20.1 years for workers

CF - Conversion Factor (0.001 mg/ug)

BW - Body Weight - 70 kg for adults

AT - Averaging Time, 25550 days for lifetime

SUMMARY OF OCCUPATIONAL EXPOSURE SCENARIOS

Building A - Adult Workers (8 hours/day, National Median: 20.1 years*):

	Risk	CPS	Dose	C	IR	EF	ED*	CF	BW	AT
Benzene	**9.55E-06**	1.0E-01	9.6E-05	3.4	10	250	20.1	0.001	70	25550
Tetrachloroethene	**1.42E-06**	2.1E-02	6.7E-05	2.4	10	250	20.1	0.001	70	25550

Building B - Adult Workers (8 hours/day, National Median: 20.1 years*):

	Risk	CPS	Dose	C	IR	EF	ED*	CF	BW	AT
Benzene	**9.37E-06**	1.0E-01	9.4E-05	3.3	10	250	20.1	0.001	70	25550
Tetrachloroethene	**1.02E-06**	2.1E-02	4.9E-05	1.7	10	250	20.1	0.001	70	25550

Building C - Adult Workers (8 hours/day, National Median: 20.1 years*):

	Risk	CPS	Dose	C	IR	EF	ED*	CF	BW	AT
Benzene	**9.83E-06**	1.0E-01	9.8E-05	3.5	10	250	20.1	0.001	70	25550
Tetrachloroethene	**1.06E-06**	2.1E-02	5.1E-05	1.8	10	250	20.1	0.001	70	25550

Building D - Adult Workers (8 hours/day, Construction Worker: 2 years):

	Risk	CPS	Dose	C	IR	EF	ED**	CF	BW	AT
Benzene	**1.01E-06**	1.0E-01	1.0E-05	3.6	10	250	2	0.001	70	25550
Tetrachloroethene	**1.12E-07**	2.1E-02	5.3E-06	1.9	10	250	2	0.001	70	25550

*Source: *U.S. EPA Exposure Factors Handbook Volume III - Activity Factors, Table 15-158*. EPA/600/P-95/002Fc, August, 1997.

** Building D is currently under construction.

C:\windows\TEMP\[MEPT_measurements.xls]Inh Cancer Risk (EPA)

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LABORATORY REPORT

Client:	Environ International Corporation	Date of Report:	03/07/02
Address:	707 Wilshire Blvd., Suite 4950	Date Received:	02/28/02
	Los Angeles, CA 90017	PAI Project No:	P2200394
Contact:	Ms. Debbie Scanlon	Purchase Order:	Verbal

Client Project ID: MEPT / Canoga Park

Nine (9) Stainless Steel Summa Canisters labeled:

"C1" "C2" "D1" "A1" "A2" "A3" "B1" "B2" "B3"

The samples were received at the laboratory under chain of custody on February 28, 2002. The samples were received intact. The client requested and received 3 day rush results. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time that they were received at the laboratory.

Volatile Organic Compound Analysis

The samples were analyzed by combined gas chromatography/mass spectrometry (GC/MS) for volatile organic compounds. The analyses were performed according to the methodology outlined in EPA Method TO-15. The analyses were performed by gas chromatography/mass spectrometry, utilizing a direct cryogenic trapping technique. The analytical system used was comprised of a Hewlett Packard Model 5972 GC/MS/DS interfaced to a Tekmar AutoCan Elite whole air inlet system/cryogenic concentrator. A 100% Dimethylpolysiloxane capillary column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation

The results of analyses are given on the attached data sheets.

Reviewed and Approved:

Wade Henton
Senior Chemist

Reviewed and Approved:

Chris Parnell
Senior Chemist

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **C1**
Client Project ID: **METP / Canoga Park**

PAI Project ID: P2200394
PAI Sample ID: P2200394-001

Test Code: EPA TO-15
Instrument ID: HP5972/Tekmar AUTOCan Elite
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: #01326

Date Collected: 2/28/02
Date Received: 2/28/02
Date(s) Analyzed: 3/1/02
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -4.3 Pf 1 = 3.5

D.F. = 1.75

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	2.0	ND	0.52	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	**30**	1.0	**13**	0.42	
75-69-4	Trichlorofluoromethane	ND	2.0	ND	0.36	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	**2.1**	1.0	**0.61**	0.29	
76-13-1	Trichlorotrifluoroethane	ND	3.0	ND	0.39	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	**9.7**	1.0	**2.7**	0.28	
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28	
78-93-3	2-Butanone (MEK)	**4.2**	1.0	**1.4**	0.34	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25	
67-66-3	Chloroform	ND	1.0	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.18	
71-43-2	Benzene	**3.5**	1.0	**1.1**	0.31	
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16	
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 3/5/02

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **C1**
Client Project ID: **METP / Canoga Park**

PAI Project ID: P2200394
PAI Sample ID: P2200394-001

Test Code: EPA TO-15
Instrument ID: HP5972/Tekmar AUTOCan Elite
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: #01326

Date Collected: 2/28/02
Date Received: 2/28/02
Date(s) Analyzed: 3/1/02
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -4.3 Pf 1 = 3.5

D.F. = 1.75

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15	
79-01-6	Trichloroethene	ND	1.0	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22	
108-10-1	4-Methyl-2-pentanone	**6.7**	1.0	**1.6**	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.18	
108-88-3	Toluene	**13**	1.0	**3.6**	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12	
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13	
127-18-4	Tetrachloroethene	**1.8**	1.0	**0.27**	0.15	
108-90-7	Chlorobenzene	ND	1.0	ND	0.22	
100-41-4	Ethylbenzene	**2.4**	1.0	**0.56**	0.23	
136777-61-2	*m,p*-Xylenes	**8.5**	1.0	**2.0**	0.23	
75-25-2	Bromoform	ND	1.0	ND	0.097	
100-42-5	Styrene	ND	1.0	ND	0.23	
95-47-6	o-Xylene	**3.6**	1.0	**0.82**	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 3/5/02

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **C2**
Client Project ID: **METP / Canoga Park**

PAI Project ID: P2200394
PAI Sample ID: P2200394-002

Test Code: EPA TO-15
Instrument ID: HP5972/Tekmar AUTOCan Elite
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: #01132

Date Collected: 2/28/02
Date Received: 2/28/02
Date(s) Analyzed: 3/1/02
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -11.6 Pf 1 = 3.5

D.F. = 5.87

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	5.0	ND	2.4	
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0	
74-83-9	Bromomethane	ND	10	ND	2.6	
75-00-3	Chloroethane	ND	5.0	ND	1.9	
67-64-1	Acetone	**27**	5.0	**11**	2.1	
75-69-4	Trichlorofluoromethane	ND	10	ND	1.8	
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3	
75-09-2	Methylene chloride	ND	5.0	ND	1.4	
76-13-1	Trichlorotrifluoroethane	ND	15	ND	2.0	
75-15-0	Carbon Disulfide	ND	5.0	ND	1.6	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ND	1.3	
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2	
1634-04-4	Methyl tert-Butyl Ether	**8.7**	5.0	**2.4**	1.4	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	5.0	ND	1.7	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ND	1.3	
67-66-3	Chloroform	ND	5.0	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ND	0.92	
71-43-2	Benzene	ND	5.0	ND	1.6	
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80	
78-87-5	1,2-Dichloropropane	ND	5.0	ND	1.1	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
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Verified By: RC Date: 3/5/02

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **C2**
Client Project ID: **METP / Canoga Park**

PAI Project ID: P2200394
PAI Sample ID: P2200394-002

Test Code: EPA TO-15
Instrument ID: HP5972/Tekmar AUTOCan Elite
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: #01132

Date Collected: 2/28/02
Date Received: 2/28/02
Date(s) Analyzed: 3/1/02
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -11.6 Pf 1 = 3.5

D.F. = 5.87

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	5.0	ND	0.75	
79-01-6	Trichloroethene	ND	5.0	ND	0.93	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	ND	1.1	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ND	1.2	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	ND	1.1	
79-00-5	1,1,2-Trichloroethane	ND	5.0	ND	0.92	
108-88-3	Toluene	**14**	5.0	**3.8**	1.3	
591-78-6	2-Hexanone	ND	5.0	ND	1.2	
124-48-1	Dibromochloromethane	ND	5.0	ND	0.59	
106-93-4	1,2-Dibromoethane	ND	5.0	ND	0.65	
127-18-4	Tetrachloroethene	ND	5.0	ND	0.74	
108-90-7	Chlorobenzene	ND	5.0	ND	1.1	
100-41-4	Ethylbenzene	ND	5.0	ND	1.2	
136777-61-2	*m,p*-Xylenes	ND	5.0	ND	1.2	
75-25-2	Bromoform	ND	5.0	ND	0.48	
100-42-5	Styrene	ND	5.0	ND	1.2	
95-47-6	o-Xylene	ND	5.0	ND	1.2	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	ND	0.73	
541-73-1	1,3-Dichlorobenzene	ND	5.0	ND	0.83	
106-46-7	1,4-Dichlorobenzene	ND	5.0	ND	0.83	
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.83	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 3/5/02

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **D1** PAI Project ID: P2200394
Client Project ID: **METP / Canoga Park** PAI Sample ID: P2200394-003

Test Code: EPA TO-15 Date Collected: 2/28/02
Instrument ID: HP5972/Tekmar AUTOCan Elite Date Received: 2/28/02
Analyst: Wade Henton Date(s) Analyzed: 3/1/02
Sampling Media: Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: #01277

Pi 1 = -3.3 Pf 1 = 3.5
D.F. = 1.60

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	2.0	ND	0.52	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	**32**	1.0	**13**	0.42	
75-69-4	Trichlorofluoromethane	ND	2.0	ND	0.36	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	**2.1**	1.0	**0.61**	0.29	
76-13-1	Trichlorotrifluoroethane	ND	3.0	ND	0.39	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	**10**	1.0	**2.9**	0.28	
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28	
78-93-3	2-Butanone (MEK)	**4.2**	1.0	**1.4**	0.34	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25	
67-66-3	Chloroform	ND	1.0	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.18	
71-43-2	Benzene	**3.6**	1.0	**1.1**	0.31	
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16	
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RC Date: 3/5/02

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **D1** PAI Project ID: P2200394
Client Project ID: **METP / Canoga Park** PAI Sample ID: P2200394-003

Test Code: EPA TO-15 Date Collected: 2/28/02
Instrument ID: HP5972/Tekmar AUTOCan Elite Date Received: 2/28/02
Analyst: Wade Henton Date(s) Analyzed: 3/1/02
Sampling Media: Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: #01277

Pi 1 = -3.3 Pf 1 = 3.5
D.F. = 1.60

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15	
79-01-6	Trichloroethene	ND	1.0	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22	
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.18	
108-88-3	Toluene	**13**	1.0	**3.5**	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12	
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13	
127-18-4	Tetrachloroethene	**1.9**	1.0	**0.28**	0.15	
108-90-7	Chlorobenzene	ND	1.0	ND	0.22	
100-41-4	Ethylbenzene	**1.9**	1.0	**0.44**	0.23	
136777-61-2	*m,p*-Xylenes	**6.2**	1.0	**1.4**	0.23	
75-25-2	Bromoform	ND	1.0	ND	0.097	
100-42-5	Styrene	ND	1.0	ND	0.23	
95-47-6	o-Xylene	**2.4**	1.0	**0.56**	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 3/5/02

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **A1**
Client Project ID: **METP / Canoga Park**

PAI Project ID: P2200394
PAI Sample ID: P2200394-004

Test Code: EPA TO-15
Instrument ID: HP5972/Tekmar AUTOCan Elite
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: #01109

Date Collected: 2/28/02
Date Received: 2/28/02
Date(s) Analyzed: 3/1/02
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.5 Pf 1 = 3.5

D.F. = 1.63

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	**1.9**	1.0	**0.92**	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	2.0	ND	0.52	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	**38**	1.0	**16**	0.42	
75-69-4	Trichlorofluoromethane	ND	2.0	ND	0.36	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	**2.2**	1.0	**0.62**	0.29	
76-13-1	Trichlorotrifluoroethane	ND	3.0	ND	0.39	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	**8.9**	1.0	**2.5**	0.28	
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28	
78-93-3	2-Butanone (MEK)	**5.4**	1.0	**1.8**	0.34	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25	
67-66-3	Chloroform	ND	1.0	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.18	
71-43-2	Benzene	**3.2**	1.0	**1.0**	0.31	
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16	
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **A1**
Client Project ID: **METP / Canoga Park**

PAI Project ID: P2200394
PAI Sample ID: P2200394-004

Test Code: EPA TO-15
Instrument ID: HP5972/Tekmar AUTOCan Elite
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: #01109

Date Collected: 2/28/02
Date Received: 2/28/02
Date(s) Analyzed: 3/1/02
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.5 Pf 1 = 3.5

D.F. = 1.63

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15	
79-01-6	Trichloroethene	ND	1.0	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22	
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.18	
108-88-3	Toluene	**14**	1.0	**3.6**	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12	
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13	
127-18-4	Tetrachloroethene	**2.6**	1.0	**0.39**	0.15	
108-90-7	Chlorobenzene	ND	1.0	ND	0.22	
100-41-4	Ethylbenzene	**1.9**	1.0	**0.44**	0.23	
136777-61-2	*m,p*-Xylenes	**6.0**	1.0	**1.4**	0.23	
75-25-2	Bromoform	ND	1.0	ND	0.097	
100-42-5	Styrene	ND	1.0	ND	0.23	
95-47-6	o-Xylene	**2.2**	1.0	**0.52**	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **A2**
Client Project ID: **METP / Canoga Park**

PAI Project ID: P2200394
PAI Sample ID: P2200394-005

Test Code: EPA TO-15
Instrument ID: HP5972/Tekmar AUTOCan Elite
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: #01500

Date Collected: 2/28/02
Date Received: 2/28/02
Date(s) Analyzed: 3/1/02
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.3 Pf 1 = 3.5

D.F. = 1.60

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	**1.6**	1.0	**0.78**	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	2.0	ND	0.52	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	**45**	1.0	**19**	0.42	
75-69-4	Trichlorofluoromethane	ND	2.0	ND	0.36	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	**2.4**	1.0	**0.68**	0.29	
76-13-1	Trichlorotrifluoroethane	ND	3.0	ND	0.39	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	**10**	1.0	**2.8**	0.28	
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28	
78-93-3	2-Butanone (MEK)	**6.1**	1.0	**2.1**	0.34	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25	
67-66-3	Chloroform	ND	1.0	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.18	
71-43-2	Benzene	**3.7**	1.0	**1.2**	0.31	
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16	
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **A2** PAI Project ID: P2200394
Client Project ID: **METP / Canoga Park** PAI Sample ID: P2200394-005

Test Code: EPA TO-15 Date Collected: 2/28/02
Instrument ID: HP5972/Tekmar AUTOCan Elite Date Received: 2/28/02
Analyst: Wade Henton Date(s) Analyzed: 3/1/02
Sampling Media: Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: #01500

Pi 1 = -3.3 Pf 1 = 3.5
D.F. = 1.60

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15	
79-01-6	Trichloroethene	ND	1.0	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22	
108-10-1	4-Methyl-2-pentanone	**3.2**	1.0	**0.78**	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.18	
108-88-3	Toluene	**14**	1.0	**3.7**	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12	
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13	
127-18-4	Tetrachloroethene	**2.3**	1.0	**0.33**	0.15	
108-90-7	Chlorobenzene	ND	1.0	ND	0.22	
100-41-4	Ethylbenzene	**2.3**	1.0	**0.52**	0.23	
136777-61-2	*m,p*-Xylenes	**7.3**	1.0	**1.7**	0.23	
75-25-2	Bromoform	ND	1.0	ND	0.097	
100-42-5	Styrene	ND	1.0	ND	0.23	
95-47-6	o-Xylene	**2.8**	1.0	**0.66**	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RC Date: 3/5/02

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **A3** PAI Project ID: P2200394
Client Project ID: **METP / Canoga Park** PAI Sample ID: P2200394-006

Test Code: EPA TO-15 Date Collected: 2/28/02
Instrument ID: HP5972/Tekmar AUTOCan Elite Date Received: 2/28/02
Analyst: Wade Henton Date(s) Analyzed: 3/1/02
Sampling Media: Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: #01187

Pi 1 = -3.0 Pf 1 = 3.5

D.F. = 1.56

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	**1.7**	1.0	**0.80**	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	2.0	ND	0.52	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	**40**	1.0	**17**	0.42	
75-69-4	Trichlorofluoromethane	ND	2.0	ND	0.36	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	**2.1**	1.0	**0.62**	0.29	
76-13-1	Trichlorotrifluoroethane	ND	3.0	ND	0.39	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	**9.3**	1.0	**2.6**	0.28	
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28	
78-93-3	2-Butanone (MEK)	**5.2**	1.0	**1.8**	0.34	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25	
67-66-3	Chloroform	ND	1.0	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.18	
71-43-2	Benzene	**3.3**	1.0	**1.0**	0.31	
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16	
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 3/5/02

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **A3**
Client Project ID: **METP / Canoga Park**

PAI Project ID: P2200394
PAI Sample ID: P2200394-006

Test Code: EPA TO-15
Instrument ID: HP5972/Tekmar AUTOCan Elite
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: #01187

Date Collected: 2/28/02
Date Received: 2/28/02
Date(s) Analyzed: 3/1/02
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.0 Pf 1 = 3.5

D.F. = 1.56

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15	
79-01-6	Trichloroethene	ND	1.0	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22	
108-10-1	4-Methyl-2-pentanone	**1.8**	1.0	**0.45**	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.18	
108-88-3	Toluene	**18**	1.0	**4.7**	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12	
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13	
127-18-4	Tetrachloroethene	**2.3**	1.0	**0.34**	0.15	
108-90-7	Chlorobenzene	ND	1.0	ND	0.22	
100-41-4	Ethylbenzene	**2.2**	1.0	**0.50**	0.23	
136777-61-2	*m,p*-Xylenes	**6.8**	1.0	**1.6**	0.23	
75-25-2	Bromoform	ND	1.0	ND	0.097	
100-42-5	Styrene	ND	1.0	ND	0.23	
95-47-6	o-Xylene	**2.5**	1.0	**0.59**	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
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Verified By: RG Date: 3/5/02

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **B1**
Client Project ID: **METP / Canoga Park**

PAI Project ID: P2200394
PAI Sample ID: P2200394-007

Test Code: EPA TO-15
Instrument ID: HP5972/Tekmar AUTOCan Elite
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: #00357

Date Collected: 2/28/02
Date Received: 2/28/02
Date(s) Analyzed: 3/1/02
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.2 Pf 1 = 3.5

D.F. = 1.58

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	2.0	ND	0.52	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	**34**	1.0	**14**	0.42	
75-69-4	Trichlorofluoromethane	ND	2.0	ND	0.36	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	**2.1**	1.0	**0.62**	0.29	
76-13-1	Trichlorotrifluoroethane	ND	3.0	ND	0.39	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	**8.8**	1.0	**2.5**	0.28	
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28	
78-93-3	2-Butanone (MEK)	**5.3**	1.0	**1.8**	0.34	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25	
67-66-3	Chloroform	ND	1.0	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.18	
71-43-2	Benzene	**3.3**	1.0	**1.0**	0.31	
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16	
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 3/5/02

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **B1** PAI Project ID: P2200394
Client Project ID: **METP / Canoga Park** PAI Sample ID: P2200394-007

Test Code: EPA TO-15 Date Collected: 2/28/02
Instrument ID: HP5972/Tekmar AUTOCan Elite Date Received: 2/28/02
Analyst: Wade Henton Date(s) Analyzed: 3/1/02
Sampling Media: Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: #00357

Pi 1 = -3.2 Pf 1 = 3.5
D.F. = 1.58

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15	
79-01-6	Trichloroethene	ND	1.0	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22	
108-10-1	4-Methyl-2-pentanone	**4.3**	1.0	**1.0**	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.18	
108-88-3	Toluene	**12**	1.0	**3.2**	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12	
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13	
127-18-4	Tetrachloroethene	**1.6**	1.0	**0.24**	0.15	
108-90-7	Chlorobenzene	ND	1.0	ND	0.22	
100-41-4	Ethylbenzene	**1.7**	1.0	**0.40**	0.23	
136777-61-2	*m,p*-Xylenes	**5.6**	1.0	**1.3**	0.23	
75-25-2	Bromoform	ND	1.0	ND	0.097	
100-42-5	Styrene	ND	1.0	ND	0.23	
95-47-6	o-Xylene	**2.2**	1.0	**0.50**	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 3/5/02

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **B2** PAI Project ID: P2200394
Client Project ID: **METP / Canoga Park** PAI Sample ID: P2200394-008

Test Code: EPA TO-15 Date Collected: 2/28/02
Instrument ID: HP5972/Tekmar AUTOCan Elite Date Received: 2/28/02
Analyst: Wade Henton Date(s) Analyzed: 3/1/02
Sampling Media: Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: #01162

Pi 1 = -2.7 Pf 1 = 3.5

D.F. = 1.52

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	**1.7**	1.0	**0.82**	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	2.0	ND	0.52	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	**37**	1.0	**15**	0.42	
75-69-4	Trichlorofluoromethane	ND	2.0	ND	0.36	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	**2.3**	1.0	**0.67**	0.29	
76-13-1	Trichlorotrifluoroethane	ND	3.0	ND	0.39	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	**9.0**	1.0	**2.5**	0.28	
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28	
78-93-3	2-Butanone (MEK)	**9.7**	1.0	**3.3**	0.34	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25	
67-66-3	Chloroform	ND	1.0	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.18	
71-43-2	Benzene	**3.4**	1.0	**1.1**	0.31	
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16	
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
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Verified By: RG Date: 3/5/02

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **B2**
Client Project ID: **METP / Canoga Park**

PAI Project ID: P2200394
PAI Sample ID: P2200394-008

Test Code: EPA TO-15
Instrument ID: HP5972/Tekmar AUTOCan Elite
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: #01162

Date Collected: 2/28/02
Date Received: 2/28/02
Date(s) Analyzed: 3/1/02
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.7 Pf 1 = 3.5

D.F. = 1.52

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15	
79-01-6	Trichloroethene	ND	1.0	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22	
108-10-1	4-Methyl-2-pentanone	**12**	1.0	**2.9**	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.18	
108-88-3	Toluene	**14**	1.0	**3.8**	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12	
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13	
127-18-4	Tetrachloroethene	**1.9**	1.0	**0.29**	0.15	
108-90-7	Chlorobenzene	ND	1.0	ND	0.22	
100-41-4	Ethylbenzene	**1.9**	1.0	**0.43**	0.23	
136777-61-2	*m,p*-Xylenes	**5.9**	1.0	**1.4**	0.23	
75-25-2	Bromoform	ND	1.0	ND	0.097	
100-42-5	Styrene	ND	1.0	ND	0.23	
95-47-6	o-Xylene	**2.2**	1.0	**0.52**	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 3/5/02

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **B3** PAI Project ID: P2200394
Client Project ID: **METP / Canoga Park** PAI Sample ID: P2200394-009

Test Code: EPA TO-15 Date Collected: 2/28/02
Instrument ID: HP5972/Tekmar AUTOCan Elite Date Received: 2/28/02
Analyst: Wade Henton Date(s) Analyzed: 3/1/02
Sampling Media: Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: #01605

Pi 1 = -2.2 Pf 1 = 3.5
D.F. = 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	**1.5**	1.0	**0.71**	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	2.0	ND	0.52	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	**34**	1.0	**14**	0.42	
75-69-4	Trichlorofluoromethane	ND	2.0	ND	0.36	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	**2.0**	1.0	**0.59**	0.29	
76-13-1	Trichlorotrifluoroethane	ND	3.0	ND	0.39	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	**8.8**	1.0	**2.5**	0.28	
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28	
78-93-3	2-Butanone (MEK)	**4.8**	1.0	**1.6**	0.34	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25	
67-66-3	Chloroform	ND	1.0	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.18	
71-43-2	Benzene	**3.3**	1.0	**1.0**	0.31	
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16	
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 3/5/02

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **B3**
Client Project ID: **METP / Canoga Park**

PAI Project ID: P2200394
PAI Sample ID: P2200394-009

Test Code: EPA TO-15
Instrument ID: HP5972/Tekmar AUTOCan Elite
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: #01605

Date Collected: 2/28/02
Date Received: 2/28/02
Date(s) Analyzed: 3/1/02
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.2 Pf 1 = 3.5

D.F. = 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15	
79-01-6	Trichloroethene	ND	1.0	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22	
108-10-1	4-Methyl-2-pentanone	**2.3**	1.0	**0.57**	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.18	
108-88-3	Toluene	**12**	1.0	**3.3**	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12	
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13	
127-18-4	Tetrachloroethene	**1.7**	1.0	**0.25**	0.15	
108-90-7	Chlorobenzene	ND	1.0	ND	0.22	
100-41-4	Ethylbenzene	**1.8**	1.0	**0.41**	0.23	
136777-61-2	*m,p*-Xylenes	**5.5**	1.0	**1.3**	0.23	
75-25-2	Bromoform	ND	1.0	ND	0.097	
100-42-5	Styrene	ND	1.0	ND	0.23	
95-47-6	o-Xylene	**2.1**	1.0	**0.49**	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17	

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Verified By: RC Date: 3/5/02

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **Method Blank**
Client Project ID: **METP / Canoga Park**

PAI Project ID: P2200394
PAI Sample ID: P020228-MB

Test Code: EPA TO-15
Instrument ID: HP5972/Tekmar AUTOCan Elite
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 2/28/02
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	2.0	ND	0.52	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	1.0	ND	0.42	
75-69-4	Trichlorofluoromethane	ND	2.0	ND	0.36	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	3.0	ND	0.39	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.34	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25	
67-66-3	Chloroform	ND	1.0	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.18	
71-43-2	Benzene	ND	1.0	ND	0.31	
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16	
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 3/5/02

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **Method Blank** PAI Project ID: P2200394
Client Project ID: **METP / Canoga Park** PAI Sample ID: P020228-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: HP5972/Tekmar AUTOCan Elite Date Received: NA
Analyst: Wade Henton Date(s) Analyzed: 2/28/02
Sampling Media: Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15	
79-01-6	Trichloroethene	ND	1.0	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22	
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.18	
108-88-3	Toluene	ND	1.0	ND	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12	
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13	
127-18-4	Tetrachloroethene	ND	1.0	ND	0.15	
108-90-7	Chlorobenzene	ND	1.0	ND	0.22	
100-41-4	Ethylbenzene	ND	1.0	ND	0.23	
136777-61-2	*m,p*-Xylenes	ND	1.0	ND	0.23	
75-25-2	Bromoform	ND	1.0	ND	0.097	
100-42-5	Styrene	ND	1.0	ND	0.23	
95-47-6	o-Xylene	ND	1.0	ND	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17	

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Verified By: RG Date: 3/5/02

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Performance Analytical Inc.
Sample Acceptance Check Form

Client: Environ International Corporation Work order: P2200394

Project: METP / Canoga Park

Sample(s) received on: 2/28/02 Date opened: 2/28/02 by SM

Note: This form is used for all samples received by PAI. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client or as required by the method/SOP.

		Yes	No	N/A
1	Were **custody seals** on outside of cooler/Box?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
	Were custody seals on outside of sample container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
2	Were **sample containers** marked with client sample ID?	☒	☐	☐
3	Did **sample containers** arrive in good condition?	☒	☐	☐
4	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
5	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
6	Was **sample volume** received adequate for analysis?	☒	☐	☐
7	Are samples within specified holding times?	☒	☐	☐
8	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
	Cooler Temperature NA °C			
	Blank Temperature NA °C			
9	Is pH (acid) **preservation** necessary, according to method/SOP or Client specified information	☐	☒	☐
	Is there a client indication that the submitted samples are **pH** (acid) preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒

Lab Sample ID	Required pH	pH (as received, if required)	VOA Headspace (Presence/Absence)
P2200394-001			NA
P2200394-002			NA
P2200394-003			NA
P2200394-004			NA
P2200394-005			NA
P2200394-006			NA
P2200394-007			NA
P2200394-008			NA
P2200394-009			NA

Explain any discrepancies: (include lab sample ID numbers): _____

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Chain of Custody Record
Analytical Services Request

Client / Address	Phone	Fax	ANALYSES	PAI Project No.
ENVIRON 707 Wilshire Blvd. Ste 4950 Los Angeles, CA 90017	(213)943-6322	(213)943-6301		P2200394
Client Project Name / Location: MEPT / Canoga Park	Client Project No.			
Contact: Debbie Scanlon	Sampler (Signature): D. Scanlon	P. O. No.		

Client Sample ID	Date Collected	Start Time Collected	Lab Sample No.	Type of Sample	Container ID (Serial#)	Regulator ID (Serial#)	TO-15			end time	Expected Turnaround Time	Remarks
C1 (W. lobby)	2/28	8:15am	-1	Summa	1326	1592	X			4:45pm	3 day	
C2 (E. ext.)		8:20	-2		1132	1662	X			4:50		
D1 (S.W.)		8:25	-3		1277	1660	X			4:56		
A1 (Ste 100 E.)		8:30	-4		1109	1650	X			5:02		
A2 (Ste 200 N.)		8:40	-5		1500	1656	X			5:10		
A3 (Ste 250 S.)		8:42	-6		1187	1645	X			5:12		
B1 (Ste 100 N.)		8:50	-7		357	1658	X			5:25		
B2 (Ste 175 S.)		8:55	-8		1162	1653	X			5:28		
B3 (Ste 6150 W.)		9:00	-9		1605	1628	X			5:32		

Relinquished by : (Signature)	Date	Time	Received by : (Signature)	Date	Time
D. Scanlon	2/28/02	6:15pm		2002.02.28	18:15
Relinquished by : (Signature)	Date	Time	Received by : (Signature)	Date	Time
Relinquished by : (Signature)	Date	Time	Received by : (Signature)	Date	Time

23

White Copy : Accompanies Sampler Yellow Copy : Sampler

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RESULTS OF ANALYSIS

Client: Environ International Corporation
Client Sample ID: EXTERIOR
Client Project ID: MEPT

PAI Project ID: P2200487
PAI Sample ID: P2200487-001

Test Code: EPA TO-15
Instrument ID: HP5973/Tekmar AUTOCan Elite
Analyst: Christy Saint
Sampling Media: Summa Canister
Test Notes:
Container ID: #01322

Date Collected: 3/14/02
Date Received: 3/14/02
Date(s) Analyzed: 3/15/02
Volume(s) Analyzed: 1.00 Liter(s)

Pf1 = -3.5 Pf1 = 3.5
D.F. = 1.63

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	2.0	ND	0.52	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	11	1.0	4.5	0.42	
75-69-4	Trichlorofluoromethane	ND	2.0	ND	0.36	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	3.0	ND	0.39	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28	
78-93-3	2-Butanone (MEK)	1.8	1.0	0.62	0.34	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25	
67-66-3	Chloroform	ND	1.0	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.18	
71-43-2	Benzene	ND	1.0	ND	0.31	
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16	
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RC Date: 3/19/02

Performance Analytical Inc.
Air Quality Laboratory
A Division of Columbia Analytical Services, Inc.
An Employee Owned Company

RESULTS OF ANALYSIS

Client: Environ International Corporation
Client Sample ID: EXTERIOR
Client Project ID: MEPT

PAI Project ID: P2200487
PAI Sample ID: P2200487-001

Test Code: EPA TO-15
Instrument ID: HP5973/Tekmar AUTOCan Elite
Analyst: Christy Saint
Sampling Media: Summa Canister
Test Notes:
Container ID: #01322

Date Collected: 3/14/02
Date Received: 3/14/02
Date(s) Analyzed: 3/15/02
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.5 Pf 1 = 3.5
D.F. = 1.63

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15	
79-01-6	Trichloroethene	ND	1.0	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22	
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.18	
108-88-3	Toluene	ND	1.0	ND	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12	
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13	
127-18-4	Tetrachloroethene	ND	1.0	ND	0.15	
108-90-7	Chlorobenzene	ND	1.0	ND	0.22	
100-41-4	Ethylbenzene	ND	1.0	ND	0.23	
136777-61-2	*m,p*-Xylenes	ND	1.0	ND	0.23	
75-25-2	Bromoform	ND	1.0	ND	0.097	
100-42-5	Styrene	ND	1.0	ND	0.23	
95-47-6	o-Xylene	ND	1.0	ND	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 3/19/02

Performance Analytical Inc.
Air Quality Laboratory
A Division of Columbia Analytical Services, Inc.
An Employee Owned Company

RESULTS OF ANALYSIS

Client: Environ International Corporation
Client Sample ID: Method Blank
Client Project ID: MEPT

PAI Project ID: P2200487
PAI Sample ID: P020315-MB

Test Code: EPA TO-15
Instrument ID: HP5973/Tekmar AUTOCan Elite
Analyst: Christy Saint
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 3/15/02
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	2.0	ND	0.52	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	1.0	ND	0.42	
75-69-4	Trichlorofluoromethane	ND	2.0	ND	0.36	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	3.0	ND	0.39	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.34	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25	
67-66-3	Chloroform	ND	1.0	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.18	
71-43-2	Benzene	ND	1.0	ND	0.31	
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16	
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22	

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Verified By: RG Date: 3/19/02

Performance Analytical Inc.
Air Quality Laboratory
A Division of Columbia Analytical Services, Inc.
An Employee Owned Company

RESULTS OF ANALYSIS

Client: Environ International Corporation
Client Sample ID: Method Blank
Client Project ID: MEPT

PAI Project ID: P2200487
PAI Sample ID: P020315-MB

Test Code: EPA TO-15
Instrument ID: HP5973/Tekmar AUTOCan Elite
Analyst: Christy Saint
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 3/15/02
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

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108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.18	
108-88-3	Toluene	ND	1.0	ND	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12	
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13	
127-18-4	Tetrachloroethene	ND	1.0	ND	0.15	
108-90-7	Chlorobenzene	ND	1.0	ND	0.22	
100-41-4	Ethylbenzene	ND	1.0	ND	0.23	
136777-61-2	*m,p*-Xylenes	ND	1.0	ND	0.23	
75-25-2	Bromoform	ND	1.0	ND	0.097	
100-42-5	Styrene	ND	1.0	ND	0.23	
95-47-6	o-Xylene	ND	1.0	ND	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17	

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MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 3/19/02

Performance Analytical Inc.

Air Quality Laboratory
A Division of Columbia Analytical Services, Inc.
An Employee Owned Company

2665 Park Center Drive, Suite D
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

Chain of Custody Record
Analytical Services Request

Client / Address	Phone	Fax	ANALYSES	PAI Project No.
ENVIRON 707 Wilshire Blvd. Ste 4950 Los Angeles, CA 90017	213-943-6312	213-943-6301		PA200487
Client Project Name / Location	**Client Project No.**			
MEPT / Cayuga Park				
Contact	**Sampler (Signature)**	**P. O. No.**		
Debbie Scanlon	D. Scanlon		TO-15	

Client Sample ID	Date Collected	Time Collected	Lab Sample No.	Type of Sample	Container ID (Serial#)	Regulator ID (Serial#)	TO-15	Expected Turnaround Time	Remarks
Exterior	3/14/02	8:15 am 3:52 pm		Summa	1322	1647	X	3 day	

Relinquished by : (Signature)	Date	Time	Received by : (Signature)	Date	Time
D. Scanlon	3/14/02	4:30 pm	Andy Dao	3/14/02	4:39 pm
Relinquished by : (Signature)	Date	Time	Received by : (Signature)	Date	Time
Relinquished by : (Signature)	Date	Time	Received by : (Signature)	Date	Time

03-18-2002 11:29 From-ENVIRON 213-943-6301 T-732 P.008/008 F-113

PHASE I ENVIRONMENTAL SITE ASSESSMENT

COAST WESTHILLS PROPERTY
8433 FALLBROOK AVENUE
LOT B
CANOGA PARK, CALIFORNIA

GEOCON

GEOTECHNICAL
&
ENVIRONMENTAL
CONSULTANTS

PREPARED FOR

MEPT WEST HILLS LLC AND
TRAMMELL CROW SO. CAL. PROPERTIES, INC.
LOS ANGELES, CALIFORNIA

FEBRUARY 1999

Project No. A8021-06-01
February 8, 1999

Environmental Asset Services, Inc.
5801 South Eastern Avenue, Suite 100
Los Angeles, California 90040

Attention: Mr. Neal Holdridge, Environmental Manager

Subject: COAST WESTHILLS PROPERTY
8433 FALLBROOK AVENUE
CANOGA PARK, CALIFORNIA
"ENHANCED" PHASE I ENVIRONMENTAL SITE ASSESSMENT

Dear Mr. Holdridge:

In accordance with your request on behalf of MEPT West Hills LLC (MEPT) or its nominated assignee, Environmental Asset Services, Inc. (EASI) and Trammell Crow So. Cal. Properties, Inc. (TCSCPI), Geocon Environmental Consultants, Inc. (Geocon) has conducted an "Enhanced" Phase I Environmental Site Assessment (ESA) of the subject property. The approximately 30-acre property is located to the northwest of the intersection of Fallbrook Avenue and Roscoe Boulevard, in the Canoga Park area of the City of Los Angeles, Los Angeles County, California. The property is further identified by Los Angeles County Assessor's Parcel Numbers 2005-002-001 and 2005-002-002.

We trust the accompanying report provides MEPT, TCSCPI, and EASI and with the information you require at this time. If you have any questions regarding the information presented in the report, or if Geocon may be of further service, please contact us at (213) 538-1282.

Very truly yours,

GEOCON ENVIRONMENTAL CONSULTANTS, INC.

Robin J. Ferber, R.G., R.E.A.
Senior Managing Geologist

Robin M. Blanchard
Project Environmental Scientist

RMB:RJF

(5) Addressee

(1) John J. Allen, Esq., Sonnenschein Nath & Rosenthal

EXECUTIVE SUMMARY

This report presents the results of an *"Enhanced" Phase I Environmental Site Assessment,* performed in general conformance with the scope and limitations of ASTM Designation E 1527-97 of Subdivision B of the property located at 8433 Fallbrook Avenue in the Canoga Park area of the City of Los Angeles, Los Angeles County, (the "subject property") further identified by Los Angeles County Assessor's Parcel Numbers 2005-002-001 and 2005-002-002. Any exceptions to, or deletions from this practice are described in Section 1.3 of this report. The term "Enhanced", as referenced in this report, refers to the extensive review of pertinent environmental documents provided by Environmental Asset Services, Inc. (EASI) and present in files at the offices of the California Regional Water Quality Control Board, Los Angeles Region (CRWQCB) and the California - Environmental Protection Agency, Department of Toxic Substances Control (DTSC) that was specifically requested by Mr. Neal H. Holdridge, Environmental Manager of EASI.

The subject property occupies approximately 30 acres and includes nine buildings and landscaped and paved parking areas. It was formerly a part of an approximately 86-acre property used by Hughes Aircraft Company and Hughes Missiles Systems Company (hereinafter Hughes) as an aerospace research and development facility. The former Hughes property was subsequently divided into subdivisions A, B, C, and D (hereinafter referred to as Lots A, B, C, D). The subject property occupies Lot B, and is currently owned by Home Savings of America (Home) as successor to Coast Federal Bank (Coast). The nine buildings at the subject property were not occupied at the time of the reconnaissance. With the exception of onsite features associated with the ongoing groundwater monitoring program and potential impacts associated with the Raytheon soil vapor and groundwater extraction and treatment systems, evidence of "recognized environmental conditions" was not observed during our site reconnaissance of the subject property.

Hughes sold the site to Coast in 1995; however, it remained responsible for responding to certain environmental impacts discovered on the site during the late 1980's. Raytheon Missiles Systems Group (Raytheon) acquired Hughes in December 1997 and has assumed financial responsibility for certain ongoing and future environmental investigations and remediation activities at the former Hughes facility, including the subject property.

Obvious evidence of hazardous materials use, storage or disposal was not observed onsite in the aerial photographs reviewed. The subject property appears to have been used for agricultural purposes prior to development as an aerospace research and development facility in 1959. Construction of onsite buildings and features occurred roughly from 1959 to 1986.

The USGS topographic map dated 1967 (photorevised 1979) for the Calabasas, California quadrangle depicts onsite elevations ranging from approximately 840 to 900 feet above mean sea level (MSL). Onsite topography slopes to the south, east, and west from a high point located roughly at the center of the northern subject property boundary. Groundwater beneath the subject property flows to the south-southeast with the exception of the Lot C area northwest of the subject property where groundwater flows to the west towards Chatsworth Creek.

A 50-year Chain-of-Title Report was not provided for review. The current owner of the subject property is reported to be Home as successor to Coast.

The subject property was identified in the information sources reviewed by VISTA Information Solutions, Inc. (VISTA). All of the subject property listings appear to relate to the ongoing soil and groundwater investigations at the subject property. Several businesses listed by VISTA in their report were within the appropriate search radii used for this ESA. The properties listed by VISTA are not considered likely to impact soil and groundwater beneath the subject property with hazardous materials based on their distance from the subject property, their location relative to the local hydraulic gradient (interpreted to flow generally to the south-southeast), and/or the absence of information indicating releases of hazardous materials originating from the listed properties.

Releases of diesel fuel, chlorinated and non-chlorinated volatile organic compounds (VOCs), aromatic VOCs, and semi-volatile organic compounds (SVOCs) to soil and/or groundwater have been documented at the former Hughes facility, including the subject property. Investigation of impacts to soil and groundwater from these substances has been ongoing since 1989 under the direction of various regulatory agencies including the City of Los Angeles Fire Department, CRWQCB, California Department of Health Services, and the DTSC. The DTSC and the CRWQCB are currently the key environmental agencies involved at the subject property and neighboring Lots A, C and D comprising the former Hughes properties.

Four underground storage tanks (USTs) containing fuel oil and two USTs containing waste oil and sulfuric acid were formerly operated on Lot B. Five of the six USTs exhibited evidence of leakage.

Historical remedial activity on Lot B consisted of excavation and offsite disposal of soils impacted by the five USTs.

The review of environmental documents indicates that soil and groundwater beneath the subject property have been impacted by chlorinated and non-chlorinated VOCs in two areas. One is located to the south of Building No. 281. Groundwater samples collected from groundwater monitoring well CM-8D have shown the presence of VOCs from an unknown source. Hughes' environmental consultant estimated that the release of approximately 0.2 gallons of VOCs caused the impact to groundwater discovered in that area. Identifying the source of the VOCs detected in the well CM-8D area has been and remains a primary DTSC concern. Soil vapor samples collected in the area of well CM-8D have not been conclusive in identifying a source of the VOCs detected in the groundwater. DTSC could require Raytheon to conduct further environmental investigations in this area. In addition, it may be prudent to conduct indoor air monitoring for VOCs in Building Nos. 263, 264, and 281 to evaluate potential exposure concerns to future building tenants.

Groundwater impacts by VOCs were also detected near monitoring well CM-10 located offsite (on Lot A) to the south-southeast of Building No. 274. Freon 11 was the primary constituent of concern detected here. A soil vapor plume comprised primarily of Freon 11 and other VOCs was identified onsite and to the south of this building in an area hydraulically upgradient of well CM-10. In addition, groundwater well MW-31, located onsite in the central portion of the area where Freon 11 was found in soil vapor, contained Freon at concentrations equal to the US EPA Maximum Contaminant Level (MCL) established for groundwater. Raytheon believes the Freon 11 soil vapor plume is from air conditioning equipment repairs that were conducted in the unpaved portions of the parking lot during the 1960s.

The DTSC identified eight Areas of Concern (AOCs) and three Solid Waste Management Units (SWMUs) on the subject property which may require further investigation. Based on the findings of a soil and groundwater investigation documented in a September 1998 report prepared by GTI, Raytheon requested that DTSC de-list two of the SWMUs and three of the AOCs, all of which are located in the southern portion of the subject property. DTSC has declined to "de-list" SWMUs or AOCs until it is satisfied that its concerns have been adequately addressed.

DTSC has identified additional SWMUs and AOCs for Lot C, which is adjacent to and to the north of the subject property. Lot C also has a former Hazardous Waste Storage Area (for which Raytheon has not yet completed its DTSC approved Closure Plan), and a UST designated as T-3, which is a

regulated hazardous waste unit subject to post-closure care requirements as specified in the California Code of Regulations, Title 22. These two units were and still are under RCRA Permit. Soil vapor and water extraction and treatment systems are active in the northern portion of Lot C. Treated water from the extraction system is used only on Lot C for irrigation of landscaped areas, under NPDES permit from the CRWQCB; however, the treatment system is currently shut down due to construction activities ongoing in the northern portion of Lot C.

According to a November 21, 1994 interview with Hughes employees, mercury may have been present in a soundproofing coating on foam "cones" formerly present on the walls and ceilings of the anechoic chamber present in Building No. 274. This soundproofing material was reportedly removed under appropriate manifest to a disposal site in Arizona. During our site reconnaissance, a minor amount of residual soundproofing material was noted on the floor of the anechoic chamber. A Certified Industrial Hygienist should be retained to evaluate for the presence of mercury in the residual soundproofing material observed in the anechoic chamber.

Personal interviews with DTSC staff suggest that the City of Los Angeles may require DTSC concurrence prior to issuance of future building permits at the subject property if concerns regarding the SWMUs and AOCs are not resolved. DTSC communications with DeVry Inc. who is developing Lot A to the south of the subject property, indicated that the DTSC may require access to that property for soil and groundwater investigations/remediation should future evidence of environmental impacts be discovered on Lot A. Appropriate personnel at the City of Los Angeles should be contacted to evaluate the potential involvement of the DTSC in the acquisition of Building Permits for the subject property. In addition, DTSC input should be obtained regarding new structures to be built in designated areas of the subject property.

Groundwater beneath the subject property and adjoining lots contains levels of uranium and radium above drinking water standards. Groundwater monitoring wells CM-8D and CM-10 generally contain higher levels of uranium and radium in the groundwater, when compared to the other wells throughout the former Hughes facility that were sampled. Previous investigations concerning the presence of these radioactive materials concluded they were naturally occurring and due to local variations in geological deposits. The prior investigations concluded that no man-made radionuclides were indicated. No surface soil investigations regarding the presence of radioactive materials have been conducted at the site. Documents listing the radioactive materials formerly used by Hughes indicate that Hughes' operations have not served as the source for the radioactivity discovered in

groundwater. It may be prudent to conduct a radon gas investigation in the buildings onsite to investigate potential radioactive exposure concerns to Lot B building tenants.

The northern portion of Lot C is undergoing remediation under the guidance of the DTSC and CRWQCB. According to the DTSC, Raytheon is in violation of Title 22, California Code of Regulations for not having submitted an application for post-closure of UST T-3. In addition, the DTSC has asked Raytheon to investigate the lateral and vertical extent of hexavalent chromium detected in soil beneath the former hazardous waste storage area. Raytheon has issued written complaints to the DTSC regarding the DTSC's lack of administrative response concerning environmental issues at the site. The effect of these outstanding issues between the DTSC and Raytheon on the proposed acquisition of Lot B is considered of minimal impact because they appear to only impact Lot C.

TABLE OF CONTENTS

EXECUTIVE SUMMARY i

1. INTRODUCTION 1
   1.1. Purpose 1
   1.2. Credential 2
   1.3. Scope of Services 2
   1.4. Site Location 2

2. GEOLOGIC AND GROUNDWATER CONDITIONS 3
   2.1. Geologic Conditions 3
   2.2. Groundwater Quality and Occurrence 3

3. SITE RECONNAISSANCE 4
   3.1. Onsite Reconnaissance 4
   3.2. Off-Site Observations 11

4. SITE HISTORY 12
   4.1. Review of Historical Aerial Photographs 12
   4.2. Historical Ownership 13
   4.3. Interview - Property Owner Representative 14

5. GOVERNMENTAL AGENCIES - RECORDS REVIEW 14
   5.1. VISTA Report 14
      5.1.1 Subject property 14
      5.1.2. Offsite Properties 15
   5.2. Agency Communications and Review of Records at Public Agencies 16
      5.2.1. California Department of Conservation Division of Oil, Gas and Geothermal Resources (DOGGR) 16
      5.2.2. City of Los Angeles Building and Safety Department 16
      5.2.3. Los Angeles City Fire Department – Underground Storage Tank Division 16
      5.2.4. Health Department, Los Angeles County 16
      5.2.5. Department of Public Works, Los Angeles County 17
      5.2.6. California Regional Water Quality Control Board (CRWQCB) 17
      5.2.7. South Coast Air Quality Control Board (SCAQMD) 17
      5.2.8. California – EPA, Department of Toxic Substance Control (DTSC) 17
   5.3. Interviews with Representatives of the CRWQCB and DTSC 18
      5.3.1. Interview with Ms. Manjulika Chakrabarti of the CRWQCB 18
      5.3.2. Interviews with Mr. Phil Blum and Mr. Phil Chandler of the DTSC 18

6. CONCLUSIONS AND RECOMMENDATIONS 19

7. LIMITATIONS 24

8. REFERENCES 25

Figures:

1. Vicinity Map
2. Site Plan

Tables:

1. Summary of Environmental Documents Provided by EASI, Inc.
2. Summary of Environmental Documents Reviewed at the CRWQCB on January 11, 1998
3. Summary of Environmental Documents Reviewed at the DTSC on January 14, 1998

Appendices:

Note: Appendices D through N are comprised of portions of the reports listed below

A Site Photographs

B VISTA Environmental Solutions, Inc. Regulatory Database Search Report

C SCAQMD Documentation

D *Potential Source Area Investigation Report for the Hughes Missile Systems Group*
McLaren, November 30, 1989

E *Consent Agreement and Order – Docket No. HWCA 89/90 – 001 For: Hughes Aircraft Company Missile Systems Group*
State of California, Health & Welfare Agency, Department of Health Services Toxic Substances Control Program, August 20, 1990

F *Feasibility Study for Groundwater Remediation - Hughes Aircraft Company Missile System Group Facility*
Groundwater Technology, Inc., February 14, 1992

G *Phase I Environmental Report; Areas of Potential Chemical Release to Soil and Groundwater, Hughes Missile Systems Company*
Groundwater Technology, Inc., December 28, 1993

H *Report on Facility-Wide Site Assessment, Hughes Missile Systems Company*
Groundwater Technology, Inc., January 4, 1994

I *Letter and Internal Memorandum Regarding Areas of Concern for Hughes Missile Systems Group, Canoga Park Facility*
From DTSC to Hughes, February 27and 28, 1995

J *Report on Soil Gas Surveying, Former Hughes Missile Systems Company Site*
Groundwater Technology, Inc., August 1, 1995

K *Letter Regarding Upcoming Meeting Regarding Designation of Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) at Former Hughes Missile Systems Company Facility*
From Raytheon to DTSC, February 5, 1998

L *Letter Regarding Devry Institute of [Technology], West Hill Site, 22801 Roscoe Blvd, West Hills*
From DTSC to Devry, July 27, 1998

M *Transmittal Letter and Report of Additional Site Assessment – Vicinity of CM-10 and Buildings 265, 274, 278, former Raytheon Missile Systems Company Facility*
Letter from Raytheon to DTSC, September 8, 1998
Report by Fluor Daniel GTI, September 2, 1998

N *Transmittal Letter and Summary Report of Supplementary Sampling and Analysis Locations of Former Buildings 269, 272, and 282 – former Raytheon Missile Systems Company*
Letter from Raytheon to DTSC, October 5, 1998
Report by Fluor Daniel GTI, September 23, 1998

PHASE I ENVIRONMENTAL SITE ASSESSMENT

1. INTRODUCTION

This report has been prepared by Geocon Environmental Consultants, Inc. (Geocon) in accordance with the request of Mr. Neal H. Holdridge on behalf of the MEPT West Hills LLC (MEPT) or its nominated assignee, Environmental Assets Services, Inc. (EASI), and Trammell Crow So. Cal. Properties, Inc. (TCSCPI). The report presents the results of a "Enhanced" Phase I Environmental Site Assessment (Enhanced-ESA) and document review of the Coast Westhills Property, an approximately 30-acre property located to the northwest of the intersection of Fallbrook Avenue and Roscoe Boulevard (Lot B of 8433 Fallbrook Avenue), in the Canoga Park area of the City of Los Angeles, Los Angeles County, California (the "subject property"). The term "Enhanced", as referenced in this report, refers to the review of pertinent environmental documents provided by EASI and present in the available files at the offices of the California Regional Water Quality Control Board, Los Angeles Region (CRWQCB) and the California - Environmental Protection Agency, Department of Toxic Substances Control (DTSC) that was specifically requested by EASI.

1.1. Purpose

The purpose of this ESA is to review past and present land use practices and site operations to evaluate the potential presence of recognized environmental conditions at the subject property. This assessment was accomplished by, and limited to, a site reconnaissance, a drive-by survey of the subject property vicinity, interviews, review of information provided by TCSCPI and EASI, review of records available at the CRWQCB, DTSC, and other agencies, and a review of presently and readily available pertinent documentation through Geocon's standard resources. Representatives of the CRWQCB and DTSC were also contacted by telephone or in person regarding environmental issues and/or the status of the site investigations. These tasks were performed to evaluate past and current land use for indications of the manufacture, generation, use, storage, and/or disposal of hazardous materials at the subject property. This ESA includes a preliminary evaluation of the potential for soil and/or groundwater impacts resulting from past and present subject property land use activities and nearby offsite operations, based upon the scope of services described. The ESA was conducted in general conformance with ASTM Designation: E1527-97. The collection of soil, groundwater, asbestos, and radon samples or performance of analytical laboratory testing was not included as a part of our scope of services, nor is the sampling and testing of these materials within the normal scope of a Phase I ESA. The guidelines 'used for the definition of hazardous materials/hazardous wastes, as used in this report, are referenced in the *California Code of Regulations (CCR)* "Title 22, Division 4.5".

1.2. Credential

This report has been prepared by Geocon Environmental Consultants, Inc. (Geocon) under the professional supervision of the principal whose seal and signature appears herein. The information contained in this report has received appropriate technical review and approval. The conclusions represent professional judgments and are founded upon the findings of the investigations identified in the report and the interpretation of such data based on our experience and expertise according to the existing standard of care.

1.3. Scope of Services

EASI's Consulting Service Agreement with Geocon, dated December 8, 1998, outlines the scope of services proposed for the ESA. Geocon performed the services outlined in the referenced Consulting Service Agreement with the following exceptions:

- Historical Sanborn Fire Insurance Maps were sought from the Los Angeles County Public Library collection of maps for the west coast of the United States. No historical Sanborn, Inc. Fire Insurance Maps were available for the subject property from this source.
- Some documents provided by EASI and reviewed at the DTSC and CRWQCB were not summarized in the attached Tables 1, 2, and 3 because they were evaluated as not providing relevant information regarding the environmental status of the subject property. In addition, because Geocon's primary focus was on the environmental condition of Lot B, only generalized environmental information affecting the other subdivided former Hughes lots (i.e., Lots A, C, and D) was provided.

1.4. Site Location

The subject property is located to the northwest of the intersection of Fallbrook Avenue and Roscoe Boulevard and is identified as the Coast Federal Bank – West Hills Property, or as Lot "B". It was formerly one of 4 lots forming the approximately 85.7-acre property occupied by Hughes Aircraft Company and Hughes Missile System Group (hereinafter Hughes) until 1994. The entire former Hughes property is bounded by the Chatsworth Reservoir and residential neighborhoods. The approximate location of the subject property is depicted on the reproduction of a portion of the USGS topographic map for the Calabasas, California quadrangle, dated 1967 (photorevised 1979) and presented as Figure 1. A Site Plan is included as Figure 2. The subject property is further identified by Los Angeles County Assessor's Parcel Numbers 2005-002-001 and 2005-002-002.

2. GEOLOGIC AND GROUNDWATER CONDITIONS

2.1. Geologic Conditions

Geologic information was obtained from the September 3, 1998 Fluor Daniel GTI (GTI) *Additional Site Assessment Report – Vicinity of CM-10 and Buildings 265, 274, and 276* and compared with the State of California Department of Conservation Geologic Map of California Los Angeles Sheet. The GTI Report and review of the USGS "Calabasas, California" topographic quadrangle indicated that the subject property is located at an elevation of approximately 840 to 900 feet above mean sea level (MSL). Surface topography generally slopes to the south, east, and west from a high point located at the center of the northern boundary of the subject property. Surface water is directed to storm drains that flow west to the adjacent Chatsworth Creek. The nearest surface water indicated on the topographic map is the Chatsworth Reservoir and Spillways located within 1/8-mile to the north of the subject property and Chatsworth Creek and Lees Lake located adjacent to the west of the subject property.

According to the GTI Report, the geologic materials found near the surface in the vicinity of the subject property are generally composed of flat-lying, poorly sorted, unconsolidated sands, silts, and clays with occasional gravels. These materials are collectively termed the Cenozoic-age Basin fill and overlie more consolidated geologic units. The thickness of these deposits range from approximately 20 feet along the northern portion of the facility, to nearly 75 feet along the southern portion of the facility. A thin layer (up to 10 feet) of construction fill is present across the subject property.

The subject property is situated on the consolidated bedrock of the Miocene-age Modelo Formation, which locally overlies the Lower Miocene-age Topanga Formation. Older Formations include the Cretaceous Chatsworth Formation, which crops out in the nearby Simi hills. The Modelo Formation is comprised of grayish siltstone and shale, brownish siltstone, clayey siltstone, and clayey shale, with some interbedded grayish diatomaceous shale. Beds of the Modelo Formation appear to dip 45 degrees to the south, as seen from exposures in nearby roadcuts and from lithologic samples taken from onsite soil borings. Near the surface and near the contact with the younger Basin fill, the Modelo Formation is highly weathered.

2.2. Groundwater Quality and Occurrence

Based on a review of a April 15, 1998 GTI Report, groundwater throughout the former Hughes facility (Lots A, B, C, D) was encountered at depths ranging from 9.5 feet to 62 feet below grade. Groundwater in two borings drilled to the south of Building No. 274 on the subject property was

encountered by GTI in September 1998 at depths ranging between 36 feet to 48 feet below grade. The Los Angeles County Department of Public Works Hydrologic Records Section records indicate that depth to water in Well #4699, located approximately 1½ miles to the southeast of the subject property, was measured at 21.9 feet bgs on November 12, 1997. The groundwater gradient across the subject property is generally to the south/southeast, with the exception of the western portion of the subject property where groundwater apparently flows to the west towards Chatsworth Creek. Local water quality tends to be unusable for drinking due to concentrations of total dissolved solids (TDS) exceeding 1,000 mg/L. Because of the high TDS groundwater and because of relatively low yields, no drinking water is reportedly pumped locally from the Cenozoic valley fill sediments or the Modelo Formation.

3. SITE RECONNAISSANCE

Representatives of Geocon conducted a reconnaissance of the subject property on December 28, 1998. Geocon representatives were accompanied during portions of the site visit by Mr. Neal Holdridge of EASI and by Mr. Grant Baker of Home Savings of America. The purpose of the site reconnaissance was to observe existing subject property conditions and to evaluate for evidence of recognized environmental conditions, including hazardous materials and/or wastes. Observations noted during the site reconnaissance are summarized below. Selected photographs of the subject property are presented as Appendix A of this report.

3.1. Onsite Reconnaissance

The subject property was occupied by nine recently vacated buildings, a helipad, and landscaped and paved parking areas at the time of the site reconnaissance. Coast Federal Bank (Coast), as predecessor to Home Savings and Loan (Home), occupied the subject property from 1994 to 1998, using it as professional office space. Most of the office furnishings installed by Coast remained at the time of Geocon's reconnaissance on December 28, 1998. According to Mr. Baker, Coast's use of hazardous materials at the subject property was limited to chemicals used in the Central Engineering Plant (Building No. 263), such as corrosive inhibitors, Freon, petroleum based oils and lubricants, ammonia used in onsite duplicating machinery, and general maintenance and cleaning supplies. Observations made for each of the onsite buildings are provided below.

Building No. 264

Building No. 264 was constructed in 1959 as a kitchen and cafeteria and has retained that use to the time of Geocon's onsite reconnaissance. Evidence of use or storage of hazardous materials or wastes in the building, such as storage drums or containers or staining of the floors and walls, was not

observed during the site visit, nor was it reported historically. A grease trap was verbally reported at Building No. 264 by Mr. Grant, but was not available for observation during the site reconnaissance. One grease dumpster was observed in a car washdown room located adjacent to the west of the Building No. 264. The dumpster was labeled as belonging to Baker Commodities and was observed to be approximately half full of grease. Mr. Baker reported that the grease would be transported offsite for recycling or disposal. We did not observe evidence of environmental concerns inside Building No. 264.

Adjacent to the east of Building No. 264 was an air refrigeration unit associated with the walk-in coolers located in the building. No chemicals or evidence of staining were observed in the area of the refrigeration unit. A patched asphalt area and two apparent monitoring wells were observed in this area. This area is reported as the site of former 10,000-gallon UST (T-10), which contained diesel fuel, and was removed from the subject property in 1991. This UST was connected by piping to three other former diesel USTs (T-7, T-8, and T- 9) located further to the east (discussed under Building No. 281 section). The areas near these former USTs and associated piping is included in the ongoing investigation for the entire former Hughes property, as directed by the CRWQCB and DTSC.

Building No. 281

Building No. 281 was constructed in 1986 and contains office space, a large auditorium, a conference room and a main lobby entrance area. Evidence of use or storage of hazardous materials or wastes in the building, such as storage drums or containers or staining of the floors and walls, was not observed during the site visit. Two hydraulic elevators are present in the building and are serviced monthly by an outside contractor. The elevator equipment rooms were observed to contain elevator machinery consisting of self-contained units with built-in oil reservoirs. A minor amount of oil was observed in the pan of one of the units, however, no evidence of spillage or leakage was observed on the floor of the room.

According to Mr. Baker and the November 30, 1989 McLaren Historical Chemical Use Inventory for the Hughes Missile Systems Group Facility, Building No. 281 contained two maintenance shops and a "control material storage" area, on the basement and first floors. Hazardous materials reported in these areas were limited to insecticide storage and use of dichloromethane (methylene chloride) in the maintenance shops. The extent of use of these materials was described as "quantifiably insignificant" and no further investigation was required. No concerns were identified with regard to chemical, use, storage or disposal at Building No. 281.

Three 12,000-gallon USTs (T-7, T-8, and T-9), containing diesel fuel were removed from the parking area located to the southeast of Building No. 281 in 1991. Soil and groundwater impact from releases from these USTs and associated piping was identified and the area is included in the ongoing onsite soil and groundwater investigation and remediation activities, under guidance of the CRWQCB and DTSC. One monitoring well, CM-8D, was observed in this area. Sampling performed by Fluor Daniel/GTI indicates that groundwater in the vicinity of well CM-8D contains chlorinated volatile organic compounds (VOCs) from an unknown source.

Building No. 271

Building No. 271 was constructed in approximately 1959 and has been used as a paint and maintenance shop. An approximately 135,000-gallon concrete or masonry water test tank is present beneath the building. The water test tank was empty at the time of Geocon's site reconnaissance and was observed from the access point in the floor of the building. According to Mr. Baker, this water test tank was formerly filled with water and used for specialized sonar testing, not for storage of regulated material. Spray painting was reportedly conducted in the building in the late 1980's; however; no evidence of environmental impact was observed or reported from these operations.

Building No. 263

Building No. 263 was constructed in 1959 as the Central Engineering Plant for the entire site. All of the major building systems equipment; i.e. boilers, chillers, air handlers, cooling towers, are located within this building. Hazardous materials observed in the Central Plant included: Freon 11 and 12, corrosion control water treatment chemicals, and small quantities of miscellaneous oils and lubricants stored in flammable materials cabinets. No concerns were noted with regard to handling or storage of these materials and no evidence of significant spillage or leakage was noted on the floors or walls. One hydraulic elevator is present in the building. Observation of the elevator equipment did not reveal evidence of leakage or spillage of hydraulic fluid to the surrounding concrete slab.

A series of concrete filled trenches was observed in the ground floor of the boiler room of Building No. 263. According to Mr. Grant, these trenches formerly contained diesel fuel lines connecting the former USTs located to the east of Building Nos. 264 and 281 with the former diesel boilers located within the building. The current boilers are fueled by natural gas, and the chillers by electricity. These areas were investigated as part of the soil and groundwater investigative and remedial activities conducted at the subject property under the direction of the CRWQCB and DTSC and no evidence of impact to subsurface soils has reportedly been encountered beneath the buildings.

A Los Angeles Department of Water and Power (LADWP) transformer yard was observed adjacent to the east of Building No. 263, containing six large liquid-cooled distribution transformers. The northwesternmost transformer appeared to have staining around its base. According to Mr. Donald Giddings of the LADWP, these transformers are owned and maintained by the LADWP and they are not considered to contain polychlorinated biphenyls (PCBs) as a component of their cooling oil. One monitoring well was observed in the parking area to the east of the transformer yard.

Two former 500 gallon USTs (T-4 and T-5) containing waste oil and sulfuric acid were removed from outside the western area of Building No. 263 in 1984. Two large cooling towers are now present in the former locations of these USTs. Impacts to soil and groundwater from releases of chlorinated and non-chlorinated volatile organic compounds and semi-volatile organic compounds from these tanks have been investigated under the ongoing sitewide investigation and remediation program directed by the CRWQCB and DTSC. One monitoring well and two apparent grout-filled borings were observed near the location of the former USTs.

Building No. 265

Building No. 265 was constructed in 1959 and contained offices, maintenance shops, and two anechoic chambers for the testing of radar impacts to missile guidance systems. At the time of the site visit, only office and document storage areas were observed in the building. Previous investigations did not identify this building as a potential source for soil and groundwater impacts. One hydraulic elevator is present in the building. Observation of the elevator equipment did not reveal evidence of leakage or spillage of hydraulic fluid to the surrounding concrete slab.

A diazo blueprint reproducing unit was observed in a small room on the basement level of the building. No ammonia or other chemicals were observed in the room, however a binder containing Material Safety Data Sheets (MSDS) was observed and containing MSDS' for citric metal cleaner and ammonia. No evidence of chemical mishandling or spillage was observed in this area. The east end of the basement of the building was observed to have numerous cuts in the concrete slab. According to Mr. Baker, these areas were formerly occupied by a loading dock and maintenance shops. Mr. Baker further reported that no significant chemical use occurred in these areas and that the concrete cuts marked the locations of former trenches containing electrical and plumbing conduits for the machinery formerly present. Evidence of water staining was noted in the northern basement areas on walls and floors, however, this is not anticipated to represent an environmental concern.

An enclosed fenced area was observed adjacent to the outside of the northeast corner of the building and was labeled as containing corrosive materials. No storage containers or evidence of hazardous

materials or waste storage, including staining, was observed in this area at the time of the site reconnaissance. Mr. Baker reported that this enclosure originally housed a self-contained emergency generator and later was used for storage of waste ammonia and other photo-processing chemicals pending offsite disposal. Mr. Baker further reported that Safety Kleen was contracted to remove these materials from the subject property; however, manifests of pickup and disposal were not available for review onsite. This area has been investigated by the CRWQCB and DTSC as part of the ongoing sitewide soil and groundwater investigation and remediation program and no concerns have been identified with regard to Building No. 265.

Building No. 274

Building No. 274 was constructed in 1981 and houses a large anechoic chamber for testing of radar impacts to missile guidance systems. At the time of the site visit, the chamber soundproofing had been removed from the exposed steel walls and portion of the building had been used by Coast Federal Bank to house the onsite telephone system equipment. According to a transcript of a November 21, 1994 interview with Hughes employees, mercury may have been present in a soundproofing coating on foam "cones" of the anechoic chamber and, according to Mr. Baker, this material was removed under appropriate manifest to a disposal site in Arizona. No documentation of this removal was available for review onsite. During our site visit, a minor amount of soundproofing material was noted on the floor of the anechoic chamber.

A battery bank associated with an uninterrupted power supply system was observed within the building. An emergency electrical generator with an associated 1,500-gallon aboveground storage tank (AST) containing diesel fuel was observed adjacent to the southwest of the outside of the building. No concerns were noted with regard to these features and no evidence of spillage or leakage from the batteries or the outdoor generator system was observed during the site visit.

The area to the south/southeast of Building No. 274 has been investigated during the course of the sitewide soil and groundwater investigation and remediation activities directed by the CRWQCB and DTSC, most recently in September of 1998.

Building No. 277

Building No. 277 was constructed in 1986 as office space. With the exception of less than 5 gallons of photo-processing chemicals observed in a room in this building, no evidence of hazardous materials or hazardous waste use, storage or disposal was observed. The drain in the photo-processing room did not exhibit staining, nor did the floor. According to Mr. Baker, all used photo-

processing and diazo blueprint chemicals were collected for offsite disposal by Safety Kleen and no such materials were discharged to onsite drains. According to a 1989 Phase I ESA report by McLaren, waste photo-processing chemicals were stored in fifty-gallon drums in Building No. 277 (location not identified) and transported offsite for disposal. The McLaren report also identified the use of "quantifiably insignificant" amounts of mineral oil on the first floor of this building; however, no environmental concerns were noted with regard to the use, storage or disposal of the mineral oil.

One hydraulic elevator is present in the building. Observation of the elevator equipment did not reveal evidence of leakage or spillage of hydraulic fluid to the surrounding concrete slab. A self-contained emergency electrical generator was observed outside the southwest end of the building. This generator was equipped with a built-in diesel fuel reservoir. No evidence of leakage or spillage of fuel or oil was observed on the ground surrounding the generator.

Two fenced enclosures were observed to the southwest of the building. These areas were not accessed but appeared to contain electrical supplies for parking area lights. No evidence of chemical use or storage was observed in these areas.

A helicopter landing pad was observed further to the southwest of Building No. 277. No evidence of onsite fueling or servicing of helicopters or other vehicles was observed or reported.

Building No. 276

Building No. 276 was constructed in 1984 as office space. No evidence of hazardous materials or waste use, storage or disposal was observed, with the exception of one former photo-processing room. No hazardous materials or wastes remained in this room and the drain in the photo-processing room did not exhibit staining, nor did the floor. According to Mr. Baker, all used photo-processing and diazo blueprint chemicals were collected for offsite disposal by Safety Kleen and no such materials were discharged to onsite drains. According to a 1989 Phase I ESA report by McLaren, waste photo-processing chemicals were stored in fifty-gallon drums in Building No. 277 (location not identified) and transported offsite for disposal.

A self-contained emergency electrical generator was observed outside the north end of the building. This generator was equipped with a built-in diesel fuel reservoir. No evidence of leakage or spillage of fuel or oil was observed on the ground surrounding the generator.

Building No. 261

Building No. 261 was constructed in 1959 as office space. This building sustained structural damage from the Northridge earthquake in 1994 and reportedly has been vacant since that time. No evidence of the use, storage, or disposal of hazardous materials or wastes at this building was observed or reported. One room in the basement was identified as a print-shop, however, Mr. Baker indicated that only computer generated forms were printed in this location and no wet or dry inks, paints, solvents, or thinners were used at this location. No evidence of such activities, such as staining of walls or floors or evidence of chemical storage was observed in this room. Two cable-type elevators were observed at this building. No hydraulic oils are used in these systems, and as the elevator machinery is located on the roof of the building, the potential for environmental impact from releases of any hazardous materials is considered remote.

A self-contained emergency electrical generator was observed outside the east end of the building. This generator was equipped with a built-in diesel fuel reservoir. Minor staining was noted around the base of the generator, apparently from leakage or spillage of motor oil or diesel fuel. The extent of the staining does not indicate a significant potential for environmental impact to subsurface soils from hazardous materials and this area has been investigated during the course of removal and remediation of the soils surrounding former USTs T-5 and T-6 which were located at the western end of the building in the current location of the cooling towers.

Other Site Features

With the exception of the LADWP electrical transformer station described above, only type "AA" or "dry-type" electrical transformers were observed within the onsite buildings. These types of electrical transformers do not use oil as a coolant and are not considered to pose an environmental concern at the subject property.

Other than the empty former water test tank present beneath Building No. 271, evidence of USTs remaining onsite was not observed. Six USTs have been removed from the subject property since 1984 and releases from five of these UST systems are currently monitored under the sitewide soil and groundwater investigation and remediation program, as directed by the CRWQCB and DTSC. One , approximately 1,500-gallon "Con-Vault" AST containing diesel fuel for an associated emergency electrical generator is present adjacent to Building No. 274.

Eleven monitoring wells are currently present onsite, associated with the ongoing sitewide soil and groundwater investigation and remediation. Treated groundwater discharged from the treatment

units located offsite on Lot C, to the north of the subject property, is used for irrigation on Lot C, under appropriate permits from Los Angeles County and the CRWQCB.

Dumpsters for solid waste were observed at each building location. The dumpsters are owned and maintained by Foothill Waste Disposal Company and evidence of improper dumping or disposal of hazardous materials or wastes was not observed in the dumpster areas.

Utilities reported as providing service to the site were identified as follows:

Electricity:	Los Angeles County Department of Water and Power
Natural Gas:	Southern California Gas Company
Water:	Los Angeles County Department of Water and Power
Sewer:	Los Angeles County Sanitation District
Refuse:	Foothill Waste Disposal Company

With the exception of areas and features noted above and the ongoing soil and groundwater investigation and remediation program, evidence of recognized environmental conditions were not observed at the site. Evidence of dumping of hazardous materials, distressed vegetation, significant soil disturbance or discoloration, ponded or pooled water, septic systems, pits, ponds, or sumps, or indications of hazardous materials use, storage or disposal, was not observed on the subject property.

3.2. Off-Site Observations

Representatives of Geocon observed the adjacent properties from the subject property and from public thoroughfares on December 28, 1998, to assess if facilities and/or structures located on these properties are operated by entities that potentially use, store, generate, or dispose of hazardous materials/wastes.

The subject property is bounded by Lot C (Regent's Property) to the north. At the time of Geocon's site reconnaissance, substantial construction work was underway at the buildings on this property. Reportedly, Lot C is being redeveloped as a business park. Lot C has been impacted by releases of hazardous materials dating from the Hughes occupancy of the entire site and is part of the ongoing soil and groundwater investigation and remediation activities directed by the CRWQCB and DTSC. The subject property has been environmentally impacted by hazardous materials and wastes originating from Lot C. Beyond Lot C is open space containing spillways for the adjacent north Chatsworth Reservoir.

To the east is Fallbrook Avenue followed by residential neighborhoods and a playground for Rockwell Employees. Further east from the playground is Rockwell AID/C at 8500 Fallbrook

Avenue. The Rockwell facility was not visible from Fallbrook Avenue and was not observed during the site visit.

To the south of the subject property are Lots A and D. A large building, reportedly a private school owned by DeVry Inc., is under construction at Lot A. Lot D remains as paved parking areas but is projected to be developed as a Los Angeles Police Department (LAPD) 911 Emergency Center. Roscoe Boulevard, lined by commercial properties follows to the south.

To the west is open space and Lees Lake and the Chatsworth Creek followed by residential areas.

4. SITE HISTORY

4.1. Review of Historical Aerial Photographs

Historical aerial photographs available from Continental Aerial Photography, Inc. (Continental) for the years 1952, 1970, 1972, 1979, 1986, 1988, 1990, 1993, and 1995 were reviewed. Historical Sanborn Fire Insurance maps and City Directories were sought from the Los Angeles County Public Library but were not available for the subject property and vicinity. Observations noted during the historical photograph review are discussed below. In addition, copies of three undated, low-altitude, oblique aerial photographs of the subject property were provided by EASI and are presented in the rear portion of Appendix A.

1952 Aerial Photograph – The subject property appeared as agricultural land with one cluster of rural residential buildings located roughly at the center of the property. Surrounding properties were also agricultural with an area of construction or grading in the location of the residential neighborhood present today to the east of Fallbrook Avenue. A cluster of rural residential type structures was also present to the northeast of the subject property and the Chatsworth Reservoir was present in its current location.

1970 Aerial Photograph - The subject property was developed with Building Nos. 261, 263, 264, 265 and 271, the helipad, and paved parking areas. A few small unidentifiable features appeared in the parking lot to the east of Building No. 264, the current location of the well CM-8D plume. To the north of the subject property was the remainder of the Hughes facility (currently Lot C), including cooling ponds in the center of that property. Areas to the west and south remained undeveloped and residential neighborhoods were present to the east, across Fallbrook Avenue.

1972 Aerial Photograph – The subject property and vicinity appeared similar to the configuration observed on the 1970 photograph.

1979 Aerial Photograph - The subject property appeared to be developed with the five buildings observed on the 1970 photograph and with eight additional structures which were not present during

the December 28, 1998 site visit. These buildings appeared in the center of subject property, to the west of Building No. 265. Offsite areas appeared developed similar to areas observed during the December 28, 1998 site visit.

1986 Aerial Photograph - The subject property was developed with the five buildings observed since 1970 and Building No. 276. Three of the eight structures observed in the 1979 photograph remained as well. An excavated or otherwise disturbed area appeared roughly in the area of the former location of USTs T-7, 8, and 9, to the west of the current location of Building No. 281. Other areas appeared similar to their depiction in the 1972 photograph.

1988 Aerial Photograph - The subject property was depicted essentially the same as during the December 28, 1998 site visit with all nine buildings present. North of the subject property was Lot C, to the east was Fallbrook Avenue followed by residential areas, to the south were Lots A and D. Lot A remained paved parking and Lot D was occupied by a recreation area with fields and a baseball diamond. To the west was paved parking and vacant land.

1990 – 1993 Aerial Photographs - The subject property and vicinity appeared similar to the 1988 photographs.

1995 Aerial Photograph - The subject property and surrounding properties appeared relatively unchanged from the 1993 photograph; however, large piles of assumed construction debris were present in several of the parking lots onsite.

4.2. Historical Ownership

A Chain-of-Title report was not provided for review. Based on a review of historical documentation Geocon has compiled the following chronology of subject property ownership. The subject property was originally developed as an aerospace research and development facility in 1959 by Bunker Ramo. Prior to this time the subject property was used as agricultural land, and may have also been used as a filming site. Hughes Aircraft Company and Bunker Ramo jointly operated onsite through the 1960's when Hughes assumed sole ownership of the site. Rocketdyne was a tenant of the property at one time, according to the DTSC. Hughes vacated the site in approximately 1994 and Coast Federal Bank acquired the property and divided it into four lots which exist today. Coast Federal Bank and its successer Home Savings and Loan maintained administrative offices and a training center onsite until they vacated the subject property in 1998. Raytheon Missiles Systems Group (Raytheon) acquired Hughes in December 1997 and since that time has assumed financial responsibility for ongoing and future environmental investigations and remediation activities at the former Hughes facility, including the subject property.

4.3. Interview - Property Owner Representative

Mr. Grant Baker, of Home Savings of America was interviewed regarding historical use of the subject property. Mr. Baker was an employee of Hughes Aircraft Company for nineteen years and has extensive knowledge of subject property conditions and operations. Information obtained from Mr. Baker regarding historical subject property operations is presented in Section 3.0.

5. GOVERNMENTAL AGENCIES - RECORDS REVIEW

VISTA Environmental Solutions, Inc., retained by Geocon, performed a search of federal and state governmental information sources according to prescribed search distances referenced in American Society for Testing and Materials (ASTM) Designation E 1527-97. A reproduction of the report prepared by VISTA is presented in Appendix B.

5.1. VISTA Report

The report prepared by VISTA entitled *Site Assessment Plus Report* dated January 5, 1998, includes a Site Distribution Summary, a Map of Sites Within 1¼-Miles, a Map of Sites Within 3/8-Mile, a Street Map, a Site Inventory, a Description of the Databases Searched, and Details of the Property, Adjacent Area, and Unmapped Sites. The Unmapped Sites included in the report identified sites that have incomplete address information and could not be plotted. Based on a review of the Unmapped Sites list and comparison with local street maps, none of the Orphan sites appear to be within one mile of the subject property.

A description of each database referenced by VISTA is provided in the report presented as Appendix B. The acronyms used in the VISTA report are defined in the rear portion of the VISTA report. The findings of the VISTA report are discussed as follows. The identification number as plotted in the VISTA report for each listed property is reported in parenthesis to the right of each facility name.

5.1.1 Subject Property

The subject property was identified in the VISTA Report on the ERNS, LA County Site Mitigation, UST, CORTESE, RCRA-Large Generator, CORRACTS, RCRA-Violations, RCRA-TSD CORRACTS, State Equivalent CERCLIS, State LUST, and NFRAP lists. It is referenced variously as part of the Hughes Aircraft, Hughes Aircraft Company, Hughes Missile Systems, Hughes Missile Systems Company, and Hughes T-3 Site. The site description and address refers to the entire former Hughes facility which includes not only the subject property (Lot B) but also Lots A, C, and D. According to the VISTA report, the Hughes facility has had releases of gasoline (not described), volatile organic compounds (VOCs) (not described), solvents (not described) and formaldehyde (20-

gallons). The current site status is reported as "remediation underway". Fourteen various sized USTs used for storing unleaded gasoline and miscellaneous chemicals are reported as closed and removed from the entire former Hughes facility. According to the State LUST list information contained in the VISTA report, solvents and VOCs were released from the onsite USTs and investigation of the releases is currently underway. Nine undefined RCRA violations are reported from 1989 to 1994. The site is not identified on the EPA NPL (Superfund) list.

5.1.2. Offsite Properties

- Rockwell AID/C (2), at 8500 Fallbrook, is located across Fallbrook Avenue to the northeast of the subject property and is likely hydraulically cross-gradient of the subject property. The Rockwell AID property is reported as a registered UST site and as an RCRA Small Quantity Generator of hazardous waste (SmGen). SmGen's are defined as facilities which generate at least 100 kilograms but less than 1,000 kilograms per month of non-acutely hazardous waste. One registered UST is reported at the property but no other information regarding the UST was reported. According to the VISTA report, no indications of violations or release of hazardous materials are identified for this property and based on this information, it is not considered to have significant potential to have affected environmental conditions at the subject property.

- Chatsworth Reservoir (2), at 8600 Fallbrook, is located approximately 1/8-mile to the north of the subject property and is potentially hydraulically upgradient of the subject property. The Chatsworth Reservoir property is reported as having one registered UST. Information regarding the status of this UST is not documented in the VISTA report. According to the VISTA report, no indications of violations or release of hazardous materials are identified for this property and based on this information, it is not considered to have significant potential to have affected environmental conditions at the subject property.

- Fire Station 106 (3), at 23004 Roscoe Boulevard, is located slightly less than ¼-mile to the south of the subject property and is likely to be hydraulically downgradient of the subject property. This site is identified as a registered UST site with one UST of unreported status, and as an RCRA SmGen. According to the VISTA report, no indications of violations or release of hazardous materials are identified for this property and based on this information, it is not considered to have significant potential to have affected environmental conditions at the subject property.

- Lakeview Cleaners (4), at 22736 Roscoe Boulevard, is located slightly over ¼-mile to the southeast of the subject property and is likely to be hydraulically downgradient of the subject property. This site is identified as an RCRA Large Quantity Generator of Hazardous Wastes (LgGen). LgGen's are defined as facilities which generate at least 1,000 kilograms per month of non-acutely hazardous waste or 1 kilogram per month of acutely hazardous waste. According to the VISTA report, no indications of violations or release of hazardous materials are identified for this property and based on this information, it is not considered to have significant potential to have affected environmental conditions at the subject property.

5.2. Agency Communications and Review of Records at Public Agencies

5.2.1. California Department of Conservation Division of Oil, Gas and Geothermal Resources (DOGGR)

The California Department of Conservation Division of Oil, Gas, and Geothermal Resources (DOGGR) Field Map (W 1-2) (June 19, 1986) was reviewed by a representative of Geocon to obtain information concerning the subject property and properties situated within approximately ¼-mile of the subject property. The map depicts the location of oil and gas wells. The map did not indicate the existence of oil or gas wells within ¼-mile of the subject property.

5.2.2. City of Los Angeles Building and Safety Department

The City of Los Angeles Building and Safety Department was visited in person on December 29, 1998. Building permits for the original buildings constructed by Bunker Ramo in 1959-1961 on the entire former Hughes Aircraft Company were identified, as well as various tenant improvements, plumbing and electrical permits. No indications of the use or storage or hazardous materials at the subject property was identified from this review. Mr. Baker of Home Savings of America stated that Hughes Aircraft Company had requested many of the original building permits to be destroyed for security reasons.

5.2.3. Los Angeles City Fire Department – Underground Storage Tank Division

The Los Angeles City Fire Department (LAFD) was visited by Geocon on December 29, 1998. Files reviewed at this agency documented the removal of onsite USTs T-10, T-7, T-8, and T-9, as well as removal of soil impacted by diesel fuel and VOCs. The file also contained information regarding removal and investigation of USTs and clarifiers located on Lot C, located adjacent to the north of the subject property. Oversight for the site investigation was referred to the CRWQCB on December 23, 1991 and no closure letters for removal of the USTs was found in the files.

5.2.4. Health Department, Los Angeles County

The Los Angeles County Health Department was contacted in writing on December 23, 1998. At the time of this report writing, Geocon has not received a response from this agency. Geocon will report any pertinent information received from this agency in a letter addendum to this report.

5.2.5. Department of Public Works, Los Angeles County

The Los Angeles County Department of Public Works (LACDPW) was visited in person on January 13, 1999 and reported that no environmental files were found for the subject property. The LACDPW is not an oversight agency for areas which are contained within City of Los Angeles boundaries.

5.2.6. California Regional Water Quality Control Board (CRWQCB)

Ms. Regina Simms of the CRWQCB reported by telephone on December 23, 1998 that files were found for the subject property in the Site Cleanup Section of the CRWQCB. No files were reported by the WIP, SLIC, NPDES or UST Sections. CRWQCB staff reported that all files previously held by these sections had been transferred to the Site Cleanup Section. The Site Cleanup Section files were reviewed on January 11, 1999 by Mr. Robin Ferber, Senior Managing Geologist, of Geocon. The subject property is included in an ongoing investigation of soil and groundwater impacts from onsite USTs T-5, T-6, T-7, T-8, T-9, and T-10, in addition to environmental impacts from USTs and other features formerly located on Lot C, located adjacent to the north of the subject property. The review of these files is described in detail in Table 2.

5.2.7. South Coast Air Quality Control Board (SCAQMD)

Ms. Flor Tumambing of the SCAQMD reported in writing on January 6, 1999 that numerous files were found for the subject property. A list of permitted equipment was provided comprising equipment permitted between 1967 and 1994. It is not possible to discern which permits apply to the subject property rather than those applicable to Lots A, C, and D. Permitted equipment included: soldering equipment, storage tanks, plating equipment, ovens, degreasers, spray booths, solvents, scrubbers, chemical mills, film cleaning, cooling towers, boilers, flues, circuit board etchers and cleaners, internal combustion engines (emergency generators), and soil vapor extraction treatment systems. A complete list of the equipment provided by SCAQMD is provided in Appendix C.

5.2.8. California – EPA, Department of Toxic Substance Control (DTSC)

Mr. Glen Castillo of the DTSC reported by telephone on January 5, 1999 that files were found for the subject property. The files were reviewed on January 14, 1999 by Mr. Robin Ferber of Geocon. The subject property is included in an ongoing investigation of soil and groundwater impacts from onsite USTs T-5, T-6, T-7, T-8, T-9, and T-10, VOCs detected monitoring wells CM-8D and CM-10, eight Areas of Concern and three Solid Waste Management Units identified by the DTSC, in addition to environmental impacts from USTs and other features formerly located on Lot C, located

adjacent to the north of the subject property. The review of these files is described in detail in Table 3.

5.3. Interviews with Representatives of the CRWQCB and DTSC

5.3.1. Interview with Ms. Manjulika Chakrabarti of the CRWQCB

An interview was conducted with Ms. Manjulika Chakrabarti, Technical Support Unit, CRWQCB Los Angeles Region by Mr. Robin Ferber, Senior Managing Geologist with Geocon on January 5, 1999. Ms. Chakrabarti is currently the project manager for the Raytheon (formerly Hughes) Canoga Park project. Ms. Chakrabarti indicated some existing monitoring wells will be closed and some new wells may be added in Lot C. Ms. Chakrabarti indicated to the best of her knowledge, Raytheon (formerly Hughes) has complied with the requests of the CRWQCB.

5.3.2. Interviews with Mr. Phil Blum and Mr. Phil Chandler of the DTSC

Mr. Phil Blum, Project Manager, Southern California Permitting Branch, DTSC and Mr. Philip Chandler, Supervising Hazardous Substances Engineering Geologist, Southern California Permitting Branch, DTSC were interviewed together on January 14, 1999 by Mr. Robin Ferber of Geocon and Mr. Neal H. Holdridge, Environmental Manager of EASI. Mr. Blum was also interviewed by telephone by Mr. Ferber on January 8, 1999.

During the January 8, 1999 telephone conversation with Mr. Ferber, Mr. Blum indicated that he has been managing the project actively since April 1998. Mr. Blum indicated that the DTSC has notified Raytheon to conduct activities at the site and that Raytheon has not performed these activities. The activities include providing a post-closure permit application for UST T-3 and sampling for hexavalent chromium in the area beneath the former Hazardous Waste Storage Area. Mr. Blum indicated that Raytheon has also been asked to do Corrective Action activities for environmental concerns associated with Building No. 269 (Lot C). Mr. Blum indicated that the DTSC has been shorthanded in response to information and clarifications requested by Raytheon. Mr. Blum indicated the most significant groundwater problem is where the VOCs are present beneath UST T-3. In Mr. Blum's opinion, Raytheon has not defined the lateral and vertical extent of contamination beneath UST T-3. Mr. Blum indicated that Raytheon has contested the necessity of providing a post-closure permit application for UST T-3. Mr. Blum indicated that a DTSC compliance enforcement action may be needed if Raytheon continues to contest the post-closure permit application required for UST T-3.

Mr. Blum indicated that Mr. Chandler is a more senior level DTSC representative and recommended discussing the project with both of them during Mr. Ferber's file review on January 14, 1999. During the joint interview with Mr. Blum and Mr. Chandler on January 14, 1999, Mr. Chandler indicated that Raytheon's position is that the post-closure permit application for UST T-3 is unnecessary. Mr. Chandler indicated that the DTSC has sent three letters to Raytheon to indicate they are not in compliance with the post-closure requirements. The DTSC indicated that they are in the process of preparing a letter providing Raytheon with 90-days to respond and comply to the post-closure application requirements for UST T-3.

Both Mr. Chandler and Mr. Blum indicated that the DTSC still needs to sign off on the AOCs and SWMUs previously identified and that further investigations associated with AOCs and SWMUs are possible for the subject property (i.e., Lot B). Mr. Chandler and Mr. Blum both indicated that they have been short staffed and have not responded to Raytheon's requests in a timely manner. They indicated the DTSC is the lead agency for Corrective Action and closure and post-closure of the permitted units under RCRA. The CRWQCB was described by Mr. Chandler as the lead agency for groundwater protection for the whole former Hughes facility.

Mr. Chandler indicated that the City of Los Angeles may request an environmental clearance by the DTSC prior to authorizing the construction of any building on the former Hughes property. Mr. Chandler also stated that the DeVry Inc. property (Lot A) located south of the subject property had to acquire an environmental clearance letter for the City of Los Angeles from the DTSC prior to the construction of their building.

Mr. Chandler was aware of the elevated uranium and radium levels detected previously in groundwater beneath the site, but did not have an explanation as to the source of the detections. Mr. Chandler did not rule out the possibility that the DTSC may further investigate the radioactivity issue at a later time. Mr. Chandler indicated that Rocketdyne was reportedly a tenant at the site in the past.

6. CONCLUSIONS AND RECOMMENDATIONS

The conclusions and recommendations resulting from the performance of this Enhanced ESA are summarized below:

- During a site reconnaissance of the subject property, the approximately 30-acre subject property was occupied by nine buildings and landscaped and paved parking areas. With the exception of onsite features associated with the ongoing groundwater monitoring program and potential impacts associated with the Raytheon soil vapor and groundwater extraction and treatment

systems, evidence of "recognized environmental conditions" was not observed during our site reconnaissance of the subject property.

- Raytheon acquired Hughes in December 1997 and since that time has assumed financial responsibility for ongoing and future environmental investigations and remediation activities at the former Hughes facility, including the subject property.

- Obvious evidence of hazardous materials use, storage or disposal was not observed onsite in the aerial photographs reviewed. The subject property appears to have been used for agricultural purposes prior to development as an aerospace research and development facility in 1959. Construction of onsite buildings and features occurred roughly from 1959 to 1986.

- Onsite topography slopes to the south, east, and west from a high point located roughly at the center of the northern boundary of the subject property. Groundwater beneath the subject property flows to the south-southeast with the exception of the Lot C area northwest of the subject property where groundwater flows to the west towards Chatsworth Creek.

- The subject property was identified in the information sources reviewed by VISTA. All of the subject property listings appear to relate to the ongoing soil and groundwater investigations at the subject property. Several businesses listed by VISTA in their report were within the appropriate search radii used for this ESA. The properties listed by VISTA are not considered likely to impact soil and groundwater beneath the subject property with hazardous materials based on their distance from the subject property, their location relative to the local hydraulic gradient, and/or the absence of information indicating releases of hazardous materials originating from the listed properties.

- Releases of diesel fuel, chlorinated and non-chlorinated volatile organic compounds (VOCs), aromatic VOCs, and semi-volatile organic compounds (SVOCs) to soil and/or groundwater have been documented onsite. Investigation of impacts to soil and groundwater from these substances has been ongoing since 1989 under the direction of various regulatory agencies including the City of Los Angeles Fire Department, CRWQCB, California Department of Health Services, and the DTSC. The DTSC and the CRWQCB are currently the key environmental agencies involved at the subject property and neighboring former Hughes properties.

- Four USTs containing fuel oil (T-7, T-8, T-9, and T-10) and two USTs containing waste oil and sulfuric acid (T-5 and T-6) were identified at the subject property. Five of these USTs exhibited evidence of leakage; one of the USTs containing fuel oil did not apparently leak. Historical

remedial activity on Lot B consisted of excavation and offsite disposal of soils impacted by the five USTs, which has been documented in previously generated environmental reports.

- The review of environmental documents indicate that soil and groundwater beneath the subject property have been impacted by VOCs in two areas. One of the areas where groundwater has been impacted by VOCs is located to the south of Building No. 281 and east of Building No. 264. Groundwater samples collected from groundwater monitoring well CM-8D have shown the presence of VOCs from an unknown source. Hughes' environmental consultant estimated that approximately 0.2 gallons VOCs caused the impact to groundwater discovered in that area. Identifying the source of the VOCs detected in the well CM-8D area has been and remains one of the major concerns of the DTSC. Soil vapor samples collected in the area of well CM-8D have not been conclusive in identifying a source of the VOCs detected in the groundwater. The possibility exists that the DTSC may require Raytheon to conduct further environmental investigations in this area. It may be prudent to conduct indoor air monitoring for VOCs in Building Nos. 263, 264, and 281 to evaluate potential exposure concerns to future building tenants.

- The second area where groundwater impacts by VOCs were detected is in the area of monitoring well CM-10 located offsite to the south-southeast of Building No. 274. Freon 11 was the primary constituent of concern detected in groundwater from this well. A soil vapor plume comprised primarily of Freon 11 and other VOCs was identified onsite and to the south of Building No. 274 in area hydraulically upgradient of monitoring well CM-10. In addition, groundwater well MW-31, located onsite in the central portion of the Freon 11 soil vapor plume contained Freon at concentrations equal to the US EPA Maximum Contaminant Level (MCL) established for groundwater. The source of the Freon 11 soil vapor plume is speculated by Raytheon to be from air conditioning equipment repairs that were conducted in the unpaved portions of the parking lot during the 1960s. Aside from groundwater monitoring, Raytheon has recommended that further investigation of the Freon 11 soil vapor and groundwater plume be discontinued. The DTSC has not accepted Raytheon's recommendation for this area and therefore, the potential exists that the DTSC will require future soil and/or groundwater investigations in this area.

- The DTSC identified eight Areas of Concern (AOCs) and three Solid Waste Management Units (SWMUs) on the subject property that may require further investigation. Based on the findings of a soil and groundwater investigation documented in a September 1998 report prepared by GTI, Raytheon requested that the DTSC de-list two of the SWMUs and three of the AOCs located in southern portion of the subject property. Geocon did not find a written response from

the DTSC regarding Raytheon's request for de-listing. The DTSC should be contacted to evaluate the status of the AOCs and SWMUs and whether any of them have been de-listed.

- Other SWMUs and AOCs were identified by the DTSC for Lot C, located adjacent to and to the north of the subject property. Lot C also has a former Hazardous Waste Storage Area for which Raytheon has not yet completed its DTSC approved Closure Plan, and a UST designated as T-3, which is a regulated unit and subject to post-closure care requirements as specified in the California Code of Regulations, Title 22. Soil vapor and water extraction and treatment systems are active in the northern portion of Lot C. Treated water from the extraction system is solely on Lot C, for irrigation of landscaped areas, under permit from the CRWQCB; however, the treatment system is currently shut down due to construction activities ongoing in the northern portion of Lot C.

- According to a November 21, 1994 interview with Hughes employees, mercury may have been present in a soundproofing coating on foam "cones" of the anechoic chamber present in Building No. 274. This soundproofing material was reportedly removed under appropriate manifest to a disposal site in Arizona. During our site reconnaissance, a minor amount of residual soundproofing material was noted on the floor of the anechoic chamber. A Certified Industrial Hygienist should be retained to evaluate for the presence of mercury in the residual soundproofing material observed in the anechoic chamber.

- Personal interviews conducted with the DTSC indicate that the City of Los Angeles may request DTSC approval prior to issuance of future building permits at the subject property. DTSC communications with DeVry Inc. who is developing Lot A to the south of the subject property indicated that the DTSC may require access to their property for soil and groundwater investigations/remediation should future evidence of environmental impacts be discovered on Lot A. Appropriate personnel at the City of Los Angeles should be contacted to evaluate the potential involvement of the DTSC in the acquisition of Building Permits for the subject property. In addition, DTSC input should be obtained regarding their concerns if new structures are built in designated areas of the subject property.

- Groundwater beneath the subject property and adjoining lots contains levels of uranium and radium above drinking water standards. Groundwater monitoring wells CM-8D and CM-10 generally contain higher levels of uranium and radium in the groundwater, when compared to the other wells throughout the former Hughes facility that were sampled. Previous investigations concerning the presence of these radioactive materials concluded they were naturally occurring and due to local variations in geological deposits. The prior investigations concluded that no man-made radionuclides were indicated. No surface soil investigations regarding the presence

of radioactive materials have been conducted at the site. Documents listing the radioactive materials formerly used by Hughes indicate that Hughes' operations have not served as the source for the radioactivity discovered in groundwater. It may be prudent to conduct a radon gas investigation in the buildings onsite to investigate potential radioactive exposure concerns to Lot B building tenants.

- The northern portion of Lot C is undergoing remediation under the guidance of the DTSC and CRWQCB. According to the DTSC, Raytheon is in violation of Title 22, California Code of Regulations for not having submitted an application for post-closure of UST T-3. In addition, the DTSC has asked Raytheon to investigate the lateral and vertical extent of hexavalent chromium detected in soil beneath the former hazardous waste storage area. Raytheon has issued written complaints to the DTSC regarding the DTSC's lack of administrative response concerning environmental issues at the site. The effect of these outstanding issues between the DTSC and Raytheon on the proposed acquisition of Lot B is considered of minimal impact in compliance with all directives issued by the oversight agencies. No additional environmental concerns were identified based on the scope of work performed for this Phase I ESA.

As of the date of this report, one regulatory agency referenced in Section 1.3 has not responded to Geocon's request for environmental information. If a response is received from the referenced agency which affects the conclusions of this report, an addendum letter will be provided to TCSCPR, EASI and MEPT.

7. LIMITATIONS

This Phase I environmental site assessment report has been prepared solely for TCSCPI, EASI, and MEPT in consideration of TCSCPI's, EASI's, and MEPT's requirements. Other parties may rely on the findings and conclusions of the report for informational purposes only. However, TCSCPI, and EASI and other parties who may rely on the findings and conclusions of the report should recognize that this report is not a comprehensive site characterization and should not be construed as such. The findings and conclusions in this report are predicated on a site reconnaissance, a review of specified regulatory records, and a review of the historical usage of the property as presented in this report.

The information obtained is only relevant for the dates of the records reviewed or as of the date of the latest site visit. Thus, the information contained herein is only valid as of the date of the report, and will require an update to reflect recent records review/site visits. Therefore, the report should only be deemed conclusive with respect to the information obtained. No guarantee of the results of the study is implied within the intent of this report or any subsequent report, correspondence or consultation, either expressed or implied. The services performed were conducted in accordance with the local standard of care in the geographic region at the time the services were rendered. TCSCPI, EASI and MEPT should also understand that asbestos, lead-based paint, radon, lead in drinking water, wetlands, and methane gas were not addressed in the scope of services of this report.

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We trust this report provides TCSCPI, EASI, and MEPT with the information you require at this time. Should you have any questions regarding the information presented in this report, please call us at (213) 538-1282.

GEOCON ENVIRONMENTAL CONSULTANTS, INC.

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Robin M. Blanchard
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8. REFERENCES

California Department of Toxic Substance Control (DTSC), 1999, agency visit, January 14

California Department of Conservation Division of Oil, Gas, and Geothermal Resources (DOGGR), 1986 Field Map (W 1-2), June 19

California Department of Conservation, Geologic Map of California, Los Angeles Sheet, 1969

California Regional Water Quality Control Board, 1999, personal visit, January 11

Los Angeles County Health Department, 1998, written request, December 28

Los Angeles County Department of Water and Power, 1999, telephone conversation with Mr. Donald Giddings, January 6

Los Angeles County Public Library, 1998, personal visit, December 29

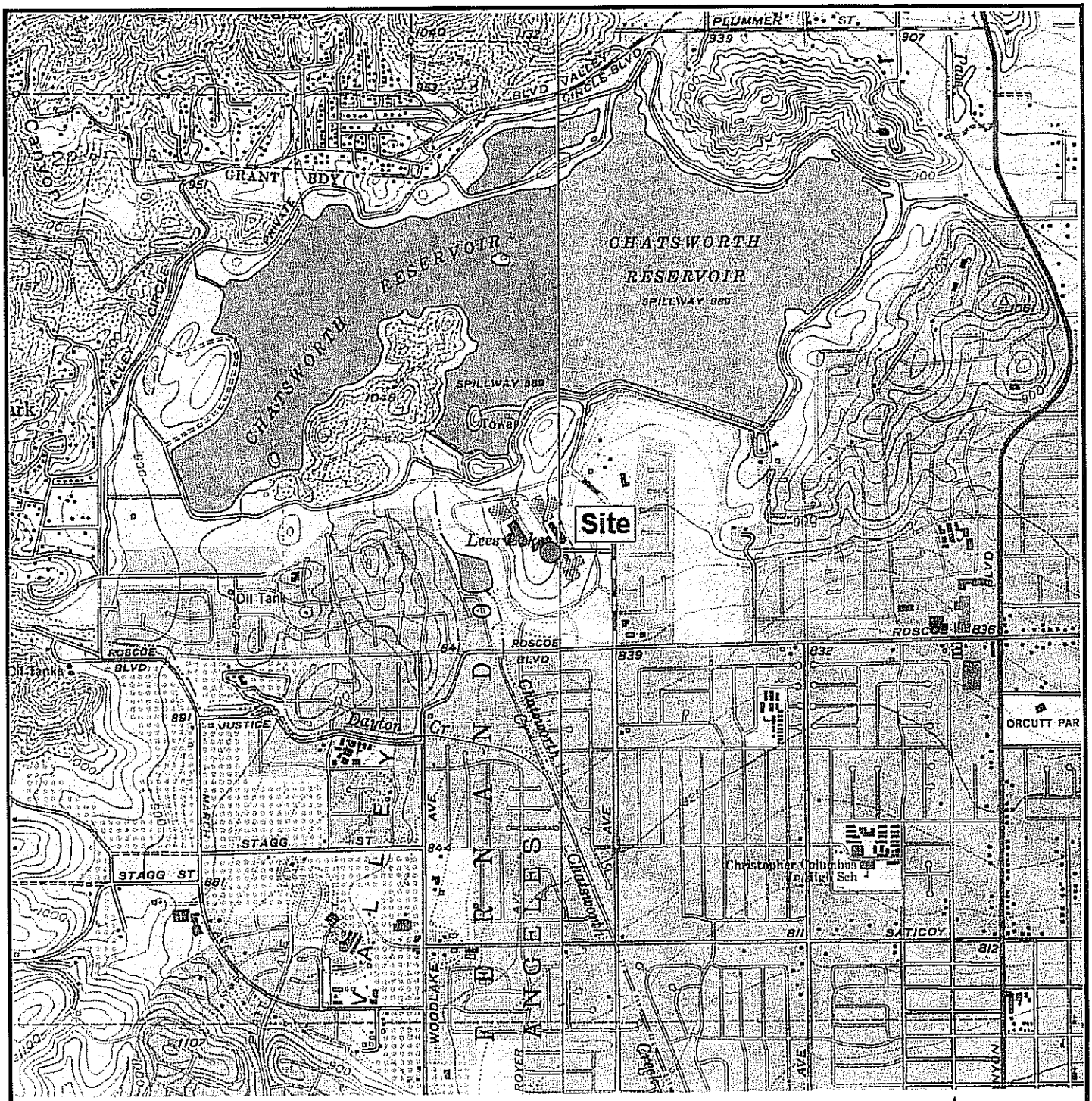
City of Los Angeles Building and Safety Department, 1998, agency visit, December 29

City of Los Angeles Fire Department, 1998, agency visit, December 29

South Coast Air Quality Control Board (SCAQMD), 1999, written correspondence, January 9

United States Geologic Survey 7.5 minute, Calabasas, California quadrangle, 1967, photorevised 1979

Note: Other documents provided by EASI or reviewed at the CRWQCB and DTSC are referenced in the attached Tables 1, 2, and 3.



SOURCE : USGS CALABASAS, CALIFORNIA
7.5' TOPOGRAPHIC QUADRANGLE, 1967
PHOTO REVISED 1979

SCALE : 1" = 24,000'

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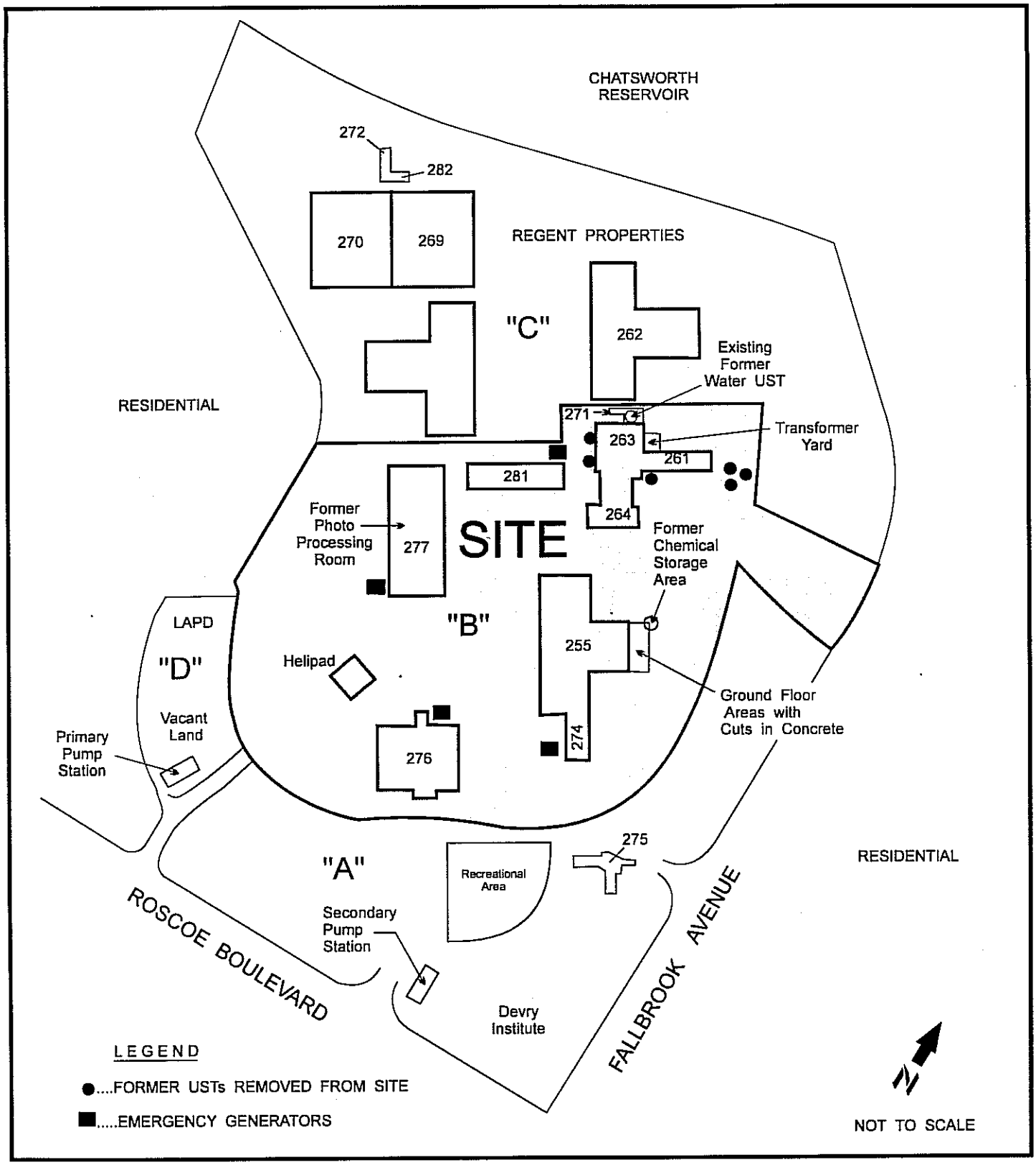
VICINITY MAP

COAST WESTHILLS PROPERTY
8433 FALLBROOK AVENUE
CANOGA PARK, CALIFORNIA

DATE JAN. - 1999	PROJECT NO. A8021 - 06 - 01	FIG. 1

LAVIC



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RJF/ RSS		DSK / E0000

SITE PLAN

COAST WESTHILLS PROPERTY
8433 FALLBROOK AVENUE
CANOGA PARK, CALIFORNIA

DATE JAN. - 1999	PROJECT NO. A8021 - 06 - 01	FIG. 2

A8021RB

ESTPL2.DGN

TABLE 1: SUMMARY OF ENVIRONMENTAL DOCUMENTS PROVIDED BY EASI, INC.*

Date	From	To	Subject/Title	Comments:
11/30/89	McLaren	Hughes Missile Systems Company (HMSC)	Potential Source Area Investigation Report	This report presents the results of the historical chemical use inventory performed at the Hughes Missile System Group Facility in Canoga Park, California. This report was requested by California Regional Water Quality Control Board. The reports summarized the chemical use inventories for all the buildings at the Hughes facility. This includes Building Nos. 261, 263, 264, 265, 271, 274, 276, 277, and 281. The purpose of the report was to document all relevant chemical use areas at the facility and identify those potential source areas which may have released chemicals to the ground. No chemical use was indicated for Building No. 261. Prior to 1987, a paint spray room existed in Building No. 263, Room 1300. The paint spray room was relocated to Building No. 271 in 1987. The report indicated that there do not appear to be any significant contaminant source areas within Building No. 263. No chemical use was indicated for Building No. 264. Building No. 265 contained two active chemical use areas that involved cleaning, soldering and solvent cleaning operations. General housekeeping practices were determined to be of good quality. There did not appear to be any significant chemical source areas that could impact subsurface soil beneath Building No. 265. Building No. 271 contained one active chemical use area which included a spray paint booth that utilized chemical solvents. There did not appear to be any significant contaminant source areas that could impact subsurface soil in Building No. 271. Building No. 274 had one active chemical use area. Solvent cleaning had reportedly been conducted in Room 305 since after the construction of the building in 1980/1981. There did not appear to be any significant contaminant source areas that could impact subsurface soil in Building No. 274. Building No. 276 had two active chemical use areas. Cleaning operations in Room 1252 and photographic processing operations in Room 1282 had been conducted since sometime after

TABLE 1: SUMMARY OF ENVIRONMENTAL DOCUMENTS PROVIDED BY EASI, INC.*

Date	From	To	Subject/Title	Comments:
				construction of the building in 1986. There did not appear to be any significant contaminant source areas that could impact subsurface soil in Building No. 276. Building No. 277 had one active chemical use area. Mineral oil had been used for lubrication in Room 1528. There did not appear to be any significant contaminant source areas that could impact subsurface soil in Building No. 277. Building No. 281 had two active chemical use areas. Insecticide had been stored in the controlled materials storage area of Room 211 since approximately 1986, when construction of the building was completed. In addition, anti-freeze and mineral oil had been used in the maintenance shop of Room 1261. There did not appear to be any significant contaminant source areas that could impact subsurface soil in Building No. 281.
07/29/91	Ecology and Environment, Inc.	Environmental Protection Agency, Region 9	RCRA Preliminary Assessment	Preliminary Assessment (PA) for the Hughes Aircraft facility located in Canoga Park, California. In 1959, the site was developed by an electrical component design and testing company called Bunker Ramo and it was operated as an industrial park. From 1966 to 1976, Hughes was a co-occupant of the site with Rocketdyne, a division of Rockwell International, and Bunker Ramo. Hughes purchased the entire site in the mid-1970s and became the sole occupant. The report listed and described underground storage tanks (USTs) that were used at the facility. There were three areas of concern identified at the Hughes facility. The first area is the northwest portion of the site (i.e., Lot C) which has historically handled and stored chemicals. Soil and groundwater in this area is contaminated with petroleum hydrocarbons and VOCs that include halogenated compounds. The second area is the southwest corner of Building No. 281. A fuel oil UST was located in this area. Soil and groundwater in this area is contaminated with VOCs that include halogenated compounds. The third area is the recreation center in the southeast corner of the site (i.e., Lot A). Soil and groundwater in this area are contaminated with Freon 11. Elevated levels of radioactivity, above drinking water standards, also appeared in groundwater in this area; however Hughes believes this

TABLE 1: SUMMARY OF ENVIRONMENTAL DOCUMENTS PROVIDED BY EASI, INC.*

Date	From	To	Subject/Title	Comments:
				radioactivity is due to high background levels in the area. The types of radioactive isotopes were not identified. The report indicated that no groundwater wells are used for drinking water within four miles of the Hughes facility. The report summarized the following Hazard Ranking System factors associated with the Hughes facility: (1) low potential for release to air and surface water; (2) low potential for exposure to contaminated soils; and (3) no drinking water wells are located within four miles of the site. The EPA's recommendation was to defer to another authority: RCRA.
11/25/91	American Environmental Management Corp.	Los Angeles City Fire Department	Letter regarding Soil and Groundwater Contamination	This letter requested that the California Regional Water Quality Control Board be allowed to serve as the lead agency for environmental investigations and remediation activities ongoing at the site.
12/02/91	HMSG	Los Angeles City Fire Department	Letter regarding Soil and Groundwater Contamination	This letter confirmed that the California Regional Water Quality Control Board would serve as the lead agency for investigative and remedial activities ongoing at the site.
12/23/91	Los Angeles City Fire Department	HMSC	Letter regarding Groundwater Contamination	This letter indicated that because groundwater contamination was discovered at the site, the California Regional Water Quality Control Board would serve as the lead agency for ongoing investigative and remedial activities at the site.
12/28/93	Groundwater Technology	HMSC	Phase I Environmental Report: Areas of Potential Chemical Release to Soil and Groundwater	GTI was contracted by Hughes to conduct a Phase I ESA of its research and development facility in Canoga Park, California. The review was conducted to identify potential sources of chemical release to area soil and groundwater. This Phase 1 ESA identified soil and groundwater contamination at the site originating from leaking USTs located both on the subject property and in the current Lot C area. USTs located on the site included UST #s T-5, T-6, T-7, T-8, T-9 and T-10. UST #s T-5 and T-6 reportedly contained chlorinated and non-chlorinated VOCs and one semi-volatile compound. UST #s T-7, T-8, and T-9 reportedly contained diesel fuel. The report indicated areas of potential release to be the east end of Building No. 269 and the Building No. 272 hazardous materials and waste storage area. The report also indicated that an additional area of low level environmental concern for metals was the main sewer line route.

TABLE 1: SUMMARY OF ENVIRONMENTAL DOCUMENTS PROVIDED BY EASI, INC.*

Date	From	To	Subject/Title	Comments:
01/04/94	Groundwater Technology	HMSG	Report on Facility-Wide Site Assessment	This report provide details on a site investigation to evaluate the VOCs previously detected in the CM-8D (Lot B) and CM-10 (Lot A) monitoring well areas. GTI indicated that chlorinated VOCs at a combined concentration of just over 1,000 ug/L have been detected in groundwater from well CM-8D. The source of the VOCs is not definitely known; however, three monitoring wells located south of well CM-8D contained detectable concentrations of VOCs. Building No. 264 is located central between the VOC detected in the associated with well CM-8D. GTI estimated the volume of released chlorinated VOCs in groundwater in the well CM-8 D area as 0.2 gallons. The total estimated volume of VOCs near well CM-8D is thought to be sufficiently small that no threat to human health or the environment exists. Freon 11 at a concentration up to 190 ug/L was detected in groundwater from monitoring well CM-10. No Freon 11 has been detected in nearby wells, MW-29, MW-30, or CM-17. A volumetric estimation was not made for Freon 11 in the well CM-10 area. It was thought that the Freon 11 in the well CM-10 area poses no environmental threat. A "Leave in Place" with groundwater monitoring was proposed for the well CM-8D area. Computer modeling suggested that the VOCs will not migrate off the property and that with time the VOCs will degrade to lower concentrations than are now present.
8/30/94	Earth Tech	Coast Federal Bank	Consultation Letter Regarding Property Transfer and Summary of Preliminary Records Review	This report summarized a review of California Regional Water Quality Control Board (CRWQCB) for files from the years 1986 through March 1993 *(these files were not available for review by Geocon on January 11, 1999 at the CRWQCB)*. As related to the subject property, the report indicated that groundwater in the area of Building No. 264 requires continued monitoring for VOCs in Wells MW-25, MW-26 and MW-27, at a minimum. The report indicated that a detailed review of hazardous chemicals used at each building at the site would need to be reviewed. For off-site concerns that could impact the subject property, the report indicated the gasoline plume in northwestern area of the site had not been adequately delineated. Documents reviewed by Earth Tech relating to concerns about radioactivity in groundwater, include reports entitled *Groundwater Quality Analytical Results for Radioisotopes, Off-site Wells*, McLaren

TABLE 1: SUMMARY OF ENVIRONMENTAL DOCUMENTS PROVIDED BY EASI, INC.*

Date	From	To	Subject/Title	Comments:
				Hart Environmental December 1990 and January 1991; *Investigation of Radioactivity in Groundwater at Hughes,* Groundwater Resources Consultants, Inc., January 23, 1992; and *Results of Radiological Sampling of Wells,* Groundwater Resources Consultants, Inc., July 1, 1992.
11/14/94	Groundwater Technology	HMSC	Letter- Analytical Results for Soil Samples	This document contained a December 7, 1994 facsimile cover sheet for a Nov. 14, 1994 report entitled *Analytical Results for Soil Samples, Remediation System Wells, Hughes Missile Systems Co., Canoga Park, California,* prepared by Groundwater Technology and submitted to Hughes. The report indicated that a vadose and groundwater remediation system was under construction at Hughes and include two groundwater recovery, air sparging, and vapor extraction wells. 71 wells are involved including 17 groundwater recovery wells, 30 combination air sparge/vapor extraction wells, and 24 vapor extraction wells. A plume map prepared for VOCs in soil in the report was unreadable because of poor resolution.
11/18/94	Earth Tech	Coast Federal Bank	Potential Source Area Investigation	This is simply a transmittal of the November 30, 1989 *Potential Source Area* report prepared by McLaren and referenced above.
11/21/94	N/A	N/A	Interview conducted by Coast Federal Bank of Hughes Employees	This is the transcript of a verbal interview conducted by Coast Federal Bank of various Hughes employees. One of the questions asked was *Do you know of any radioactive materials used on the property?* The Hughes employees indicated that *"minor"* amounts were used in the form of *"flat-packs". Geocon's discussions with Grant Baker, formerly of Hughes, currently with Coast Federal Bank, indicated that the referenced flat-packs were used to monitor the quality of electric circuits in printed circuit boards.* The employees were also asked *Do you know of any radioactive materials released or disposed at the property?* The Hughes employees responded that there were *"none".* One of the employees mentioned that mercury may have been present in the "cones" (i.e., soundproofing material) of the "chamber" (i.e., anechoic chamber) present in Building No. 274.
11/21/94	CH2M Hill	HMSC	Contingent Closure and Post Closure Plans	This document, stamped draft, was requested by the California EPA and presents a Contingent Closure Plan for UST T-3 prepared by CH2M Hill for Hughes. The UST was removed in 1991 and was reportedly a 4,000-gallon fiberglass tank that was used to store waste oils and waste oils mixed with solvents. Associated contaminated soils were removed in September 1991 under a Corrective Action Plan (CAP). The Contingent Closure Plan was reportedly prepared in accordance with EPA guidance. The report documents remediation of soil associated with UST T-3. The remediation consisted of excavation and off-site disposal of 1,321 cubic yards of soil contaminated with

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Date	From	To	Subject/Title	Comments:
				petroleum hydrocarbons, DCE, and VOCs. Soils were excavated by using three-foot diameter boreholes to an average depth of 40 feet below the ground surface. A cement/sand slurry was backfilled into the excavated boreholes. A final cover, using asphalt concrete, was placed over the backfilled boreholes. Groundwater remediation will consist of groundwater pumping and treatment, air sparging, and vapor extraction. The report indicated that groundwater remediation was expected to take approximately 4-8 years. The report indicated groundwater monitoring wells would be used to monitor groundwater conditions associated with contamination originating from UST T-3. The site would be considered successfully remediated when concentrations of VOCs averaged per well over the most recent four sampling periods are below the target cleanup levels at all recovery wells. In addition, the report indicated soil vapor constituents would be monitored as part of the groundwater remediation system.
11/28/94	Earth Tech	Coast Federal Bank	Technical Memorandum Records Review Limited Site Investigation	This report documents the Earth Tech's review of reports and documents made available for public review and selected reports and documentation made available by Hughes. The purpose of the review was to evaluate (1) whether current and past environmental investigations in remedial actions carried out by Hughes sufficiently identified past environmental conditions, (2) whether Hughes adequately mitigated areas identified as having environmental impacts, and (3) document the current regulatory status of the site. The report identified areas subject to remediation/corrective action. The three areas that were identified as having resulted in soil and groundwater contamination included: the northwestern area of Lot C with chlorinated VOCs and gasoline contamination reported in both soil and shallow groundwater; the Lot B area of monitoring well CM-8 D containing chlorinated VOCs and groundwater; and the Lot A area of monitoring well CM-10 with Freon 11 contamination in groundwater. The report indicated that USTs T-5 and T-6, formerly located beneath the existing water cooling towers, were investigated by the placement of two vertical, continually sampled boreholes to a depth of approximately 25 feet below ground surface. The chemical test results did not indicate the presence of VOCs or semi-VOCs at concentrations above laboratory instrument detection limits in a soil sample collected at 24 feet below ground surface. It is not known why shallower soil samples

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Date	From	To	Subject/Title	Comments:
				were not analyzed for the VOCs and SVOCs. Although selected soils were chemically tested for CCR metals, it is not known why these results were not reported. Relatively low levels of BTEX were encountered in some of the soil samples. Soils that were encountered included siltstone and interbedded claystone.
12/21/94	Department of Toxic Substances Control	Hughes Missile Systems Group	Letter regarding Notice of Deficiency of Closure Plan	DTSC provided their comments in a Notice of Deficiency to the Draft Closure Plan dated April 1994 provided by Hughes for the facility hazardous waste storage area and UST T-3. The DTSC letter indicated that the Hughes Closure Plan did not meet the closure performance standards of Title 22, California Code of Regulations, Chapter 15, Article 8. Additional information will be required from Hughes to revise the Draft Closure Plan as well as corresponding information to develop a response to the requirements of the California Departmental Quality Act. The DTSC letter focused on written comments to the April 1994 Closure Plan associated with off-site (i.e., Lot C facilities).
02/07/95	Hughes Missile Systems Company	Department of Toxic Substances Control	Submittal of Response to Notice of Deficiency and Revised Closure Plan	Hughes issued a written response to the DTSC Notice of Deficiency on Feb. 7, 1995. The revised Hughes Closure Plan replaced and superseded the Closure Plan for the Hughes facility dated April 1994. Hughes also provided an itemized response to the comments enclosed in the DTSC's Notice of Deficiency. All the comments primarily addressed the T-3 UST area and the hazardous waste storage area which are located in Lot C, upgradient of the site.
02/27/95	Department of Toxic Substances Control	HMSC	Letter regarding areas of concern for Hughes Missile System Group	This DTSC letter notified Hughes that an attached DTSC memorandum (dated February 28, 1995 and discussed below) identifies the solid waste management units (SWMUs) and areas of concern (AOCs) that were identified by the DTSC from the various environmental data developed with reference to the subject site. The DTSC letter also indicated that a revised Closure Plan had been received from Hughes and was undergoing review.
02/28/95	Department of Toxic Substances Control	Department of Toxic Substances Control	Internal Memo regarding areas of concern	The DTSC memornadum primarily discussed Area of Concerns at buildings located in the current Lot C. In regards to specific concerns identified on Lot B, DTSC indicated that Building No. 263, which contained spray paint operations prior to 1987 and used a degreaser and solvents apparently utilized in boiler room cleaning until operations ceased, is located relatively nearby and upgradient of monitoring well CM-8D. DTSC indicated the monitoring well had exhibited concentrations of DCE as high as 760 ug/L. DTSC indicated that Building No. 263 should be considered an Area of Concern and further investigation, such as a soil gas survey, needed to be performed.

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				DTSC also indicated that Building No. 265 should be considered an Area of Concern until Hughes demonstrates that soils underlying or adjacent to the basement are not responsible for Freon 11 impacts discovered in monitoring well CM-10. DTSC indicated a necessity to evaluate operations formerly conducted in Building No. 265 (in greater detail) and probably a soil vapor investigation of those potential pathways. DTSC indicated Building No. 271 contained a spray paint booth and considers this building an Area of Concern. DTSC recommended a limited soil vapor investigation. DTSC indicated Building No. 274 was an Area of Concern because it was used for solvent cleaning and is located upgradient of the Freon 11 impacted groundwater well CM-10. A soil vapor survey was recommended by DTSC for this building. DTSC identified Building No. 276 as an Area of Concern because of the minor amounts of TCA used in the building. DTSC recommended a soil gas investigation as the first logical step. DTSC identified Building No. 281 as an Area of Concern because of the use of methylene chloride in this building. DTSC recommended that a limited soil gas investigation be performed as *"an initial element"*. DTSC recommended a soil gas investigation in the area of the former T-5 and T-6 USTs. DTSC noted that halogenated and aromatic VOCs were reported in the soil from USTs T-5 and T-6 and the cleanups of the T-7, T-8, and T-9 UST cluster had left some soil hydrocarbon contamination in place. DTSC identified all five of these USTs as Solid Waste Management Units; however, DTSC indicated that designation did not necessarily mean that DTSC will necessarily require any further activity at either location. DTSC indicated that diesel UST T-10, located south of Building No. 281, should not be considered an Area of Concern or Solid Waste Management Unit. DTSC implied that the T-7, T-8, and T-9 UST cluster may be a potential release point to groundwater. DTSC indicated their concern that the main sewer line onsite may be a conduit for the Freon 11 detected in monitoring well CM-10. Wherever the source area or areas for the Freon 11 contamination in monitoring well CM-10 is or are, DTSC indicated it or they should be considered

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Date	From	To	Subject/Title	Comments:
				Areas of Concern. DTSC indicated that Hughes needs to fully extend its soil gas survey to include such source types upgradient from well CM-10 to evaluate the Area of Concerns.
05/08/95	Groundwater Technology	Department of Toxic Substances Control	Letter regarding areas of concern	The resolution and quality of this letter was very poor and it was difficult to discern the referenced building numbers. This letter was written by Groundwater Technology, Inc. (GTI) in response to the DTSC's Feb. 28, 1995 letter listing environmental Areas of Concern for the site. GTI indicated that the soil gas survey would be conducted south and east (near well CM-8D) of Building No. 263. GTI indicated that no further investigation of Building No. 265 or 271 was required, and that Building No. 274 should no longer be considered an Area of Concern. GTI indicated that the soil gas survey associated with the CM-8D investigation would include the area south of Building No. 281 and no further investigation of Building No. 281 was required. GTI indicated that the former UST T-5 and T-6 areas would be included in a soil gas survey but no further investigation was required in the UST T-7, T-8, and T-9 area. GTI indicated that the source of the Freon 11 detected in well CM-10 was not known. The soil gas survey near CM-10, and near the main sewer line junction and the sewer line terminus may help to determine the source if a surface or near surface Freon 11 anomaly can be located. Other information on this letter was difficult to discern because of the poor quality of the copy.
05/11/95	Department of Toxic Substances Control	HMSC	Comments to February 1995 Modified Closure Plan submitted by Hughes	This letter provided comments to the Feb. 1995 modified Closure Plan provided by Hughes to the DTSC. All the comments primarily addressed the T-3 UST area and the hazardous waste storage area which are located in Lot C, upgradient of the site.
05/11/95	Groundwater Technology	Department of Toxic Substances Control	Letter regarding DTSC Areas of Concern	This letter appears to be an identical copy of the May 8, 1995 letter prepared by GTI. This letter was finalized and put on letterhead.

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Date	From	To	Subject/Title	Comments:
10/11/95	Groundwater Resources Consultants, Inc.	HMSC	Quarterly Groundwater Monitoring Report 3rd Quarter 1995	This report summarized the results of the second quarter 1995 groundwater monitoring at the Hughes facility. The depth to groundwater throughout the whole facility, as measured in monitoring wells, ranged from approximately 9 feet to 62 feet below ground surface. Groundwater appears to move towards the southwest, south, and southeast in various areas of the site. Groundwater extraction from reclamation wells in the northwest portion of the facility appears to be causing a cone of depression which can be observed on the site-wide map. The analytical results for VOCs in samples from the monitoring wells were summarized in a figure.
11/29/95	Camp Dresser and McKee, Inc.	Los Angeles Department of Public Works	Environmental Analytical Results of Soil and Groundwater Samples – Valley Communications Dispatch Center	This report described the results of sampling of soil and groundwater to assess whether VOCs, TPH, or metals contamination had impacted the proposed Valley Communications Dispatch Center (formerly Hughes Aircraft Missile System facility) located 8433 Fallbrook Avenue. The proposed Valley Communications Dispatch Center is located in Lot D and offsite to the west of Building No. 276. Four soil borings were drilled to 20 feet below ground surface to collect soil samples. One soil boring was drilled to about 50 feet below ground surface to collect soil and groundwater samples. The work was performed on Nov. 3, 1995. Non-detect to low levels of TRPH were detected (<52 ppm TRPH). No soil samples contained CCR metals exceeding California TTLCs. VOCs, SVOCs, and organochlorine pesticides and PCBs were not detected in the soil samples above laboratory instrument detection limits. VOCs (excluding 51 ug/l Freon 11), SVOCs, organochlorine pesticides, and PCBs, and fuel range hydrocarbons were not detected in the groundwater samples collected. The groundwater exceeded the MCL for chloride, manganese, nitrate, sulfate, and total dissolved solids.
12/11/95	City of Los Angeles City Engineer	Los Angeles Police Chief Department	Letter regarding Soil and Groundwater Contamination	This letter was from the Los Angeles City Engineer to the Los Angeles Police Department regarding the proposed Valley Communications Dispatch Center (Lot D). The letter summarized the results of the November 29, 1995 investigation described above. The letter stated that the report revealed no significant soil or groundwater contamination at the site. It was recommended that the City ensure the previous occupants (i.e., Hughes) assume all responsibility for the minor groundwater contamination that exists under the southern parcel and for any contamination which may migrate into the groundwater in the future.

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Date	From	To	Subject/Title	Comments:
12/18/95	Department of Toxic Substances	General Public	Public Notice – Draft Closure Plan	The DTSC issued a *Notice of Public Comment On a Draft Closure Plan and Proposed Negative Declaration for a Hazardous Waste Storage Area and Underground Storage Tank T-3 Hughes Missile Systems.* The letter indicated that written comments on the draft Closure Plan and proposed Negative Declaration would be accepted the for 60-day period commencing on December 20, 1995.
01/10/96	Groundwater Resources Consultants Inc.	HMSC	Quarterly Groundwater Monitoring Report-Fourth Quarter, 1995	This report summarized the results of the fourth quarter 1995 groundwater monitoring at the Hughes facility. The depth to groundwater throughout the whole facility, as measured in monitoring wells, ranged from approximately 9 feet to 62 feet below ground surface. Groundwater appeared to move towards the Southwest, South, and Southeast in various areas of the site. Groundwater extraction from reclamation wells in the northwest portion of the facility appeared to be causing a cone of depression which can be observed at the scale of the site-wide map. The analytical results for VOCs in samples from the monitoring wells were summarized in a figure.
03/27/96	Groundwater Technology	HMSC	Groundwater Monitoring Report	This report indicated that static groundwater depths measured approximately 13 to 46 feet below grade for the wells measured on Feb. 12, 1996. Some of the metal cables in the recovery wells had to be replaced with polypropylene rope. Some flow rates were increased for recovery wells. VOCs were detected in two monitoring wells, CM-8D (located onsite and south of Building No. 281) and monitoring well CM-10 (located off-site and south of Building No. 274).
07/09/97	Fluor Daniel GTI	HMSC	Groundwater and Remediation System Monitoring Report	This reports summarized the results and observations for the second quarter 1997 groundwater monitoring at the former Hughes facility. Groundwater depths ranged from approximately 12 feet to 63 feet below grade for the monitoring wells measured on May 12, 1997. Groundwater flowed to the west on the northwest portion of the Lot C and to the south-southeast over the remainder of the site (i.e., Lot B). Detectable VOCs were detected in four monitoring wells and in ten recovery wells (including onsite wells CM-8D and CM-10).
01/07/98	Harding Lawson Associates	Home Savings of America	Environmental Site Assessment	**Historical Land-Use**: Vacant agricultural land from 1903-1958; ranch house observed onsite in 1952; Bunker-Ramo developed site into aerospace research and development facility in 1959. In 1965, Rockwell, Westinghouse, and General Electric acquired short term leases for use of the office space until the site was purchased by Hughes Aircraft Company in 1966. Hughes Aircraft Company Missile Systems Group shared the property with Bunker-Ramo until 1976, when Hughes became the only occupant; Coast federal Bank purchased the property in 1994 and in 1997 divided the property into four subdivisions (A-D).

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Date	From	To	Subject/Title	Comments:
				Recognized Environmental Conditions: Evidence of six historical USTs at the site. Two 500-gallon waste oil/sulfuric acid USTs; three 12,000-gallon diesel USTs; and one 10,000-gallon diesel UST. Other USTs, one waste pit, and two clarifiers were found on the property located adjacent to and north of the site. Paints, solvents, petroleum products including oils, diesel, and gasoline, and corrosive materials used in printed wiring board plating were used at the site. Contaminated soil and groundwater have been documented onsite and on the property to the north. The are ~35 groundwater monitoring wells located onsite and on immediate surrounding properties. Groundwater flows southeast and is ~30.11 to 47.56 bgs at the site. Two areas of known releases are documented at the site. 15 yards of VOC and SVOC-impacted soil removed from the waste oil/sulfuric acid UST area and more than 1,000 cubic yards of hydrocarbon impacted soil removed from diesel UST area. One groundwater monitoring well onsite, well CM-8D, has documented chlorinated VOCs in groundwater. It is the prior location of a diesel UST (Tank # 10) and associated underground pipelines. DCE and TCE were detected in the well above MCLs. Well CM-8D is the only well onsite being monitored for contamination and no remedial activities were conducted on the site. City of Los Angeles Fire Department letters dated December 23, 1991 and September 20, 1989 noted the presence of groundwater contamination and referred the matter to the RWQCB. **Offsite:** Contaminated soil and groundwater have been documented on the Hughes property located adjacent to and north of the site. As of February 25, 1997, the SVE system operated by Fluor Daniel GTI has been online since August 1995 and has removed 7,188 pounds of volatile and chlorinated hydrocarbons from the vadose zone. The main sewer line that crosses the site can be considered a combined sanitary sewer and process waste water disposal line. Chlorinated VOCs have impacted groundwater monitoring wells located to the north and potentially upgradient of the site. The RWQCB has approved a reduction in groundwater monitoring from quarterly to semi-annually.
1/23/98	N/A	N/A	Figure- Chemical Use and Associated Activities by Area	This figure highlighted areas of historical chemical use, USTs, chemical storage, and the location of groundwater monitoring wells at the site.

* Some documents provided by EASI were not summarized because they were evaluated as not providing relevant information regarding the environmental status of the site. In addition, because Geocon's primary focus was on the environmental condition of Lot B, only generalized environmental information affecting the other subdivided former Hughes lots (i.e., Lots C, A, and D) was provided.

TABLE 2: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE CRWQCB ON JANUARY 11, 1999

Date	From	To	Subject/Title	Comments:
09/15/95	Environmental Support Technologies, Inc.	Groundwater Technology, Inc. (GTI)	Phase 2 Soil and Gas Survey Report	This report provides the results of a soil gas survey performed in the area of the CM-10 groundwater monitoring well where Freon 11 was previously detected. A map produced in the report displayed isoconcentration contours for Freon 11 in ug/l units. Soil vapor probes were installed to a depth of five feet below ground surface. The soil gas samples collected during the survey contained concentrations of Freon 12, Freon 11, Freon 113, 1,1-DCE, PCE, ethylbenzene, and total xylenes. Freon 12, at a concentration of 16 ug/l, was detected in the probe placed adjacent to Building No. 274. PCE was detected at a concentration of 1 ug/l in a probe placed approximately 50 feet southeast of Building No. 274. The highest isoconcentration contour (1,000 ug/l) for Freon 11 was detected approximately 50 feet to the southwest of Building No. 274 and extended approximately another 150 feet to the southwest. The soil vapor plume as measured was approximately 450 feet to the northwest (and hydraulically upgradient) of monitoring well CM-10.
09/21/95	Groundwater Technology, Inc.	California Department of Toxic Substances Control (DTSC)	Letter regarding Additional Soil and Gas Surveying, Area 5	This report provides the results of a soil gas survey documented in the Environmental Support Technologies report dated September 15, 1995 (see above description). The study was performed in the area of the CM-10 groundwater monitoring well where Freon 11 was previously detected. A map produced in the report displayed isoconcentration contours for Freon 11 in ug/l units. GTI indicated that a Freon 11 soil gas high, not associated with any surface or underground feature, is puzzling. Although there is some linearity to the plume outline that might suggest Building No. 274 is a source, the center of the Freon 11 high is located over 100 feet from the nearest corner of the building. Probes placed around building's cooling unit encountered only low concentrations of Freon 11. GTI speculated that drums or other containers may have been placed in the area proximal to the high and that from 1960 to 1963 this area consisted of exposed soil. GTI indicated the Freon 11 high is positioned "*...precisely upgradient of monitoring well CM-10*". Monitoring well CM-10 is the only Hughes' facility well which has consistently contained concentrations of dissolved Freon 11.

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Date	From	To	Subject/Title	Comments:
10/11/96	Allwest Geoscience	Regent Properties, Inc.	Limited Review of Potential Environmental Impacts to Subject Property Due to Past Onsite Activities	This report presented a limited review of potential environmental impacts on the adjoining Lot C (located to the north of the site, i.e., Lot B) due to previous environmental activities occurring at Lot C. The documents reviewed related to Building Nos. 262, 268, 269, 270, 272, and 282 which are located on Lot C. The summary of environmental concerns indicated that soil and groundwater remediation is currently being performed in the northwestern area of the property and will likely continue for several years. The report indicated Hughes should remain the responsible party for the remedial activities and that Regent Properties should be included on the distribution list for all environmental related reports. The report indicated that Hughes should remain responsible for any environmental problems found during the removal of clarifiers, concrete floor areas, and asbestos abatement.
07/10/97	Allwest Geoscience	Regent Properties, Inc.	Portion of a Report:- UST Summary, Clarifiers, Summary of Environmental Concerns, and Conclusions	This report, relating to be proposed development of Lot C by Regent/Shamrock, provided the same general conclusions as Allwest Geosciences' report dated October 11, 1996. In addition, the report concluded that *" The existing contamination poses no health threat and will not interfere with the occupancy of the existing or proposed buildings, provided the requirements of the Remedial Action Plan continue to be followed."* The report further indicated that *" The property's environmental condition has been adequately characterized, and the soil and groundwater condition will not interfere with Regent/Shamrock's proposed ownership, use, construction or occupancy of the property."* Finally, the documents reviewed by Allwest Geoscience were considered acceptable to assure that Hughes will remain the responsible party for all environmental impacts from Hughes releases to the property, both previously discovered and potentially found during redevelopment of the site.
06/27/97	Allwest Geoscience	Regent Properties, Inc.	Portion of Report:- Findings, Conclusions and Figures	This report presented information regarding Building Nos. 268 and 269 located in Lot C to the north of the site. The report indicated that for Building No. 268, the bottom of the westernmost pits were stained a dark brown to black color. The eastern pit reportedly had a line of *"efflorescence"* along the sidewall of the pit. In Building No. 269, the chemical analysis of three soil samples collected from beneath a former solvent tank showed no detectable concentrations of VOCs. The 17 CAM metals analyzed showed that the metals were generally within acceptable concentrations and probably indicative of naturally occurring background levels. Four soil samples collected from the bottom of four

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				borings drilled in the area of clarifiers adjacent to and east of Building No. 269, showed no detectable concentrations of VOCs or elevated metals concentrations.
2/20/98	Flour Daniel GTI	Los Angeles Regional Water Quality Control Board (CRWQCB)	Groundwater and Remediation System Monitoring October-December 1997 Quarterly Report and 1997 Annual Report	This report summarized the remediation systems in operation at the Raytheon (former Hughes) facility. The remediation system has been operational since August 1995. The report primarily dealt with VOC recovery data and the condition of the remediation system. The groundwater gradient in the northwestern portion of the site has consistently shown it is being influenced by groundwater extraction so that capture zones, sufficiently large to completely contain and capture contaminated groundwater, are created. GTI indicated that the groundwater recovery system generally remained at full operating capacity during the year 1997. Approximately 6,800 pounds of VOCs and 500 pounds of total chlorinated compounds comprise the total mass removed by the system since start-up. Of 10 perimeter monitoring well sampled on a semi-annual basis, VOCs were identified in groundwater samples collected from three of the wells (CM-8D, CM-10, and MW-19S). Of the three wells where VOCs were detected, only well CM-8D is located onsite, to the south of Building No. 281.
3/31/98	Raytheon Missile Systems Company (RMSC)	CRWQCB	Letter regarding cost reimbursement account for Former RMSC	Raytheon submitted this letter to the CRWQCB and has not initially agreed to establish a Cost Reimbursement Account with the CRWQCB because they already have a reimbursement account established with the DTSC and have concerns about paying two agencies both under the auspices of the California EPA. Raytheon suggested that a meeting be conducted between the DTSC and the CRWQCB to discuss the cost reimbursement account. In addition, Raytheon described their facility as a former "research and development facility", rather than an "aerospace parts manufacturer". They indicated that the chemical use at their facility was in smaller quantities and under much more controlled conditions than would be found in an aerospace parts manufacturing business. Raytheon further indicated that while groundwater beneath the Canoga Park site may technically be considered a "Water of the State" with "potential beneficial uses", the naturally high Total Dissolved Solids severely limits the realistic beneficial uses of the water.

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Date	From	To	Subject/Title	Comments:
04/15/98	Fluor Daniel GTI	CRWQCB	Portion of Report:- Summary and Figures of the First Quarter 1998 Groundwater Monitoring Report.	The results of the first quarter 1998 groundwater monitoring activities at the former Hughes facility were summarized in this report. The general depth of groundwater range from approximately 9.5 feet to 62 feet below grade. The groundwater gradient in the northwestern portion of the site was 0.022 ft/ft and apparent flow was to the west. Over the remainder of the site, the groundwater gradient ranged from 0.027 to 0.043 ft/ft, and apparent flow was to the south-southeast. Treated groundwater effluent met discharge requirements specified in the Waste Discharge Requirements (WDR).
05/08/98	RMSC	CRWQCB	Letter regarding Request for Modification of the Waste Discharge Requirements Permit for the Groundwater Remediation System	The purpose of this letter was to request a modification of the WDR Permit for management of water treated by the groundwater remediation system at the site. The letter indicated that due to issues associated with redevelopment of the property by the new owners, discharge of treated groundwater in this matter has become problematic. Therefore, Raytheon was seeking modification of the WDR permit in order to allow discharge of treated groundwater to a storm drain, as well as continued use for irrigation. The storm drains at the site discharge to Chatsworth Creek, which in turn drains to the Los Angeles River approximately 2.5 miles from the site.
06/12/98	RMSC	DTSC	Letter regarding Response to DTSC Letter of 19 May Requiring Post-Closure Permit Application for RMSC	Raytheon indicated to the DTSC that they were surprised and troubled to receive DTSC's May 19, 1998 letter requiring a " post-closure permit application" and finding Raytheon in violation for failure to submit the application. In a reported Feb. 10, 1998 meeting, Raytheon understood that the post-closure permit issue had been postponed. That understanding was reportedly reiterated in the Raytheon March 11 1998 letter. According to Raytheon, they are not in violation of the California Code of Regulations. Raytheon believed that the post-closure is not applicable for the former tank T-3, and that remedial activities on-going at the site are effectively addressing the contamination and should be allowed to continue without unnecessary hindrance. Raytheon requested a 90-day extension to the June 22, 1998 date for submitting the post-closure permit application. Raytheon indicated they would like to meet with DTSC to continue discussions towards resolution of this issue. Raytheon also criticized DTSC for not realizing that they had been properly notified regarding fieldwork in the Building No. 269 and monitoring well CM-10 area. Raytheon indicated that they have aggressively pursued remedial activities at the site and have made tremendous progress. Raytheon criticized DTSC for unacceptable and serious administrative delays.

TABLE 2: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE CRWQCB ON JANUARY 11, 1999

Date	From	To	Subject/Title	Comments:
06/18/98	California Environmental Protection Agency (Cal EPA)	CRWQCB	Letter regarding RCRA Closure/Post-Closure and Corrective Action at the RMSC Company	DTSC wrote the CRWQCB to notify them that there are still two permitted hazardous waste management units at the site. DTSC indicated that Raytheon has not yet completed its approved Closure Plan for one unit, a small hazardous waste area. The second unit was a UST which did not have secondary containment and from which RCRA wastes were released into the adjacent soils and groundwater. Under Title 22, California Code of Regulations, the UST is a regulated unit and subject to post-closure care requirements as specified in Title 22. DTSC indicated that the application for post-closure has not been received from Raytheon. DTSC reportedly notified Raytheon in a Nov. 14 1997 letter about the post-closure application requirement. A second letter was forwarded to Raytheon from DTSC on May 19, 1998, which indicated that the Raytheon facility is in violation of Title 22. The DTSC letter indicated that Raytheon believed that it had met the cleanup goals for the CRWQCB and would be shutting down its remediation system. However, upon review by DTSC, it became clear that significant amounts of RCRA waste from UST T-3 would be left in-place in the uppermost aquifer unit. DTSC indicated that Hughes and Raytheon have disputed the evaluation of the Solid Waste Management Units and Areas of Concerns identified by the DTSC. DTSC indicated it is currently revising a draft Correction Action Order that it will share with Raytheon within the next two months.
06/30/98	Cal EPA	RMSC	Letter regarding Conditional Approval of a Class I Permit Modification Ownership and Facility Name Change	The DTSC received Raytheon's notification, dated December 19, 1997, that Raytheon plans to have a Class I Permit Modification application for the ownership and facility name change at the former Hughes facility. Raytheon indicated that the new facility owner would be Raytheon Company and that the facility would be operated under the new name of Raytheon Systems Company, Sensor and Electronics Systems. DTSC also determined that Raytheon's facility's financial assurance document, as required in Raytheon's Permit was not satisfactory. DTSC noted that Raytheon indicated they would submit a revised financial document. DTSC approved the Class I Permit Modification with the condition that Raytheon must submit the revised approval financial assurance document within 90 calendar days.
08/11/98	Flour Daniel GTI	RMSC	Groundwater Contour Map	A groundwater contour map prepared by GTI indicated that the groundwater flow direction in the area of Lot B was to the south-southeast. Groundwater flow in the northwestern portion of the site appeared to flow to the west-southwest, apparently due to the groundwater remediation activities conducted in this portion of the site.

TABLE 2: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE CRWQCB ON JANUARY 11, 1999

Date	From	To	Subject/Title	Comments:
09/02/98	Flour Daniel GTI	RMSC	Letter regarding Additional Site Assessment Report	This is a cover letter that summarizes the findings of the GTI report dated September 3, 1998 (summarized by Geocon below).
09/03/98	Flour Daniel GTI	RMSC	Additional Site Assessment Report	This report summarized the field observations and laboratory analytical results at the former Raytheon facility in Canoga Park, California. The report was based on the results of drilling three temporary monitoring wells and one fixed monitoring well (MW-31) in the vicinity of CM-10 and Building Nos. 265, 274, and 276 at the site. GTI indicated that Freon 11 was not detected in the groundwater samples collected from two temporary wells in the area of Building Nos. 265 and 276. Freon 11 was detected in groundwater samples collected from the remaining temporary well (WP-DEV-1) and fixed groundwater monitoring well MW-31 (23 ug/l and 150 ug/l, respectively). The primary MCL for Freon 11 is 150 ug/l. No other VOCs were detected. GTI recommended a course of action that consists of "Monitor Only", indicating that it continues to be appropriate for the CM-10 area of concern. No additional subsurface soil or groundwater assessment activities were recommended for the CM-10 area by GTI. GTI indicated that quarterly sampling and analysis of groundwater collected from MW-31 and CM-10 were recommended to confirm Freon 11 levels remained at or below State MCLs established for this compound. GTI recommended that quarterly monitoring of these wells should continue until samples from four consecutive quarters contained concentrations of Freon 11 less than the State MCL and cleanup criteria of 150 ug/l.
09/08/98	RMSC	Cal DTSC	Letter regarding report of Additional Site Assessment	Raytheon prepared this cover letter that summarizes the findings of a GTI report, entitled *"Additional Site Assessment Report, Sampling and Analysis for Vicinity of CM-10 and Parking Area Adjacent to Building Nos. 265, 264 and 276"*, dated September 23, 1998 (not noted in GTI records by Geocon). Raytheon believes that the results of this assessment support that the Building Nos. 274/276 parking area is the source of the Freon 11 observed in monitoring well CM-10. Further, Raytheon believes that the Freon 11 contamination is derived from air conditioning repairs that were performed on the cooling units at Building No. 263 in 1966, as discussed in the GTI report. Raytheon believes the GTI report addressed the DTSC's concerns expressed in their June 5, 1997 letter regarding the following SWMUs and AOCs:

TABLE 2: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE CRWQCB ON JANUARY 11, 1999

Date	From	To	Subject/Title	Comments:
				SWMU No. 4 Parking area between Building Nos. 274 and 276 SWMU No. 4 Cooling unit at the northeast corner outside Building No. 274 AOC No. 3 Building No. 265 AOC No. 8 Building No. 274 AOC No. 9 Building No. 276 Raytheon requested the DTSC remove the above SWMUs and AOCs from their list as presented in their June 5, 1997 letter. Raytheon indicated that they provided additional data regarding other SWMUs and AOCs that would support Raytheon's request remove those from the DTSC list as well. Raytheon indicated DTSC revised list was promised by DTSC at the February 1998 meeting, but has not been received to date.
09/23/98	Flour Daniel GTI	RMSC	Summary Report, Supplementary Sampling and Analysis	This report summarizes the results of sampling and analysis activities for the Building Nos. 269, 272, and 282 SWMUs and AOCs, in accordance with a GTI work plan submitted to the DTSC on April 16, 1998. GTI indicated no evidence of residual soil contamination beneath former Building Nos. 272 and 282, or in the area of former Pits 1 and 2 at Building No. 269. There was no evidence of residual soil contamination from VOCs beneath the former UST T-14. There was no evidence of residual soil contamination by metals from plating, stripline, or degreasing operations conducted in Building No. 269. Finally, soil and groundwater samples from two new wells indicated soil and groundwater contamination by VOCs. GTI indicated the western extent of this residual contamination had not been determined. However, GTI believed the residual contamination is contained within the limits of the area influenced by the soil in groundwater treatment system that is operating currently.
11/03/98	RMSC	DTSC	Letter regarding Results of Follow-on Sampling and Analysis	This letter relates to Lot C which is located north of the subject site (i.e., Lot B.). Raytheon indicated that GTI detected hexavalent chromium in soil underlying the former acid and alkaline storage base of the former Hazardous Waste Storage Area. Raytheon indicated that GTI indicated that the impacted area has been delineated, and is localized directly beneath the former storage bays. The affected soil is, at a minimum, 5 to 13 feet below grade. Raytheon indicated that the existing groundwater data does not suggest that the hexavalent chromium has impacted the groundwater. As part of ongoing redevelopment plans for this portion of the Lot C parcel, Raytheon requested approval from the DTSC to leave this soil in place and allow for the addition of approximately five feet of overlying soil to accommodate a proposed multi-story parking area

TABLE 2: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE CRWQCB ON JANUARY 11, 1999

Date	From	To	Subject/Title	Comments:
				and other site-wide grade modifications. Raytheon requested the DTSC respond to this request before the end of the 1998 calendar year.
11/23/98	RMSC	DTSC	Letter regarding DTSC Review of Hazardous Waste Storage Area Closure Workplan	Raytheon submitted this letter to the DTSC complaining about the DTSC's lack of attention to work plan modifications and fieldwork (that was conducted on June 4, 1998). Raytheon indicated they provided DTSC with prior notification regarding the proposed modifications to the workplan and implementation, but that the DTSC was late in responding to their notifications and only issued a voice mail outlining the DTSC's concerns the day before the field activities were to be performed. Raytheon indicated that notwithstanding the DTSC's lack of attention to the site, Raytheon has made a tremendous amount of progress remediating the site in moving towards final close out. They indicated that again, DTSC administrative progress on this project continues to be seriously lagging. Raytheon indicated the delays are unacceptable, particularly in light of ongoing site development by the new property owners.
11/23/98	RMSC	DTSC	Letter regarding Administrative Progress in Close-out	Raytheon submitted this letter to the chief of the DTSC complaining about the lack of DTSC administrative progress on this project. Raytheon provided a list of five documents that have not been acted upon by DTSC. Of the five documents, only one related to the subject site, Lot B: *Comments on Report of Additional Assessment in the Vicinity of CM-10,* dated September 8, 1998. The September 8 1998 Raytheon letter requested revision of the DTSC's list of proposed SWMUs and AOCs, and again requested the list of priority areas where the DTSC feels additional work, if any, is needed at the site. Raytheon indicated their desire to complete the remediation and exit the Canoga Park facility as soon as possible. Raytheon indicated they no longer own the facility, nor do they have any control over site redevelopment activities. Raytheon indicated that they would appreciate comments on the five listed documents before the years end and that a meeting should be scheduled in January 1999, almost one year since their last meeting.

* Some documents reviewed at the CRWQCB were not summarized because they were evaluated as not providing relevant information regarding the environmental status of the site. In addition, because Geocon's primary focus was on the environmental condition of Lot B, only generalized environmental information affecting the other subdivided former Hughes lots (i.e., Lots C, A, and D) was provided.

TABLE 3: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE DTSC ON JANUARY 14, 1999*

Date	From	To	Subject/Title	Comments:
01/24/85	Latham & Watkins	Regional Water Quality Control Board (CRWQCB)	Letter regarding proposed monitoring wells near tank clusters	This letter documents location of a proposed single groundwater monitoring well at a hydraulically downgradient location from USTs T-7, T-8, and T-9 that were formerly located in the area of Building No.281. It appears this plan was submitted before actual removal of the USTs.
06/12/88	Calscience Engineering & Laboratories, Inc. (CEL)	Don Stevens Hughes Aircraft Company (HAC)	Letter regarding supplemental information for IRT excavation pits	This letter documents that the UST T-3 area on Lot C was backfilled with contaminated soil from pits T-13 and T-3 followed by clean dry backfill material. The consultant indicated that additional site assessment work is required. The letter also indicated that if remediation of UST T-3 was attempted, there would be no guarantee that the vertical or lateral extent of contamination could be reached. Further, the letter stated that if the limits of contamination were reached, the cost to load, transport, and dispose the contaminated soil off-site would be cost prohibitive.
08/20/90	CA, DOHS, TSC Program	Hughes/Public Notice	Consent Agreement and Order	This document was Enclosure B to the DTSC letter dated January 26, 1996 (summarized below). This document is a CA, Department of Health Services, Toxic Substances Control Program (DOH) "Consent Agreement and Order" entered between Hughes and the DOH, wherein Hughes agreed to comply with the orders of the DOH regarding groundwater monitoring and site remediation as a result of environmental violations observed during past site inspections. The Consent Agreement and Order alleges that Hughes violated provisions of the Hazardous Waste Control Act (HWCA) and the regulations with respect to its hazardous waste operations at the Fallbrook facility and orders certain corrective action. Both Hughes and the DOH entered into the Consent Agreement and Order pursuant to a compromise and settlement of disputed claims. Hughes agreed to pay $5,500 in settlement of the DOH's claims. As part of the agreement, Hughes agreed to work with the CRWQCB to develop and implement a site characterization plan to determine the extent of the soil and groundwater contamination associated with a leaking UST. The document did

TABLE 3: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE DTSC ON JANUARY 14, 1999*

Date	From	To	Subject/Title	Comments:
				not identify the UST; however, Geocon believes the UST to be T-3. After the characterization was completed, a revised closure plan and post-closure plan, if necessary, was to be submitted to the DOH within sixty days. Hughes was required to comply with the orders of the CRWQCB including the orders regarding groundwater monitoring and site mitigation. Hughes was required to permit the DOH to inspect and copy all sampling, testing, monitoring, and other data generated by Hughes or on their behalf.
07/30/91	McLaren/Hart Environmental Engineering Corporation	Hughes Missile Systems Group (HMSG)	Radioisotope Review and Comparison for the Hughes Missile Systems Group Facility	This report presented research concerning radioisotope levels in geological deposits in Southern California and within groundwater in the San Fernando Valley. These levels were compared to levels reported at the Hughes Missiles Systems Group facility in Canoga Park. The results indicated that, although geological deposits at Hughes have not been tested for radioisotopes, research strongly suggests that uranium and radium are naturally occurring in rock and soil at the site. The report also indicated that the maximum values of uranium in groundwater at the Hughes site are slightly elevated when compared to seven other sampling locations in the region. The maximum value for radium at the site exceeds the upper limit of the combined range of the other sampling locations by a factor of five. The report indicated these elevated levels are likely due to local variations in geological deposits. The report recommended a one-time sampling and analysis of groundwater from wells CM-8D, CM-10, and CM-9D for isotopic uranium to evaluate if the observed levels are of natural or man-made origin. In addition, the report recommended quarterly monitoring for uranium and radium at the site.
01/23/92	Groundwater Resources Consultants, Inc.	HMSG	Investigation of Radioactivity in Groundwater at the Hughes Aircraft Company, 3rd Quarter 1991.	This report indicated that groundwater sampled from monitoring wells at the site contained uranium at concentrations that exceeded the proposed MCL established for uranium. The is attributed to the fact that groundwater at the site commonly has natural background TDS concentrations from 3 to 5 times the

TABLE 3: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE DTSC ON JANUARY 14, 1999*

Date	From	To	Subject/Title	Comments:
				Secondary Drinking Water Standard of 500 mg/l, resulting in a proportional increase in uranium salts concentrations. All radium results were below the proposed EPA MCL of 20 picoCuries per liter (pCi/l). The Gross Beta results indicated that there were no man-made radioisotopes present. The letter concluded stating that *"Because no man-made radionuclides are indicated by the data from this investigation, no additional radionuclide sampling is warranted."*
02/14/92	Groundwater Technology	HMSG	Feasibility Study for Groundwater Remediation	This feasibility study was performed to evaluate remedial alternatives for groundwater containing dissolved-phase VOCs. It was determined that a groundwater pump-and-treat system using liquid-phase carbon would be the most appropriate remedial technology. The report recommended at least nine groundwater recovery wells be employed for full containment of the dissolved-phase plume. The remediation project was estimated to continue for least 20 years.
03/27/92	Groundwater Resources Consultants, Inc	HMSG	Results of Radiological Sampling of Monitor Wells, December 1991	This report conveyed the same conclusions and recommendations as their report dated January 23, 1992 (described above). The levels of uranium and radium detected in groundwater monitoring wells CM-10 and CM-8D, when compared to similar levels and other wells, were on the average more than five times higher in concentration. No explanation is provided for these variations. Monitoring well CM-18 also had elevated levels of uranium and radium when compared to the other wells. A groundwater gradient map (prior to the influence of pump-and-treat) as well as several cross sections interpreting the local geologic strata are presented in this report.
05/92	Hughes	CRWQCB	Support Documentation for the Radioactive Materials Investigation the Hughes Aircraft Company	This document identifies the equipment used by Hughes that contains radioactive materials. Most of the radioactive source materials listed appeared to be of a small quantity and used for thickness measuring, static illumination, leak detection, and scanning electron microscopy (x-rays). Some irradiated equipment parts were also indicated.

TABLE 3: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE DTSC ON JANUARY 14, 1999*

Date	From	To	Subject/Title	Comments:
06/18/92	HMSG	CRWQCB	Letter Regarding Radiological Results from Groundwater Monitoring	This report provided tabulated radiological results from the groundwater monitoring project at Hughes. Groundwater monitoring wells CM-8D and CM-10 exhibited elevated levels of radium and uranium when compared to most of the other wells outside.
01/04/94	Groundwater Technology	HMSG	Report on Facility-Wide Site Assessment	This report is identical to the summary provided in Table 1 (i.e., documents provided by EASI).
03/29/94	Groundwater Technology	HMSG	Corrective Action Plan Addendum	This report provides a four-phased approach for contaminant cleanup of the VOCs-contaminated groundwater at the Hughes site. Phase 1 consists of groundwater containment. Phase 2 consists of continued site assessment/characterization and field pilot testing of alternative remedial technologies. Phase 3 consists of site remediation. Phase 4 consists of closure. The report indicated that Phases 1 and 2 are complete. The report indicated that five groundwater recovery wells were drilled during December 1992 and January 1993. Manifolding of wells, pump installation, and activated carbon installation followed. The report indicated full-time operation of the system had not commenced, due to the difficulty of disposing of treated water (high TDS). The report indicated Hughes has proposed using the treated water for irrigation and the Waste Discharge Permit application has been submitted to the California Regional Water Quality Control Board for review.
11/28/94	Earth Tech	Coast Federal Bank	Technical Memorandum Records Review and Limited Site Investigation	This is the same document provided by EASI for review and is summarized in Table 1.
02/27/95	HMSC	Department of Toxic Substances Control (DTSC)	Waste Discharge Requirements (WDRs)	This transmittal letter provides the DTSC with a copy of the WDRs (dated December 14, 1994) applicable to the use of treated groundwater for landscape irrigation at their Canoga Park facility. The letter also indicated that the CRWQCB is designated as the lead agency for this remediation program.

TABLE 3: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE DTSC ON JANUARY 14, 1999*

Date	From	To	Subject/Title	Comments:
				The attached letter describing WDRs from the CRWQCB also included a table of constituents providing the discharge limitations maximum in mg/l and ug/l for the treated water.
09/18/95	GTI	DTSC	Closure Plan Cleanup Criteria	This letter references DTSC letter dated August 16, 1995 pertaining to establishing cleanup criteria and performance standards for the Closure Plan. GTI indicated the DTSC letter suggests that cleanup criteria for certain compounds should be based on WDRs implemented by the CRWQCB for managing the discharge of treated water at the site. GTI indicated the CRWQCB offered the following comments: (1) WDR discharge limits are not cleanup levels for groundwater but are surface discharge limits; (2) To establish target cleanup levels for soil, the CRWQCB recommends using MCLs along with CRWQCB-specified attenuation factors, as described in the *Interim Guidance for Remediation of VOC Impacted Sites*, January 1995. DTSC's response to this letter is provided below.
10/12/95	DTSC	CRWQCB	Letter regarding waste discharge levels	This letter documents that Hughes submitted a revised Closure Plan on Sept. 18, 1995 to the DTSC for the two permitted RCRA units at the facility, which DTSC proposed to approve following notification to the public for review and comments. The RCRA units were identified as the Hazardous Waste Storage Area ("HWSA") and the former UST T-3. Simultaneously, the DTSC noted, Hughes is engaged in a groundwater cleanup under the supervision of the CRWQCB, for waste discharged into the groundwater from at least three USTs, one of which is T-3. The revised Closure Plan established soil cleanup standards based on (for particular compounds) lowest numbers produced by health risk assessment calculations, background measurement, or the MCLs with the attenuation factors

TABLE 3: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE DTSC ON JANUARY 14, 1999*

Date	From	To	Subject/Title	Comments:
				described in the CRWQCB's *Interim Guidance for Remediation of the VOC Impacted Sites,* January 1995. On Feb. 9, 1995, the CRWQCB issued to Hughes the WDRs, which are lower, in several instances, than their respective MCLs. DTSC indicated that CRWQCB's WDRs must be incorporated within DTSC permitting process which includes closure, post-closure, and corrective action. DTSC indicated that the conflicting closure standards with respect to VOCs (the WDRs levels vs. MCLs) are critical issues that need resolution due to Hughes concern of setting a precedent for the post closure process of T-3.
11/28/95	DTSC	CRWQCB	Lead Agency Designation	DTSC indicated to the CRWQCB that the DTSC will be the lead agency for corrective action at the former Hughes facility.
11/29/95	DTSC	Groundwater Technology, Inc.	Letter regarding clean-up levels	DTSC requested that Hughes use WDRs in its calculations to derive closure standards. The DTSC said *"Note that we use the term closure standard, <u>not</u> cleanup criteria."* DTSC indicated that the WDRs are discharge limits for treated water. DTSC indicated that the WDRs are not cleanup levels; however, they represent the level of protection which the CRWQCB requires to protect the San Fernando Basin as per the CRWQCB's Basin Plan. It is the DTSC's position, until DTSC receives a formal response from CRWQCB, that no more waste should be discharged into the groundwater and Hughes former facility from residual soil contamination than would be allowed to be discharged as treated water under the existing WDRs. In summary, this letter did not specify what the actual groundwater cleanup criteria are for the former Hughes site.
01/26/96	DTSC	CRWQCB	Lead Agency Confirmation	This interagency letter from the DTSC to the RWQCB requested clarification and preference of the CRWQCB regarding the Lead Agency status for Corrective Action at the Hughes facility. Since one of the UST's was permitted under RCRA, provisions regarding long-term care and monitoring under a Post Closure process needs to be implemented. This letter suggests that DTSC should

TABLE 3: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE DTSC ON JANUARY 14, 1999*

Date	From	To	Subject/Title	Comments:
				acquire lead agency status for the remediating groundwater contamination underlying the Hughes site.
01/30/96	CRWQCB	DTSC	Lead Agency Confirmation	This interagency letter from the CRWQCB indicated that they have no objections to the DTSC serving as the lead agency for the underground storage tank investigation and cleanup at the former Hughes site under the RCRA corrective action process. The CRWQCB requested to be copied on all future correspondence from the DTSC for this case, especially when closure is pending.
Unknown Date in 1996	DTSC	Unknown, General Public?	Proposed Negative Declaration	This Proposed Negative Declaration for the Hughes facility indicated that Hughes, as part of its RCRA Hazardous Waste Permit, is seeking approval of a revised Closure Plan from the DTSC for its Hazardous Waste Storage Area HWSA and UST T-3. The letter indicated that as a result of Notices of Deficiencies issued to Hughes by the DTSC dated December.1, 1994 and June 6, 1995, the Closure Plan dated February 1995 was revised in August 1995 and modified by the DTSC in December 1995. The letter described the fieldwork, confirmation sampling, and chemical testing remaining for closure of the HWSA. DTSC proposed and described a Contingent Closure and Contingent Post Closure for UST T-3 to comply with DTSC regulations. DTSC indicated that a records review led to the conclusion that hazardous waste residues in soil and groundwater underlying UST T-3 still exists despite tank\soil removal under CRWQCB oversight. DTSC indicated a final Closure Certification Report will be prepared by Hughes (i.e., currently Raytheon) documenting the completion of closure activities. DTSC indicated that the *"DTSC can still impose corrective action to be addressed during the post closure process if any credible evidence(s) is obtained indicating that they are new solid waste management units."*

TABLE 3: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE DTSC ON JANUARY 14, 1999*

Date	From	To	Subject/Title	Comments:
				DTSC indicated that the current groundwater remediation and monitoring activities underlying the UST T-3 are performed under the CRWQCB's oversight. DTSC determined that this project will not have a significant effect on the environment. DTSC indicated that the HWSA closure or the contingent post closure will not result in the creation of any health hazard or adverse environmental effect.
08/06/96	DTSC	N/A	Negative Declaration Approval	This letter provides approval of the Negative Declaration. The DTSC found that on the basis of the Initial Study and comments received on the Negative Declaration that there is no substantial evidence that this project will have a significant effect on the environment.
08/06/96	California Environmental Protection Agency (EPA)	??	Response to Comments on the Modified Closure Plan and the Proposed Negative Declaration	This document was an attachment to the DTSC Negative Declaration Approval dated August 6, 1996. The letter includes comments by Hughes and responses by the DTSC. Of note, the DTSC indicated that the soil remediation (i.e., closure) of UST T-3, which was performed under the supervision of the CRWQCB, does not constitute closure under RCRA and that the DTSC finds that hazardous waste residuals is soil still remain and are continuously contributing to groundwater contamination. DTSC noted *"Furthermore, the hazardous waste constituents contained in T-3 cause contamination of groundwater underlying T-3, hence, T-3 is subject to post closure. Since T-3 did not have a secondary containment, it must be closed under landfill requirements which automatically require a post closure permit. These requirements included, at a minimum, groundwater remediation and monitoring that are both subject to RCRA standards".*
02/06/97	DeVry Inc.	??	Portion of Report	This report indicated that Lot A, south of the site (i.e., Lot B) is in an area of minimal flooding potential (Zone C) as defined by the Federal Insurance Administration.

TABLE 3: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE DTSC ON JANUARY 14, 1999*

Date	From	To	Subject/Title	Comments:
02/05/98	Raytheon Missile Systems Group (RMSG)	DTSC	Letter regarding the Upcoming Meeting Regarding Designation of Solid Waste Management Unit s and Areas of Concern	Raytheon summarized their position regarding corrective action at the proposed Areas of Concern (AOCs) and Solid Waste Management Units (SWMUs) identified by the DTSC at the former Hughes facility. This letter was prepared prior to a proposed face-to-face February 10, 1998 meeting between Raytheon and the DTSC. Raytheon conclusions and recommendations based on DTSC input are summarized into four categories or groups (summarized herein only for the AOCs and SWMUs on Lot B): **Group 1: Designated as Areas for Consideration of Further Action:** The DTSC-proposed AOCs/SWMUs in this category for Lot B (i.e., the site) are: SWMU No. 4 – The parking area between Building Nos. 274/276 SWMU No. 5 – Building No.274 cooler unit AOC No. 8 – Building No.274 AOC No. 9 – Building No.276 **Group 2: Designated as Areas Being Adequately Addressed Through the Ongoing Groundwater/Soil Remediation Currently Being Conducted Under the CRWQCB August 1990 Consent Order:** The DTSC-proposed AOC/SWMU in this category for Lot B (i.e., the site) is: AOC No. 11 – Former USTs T- and T-6 **Group 3: Areas Being Adequately Addressed Through Natural Attenuation:** The DTSC-proposed AOCs/SWMUs in this category for Lot B (i.e., the site) are: SWMU No. 7 – Sewer line near B-SL-4 AOC No. 1 – Building No.263 AOC No. 3 – Building No.265

TABLE 3: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE DTSC ON JANUARY 14, 1999*

Date	From	To	Subject/Title	Comments:
				Group 4: Areas with Inadequate Evidence of a Release: The DTSC-proposed AOCs/SWMUs in this category for Lot B (i.e., the site) are: AOC No. 7 – Building No.271 AOC No. 10 – Building No.281 AOC No. 12 – USTs T-7 and T-9 Raytheon stated that post-closure care for former UST T-3 was not applicable because the unit was "clean-closed" through ongoing corrective action. Raytheon stated that the 1990 Consent Agreement also prevents DTSC from requiring post-closure care for UST T-3. Raytheon further stated that the substantive requirements associated with post-closure make little sense for this site. Raytheon believes that contaminated soils have already been removed from beneath the UST T-3 former location. Raytheon stated that *"Because we continue to firmly believe that post closure is not applicable to Tank T-3, RMSC has no plans to prepare a post-closure operation plan, as requested by DTSC and its letter dated 14 November 1997."* Raytheon concluded that *"...the site poses no threat to human health and the environment, based on all data and reports that have been generated to date."* (Review below, the DTSC's May 19, 1998 Response to this Raytheon Letter) (Also review Raytheon's September 8, 1998 request to DTSC to de-list several of the above-mentioned AOCs and SWMUs)
02/06/98	N/A	N/A	Summary Data Obtained from DTSC that summarizes Radionuclide Data	This is compilation of radiological data obtained from the DTSC that represents groundwater sampling events conducted from December 1990 to March 1992. The radionuclide data has been described previously; however, this is the first table that summarizes the documented sampling events. None of these data appear to test for man-made radionuclides aside from uranium and radium.

TABLE 3: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE DTSC ON JANUARY 14, 1999*

Date	From	To	Subject/Title	Comments:
03/21/98	RMSG	CRWQCB	Letter regarding Cost Reimbursement Account	This letter is identical to the letter reviewed at the CRWQCB (see Table 2) that questions Raytheon' s payment to both the CRWQCB and DTSC as part of Cal-EPA's Cost Reimbursement Program.
05/19/98	EPA	RMSG	Letter regarding Post-Closure Permit Application Requirement	DTSC indicates to Raytheon that they have failed to provide the Post-Closure Application for the former UST T-3. Raytheon is in violation of Title 22 California Code of Regulations. DTSC contends T-3 is subject to post closure requirements per Title 22. DTSC again requires Raytheon to submit a post-closure application for T-3 within 30 days of receipt of their letter.
05/29/98	Langdon Wilson	DTSC	Letter regarding DeVry Institute of Technology	DeVry Institute has prepared a Conditional Use Permit for the private school they are planning to build in Lot A. DeVry requested that the DTSC help them with a Hazardous Material Treatment and Disposal Plan that needs to be submitted to LA City Planning and Dept. of Public Works that certifies that remediation has been completed prior to issuance of a building permit. The attached City of LA, Department of Building and Safety letter to DeVry indicated the following: *Hazardous material treatment and disposal plans shall be submitted to the Department of City Planning and the Department of Public Works for approval and by providing a certification by the DTSC that remediation has been completed in compliance with all applicable federal, state and local regulations and in accordance with approved work plans will be required prior to initiation of construction of the proposed project.* **EASI/TCSCRI should evaluate if the City of LA will require the same for any proposed construction project on Lot B.**
07/02/98	RMSG	DTSC	Letter regarding Response to DTSC Comments on Hazardous Waste Storage Area Closure Workplan	Raytheon provided comments to DTSC's comments to their March 11, 1998 workplan for demolition and disposal of their former HWSA in Lot C. Most of the comments to DTSC comments which apply to Lot C do not appear to impact Lot B use and are therefore not described in detail here. Raytheon indicated that a Clean Closure Certification Report will be submitted to DTSC within 8 weeks

TABLE 3: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE DTSC ON JANUARY 14, 1999*

Date	From	To	Subject/Title	Comments:
				of completion of all closure activities and upon receipt of signed disposal manifests.
07/27/98	DTSC	DeVry Inc.	Letter Informing DeVry of No Contamination on Lot A	DTSC notified DeVry that they did not believe that a release has occurred on the DeVry Parcel (i.e., Lot A) of the former Hughes facility and that DTSC does not believe any investigation or remediation is necessary subject to certain conditions: It is possible that the sewer line, which crosses the DeVry parcel, may need to be investigated in the future even though it is not being required at this time. DTSC desires notification 7 calendar days before initiation of excavation activities so that DTSC can observe the sidewalls or bottom of the excavation. DeVry must provide for access should future borings or wells be needed. DeVry or any subsequent owner may be required to provide site access to areas on their parcel requiring corrective action if identified in the future. Such activities may include, but are not limited to, soil excavation and/or groundwater extraction and treatment. Providing such access may require the owner to vacate and/or demolish existing and/or future facilities at the site.
09/08/98	RMSG	DTSC	Letter regarding Report of Additional Site Assessment in Vicinity of CM-10 and Parking Area Adjacent to Building Nos. 265, 274, and 276	This letter is identical to the letter of the same date reviewed at the CRWQCB (see Table 2 summary).
09/16/98	Errol L. Montgomery & Associates, Inc.	Unknown, Raytheon possibly	Plan for Modification of Remediation Systems	Report indicates that VOCs in groundwater in the vicinity of well CM-8D continue to show a decreasing trend and are presently below groundwater cleanup criteria. In addition, notes no indication that VOCs are migrating down-gradient away from the CM-8D area and is no indication that this area of VOCs will require active remediation in order to meet groundwater cleanup criteria established for the site. No further investigations or remedial actions were recommended for the CM-10 area.

TABLE 3: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE DTSC ON JANUARY 14, 1999*

Date	From	To	Subject/Title	Comments:
09/18/98	RMSG	CRWQCB	Letter regarding Modification of Remedial System	Raytheon described modifications (deactivation of some wells and addition of new wells) in order to enhance and expedite the ongoing remediation effort at the former Hughes facility (Lot C). Indicated remediation has been in progress since early 1995. Even though Raytheon has concerns about paying for two agencies involvement, Raytheon requested that a Cost Recovery Account be established to pay for both DTSC and CRWQCB regulatory oversight.
10/05/98	RMSG	DTSC	Letter regarding Summary Report of Supplemental Sampling and Analysis Performed at the Locations of Former Building Nos. 269, and 272, 282.	The letter summarized the findings of site investigations performed on the northern portion of Lot C in the Building Nos.269, 272, and 282 building areas. Raytheon requested that DTSC remove several of the SWMUs and AOCs from their list. Raytheon indicated they need DTSC's response on two key issues: (1) A revised list from DTSC of SWMUs and AOCs. They indicated additional data to remove other SWMUs and AOCs was submitted to the DTSC on February 17, 1998 and September 8, 1998. (2) DTSC's final decision regarding post-closure for former UST T-3. They indicated Raytheon will not proceed with plans for site close-out until the post-closure issue is resolved.
12/11/98	DeVry Institute	DTSC	Letter Describing Exposed Sewer Line on Lot A	DeVry wrote the letter to the DTSC to inform them that they observed an existing sewer line crossing a portion of Lot A. The sewer line was observed to be metal and did not exhibit evidence of leakage.

* Some documents reviewed at the DTSC were not summarized because they were evaluated as not providing relevant information regarding the environmental status of the site. In addition, because Geocon's primary focus was on the environmental condition of Lot B, only generalized environmental information affecting the other subdivided former Hughes lots (i.e., Lots C, A, and D) was provided.



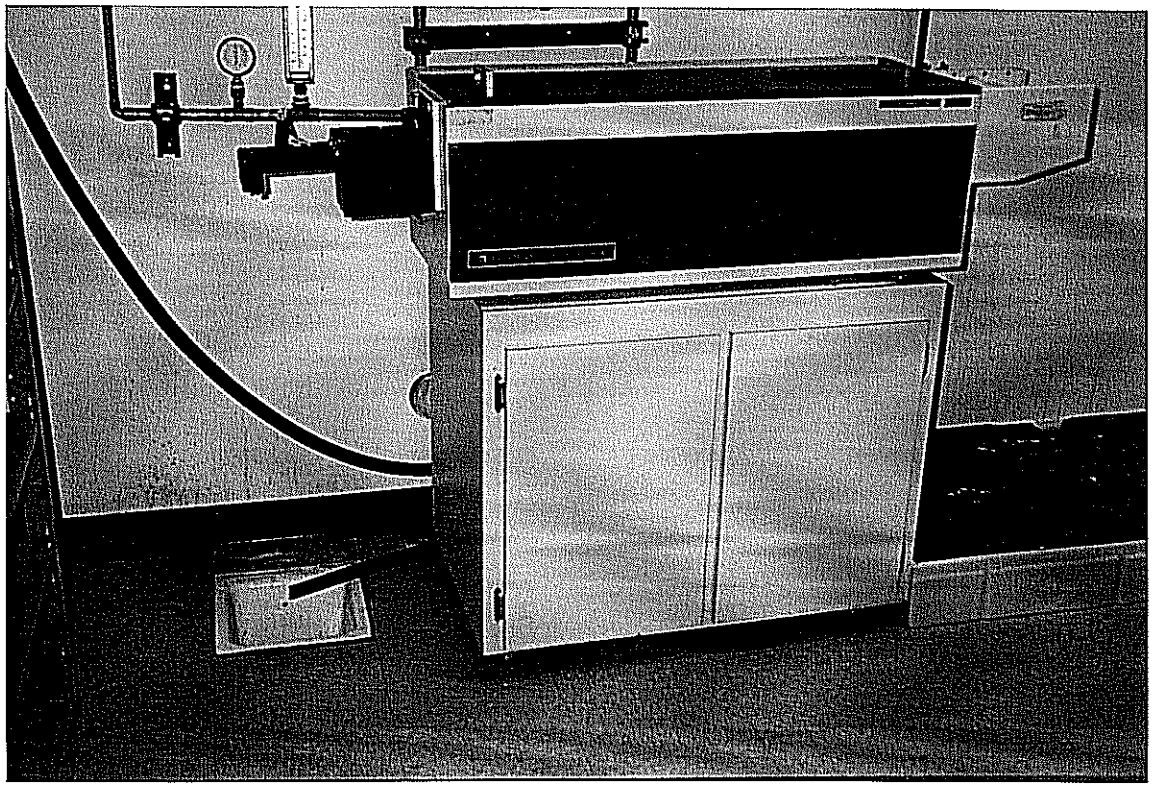
Photograph 1 – General Site Area – Including Building 277 - View to west



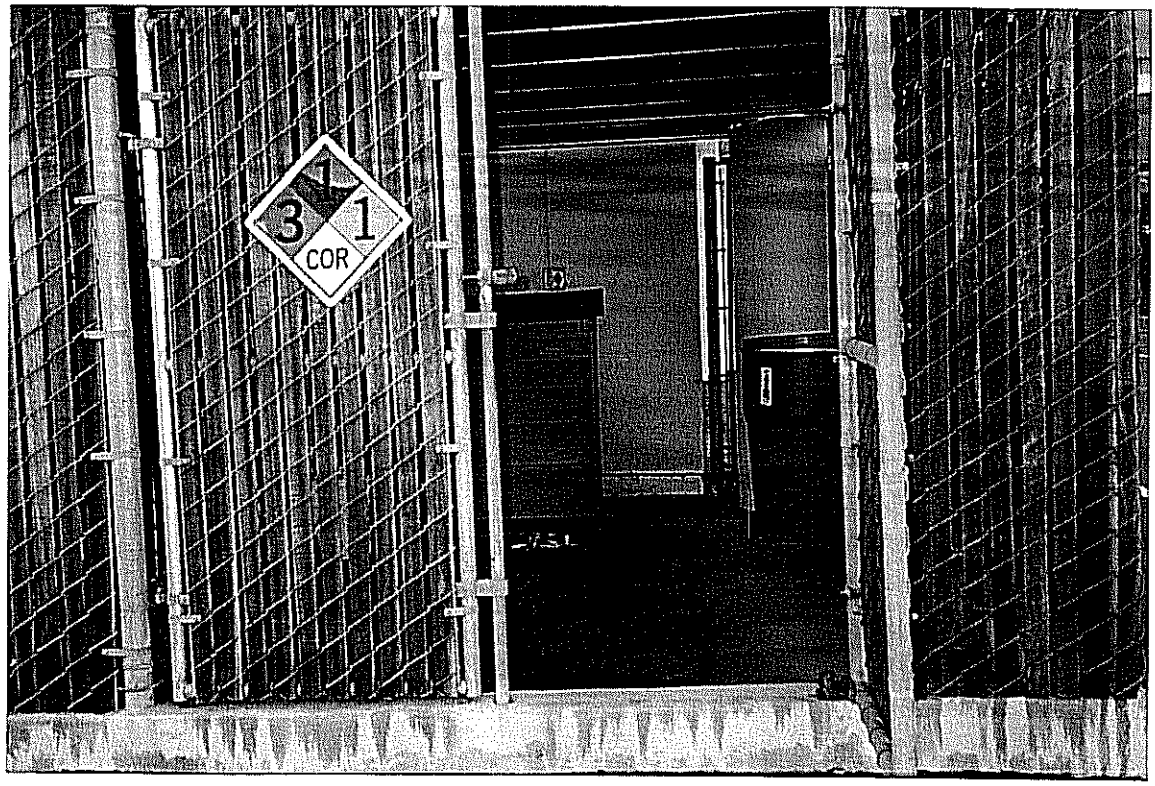
Photograph 2 – Building 261 - View to north



Photograph 3 – Transformer Area – Note staining at base of transformer at right - View to northwest



Photograph 4 – Building 277 – Photoprocessing equipment



Photograph 5 – Building 265 – Former chemical storage area at northeast of building



Photograph 6 – Building 265 – Cuts in concrete floor in basement

SITE ASSESSMENT PLUS REPORT
(EXTENDED BY 1/4 MILE)

PROPERTY INFORMATION	CLIENT INFORMATION
Project Name/Ref #: Not Provided 8433 Fallbrook Avenue Canoga Park, CA 91304 Latitude/Longitude: (34.222899, 118.625757)	

Site Distribution Summary Agency / Database - Type of Records			within 3/8 mile	3/8 to 1/2 mile	1/2 to 3/4 mile	3/4 to 1 1/4 mile
A) Databases searched to 1 1/4 mile:						
US EPA	NPL	National Priority List	0	0	0	0
US EPA	CORRACTS (TSD)	RCRA Corrective Actions and associated TSD	1	0	0	0
STATE	SPL	State equivalent priority list	0	0	0	0
B) Databases searched to 3/4 mile:						
STATE	SCL	State equivalent CERCLIS list	1	0	0	-
US EPA	CERCLIS / NFRAP	Sites currently or formerly under review by US EPA	1	0	0	-
US EPA	TSD	RCRA permitted treatment, storage, disposal facilities	0	0	0	-
STATE REG CO	LUST	Leaking Underground Storage Tanks	1	0	0	-
STATE/ REG/CO	SWLF	Permitted as solid waste landfills, incinerators, or transfer stations	0	0	0	-
STATE	DEED RSTR	Sites with deed restrictions	0	0	0	-
STATE	CORTESE	State index of properties with hazardous waste	1	0	0	-
STATE	TOXIC PITS	Toxic Pits cleanup facilities	0	0	0	-
C) Databases searched to 1/2 mile:						
US EPA	RCRA Viol	RCRA violations/enforcement actions	1	0	-	-
US EPA	TRIS	Toxic Release Inventory database	0	0	-	-
STATE	UST/AST	Registered underground or aboveground storage tanks	4	0	-	-
COUNTY	UNIQUE CO	Unique county databases	3	0	-	-

Site Distribution Summary Agency / Database - Type of Records			within 3/8 mile	3/8 to 1/2 mile	1/2 to 3/4 mile	3/4 to 1 1/4 mile
D) Databases searched to 3/8 mile:						
US EPA	ERNS	Emergency Response Notification System of spills	3	-	-	-
US EPA	GNRTR	RCRA registered small or large generators of hazardous waste	4	-	-	-
STATE	SPILLS	State spills list	0	-	-	-

This report meets the ASTM standard E-1527 for standard federal and state government database research in a Phase I environmental site assessment. A (-) indicates a distance not searched because it exceeds these ASTM search parameters.

LIMITATION OF LIABILITY
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NOTES

SITE ASSESSMENT PLUS REPORT
(EXTENDED BY 1/4 MILE)

Map of Sites within 1 1/4 Miles



If additional databases are listed in the cover page of the report they are also displayed on this map. The map symbol used corresponds to the database category letter A,B,C,D.

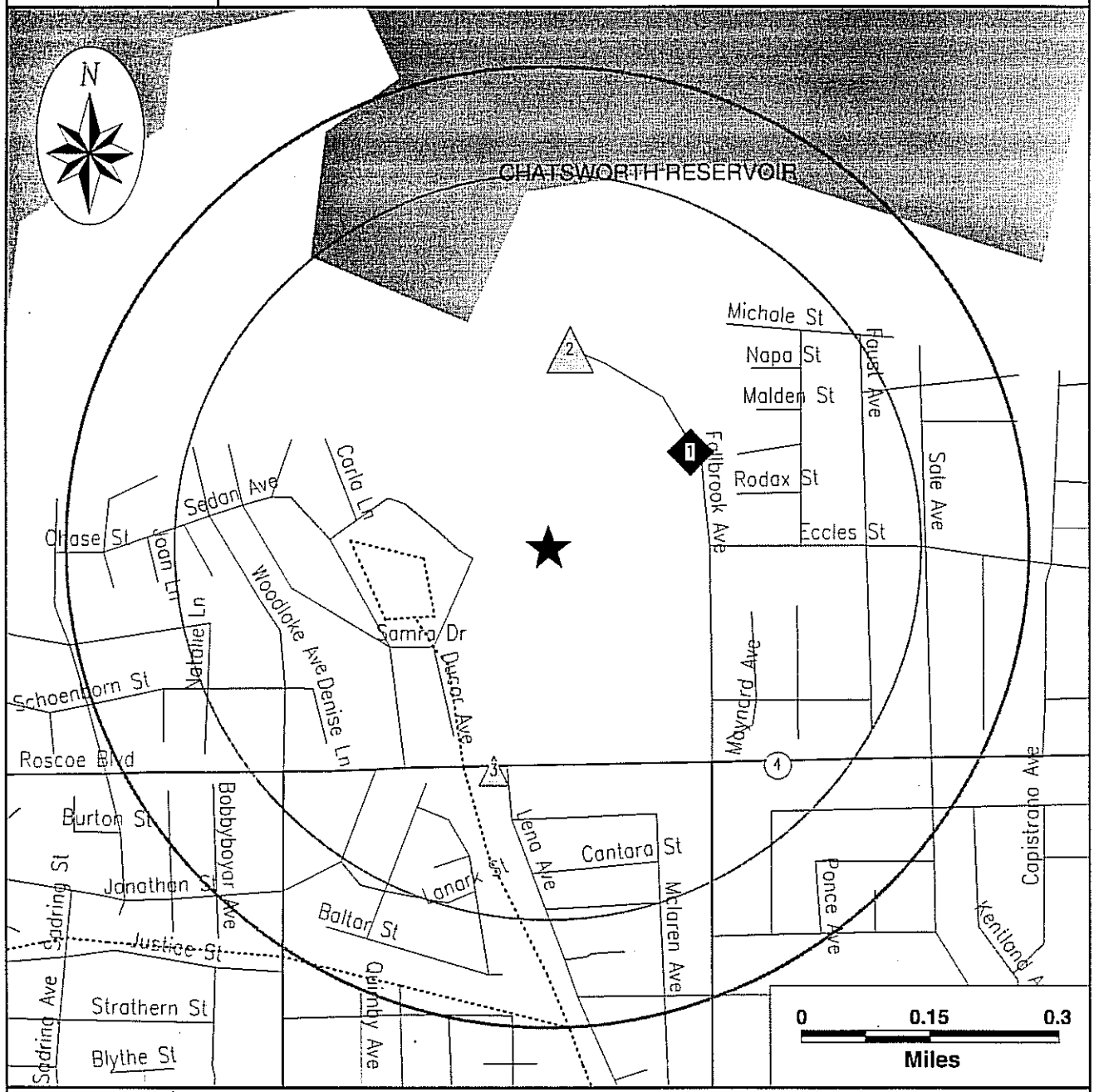
For More Information Call VISTA Information Solutions, Inc. at **1 - 800 - 767 - 0403**

Report ID: **990105200**

Date of Report: **January 5, 1999**

SITE ASSESSMENT PLUS REPORT
(EXTENDED BY 1/4 MILE)

Map of Sites within 3/8 Mile



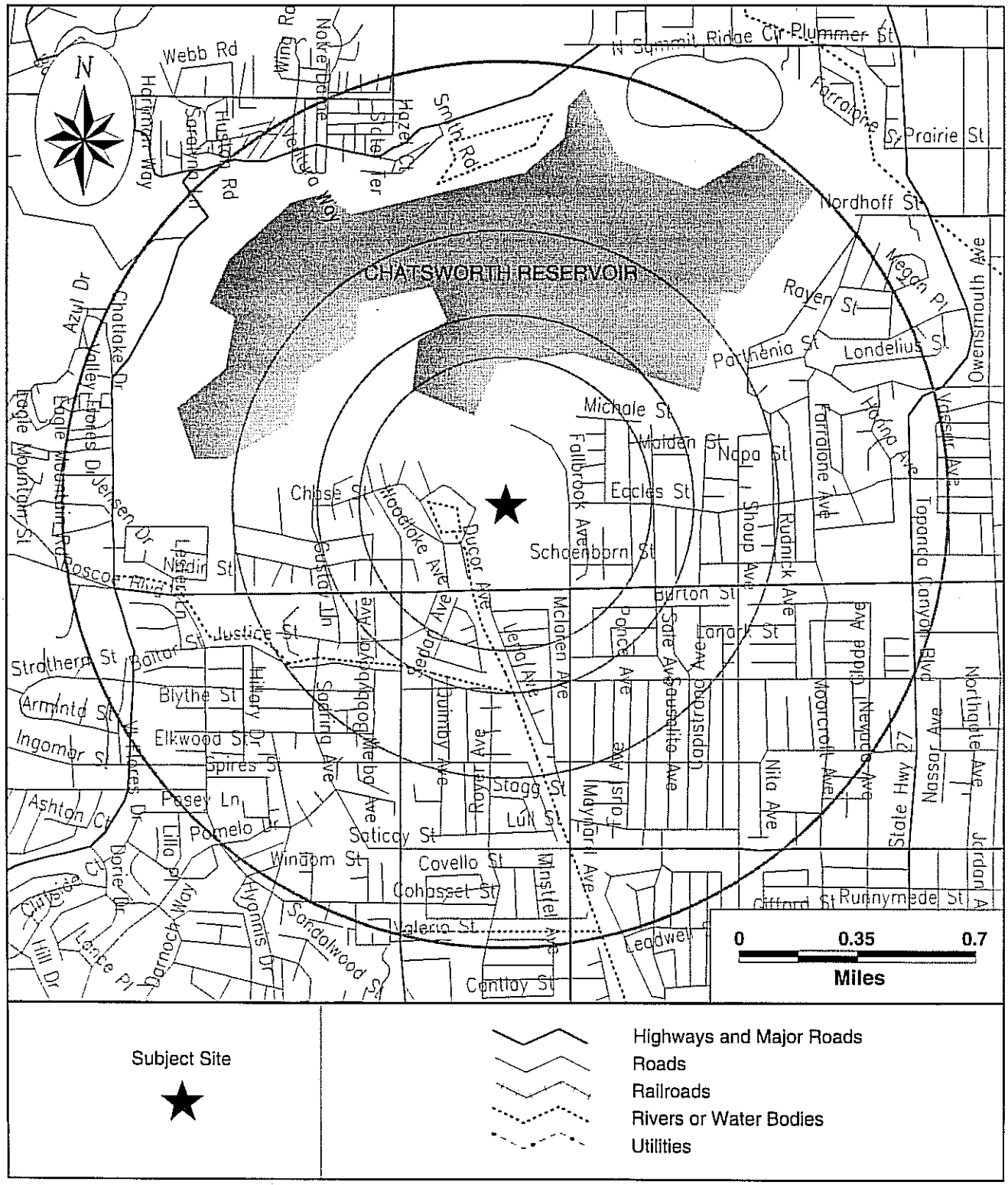
Subject Site	Category:	A	B	C	D
★	Databases Searched to:	1 1/4 mi.	3/4 mi.	1/2 mi.	3/8 mi.
	Single Sites	◆	▩	△	○
	Multiple Sites	◆	▩	△	○
		NPL, SPL, CORRACTS (TSD)	CERCLIS\ NFRAP, TSD, LUST, SWLF, SCL	UST	ERNS, GENERATORS

Highways and Major Roads
Roads
Railroads
Rivers or Water Bodies
Utilities

If additional databases are listed in the cover page of the report they are also displayed on this map. The map symbol used corresponds to the database category letter A,B,C,D.

SITE ASSESSMENT PLUS REPORT
(EXTENDED BY 1/4 MILE)

Street Map



SITE ASSESSMENT PLUS REPORT
(EXTENDED BY 1/4 MILE)

SITE INVENTORY

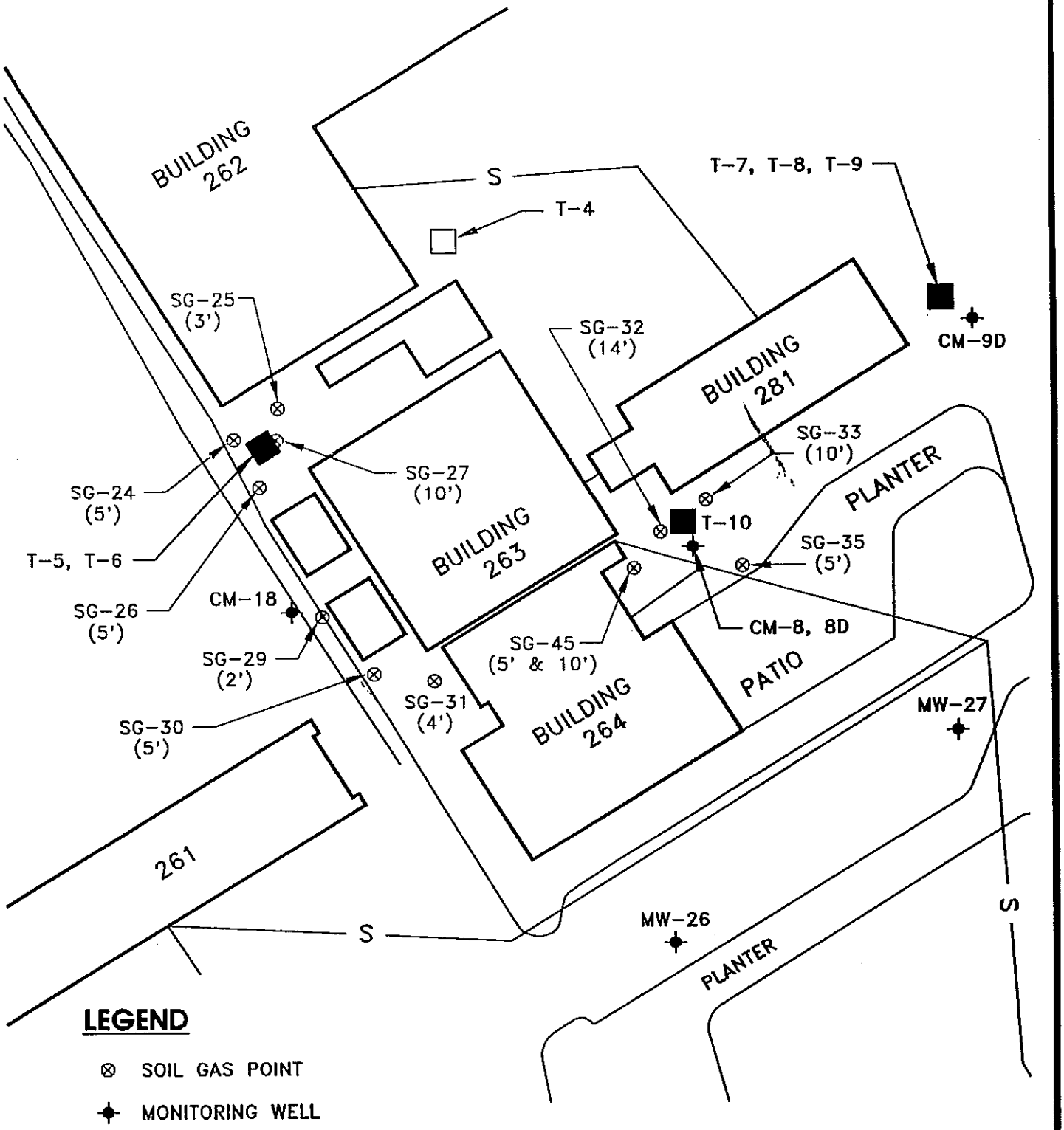
MAP ID	PROPERTY AND THE ADJACENT AREA (within 3/8 mile)	VISTA ID DISTANCE DIRECTION	A			B									C				D		
			NPL	CORRACTS(TSD)	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	DEED RSTR	CORTESE	TOXIC PITS		RCRA VIOL	TRIS	UST/AST	UNIQUE CO	ERNS	GNRTR	SPILLS
1	HUGHES AIRCRAFT 8433 FALL BROOK CANOGA PARK, CA 91304	200097121 0.14 MI NE																	X		
1	HUGHES MISSILE SYSTEMS 8433 FALLBROOK AVE CANOGA PARK, CA 91309	200307287 0.14 MI NE																	X		
1	HUGHES MISSILE SYSTEMS COMPANY 08433 FALLBROOK AV CANOGA PARK, CA 91304	1231907 0.14 MI NE																X			
1	HUGHES AIRCRAFT COMPANY 8433 FALLBROOK CANOGA PARK, CA 91304	202327 0.14 MI NE		X		X	X		X			X			X		X	X		X	
1	HUGHES MISSILE SYSTEMS 8433 FALLBROOK AVE CANOGA PARK, CA 91309	200307569 0.14 MI NE																	X		
1	HUGHES T-3 SITE 08433 FALLBROOK AV CANOGA PARK, CA 91304	6563697 0.14 MI NE																X			
2	CHATSWORTH RESERVOIR 8600 FALLBROOK CANOGA PARK, CA 91304	1258759 0.17 MI N															X				
2	ROCKWELL AID /C 8500 FALLBROOK CANOGA PARK, CA 91304	358341 0.18 MI N															X			X	
3	FIRE STATION 106 23004 ROSCOE CANOGA PARK, CA 91304	235212 0.21 MI S															X			X	
4	LAKEVIEW CLEANERS 22736 ROSCOE BLVD CANOGA PARK, CA 91304	236050 0.31 MI SE																		X	

MAP ID	SITES IN THE SURROUNDING AREA (within 3/8 - 1/2 mile)	A			B								C				D		
	VISTA ID / DISTANCE / DIRECTION	NPL	CORRACTS(TSD)	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	DEED RSTR	CORTESE	TOXIC PITS	RCRA VIOL	TRIS	UST/AST	UNIQUE CO	ERNS	GNRTR	SPILLS
No Records Found																			

MAP ID	SITES IN THE SURROUNDING AREA (within 1/2 - 3/4 mile)	A			B								C				D		
	VISTA ID / DISTANCE / DIRECTION	NPL	CORRACTS(TSD)	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	DEED RSTR	CORTESE	TOXIC PITS	RCRA VIOL	TRIS	UST/AST	UNIQUE CO	ERNS	GNRTR	SPILLS
No Records Found																			

MAP ID	SITES IN THE SURROUNDING AREA (within 3/4 - 1 1/4 mile)	A			B								C				D		
	VISTA ID / DISTANCE / DIRECTION	NPL	CORRACTS(TSD)	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	DEED RSTR	CORTESE	TOXIC PITS	RCRA VIOL	TRIS	UST/AST	UNIQUE CO	ERNS	GNRTR	SPILLS
No Records Found																			

UNMAPPED SITES	VISTA ID	A			B								C				D		
		NPL	CORRACTS(TSD)	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	DEED RSTR	CORTESE	TOXIC PITS	RCRA VIOL	TRIS	UST/AST	UNIQUE CO	ERNS	GNRTR	SPILLS
PAVILLIONS 225 5534 PLATT AVE CANOGA PARK, CA 91304	4062861																	X	
ENERGY TECHNOLOGY ENGINEERING CTR SANTA SUSANA MOUNT-TOP OF WOOLSEY CANYO CHATSWORTH, CA 91311	7636802					X													
CHATSWORTH RESERVOIR 8700 FALLBROOK CHATSWORTH, CA 91311	4026649														X				
RENTEC DIVISION 07647 ALABAMA ST CANOGA PARK, CA 91304	7431173															X			
UNKNOWN UNINCORP BROWN'S CANYON CHATSWORTH, CA 91311	7431594															X			
LACY STREET DUMP-LOS ANGELES 400 26TH AVENUE LOS ANGELES, CA	7447639								X										
AMERICAN LINEN 900 HIGHLAND LOS ANGELES, CA 926700000	7432643										X								
S P COMMERCIAL PROPERTY 501 COMMERCIAL LOS ANGELES, CA	7431826										X								
LOS ANGELES INTERNATIONAL AIRP ALONG SEPULVEDA LOS ANGELES, CA	7448319								X										
LOS ANGELES CITY-TUJUNGA SHE 500' E TUJUNGA, 500' N SHERMAN LOS ANGELES, CA	7448360								X										
2524 HARBOR BLVD , CA	4983201														X				
NEWHALL STATION VALENCIA BLVD. AT NEWHALL AVE. LOS ANGELES, CA	3996881														X				
FLOOD ELEMENT SANTA CLARA YARD 21004 W SOLEDAD CANYON LOS ANGELES, CA	4041730														X				
LA CITY WASHINGTON BLVD LOS ANGELES, CA	6830243								X										
LA CITY DEPARTMENT OF PUBLIC WORKS LOS ANGELES, CA	6830238								X										
3 POINTS DISPOSAL SITE AVE A-8 SOUTH OF KERN CO LOS ANGELES, CA 0	1185005								X										



GROUNDWATER TECHNOLOGY

0 FEET 100
APPROXIMATE

SOIL GAS SURVEY POINTS, AREAS 3 AND 4

CLIENT: HUGHES MISSILE SYSTEM CO.	FILE: 1035PSG3 (1:1000)	PROJECT NO.: 04250-0135	PM	PE/RG	
	REV.		FIGURE: 3		
LOCATION: 8433 FALLBROOK AVENUE CANOGA PARK, CALIFORNIA	DES. SWL	DET. SAC	DATE: 7/13/95		

Raytheon

Raytheon Missile Systems Compa
P.O. Box 11337
Tucson, AZ 85734-1337
(520) 794-3000

In Reply Refer To:
8100/IJR/8298

5 February 1998

VIA FEDERAL EXPRESS

Mr. Philip B. Chandler
Supervising Hazardous Substances Engineering Geologist
California Department of Toxic Substances Control
Southern California Permitting Branch
1011 North Grandview Avenue
Glendale, California 91201

RE: Upcoming Meeting Regarding Designation of Solid Waste Management Units(SWMUs) and Areas of Concern (AOCs) at former Hughes Missile Systems Company facility at Canoga Park, EPA ID CAD 041162124

Dear Mr. Chandler:

Raytheon Missile Systems Company (RMSC, formerly known as Hughes Missile Systems Company) appreciates the opportunity to meet with DTSC on 10 February 1998 to review RMSC's conclusions regarding DTSC's designation of Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) at the Canoga Park facility. A proposed agenda for the meeting will be sent to your attention via telefax on Monday. RMSC will be prepared to provide status of the Hazardous Waste Storage Area closure, the ongoing Groundwater and Soil Remediation system, and redevelopment activities at the site, and to discuss the DTSC-proposed AOCs/SWMUs and post-closure of former Tank T-3.

In preparation for the upcoming meeting, RMSC would like to summarize our position regarding corrective action at proposed AOCs/SWMUs at the site, and post-closure at former Tank T3, as follows:

- **Corrective Action:** Many of the AOCs/SWMUs proposed by DTSC in its 5 June 1997 letter are being addressed through the Corrective Action Plan (CAP) and Addendum. For many of those that remain, DTSC has not demonstrated that actual releases have occurred. The California Health & Safety Code 25187(a) gives DTSC the authority to issue corrective action orders "whenever...the department... determines that there is or has been a release of hazardous waste or constituents into the environment from a hazardous waste facility". DTSC has proposed AOCs/SWMUs at the Canoga Park facility based on the *possibility* that hazardous materials could have been handled or disposed of inappropriately, and a suspicion that a release may have occurred. However, under this provision, "suspected" releases, are not enough. Corrective action cannot be required until actual releases of

hazardous waste or constituents from the unit at issue have been proven. It is not sufficient merely to suggest, as DTSC has, that the record does not yet prove that a particular proposed AOC/SWMU could not be a potential source for contamination observed elsewhere. In addition, there is no evidence that suggests mismanagement of hazardous materials.

Based on the foregoing, RMSC and its consultants have reviewed DTSC's 5 June 1997 letter, and the existing relevant data for each of the AOCs and SWMUs proposed by DTSC. RMSC's conclusions and recommendations based on that review are summarized in four categories or groups below. At our meeting next week, we will be prepared to review in detail the available analytical data (through January 1998) for any and all of the DTSC-proposed AOCs/SWMUs.

Group 1- Areas for consideration of further action. RMSC and its consultants have concluded that additional data might be useful to further characterize certain areas. For example, because Building 269 has been demolished by the new owner's subcontractors and further redevelopment plans are uncertain, RMSC will voluntarily collect additional samples in the area in the near future.

The DTSC-proposed AOCs/SWMUs in this category are:

SWMU No. 3 - Pits at Bldg. 269
SWMU No. 4 - Parking area between Bldgs. 274/276
SWMU No. 5 - Bldg. 274 Cooler Unit
AOC No. 5 - Bldg. 269
AOC No. 8 - Bldg. 274
AOC No. 9 - Bldg. 276

Group 2 - Areas being adequately addressed through the ongoing Groundwater/Soil Remediation currently being conducted under the Los Angeles Regional Water Quality Control Board (LARWQCB), in accordance with the August 1990 Consent Order. These areas are located primarily in the northwestern corner of the site. This group also includes areas that have been adequately addressed through activities such as soil excavation, such as former Tank T-3.

The DTSC-proposed AOCs/SWMUs in this category are:

SWMU Nos. 1 and 2 - Bldgs. 272/282
SWMU No. 6 - Bldg. 272/282 Pump Island (Tanks T-1 and T-2)

Group 2 (cont'd) -
AOC No. 6 - Bldg. 270
AOC No.11 - former Tanks T-5 and T-6
Former Tank T-3

Group 3 - Areas being adequately addressed through natural attenuation, as approved in the 1992/4 Corrective Action Plan & Addendum. This category pertains primarily to CM-10, which contains FREON in concentrations below the maximum contaminant level for drinking water, and CM-8D, which contains DCE at concentrations that have been declining significantly. This category also includes areas in which constituent levels are considered to be naturally-occurring, such as the sewerline near soil boring B-SL-4.

The DTSC-proposed AOCs/SWMUs in this category are:

SWMU No. 7 - Sewerline near B-SL-4
AOC No. 1 - Bldg. 262
AOC No. 2 - Bldg. 263
AOC No. 3 - Bldg. 265

Group 4 - Areas with inadequate evidence of a release.
Most of these are buildings that are suspected by DTSC as possible sources for the contamination observed at CM-10 and CM-8D. However, as discussed above, it is RMSC's position that there is no evidence that these areas are associated with any release.

The DTSC-proposed AOCs/SWMUs in this category are:

AOC No. 4 - Bldg. 268
AOC No. 7 - Bldg. 271
AOC No.10 - Bldg. 281
AOC No.12 - former Tanks T-7 and T-8
AOC No. 13 - former Tank T-14

- **Post-closure care for former Tank T-3:** Post-closure is not applicable to the former Tank T3 because the regulations do not authorize post-closure for tanks that can be clean closed through ongoing corrective action. Post-closure care applies only to those facilities at which "all hazardous wastes, waste residues, contaminated materials and contaminated soils *will not* be removed during closure." In fact, owners/operators of tank systems may only

be required to satisfy post-closure standards where "the owner or operator demonstrates that not all contaminated soils *can be* practicably removed or decontaminated....". The regulations do not specify any time limit for achieving the removal of contaminated soils. RMSC has already removed all contaminated soils associated with releases from Tank T3. While there is no evidence to suggest that any residual contaminants remain in deeper soils or groundwater, if that were the case, those contaminants are being properly addressed through the ongoing corrective action process. Therefore, DTSC is without legal authority to require post-closure care for this tank. [22 C.C.R. § 66264.110(b)(3)]. Neither does section 66264.197(c) of the regulations authorize post-closure for Tank T-3. That section requires only that an owner/operator of a tank without secondary containment include in its closure plan a contingent plan which discusses post-closure care. RMSC met that requirement in its Closure Plan approved August 1996.

The 1990 Consent Agreement also prevents DTSC from requiring post-closure care for Tank T3. The agreement resolved RMSC's liability concerning the closure of Tank T3. In accordance with the agreement, RMSC worked with the LARWQCB, developed the various plans required, obtained LARWQCB approval of the plans, and provided DTSC for opportunities for review and comment. An effective groundwater and soil remediation system has been in place since 1995. All contaminated soils have been excavated and removed, as demonstrated by confirmation sampling. DTSC's attempt to effectively revise the clean closure standards, and thereby require post-closure care, is precluded by RMSC'S satisfactory implementation of the approved Remedial Action Plan and Corrective Action Plan (CAP), in accordance with the Consent Agreement.

Post-closure care is not necessary for Tank T3 in light of ongoing remedial activities at the site. The substantive requirements associated with post-closure care make little sense for this site. For example, installation of a cap to prevent downward migration of percolation waters for a period of 100 years would provide no benefit because contaminated soils have already been removed. Requiring RMSC to obtain a post-closure permit under these circumstances would significantly increase RMSC's costs without advancing the goals of protecting human health and the environment and quickly completing corrective action at this site. Such an order would also run counter to an emerging national trend in favor of the use of corrective action in lieu of post-closure permits. EPA and other states in Region IX have recognized the benefits of corrective action's emphasis on achieving clean closure and are moving away from requiring post-closure permits. In early

1998, EPA will finalize a proposed rule removing the current requirement for a post-closure permit and allowing EPA to use alternative authorities to address facilities with units requiring long-term corrective action. DTSC should follow EPA's lead and continue to rely on its corrective action authority to allow RMSC to continue its efforts to achieve clean closure of Tank T3 through corrective action as an alternative to a post-closure permit

Because we continue to firmly believe that post closure is not applicable to Tank T3, RMSC has no plans to prepare a post-closure operation plan, as requested by DTSC in its letter dated 14 November 1997.

In closing, RMSC would like to emphasize that we vacated the Canoga Park site more than three years ago. We have worked with the agencies to develop an appropriate exit strategy, and have performed more than enough work to adequately investigate and remediate this site. As a result, the site poses no threat to human health and the environment, based on all data and reports that have been generated to date. Because we no longer own the facility, and have no control over current owners and their redevelopment contractors, we must be completely out of this site by the end of this year. However, we continue to be ready and willing to address any legitimate concerns that DTSC may have, if we can successfully agree on a clear path to overall site closure that is prudent, rational, and expeditious.

We look forward to our upcoming meeting, and are hopeful that together we can come to agreement regarding actions that will lead to a prompt and final closure of this site.

Sincerely,

RAYTHEON MISSILE SYSTEMS COMPANY

I. Jean Roberts

for R.A. Padilla, Manager
Environmental & Resource Conservation Programs

cc: P. Blum, DTSC/Glendale
D.L. Grasmick, FD/GTI
J. Kou, DTSC/Glendale
K. Lytz, Latham & Watkins
C.A. Marriott
I.J. Roberts
P.A. Taylor
F. Dellechaie, DTSC/Sacramento

Department of Toxic Substances Control

Jesse R. Huff, Director
1011 N. Grandview Avenue
Glendale, California 91201-2205

Pete Wilson
Governor

Peter M. Rooney
Secretary for
Environmental
Protection

July 27, 1998

CERTIFIED MAIL

Mr. Ken Rutkowski
Vice President
DeVry, Inc.
One Tower Lane, Suite 1000
Oakbrook Terrace, Illinois 60181-4624

Dear Mr. Rutkowski:

DEVRY INSTITUTE OF TECHNICAL, WEST HILL SITE, 22801 ROSCOE BOULEVARD, WEST HILLS, CALIFORNIA (PARCEL CREATED FROM FORMER HUGHES MISSILE SYSTEMS CANOGA PARK FACILITY, 8433 FALLBROOK AVENUE, CANOGA PARK, CALIFORNIA (EPA ID NO. CAD041162124

Mr. Bill Woodson of Langdon and Wilson contacted the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC) in DeVry Inc.'s behalf regarding a parcel that was created out of the former Hughes Missile Systems Company (HMSC) Canoga Park facility in Canoga Park. A condition has been required by the City of Los Angeles with respect to construction on any of the parcels created out of the former HMSC facility due to releases of hazardous waste that had occurred previously at various parts of the facility. This condition is that DTSC indicate that there is either no problem or that it has been satisfactorily cleaned up.

The HMSC site, as a whole, remains subject to Resource Conservation and Recovery Act (RCRA) corrective action requirements because HMSC had received a permit to store hazardous wastes under RCRA and because there have been documented releases of hazardous wastes at various parts of the facility.

As a result of the request by Mr. Woodson, DTSC has reviewed its files concerning the former Hughes Missile Systems Canoga Park facility as well as the following materials submitted by Mr. Woodson, on July 9, 1998 and July 15, 1998:

"Technical Memorandum, Records Review, and Limited Site Investigation, Hughes Missile System Company, 8433 Fallbrook Avenue, Canoga Park", prepared by Earth Tech, dated November 28, 1994

"Corrective Action Plan Addendum, Hughes Missile System Company, 8433 Fallbrook Avenue, Canoga Park", prepared by Groundwater Technology, Inc., dated March 29, 1994

"Phase I Environmental Report: Areas of Potential Chemical Release to Soil and Groundwater, Hughes Missile System Company, Canoga Park, California", prepared by Groundwater Technology, Inc., dated December 28, 1993

"Report of Geotechnical Investigation Proposed DeVry Institute of Technology Facility", prepared by Law/Crandall, dated February 6, 1997

One set of seven aerial photograph enlargements, dated from 1952 to 1979

Based upon our review, we have not determined that any release has occurred on the DeVry parcel of the former HMSC property and DTSC does not at this time believe any investigation or remediation is necessary subject to the following conditions:

1. It must be noted that the main sewer line, into which HMSC discharged various materials — perhaps including some of the compounds found in ground water elsewhere on the site — crosses the DeVry parcel. It is possible that this segment of the sewer line may need to be investigated although that is not being required at this time.

2. DTSC wishes to be notified at least seven (7) calendar days in advance of the initiation of excavation in order to observe and possibly sample the sidewalls and/or bottom of the excavations for the proposed driveway and any other structures.

3. Since corrective action is not complete with regards to remaining parcels, there may be a need for further installation of borings and groundwater monitoring wells. DeVry must provide access for such installation and allow maintenance of existing and future wells.

4. If DTSC determines the need for further investigation on the DeVry parcel, DTSC reserves the right to do so under its statutory authority. If such investigations identify contaminated areas requiring corrective action, DeVry or any subsequent owner may be required to provide access to such areas to facilitate all necessary remediation activities. Such activities may include, but are not limited to soil excavation and/or groundwater

extraction and treatment. Providing such access may require the owner to vacate and/or demolish existing and/or future facilities on the site.

If you have questions regarding the foregoing, please call Mr. Phil Blum at (818) 551-2961.

Sincerely,

Liang Chiang for

Philip B. Chandler, CEG, RG
Supervising Hazardous Substances
Engineering Geologist
Southern California Permitting Branch

Certified Mail
Z 464 584 410
Return Receipt Requested

cc: Mr. Bill Woodson
Langdon and Wilson
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Los Angeles, California 90017

Mr. Dan Konieczka
Real Estate and Facilities
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One Tower Lane, Suite 1000
Oakbrook Terrace, Illinois 60184-4624

Mr. Juan Gutierrez, Esq.
Office of Legal Counsel
Department of Toxic Substances Control
P.O. Box 806
Sacramento, California 95812-0806

Raytheon

Raytheon Systems Company
PO Box 11337
Tucson, AZ 85734-1337
520.794.3000

In Reply Refer To:
8100/IJR/8380

8 September 1998

AIRBORNE EXPRESS

Mr. Phil Blum, Project Manager
Southern California Permitting Branch
California Department of Toxic Substances Control
1011 N. Grandview Avenue
Glendale, California 91201

RE: Report of Additional Site Assessment in Vicinity of CM-10 and Parking Area Adjacent to Buildings 265, 274, and 276 at Raytheon Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California;
EPA ID CAD 041-162-124

Dear Mr. Blum:

Enclosed please find a copy of the report titled "Additional Site Assessment Report, Sampling and Analysis for Vicinity of CM-10 and Parking Area Adjacent to Buildings 265, 274, and 276". The conclusions and recommendations of Fluor Daniel GTI (FD/GTI), who performed the assessment and prepared the report, are summarized in their attached letter of transmittal to Raytheon.

FD/GTI concludes that the areal extent of the FREON-11 impacts to groundwater beneath the monitor well CM-10 area have been defined. Concentrations in CM-10 remain at or below the State maximum contaminant level (MCL) for drinking water, and have been at that level since June 1995. Sampling in the area of what DTSC believes to be the source of the FREON-11 in CM-10, specifically the parking area adjacent to Buildings 265, 274, and 276, indicates the presence of this constituent also at the MCL. FREON-11 was not detected at significant levels in soil or groundwater at any of the other areas sampled during this assessment.

Raytheon believes that the results of this assessment support the Bldg. 274/276 area as the source of the FREON-11 observed in CM-10. Further, we believe that the FREON-11 contamination is derived from air conditioning repairs that were performed on the cooling units at Building 263 in 1966, as discussed further in Section 2.0 of the enclosed report. The report also concludes that the current "monitor only" strategy continues to be the appropriate course of action for the CM-10 area.

As FD/GTI indicates in their transmittal letter, the assessment in the CM-10 area addresses DTSC's concerns expressed in their 5 June 1997 letter regarding the following SWMUs and AOCs:

SWMU No. 4	Parking Area between Buildings 274 and 276
SWMU No. 4	Cooling unit at the northeast corner outside Building 274
AOC No. 3	Building 265
AOC No. 8	Building 274
AOC No. 9	Building 276

Therefore, Raytheon is requesting that DTSC remove the above SWMUs and AOCs from their list as presented in the 5 June 1997 letter. Also, on 17 February 1998, RMSC provided additional data relating to other SWMUs and AOCs which support our request to remove those from the list as well. DTSC's revised list was promised by Phil Chandler at our February meeting, but has not been received to date.

Please contact me at (520)794-9320 should you have any questions about the enclosed document.

Sincerely,

RAYTHEON MISSILE SYSTEMS COMPANY

I. Jean Roberts

I. Jean Roberts, Project Manager
Environmental, Health, & Safety

Enclosure

cc w/enclosure:

D. Konieczka, DeVry
D. Kraska, Latham & Watkins
C.A. Marriott
J. Ross, LARWQCB
R. Sams, DTSC/Glendale

cc w/o enclosure:

D.L. Grasmick, FD/GTI
D.B. Hollywood
J. Kou, DTSC/Glendale
R.A. Padilla
P.A. Taylor
G.S. Taylor
D. Weingarten, DTSC/Berkeley

FLUOR DANIEL GTI

September 2, 1998

Ms. Jean Roberts
Raytheon Missile Systems Company
1151 East Hermans Road
Building 826
Tucson, AZ 85734

Re: **Additional Site Assessment Report, Vicinity of CM-10 and Buildings 265, 274, and 276, Former Raytheon Missile Systems Company Facility, 8433 Fallbrook, Canoga Park, California**

Dear Ms. Roberts:

The attached report summarizes the field observations and laboratory analytical results at the former Raytheon Missile Systems Company Facility, 8433 Fallbrook, Canoga Park, California. The data for this report was based on results from drilling three temporary monitoring wells and one fixed monitoring well in the vicinity of CM-10 and Buildings 265, 274, and 276.

The objectives of this additional site assessment were to determine areal extent of Freon 11 contamination in groundwater in the vicinity of Buildings 265, 274, and 276. These objectives were accomplished by collecting and analyzing groundwater samples from specific sampling locations, and collecting and analyzing soil samples from borings used to construct temporary and fixed wells.

This assessment should address issues raised by the California Environmental Protection Agency (CalEPA) and Department of Toxic Substances Control (DTSC) in their June 5, 1997 letter, with respect to the following SWMUs and AOCs:

SWMU #4	Parking Area between Buildings 274 and 276
SWMU #5	Cooling Unit at the northeast corner outside Building 274
AOC #3	Building 265
AOC #8	Building 274
AOC #9	Building 276

In the Corrective Action Plan Addendum (Groundwater Technology, Inc., 1994) issued for the former Hughes Missile Systems Company Facility, no remedial action was proposed for the CM-10 are of concern because Freon 11 concentrations were below the State Drinking Water Standard or Maximum Contaminant Level (MCL) for this constituent. Based on the findings of the current assessment and the observed continuing decline in Freon 11 concentrations over time, a course of action that consists of "Monitor Only" continues to be appropriate for the CM-10 area of concern. No additional subsurface soil or groundwater assessment activities are recommended at this time. Continued quarterly sampling and analysis of groundwater collected from MW-31 and CM-10 are recommended to confirm Freon 11 levels remain at or below State MCLs established for this compound. It is recommended that quarterly monitoring of these wells continue until samples from four consecutive quarters contain concentrations of Freon 11 less than State MCL and cleanup criteria of 150 μg/L.

If you should have any questions or comments on this Information, please feel free to contact either Dan Grasmick or Bob Davis at (805) 644-9811. Thank you.

Sincerely,
Fluor Daniel GTI, Inc.

Robert A. Davis, Jr., R.E.A.
Lead Geologist

Fluor Daniel GTI, Inc.

Daniel L. Grasmick, P.E.
Project Manager

cc: Walter Kauz, RMSC
file/chron

Attachment

- Surrogate spike recoveries in EPA Method 8240/8260 analyses were within acceptable ranges in all soil and groundwater samples.

- Matrix spike and matrix spike duplicate recoveries in EPA Method 8260 were within acceptable ranges.

4.0 SUMMARY

Sampling and analysis activities for the CM-10 area of concern have been implemented in accordance with the April 1998 work plan prepared for this assessment activity. Activities described in the work plan have been completed. Introductory, historical, and background information are provided in Section 1.0 of this report. Field observations and laboratory analytical results are summarized in Section 2.0 of this report. QA/QC procedures implemented during this site assessment are reviewed in Section 3.0 of this report. A summary of findings of these assessment activities is presented below.

- Geologic materials encountered during subsurface drilling consisted of unconsolidated fill, interbedded siltstone, shale, clayey siltstone, and clayey shale, with some interbedded diatomaceous shale.

- The depths to water in temporary groundwater wells WP-265-1, WP-276-1, and WP-DEV-1 were 44, 44.5, and 35.8 feet, respectively. The depth to water in fixed groundwater monitoring well MW-31 was 48.3 feet. Depths to groundwater are generally consistent with data of previous site assessments and ongoing groundwater monitoring and compliance sampling and analyses.

- A trace concentration of trichlorofluoromethane (Freon 11) was encountered in one soil sample collected from soil boring location WP-276-1, at 50 feet below grade surface. However, Freon 11 was not detected in a duplicate soil sample collected at the same location and depth. No other VOCs were detected in any of the soil samples submitted for chemical analyses using EPA Method 8260.

- Freon 11 was not detected above method detection limits in groundwater samples collected from temporary wells WP-265-1 and WP-276-1. These wells were positioned near Buildings 265 and 276, respectively, and near subsurface utilities (subsurface electrical conduit lines and a sewer main, respectively).

- Freon 11 was detected in groundwater samples collected from the temporary well WP-DEV-1, and fixed groundwater monitoring well MW-31 (23 μg/L and 150 μg/L, respectively). No other VOC constituents were detected. The primary maximum contaminant level (MCL) for Freon 11 is 150 μg/L (as promulgated in California's Safe Drinking Water Standard, Title 22 of California Code of Regulations [CCR], Division 4, Chapter 15). Based on concentrations of Freon 11 in WP-DEV-1 and

MW-31, and ongoing analytical data collected from groundwater monitoring well CM-10, Freon 11 concentrations in groundwater underlying the CM-10 area of concern are at, or below, the State MCL.

Based upon the findings of this and previous site assessment activities (ENSR, 1991; Groundwater Technology Inc., 1995 and 1995a; McLaren Hart 1989), the lateral extent of potential impacts to groundwater underlying the CM-10 area of concern has been defined. Installation of a groundwater monitoring well at what is believed to be the sole source area of Freon 11 impacts to groundwater shows groundwater concentrations at the State MCL for this constituent. Further, groundwater quality data collected from temporary wells indicate that Buildings 265 and 276 are not source areas contributing to Freon 11 impacts to groundwater. Finally, downgradient concentrations of Freon 11 in CM-10 and temporary well WP-DEV-1 are below the State MCL for Freon 11.

5.0 RECOMMENDATIONS

In the Corrective Action Plan Addendum (Groundwater Technology, Inc., 1994) issued for the former Hughes Missile Systems Company Facility, no remedial action was proposed for the CM-10 are of concern because Freon 11 concentrations were below the State Drinking Water Standard or Maximum Contaminant Level (MCL) for this constituent. Based on the findings of the current assessment and the observed continuing decline in Freon 11 concentrations over time, a course of action that consists of "Monitor Only" continues to be appropriate for the CM-10 area of concern. No additional subsurface soil or groundwater assessment activities are recommended at this time. Continued quarterly sampling and analysis of groundwater collected from MW-31 and CM-10 are recommended to confirm Freon 11 levels remain at or below State MCLs established for this compound. It is recommended that quarterly monitoring of these wells continue until samples from four consecutive quarters contain concentrations of Freon 11 less than State MCL and cleanup criteria of 150 μg/L.

Raytheon

Raytheon Systems Company
PO Box 11337
Tucson, AZ 85734-1337
520 794 3000

In Reply Refer To:
8100/IJR/8395

5 October 1998

CERTIFIED MAIL
P 245 371 582

Mr. Phil Blum, Project Manager
Southern California Permitting Branch
California Department of Toxic Substances Control
1011 N. Grandview Avenue
Glendale, California 91201

RE: Summary Report of Supplemental Sampling and Analysis Performed at the Locations of Former Buildings 269, and 272, 282; Raytheon Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California; EPA ID CAD 041-162-124

Dear Mr. Blum:

Enclosed please find a copy of the referenced report, summarizing recent sampling efforts conducted at Raytheon's former Canoga Park facility. RMSC's consultant, Fluor Daniel GTI (FD/GTI), performed the assessment and prepared the enclosed report. The report bears the stamp of a California registered professional engineer.

FD/GTI concludes that concentrations of metals were not detected in soil samples at levels that indicate the need for further action. Further, VOC-impacted soil and groundwater occurs in an area where metal working, finishing, and cleaning operations were known to have occurred within the former Building 269. The lateral extent of the contamination to the east and south has been defined, and the ongoing remediation is adequately addressing the impacted groundwater in those areas. FD/GTI recommends additional sampling to establish the western extent, and a workplan for that effort will be submitted to DTSC in the near future. The contamination in the western area of the former building is being adequately contained by the ongoing remediation. FD/GTI also recommends augmentation of the existing treatment system in order to expedite cleanup. RMSC submitted a plan ("Plan for Modification of Remediation Systems, former Hughes Missile Systems Company Facility", 16 September 1998; copy to DTSC) to the LARWQCB describing proposed system modifications.

In addition to the sampling performed by Raytheon, sampling in the area of the former Building 269 was previously performed by Regent Properties, current owner of the property where the building was formerly located. A copy of their report, titled "Environmental Sampling and Testing Under Floor Slabs and Clarifiers, former Hughes Missile Systems Company", 27 June 1997, was submitted to DTSC on 11 March 1998. The sampling was conducted by Allwest Geosciences in the area beneath the former solvent tank, and in the area of the clarifiers (Pits 1 & 2) at the southeastern corner of the

former building. The Allwest report concluded that "there have been no environmental impacts from VOCs or metals to subsurface soil directly under the concrete floor slabs or adjacent to the clarifiers due to leaks or migration of contaminants through the concrete slabs". Another copy of the Allwest report is enclosed for your convenience.

The assessment in the Building 269/272/282 area, along with the Allwest report, addresses DTSC's concerns expressed in their 5 June 1997 letter regarding the SWMUs and AOCs listed below. Therefore, Raytheon is requesting that DTSC remove the following SWMUs and AOCs from their list:

SWMU No. 1	Building 272
SWMU No. 2	Building 282
SWMU No. 3	Building 269, Pits 1 & 2
AOC No. 13	Tank T-14

With the submittal of the enclosed report, Raytheon has completed several significant investigations at the site. We are anxious to proceed with remaining activities, if any, to satisfy DTSC's concerns and complete site closeout. However, before further plans can be made, we need DTSC's response on two key issues:

1) a revised list of SWMUs and AOCs, which was promised by Phil Chandler at our 17 February meeting. Additional data supporting our request to remove other SWMUs and AOCs from DTSC's list was submitted on 17 February and 8 September.

2) DTSC's final decision regarding post-closure for former Tank T-3. This issue is extremely critical to completion of site close-out. We have thoroughly presented our position regarding the issue on several occasions, and cannot proceed with plans for site close-out until it is resolved.

We would be glad to meet with you to review the recent sampling and assessment activities and our plans for augmenting the remediation system. I will be out of the office until 19 October 1998, but will contact you upon my return to discuss a potential meeting.

Sincerely,

RAYTHEON MISSILE SYSTEMS COMPANY

I. Jean Roberts

I. Jean Roberts, Project Manager
Environmental, Health, & Safety

EXECUTIVE SUMMARY

The former Raytheon Missile Systems Company facility at 8433 Fallbrook Avenue in Canoga Park, California has been the site of environmental assessment work since 1984. A soil and groundwater remediation system has been operating since 1995 to address soil and groundwater containing volatile organic compounds (VOCs) in the northwest part of the property.

The site is currently being redeveloped. Redevelopment activities, specifically building demolition, have created access to obtain soil and groundwater samples from areas which were not completely accessible previously.

This report describes assessment activities and analytical results for an area previously occupied by Building Nos. 269, 272 and 282. These were described as SWMU Nos. 1, 2, 3, and AOC Nos. 5 and 13 in the June, 1997 letter from DTSC. Although this area lies within the area influenced by the currently-operating remediation system, it had been identified as an area of concern by the California Environmental Protection Agency, Department of Toxic Substances Control.

The work performed as part of this assessment included collection and chemical analysis of soil, soil gas, and groundwater samples. The sampling program was designed to determine whether former operations conducted in the subject buildings may have impacted soil and groundwater from releases of metal or VOC constituents.

With respect to concentrations of metals in soil, a total of 36 samples were collected from nine soil borings and analyzed for 14 metals. No samples contained concentrations greater than the Soluble Threshold Limit Concentration for any of the 14 metals. Two metals, silver and hexavalent chromium, were not detected in any of the 36 samples analyzed. Concentrations of other metals detected in certain samples were within ranges considered typical for natural soils in California.

Because significant concentrations of metals were not detected in soil samples, groundwater samples were not analyzed for concentrations of metals.

With respect to VOCs, concentrations of chlorinated hydrocarbons were detected in about half of the soil and soil vapor samples, and four of the five groundwater samples. Although concentrations of VOCs detected in groundwater samples were consistent with adjacent areas (and under influence of the currently-operating remediation system), certain soil samples contained concentrations of VOCs which may warrant further investigation and remedial efforts.

GROUNDWATER RESOURCES CONSULTANTS, INC.

TUCSON, ARIZONA

RESULTS OF RADIOLOGICAL SAMPLING OF MONITOR WELLS

DECEMBER 1991

HUGHES MISSILE SYSTEMS GROUP

CANOGA PARK FACILITY

CANOGA PARK, CALIFORNIA

March 27, 1992
91600M-06

GROUNDWATER RESOURCES CONSULTANTS, INC.

CONSULTING HYDROGEOLOGISTS • ENVIRONMENTAL SPECIALISTS

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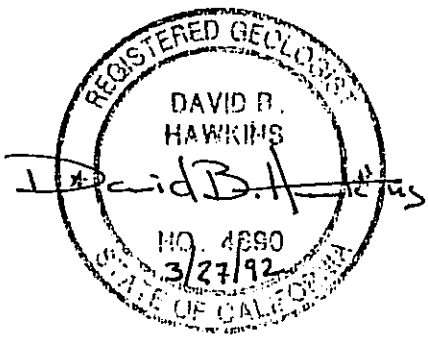
RESULTS OF RADIOLOGICAL SAMPLING OF MONITOR WELLS

DECEMBER 1991

HUGHES MISSILE SYSTEMS GROUP

CANOGA PARK FACILITY

CANOGA PARK, CALIFORNIA



March 27, 1992
91600M-06

RESULTS OF RADIOLOGICAL SAMPLING OF MONITOR WELLS
DECEMBER 1991
HUGHES MISSILE SYSTEMS GROUP
CANOGA PARK FACILITY
CANOGA PARK, CALIFORNIA

CONTENTS

INTRODUCTION 1

ANALYTICAL RESULTS 3

GROSS ALPHA RESULTS 3
URANIUM ISOTOPES 4
RADIUM 226 5
GROSS BETA AND RADIUM-228 5

SUMMARY AND RECOMMENDATIONS 7

REFERENCES 9

TABLES

TABLE	
1	DETECTION LIMITS
2	EPA PROPOSED MAXIMUM CONTAMINANT LEVELS
3	SUMMARY OF ALPHA EMITTERS AND ADJUSTED GROSS ALPHA LEVELS
4	SUMMARY OF URANIUM ISOTOPES
5	CALCULATION OF ACTIVITY/MASS EQUIVALENTS
6	SUMMARY OF BETA EMITTERS

ILLUSTRATION

FIGURE	
1	LOCATION OF MONITOR WELLS

APPENDIX

A	LABORATORY RESULTS

RESULTS OF RADIOLOGICAL SAMPLING OF MONITOR WELLS

DECEMBER 1991

HUGHES MISSILE SYSTEMS GROUP

CANOGA PARK FACILITY

CANOGA PARK, CALIFORNIA

INTRODUCTION

This report presents the results of radiological analyses of groundwater samples collected from monitor wells at the Hughes Missile Systems Group Facility at 8433 Fallbrook Avenue in Canoga Park, California. The groundwater samples were collected from 27 monitor wells on December 10 through 13, 1991. The samples were collected according to the sampling protocol described in the December 1991 workplan (Groundwater Resources Consultants, Inc., 1991a). According to contractual arrangements, the samples were analyzed for Gross Alpha, Gross Beta, isotopic uranium, and radium- 226/radium 228 if Gross Alpha for the sample exceeded five (5) pico curies per liter (pCi/l). Final analytical results were received by this office on March 11, 1992.

The samples were analyzed by IT Analytical Services of Richland Washington, an EPA certified laboratory. The detection limits for the radiological constituents are listed in Table 1. The laboratory results are included as Appendix A.

The proposed EPA Maximum Contaminant Levels (MCLs) for radiological constituents in community and all non-transient, non-community public water systems are summarized in Table 2 (Federal Register, Vol. 56, No. 138, pp. 33050 - 33127, July 18, 1991).

ANALYTICAL RESULTS

GROSS ALPHA RESULTS

Gross Alpha screening is considered to be an indicator of naturally occurring radiological constituents (Federal Register, Vol. 56, No. 138, pp. 33050 - 33127, July 18, 1991). The primary constituents that make up the naturally occurring Alpha emitters are uranium, radium-226, and radon-222. The groundwater samples from the monitor wells were analyzed for both uranium isotopes and radium-226. No samples were analyzed for the volatile gas radon-222 because of the impracticality of sample collection and analysis and because radon is a naturally occurring constituent that could be of interest from a regional standpoint but would not be specific to the Facility and would not have resulted from industrial activities at the Facility.

The proposed EPA Adjusted Gross Alpha MCL of 15 pico-Curies per liter (pCi/l) involves the subtraction of the activity of uranium isotopes, radium-226, and radon-222. The EPA has developed separate MCLs for the common alpha-contributing isotopes (Table 2). Even without the subtraction of radon-222, none of the samples exceeded the Adjusted Gross Alpha MCL of 15 pCi/l (Table 3). The most elevated observed value for adjusted Gross Alpha was 3.8 pCi/l, in the sample from CM-6D.

URANIUM ISOTOPES

The groundwater samples were analyzed for individual uranium isotopes, uranium-234, uranium-235, and uranium-238. The results of the uranium isotope analyses are summarized in **Table 4** in both mass and activity units. Laboratory results were given in terms of activity units. The equation used for the conversion to mass units is illustrated in **Table 5.**

Samples from three wells, CM-8D, CM-10, and CM-18, exceeded the EPA activity level MCL for uranium (30 pCi/l). The EPA MCLs were developed for community water supplies. Community water supplies would commonly have total dissolved solids concentrations (TDS) concentrations of 500 milligrams per liter (mg/l) or less. Elevated uranium levels are attributed to the fact that groundwater at the Facility has elevated natural background TDS ranging up to 2,600 mg/l resulting in proportional elevation in uranium salts concentration.

The EPA defines naturally occurring uranium as (Federal Register, Vol. 56, No. 138, pp. 33050 - 33127, July 18, 1991):

> ...uranium with combined uranium-234 plus uranium-235 plus uranium-238 which has a varying isotopic composition but typically is 0.006% uranium-234, 0.7% uranium-235, and 99.27% uranium-238.

For the groundwater samples in which all three isotopes of uranium were detected above the laboratory detection limit, the associated isotopic mass

percentages fall within the range expected for naturally occurring uranium (Table 4).

This data does not indicate any enrichment of uranium-235 which could be associated with man-made fuels and there would be no reason on the basis of these data to suspect any non-natural alpha emitters.

RADIUM 226

Radium-226 is a naturally occurring alpha emitter. The proposed EPA MCL for radium-226 is 20 pCi/l. The results of the radium-226 analyses are summarized in Table 3. Samples were analyzed for Radium-226 if Gross Alpha exceeded 5 pCi/l. All results were reported to be less than the MCL. The results ranged from less than the detection limit for most samples to 11.3 pCi/l for the sample from MW-21D.

GROSS BETA AND RADIUM-228

The Gross Beta emitter analysis is generally considered to be an indicator of the presence of man-made radionuclides, although there is at least one common naturally-occurring beta emitter, radium-228. Samples were analyzed for radium-228 if Gross Alpha exceeded 5 pCi/l. The Gross Beta and radium-228 analyses are summarized in Table 6. The EPA compliance screening level for Gross Beta is 50 pCi/l and the proposed MCL for radium-228 is 20 pCi/l. All Beta results were below the compliance screening level and ranged from less than the detection limit to 33.7 pCi/l in a sample from CM-

18. All radium-228 results were below the MCL and ranged from below the detection limit to 1.84 pCi/l in a sample from MW-16.

These results do not give any indication of the presence of man-made radionuclides.

SUMMARY AND RECOMMENDATIONS

These analytical results of groundwater samples from monitor wells at the Facility indicate the following:

1. All Adjusted Gross Alpha results were below the proposed EPA MCL of 15 pCi/l.

2. Several samples had uranium concentrations that exceeded the proposed MCLs for uranium. This is attributed to the fact that the groundwater at the Facility commonly has natural background TDS concentrations of from three to five times the Secondary Drinking water standard of 500 mg/l resulting in proportional increase in uranium salts concentrations. An analysis of the isotopic mass percentages of the samples with elevated uranium levels indicates that the percentages conform to the EPA definition of naturally occurring uranium.

3. All radium-226 results were below the proposed EPA MCl of 20 pCi/l.

4. All Gross Beta results were below the compliance screening level of 50 pCi/l. This would indicate that there are no man-made radionuclides present.

5. All radium-228 results were below the proposed EPA MCL of 20 pCi/l.

Because no man-made radionuclides are indicated by the data from this investigation, no additional radionuclide sampling is warranted.

REFERENCES

Federal Register, 1991. Notice of proposed rule making, ***National Primary Drinking Water Regulations: Radionuclides***, Vol. 56, No. 138, pp. 33050-33127, July 18, 1991.

Groundwater Resources Consultants, Inc., 1991. ***Work Plan for Investigation of Radioactivity in Groundwater at the Hughes Aircraft Company, Canoga Park Facility, Canoga Park, California.***

Friedlander, G., J. W. Kennedy, and J. M. Miller, 1981. ***Nuclear and Radiochemistry***, 3rd Edition, John Wiley and Sons: New York.

TABLE 2

EPA PROPOSED MAXIMUM CONTAMINANT LEVELS[1/]

	MCL	REMARKS
1. Adjusted gross alpha emiters	15 pCi/l	Gross alpha minus emission of uranium, radium-226, and radon-222
2. Beta and photon emitters[2/]	4 mrem ede/yr	Beta and photon emitters minus radium-228. Mrem ede/yr refers to the dose committed over a period of 50 years to reference man with an annual intake of two liters of drinking water per day.
3. Uranium	20 µg/l (30 pCi/l)	Mass concentration (activity level); Includes uranium-234, uranium-235, uranium-238.
4. Radium-226	20 pCi/l	
5. Radium-228	20 pCi/l	
6. Radon-222	300 pCi/l	

(µg/l) = micrograms per liter
(pCi/l) = picocuries per liter

1/ Proposed regulations published in Federal Register, Vol. 56, No. 138, July 18, 1991. The proposed regulations would apply to all community and non-transient, non-community public water systems.

2/ The screening level for compliance with the MCL for Gross Beta level is 50 pCi/l.

TABLE 3 (continued)
SUMMARY OF ALPHA EMITTERS
AND ADJUSTED GROSS ALPHA LEVELS

COLUMN NO.	1	2	3	4	5	6	ADJUSTED[2] GROSS ALPHA (pCi/l)
WELL IDENTIFIER	GROSS ALPHA (pCi/l)	URANIUM 234 (pCi/l)	URANIUM 235 (pCi/l)	URANIUM 238 (pCi/l)	RADIUM 226 (pCi/l)	SUM OF 2, 3, 4, & 5[1] (pCi/l)	
M-1	7.7	5.1	0.2	5.4	1.2	11.9	-4.2
MW-15	<4.0	<0.1	<0.1	<0.1	---	---	<4.0
MW-16	9.0	1.5	<0.1	1.1	4.8	7.4	1.6
MW-17	12.4	9.5	0.4	9.6	<0.5	19.5	-7.1
MW-19S	16.0	10.3	0.3	8.6	<0.5	19.2	-3.2
MW-19D	<4.0	0.4	<0.1	0.2	---	0.6	<4.0
MW-20S	<4.0[3]	<0.1	<0.1	<0.1	---	---	<4.0
MW-20D	<4.0	0.2	<0.1	0.2	---	0.4	<4.0
MW-21S	7.3	7.3	0.2	7.0	<0.5	14.5	-7.2
MW-21D	7.4	0.3	<0.1	0.3	11.3	11.9	-4.5
MW-22S	2.3	1.7	<0.1	1.6	---	3.3	-1.0
MW-22D	4.5	3.0	0.1	2.8	---	5.9	-1.4
MW-23	5.3	5.7	0.2	5.3	<0.5	11.2	-5.9
CM-4D	<4.0	5.1	0.2	4.8	---	10.1	<4.0
CM-6D	4.5	0.4	<0.1	0.3	---	0.7	3.8
CM-7	<4.0	0.5	<0.1	0.4	---	0.9	<4.0
CM-8D	50.1	25.1	1.0	23.7	0.9	50.7	-0.6
CM-9D	NA	NA	NA	NA	NA	---	---
CM-10	48.9	25.8	1.0	26.5	<0.5	53.3	-4.4
CM-11	<4.0	3.5	0.1	3.3	---	6.9	<4.0
CM-12	25.7	13.6	0.7	12.7	<0.5	27.0	-1.3
CM-13	11.5	4.4	0.2	4.0	1.5	10.1	1.4
CM-14	6.3	2.4	<0.1	2.0	<0.5	4.4	1.9
CM-15	3.7	2.5	<0.1	1.4	---	3.9	-0.2
CM-16	1.7	3.9	<0.1	2.3	---	6.2	-4.5
CM-17	13.0	13.4	0.4	12.6	<0.5	26.4	-13.4
CM-18	59.2	46.5	2.0	43.9	1.0	92.4	-33.2

TABLE 3 (continued)
SUMMARY OF ALPHA EMITTERS
AND ADJUSTED GROSS ALPHA LEVELS

COLUMN NO.	1	2	3	4	5	6	ADJUSTED[2/] GROSS ALPHA (pCi/l)
WELL IDENTIFIER	GROSS ALPHA (pCi/l)	URANIUM 234 (pCi/l)	URANIUM 235 (pCi/l)	URANIUM 238 (pCi/l)	RADIUM 226 (pCi/l)	SUM OF 2, 3, 4, & 5[1/] (pCi/l)	
CM-19	5.2	5.8	0.1	4.3	<0.5	10.2	-5.0

NOTES: [1/] Column 5 not included if Radium-226 not analyzed. Radium-226 not analyzed if gross alpha did not exceed 5 pCi/l (Col. 5 = ---).

[2/] Adjusted gross alpha = Col. 1 - Col. 6. There were no analyses for Radon 222.

[3/] Background count was higher than sample count.

NA = Not accessible, not sampled

TABLE 4 (continued)
SUMMARY OF URANIUM ISOTOPES

WELL ID	U-234		U-235		U-238		TOTAL		MASS PERCENT		
	ACTIVITY pCi/l	MASS µg/l	ACTIVITY pCi/l	MASS µg/l	ACTIVITY pCi/l	MASS µg/l	ACTIVITY pCi/l	MASS µg/l	U-234 %	U-235 %	U-238 %
M-1	5.09	0.00081	0.23	0.106	5.40	16.04	10.72	16.145	0.005	0.660	99.335
MW-15	<0.10	---	<0.10	---	<0.10	---	---	---	---	---	---
MW-16	1.46	0.00023	<0.10	---	1.14	3.39	2.60	3.386	---	---	---
MW-17	9.51	0.00152	0.36	0.167	9.58	28.45	19.45	28.621	0.005	0.582	99.412
MW-19S	10.30	0.00165	0.30	0.139	8.63	25.63	19.23	25.772	0.006	0.539	99.455
MW-19D	0.39	0.00006	<0.10	---	0.23	0.68	0.62	0.683	---	---	---
MW-20S	<0.10	---	<0.10	---	<0.10	---	---	---	---	---	---
MW-20D	0.22	0.00004	<0.10	---	0.15	0.45	0.37	0.446	---	---	---
MW-21S	7.34	0.00117	0.24	0.111	6.98	20.73	14.56	20.843	0.006	0.533	99.461
MW-21D	0.33	0.00005	<0.10	---	0.30	0.89	0.63	0.891	---	---	---
MW-22S	1.71	0.00027	<0.10	---	1.63	4.84	3.34	4.841	---	---	---
MW-22D	3.00	0.00048	0.10	0.046	2.80	8.32	5.90	8.363	0.006	0.554	99.441
MW-23	5.67	0.00091	0.22	0.102	5.33	15.83	11.22	15.933	0.006	0.639	99.355
CM-4D	5.05	0.00081	0.15	0.069	4.79	14.23	9.99	14.297	0.006	0.486	99.509
CM-6D	0.41	0.00007	<0.10	---	0.33	0.98	0.74	0.980	---	---	---
CM-7	0.46	0.00007	<0.10	---	0.41	1.22	0.87	1.218	---	---	---
CM-8D	25.10	0.00402	0.99	0.458	23.70	70.39	49.79	70.851	0.006	0.647	99.347
CM-9D	NA	---	NA	---	NA	---	---	---	---	---	---
CM-10	25.80	0.00413	1.03	0.477	26.50	78.71	53.33	79.186	0.005	0.602	99.393

TABLE 4 (continued)
SUMMARY OF URANIUM ISOTOPES

WELL ID	U-234		U-235		U-238		TOTAL		MASS PERCENT		
	ACTIVITY pCi/l	MASS µg/l	ACTIVITY pCi/l	MASS µg/l	ACTIVITY pCi/l	MASS µg/l	ACTIVITY pCi/l	MASS µg/l	U-234 %	U-235 %	U-238 %
CM-11	3.54	0.00057	0.13	0.060	3.27	9.71	6.94	9.773	0.006	0.616	99.378
CM-12	13.60	0.00218	0.68	0.315	12.70	37.72	26.98	38.036	0.006	0.828	99.167
CM-13	4.43	0.00071	0.18	0.083	3.97	11.79	8.58	11.875	0.006	0.702	99.292
CM-14	2.42	0.00039	<0.10	---	1.97	5.85	4.39	5.851	---	---	---
CM-15	2.52	0.00040	<0.10	---	1.39	4.13	3.91	4.129	---	---	---
CM-16	3.86	0.00062	<0.10	---	2.34	6.95	6.20	6.950	---	---	---
CM-17	13.40	0.00214	0.43	0.199	12.60	37.42	26.43	37.623	0.006	0.529	99.465
CM-18	46.50	0.00744	2.03	0.940	43.90	130.38	92.43	131.330	0.006	0.716	99.279
CM-19	5.83	0.00093	0.13	0.060	4.31	12.80	10.27	12.862	0.007	0.468	99.525

NA = Not accessible, not sampled
--- = Mass concentration and mass percentages not calculated for samples with isotopes below detection limits.

TABLE 6
(continued)
SUMMARY OF BETA EMITTERS

WELL IDENTIFIER	GROSS BETA pCi/l[1/]	RADIUM 228 pCi/l[2/]
M-1	6.23	<1.0
MW-15	<4.00	---
MW-16	8.53	1.84
MW-17	8.46	<1.0
MW-19S	10.9	<1.0
MW-19D	10.7	---
MW-20S	4.58	---
MW-20D	4.93	---
MW-21S	5.35	<1.0
MW-21D	12.2	1.62
MW-22S	<4.00	---
MW-22D	4.96	---
MW-23	8.08	<1.0
CM-4D	5.36	---
CM-6D	5.20	---
CM-7	10.6	---
CM-8D	12.9	<1.0
CM-9D	NA	NA
CM-10	24.6	<1.0
CM-11	7.08	---
CM-12	11.2	<1.0
CM-13	<4.00	<1.0
CM-14	<4.00	<1.0
CM-15	8.49	---
CM-16	12.6	---
CM-17	13.1	<1.0
CM-18	33.7	<1.0

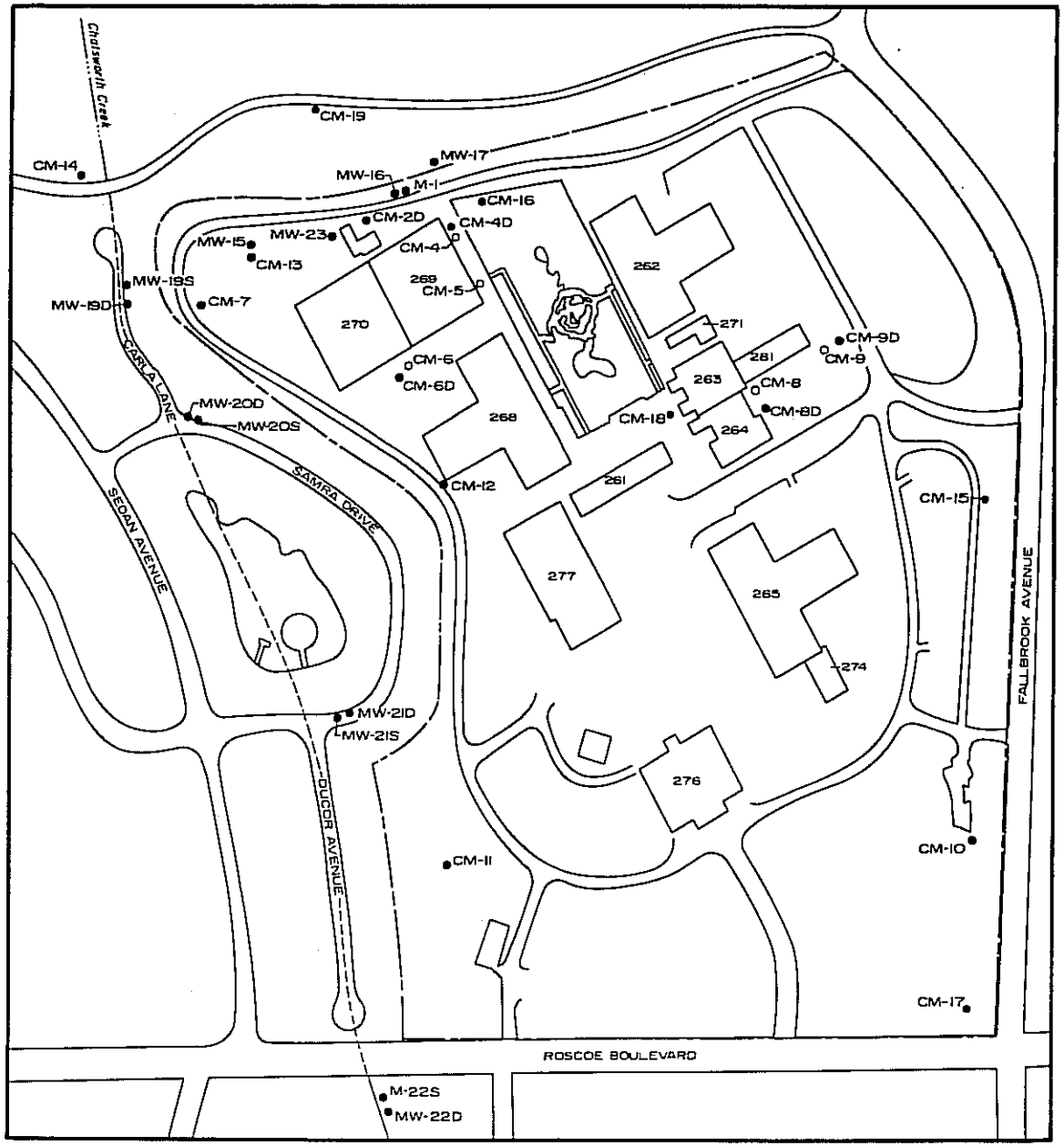
TABLE 6
(continued)
SUMMARY OF BETA EMITTERS

WELL IDENTIFIER	GROSS BETA pCi/l [1/]	RADIUM 228 pCi/l [2/]
CM-19	7.42	<1.0

1/ Gross Beta MCL compliance level is 50 pCi/l

2/ The EPA proposed MCL for Radium-228 is 20 pCi/l

--- The Radium 228 analysis is not performed if Gross Alpha did not exceed 5 pCi/l



EXPLANATION

- FACILITY BOUNDARY
- ● MONITOR WELL
- o DRY MONITOR WELL

N

0 300 600

SCALE IN FT.

HUGHES AIRCRAFT COMPANY
MISSLE SYSTEMS GROUP
CANOGA PARK, CALIFORNIA

LOCATIONS OF MONITOR WELLS

GROUNDWATER RESOURCES CONSULTANTS, INC.
CONSULTANTS IN HYDROGEOLOGY
TUCSON, ARIZONA 91600M-04 FIGURE 1

HUGHES MISSILE SYSTEM COMPANY
CANOGA PARK

SUMMARY DATA

FEBRUARY 6, 1998

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
CM-10	Mar-90	Gross Alpha	236	62.1	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-11	Mar-90	Gross Alpha	6.12	6.63	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-12	Mar-90	Gross Alpha	29.7	13.2	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-13	Mar-90	Gross Alpha	56.50	15.5	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-14	Mar-90	Gross Alpha	13	8.64	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-5	Mar-90	Gross Alpha	3.35	2.7	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-7	Mar-90	Gross Alpha	11	9.31	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
M-1	Mar-90	Gross Alpha	11.8	5.68	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-10	Mar-90	Gross Beta	59.6	17	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-11	Mar-90	Gross Beta	7.13	4.22	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-12	Mar-90	Gross Beta	14.6	5.13	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-13	Mar-90	Gross Beta	18.60	6.18	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-14	Mar-90	Gross Beta	6.92	4.44	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-5	Mar-90	Gross Beta	3.51	2.41	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-7	Mar-90	Gross Beta	3.53	4.63	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
M-1	Mar-90	Gross Beta	5.56	3.09	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-10	Mar-90	Radium 226	1.03	0.239	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-11	Mar-90	Radium 226	0.984	0.234	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-12	Mar-90	Radium 226	0.9	0.228	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-13	Mar-90	Radium 226	7.71	1.37	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-14	Mar-90	Radium 226	1.1	0.25	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-5	Mar-90	Radium 226	0.514	0.143	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-7	Mar-90	Radium 226	0.0264	0.0775	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
M-1	Mar-90	Radium 226	1.14	2.54	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-10	Mar-90	Total Uranium	176.44	49.69	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-11	Mar-90	Total Uranium	8.11	2.38	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-12	Mar-90	Total Uranium	25.1	7.23	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-13	Mar-90	Total Uranium	14.94	5.08	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-14	Mar-90	Total Uranium	4.62	1.43	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-5	Mar-90	Total Uranium	5.15	1.54	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-7	Mar-90	Total Uranium	3.61	1.84	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
M-1	Mar-90	Total Uranium	10.75	3.08	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-10	Apr-90	Gross Alpha	73.7	27.3	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-10	Apr-90	Gross Beta	14.3	3.59	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-10	Apr-90	Radium 226	NA	NA	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-10	Apr-90	Total Uranium	41.91	12.17	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-10	Jun-90	Gross Alpha	52.5	22.7	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-11	Jun-90	Gross Alpha	5.93	6.38	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-12	Jun-90	Gross Alpha	24.0	12.5	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-13	Jun-90	Gross Alpha	6.90	4.89	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-14	Jun-90	Gross Alpha	12.4	8.01	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-5	Jun-90	Gross Alpha	–	–	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-7	Jun-90	Gross Alpha	1.05	5.32	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
M-1	Jun-90	Gross Alpha	16.9	7.23	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-10	Jun-90	Gross Beta	11.4	5.82	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-11	Jun-90	Gross Beta	2.38	3.68	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-12	Jun-90	Gross Beta	4.7	3.91	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-13	Jun-90	Gross Beta	1.51	1.74	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-14	Jun-90	Gross Beta	3.26	3.34	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-5	Jun-90	Gross Beta	--	--	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-7	Jun-90	Gross Beta	2.04	3.11	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
M-1	Jun-90	Gross Beta	5.74	2.56	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-10	Jun-90	Radium 226	0.203	0.103	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-11	Jun-90	Radium 226	0.0838	0.084	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-12	Jun-90	Radium 226	0.7	0.181	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-13	Jun-90	Radium 226	1.18	0.263	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-14	Jun-90	Radium 226	0.0486	0.0743	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-5	Jun-90	Radium 226	--	--	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-7	Jun-90	Radium 226	0.158	0.091	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
M-1	Jun-90	Radium 226	1.06	0.242	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-10	Jun-90	Radium 228	--	--	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-11	Jun-90	Radium 228	--	--	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-12	Jun-90	Radium 228	--	--	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-13	Jun-90	Radium 228	0.790	0.474	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-14	Jun-90	Radium 228	--	--	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-5	Jun-90	Radium 228	--	--	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-7	Jun-90	Radium 228	--	--	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
M-1	Jun-90	Radium 228	--	--	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-10	Jun-90	Total Uranium	40.4	11.56	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-11	Jun-90	Total Uranium	6.17	1.83	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-12	Jun-90	Total Uranium	19.5	5.54	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-13	Jun-90	Total Uranium	6.96	2.04	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-14	Jun-90	Total Uranium	4.52	1.40	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-5	Jun-90	Total Uranium	--	--	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-7	Jun-90	Total Uranium	5.00	1.52	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
M-1	Jun-90	Total Uranium	8.72	2.49	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-10	Sep-90	Gross Alpha	54	42	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-11	Sep-90	Gross Alpha	3	18	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-12	Sep-90	Gross Alpha	27	21	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-13	Sep-90	Gross Alpha	10	15	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-14	Sep-90	Gross Alpha	24	29	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-2D	Sep-90	Gross Alpha	NA		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-4D	Sep-90	Gross Alpha	7	12	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-5	Sep-90	Gross Alpha	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-6D	Sep-90	Gross Alpha	5	19	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-7	Sep-90	Gross Alpha	7	19	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
CM-8D	Sep-90	Gross Alpha	17	22	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-9D	Sep-90	Gross Alpha	28	17	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
M-1	Sep-90	Gross Alpha	16	16	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-15	Sep-90	Gross Alpha	-7	23	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-16	Sep-90	Gross Alpha	5	30	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-17	Sep-90	Gross Alpha	15	9	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19D	Sep-90	Gross Alpha	-6	14	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19S	Sep-90	Gross Alpha	NA		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20D	Sep-90	Gross Alpha	0	24	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20S	Sep-90	Gross Alpha	-10	18	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21D	Sep-90	Gross Alpha	2	20	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21S	Sep-90	Gross Alpha	41	24	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22D	Sep-90	Gross Alpha	8	7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22S	Sep-90	Gross Alpha	3	5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-10	Sep-90	Gross Beta	36	16	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-11	Sep-90	Gross Beta	12	13	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-12	Sep-90	Gross Beta	9	12	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-13	Sep-90	Gross Beta	7	6	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-14	Sep-90	Gross Beta	-2	10	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-2D	Sep-90	Gross Beta	NA		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-4D	Sep-90	Gross Beta	5	9	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-5	Sep-90	Gross Beta	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-6D	Sep-90	Gross Beta	16	14	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-7	Sep-90	Gross Beta	-3	13	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-8D	Sep-90	Gross Beta	15	16	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-9D	Sep-90	Gross Beta	14	10	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
M-1	Sep-90	Gross Beta	11	6	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-15	Sep-90	Gross Beta	6	19	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-16	Sep-90	Gross Beta	15	15	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-17	Sep-90	Gross Beta	12	5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19D	Sep-90	Gross Beta	17	12	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19S	Sep-90	Gross Beta	NA		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20D	Sep-90	Gross Beta	25	18	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20S	Sep-90	Gross Beta	11	16	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21D	Sep-90	Gross Beta	13	14	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21S	Sep-90	Gross Beta	18	13	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22D	Sep-90	Gross Beta	5	5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22S	Sep-90	Gross Beta	1	3	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-10	Sep-90	Radium 226	0.3	0.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-11	Sep-90	Radium 226	0.1	0.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-12	Sep-90	Radium 226	0.4	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-13	Sep-90	Radium 226	-0.1	0.3	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-14	Sep-90	Radium 226	0.5	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
CM-2D	Sep-90	Radium 226	NA		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-4D	Sep-90	Radium 226	0.3	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-5	Sep-90	Radium 226	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-6D	Sep-90	Radium 226	1	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-7	Sep-90	Radium 226	0.2	0.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-8D	Sep-90	Radium 226	1.3	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-9D	Sep-90	Radium 226	0.3	0.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
M-1	Sep-90	Radium 226	1.5	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-15	Sep-90	Radium 226	2.6	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-16	Sep-90	Radium 226	2.2	0.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-17	Sep-90	Radium 226	0.4	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19D	Sep-90	Radium 226	0.6	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19S	Sep-90	Radium 226	NA		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20D	Sep-90	Radium 226	0.4	0.6	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20S	Sep-90	Radium 226	0.4	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21D	Sep-90	Radium 226	0.6	0.6	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21S	Sep-90	Radium 226	0.2	0.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22D	Sep-90	Radium 226	0.2	0.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22S	Sep-90	Radium 226	0.2	0.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-10	Sep-90	Total Uranium	60.2	6	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-11	Sep-90	Total Uranium	9.5	0.95	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-12	Sep-90	Total Uranium	23	2.3	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-13	Sep-90	Total Uranium	9.5	0.95	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-14	Sep-90	Total Uranium	4.1	0.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-2D	Sep-90	Total Uranium	NA		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-4D	Sep-90	Total Uranium	10.2	1	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-5	Sep-90	Total Uranium	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-6D	Sep-90	Total Uranium	2	0.2	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-7	Sep-90	Total Uranium	15.6	1.6	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-8D	Sep-90	Total Uranium	36.6	3.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-9D	Sep-90	Total Uranium	19.6	2	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
M-1	Sep-90	Total Uranium	12.2	1.2	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-15	Sep-90	Total Uranium	9.5	0.95	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-16	Sep-90	Total Uranium	3.4	0.34	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-17	Sep-90	Total Uranium	19	1.9	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19D	Sep-90	Total Uranium	<0.7		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19S	Sep-90	Total Uranium	NA		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20D	Sep-90	Total Uranium	<0.7		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20S	Sep-90	Total Uranium	<0.7		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21D	Sep-90	Total Uranium	<0.7		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21S	Sep-90	Total Uranium	30.5	3	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22D	Sep-90	Total Uranium	6.8	0.68	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22S	Sep-90	Total Uranium	3.4	0.34	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
CM-10	Dec-90	Gross Alpha	21.00	22	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-11	Dec-90	Gross Alpha	-2	12	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-12	Dec-90	Gross Alpha	35	18	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-13	Dec-90	Gross Alpha	7.0	8	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-14	Dec-90	Gross Alpha	14	14	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-2D	Dec-90	Gross Alpha	NA	NA	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-4D	Dec-90	Gross Alpha	7	9	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-6D	Dec-90	Gross Alpha	10	16	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-7	Dec-90	Gross Alpha	13	20	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-8D	Dec-90	Gross Alpha	36	24	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-9D	Dec-90	Gross Alpha	23.0	17	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
M-1	Dec-90	Gross Alpha	11	10	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-15	Dec-90	Gross Alpha	15.00	8	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-16	Dec-90	Gross Alpha	5	15	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-17	Dec-90	Gross Alpha	17	9	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-19D	Dec-90	Gross Alpha	3	12	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-19S	Dec-90	Gross Alpha	12	22	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-20D	Dec-90	Gross Alpha	4	20	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-20S	Dec-90	Gross Alpha	4	19	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-21D	Dec-90	Gross Alpha	6	19	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-21S	Dec-90	Gross Alpha	4	16	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-22D	Dec-90	Gross Alpha	2	5	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-22S	Dec-90	Gross Alpha	3	4	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-10	Dec-90	Gross Beta	9.00	13	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-11	Dec-90	Gross Beta	10	10	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-12	Dec-90	Gross Beta	22	12	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-13	Dec-90	Gross Beta	13.0	6	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-14	Dec-90	Gross Beta	6	10	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-2D	Dec-90	Gross Beta	NA	NA	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-4D	Dec-90	Gross Beta	5	6	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-6D	Dec-90	Gross Beta	20	13	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-7	Dec-90	Gross Beta	15	14	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-8D	Dec-90	Gross Beta	25	15	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-9D	Dec-90	Gross Beta	13.0	11	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
M-1	Dec-90	Gross Beta	7	6	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-15	Dec-90	Gross Beta	2.00	4	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-16	Dec-90	Gross Beta	7	10	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-17	Dec-90	Gross Beta	7	5	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-19D	Dec-90	Gross Beta	8	10	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-19S	Dec-90	Gross Beta	13	16	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-20D	Dec-90	Gross Beta	16	15	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-20S	Dec-90	Gross Beta	5	14	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-21D	Dec-90	Gross Beta	11	14	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
MW-21S	Dec-90	Gross Beta	7	12	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-22D	Dec-90	Gross Beta	13	5	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-22S	Dec-90	Gross Beta	3	3	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-10	Dec-90	Radium 226	0.20	0.4	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-11	Dec-90	Radium 226	0.1	0.2	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-12	Dec-90	Radium 226	0.7	0.3	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-13	Dec-90	Radium 226	0.9	0.3	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-14	Dec-90	Radium 226	-0.1	0.2	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-2D	Dec-90	Radium 226	NA	NA	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-4D	Dec-90	Radium 226	0	0.3	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-6D	Dec-90	Radium 226	0.7	0.3	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-7	Dec-90	Radium 226	0.5	0.4	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-8D	Dec-90	Radium 226	1.1	0.4	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-9D	Dec-90	Radium 226	0.4	0.2	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
M-1	Dec-90	Radium 226	0.3	0.3	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-15	Dec-90	Radium 226	2.10	0.4	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-16	Dec-90	Radium 226	3.1	0.5	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-17	Dec-90	Radium 226	0.5	0.3	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-19D	Dec-90	Radium 226	0.0	0.2	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-19S	Dec-90	Radium 226	2.4	0.4	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-20D	Dec-90	Radium 226	2.1	0.5	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-20S	Dec-90	Radium 226	0.1	0.4	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-21D	Dec-90	Radium 226	1.5	0.4	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-21S	Dec-90	Radium 226	-0.2	0.3	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-22D	Dec-90	Radium 226	-0.2	0.2	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-22S	Dec-90	Radium 226	-0.1	0.2	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-10	Dec-90	Total Uranium	49.40	4.9	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-11	Dec-90	Total Uranium	10.2	1	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-12	Dec-90	Total Uranium	29.1	2.9	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-13	Dec-90	Total Uranium	8.8	0.9	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-14	Dec-90	Total Uranium	15.6	1.6	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-2D	Dec-90	Total Uranium	NA	NA	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-4D	Dec-90	Total Uranium	10.8	1.1	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-6D	Dec-90	Total Uranium	5.4	0.5	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-7	Dec-90	Total Uranium	37.2	3.7	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-8D	Dec-90	Total Uranium	44.7	4.5	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-9D	Dec-90	Total Uranium	34.5	3.5	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
M-1	Dec-90	Total Uranium	16.2	1.6	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-15	Dec-90	Total Uranium	16.90	1.7	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-16	Dec-90	Total Uranium	0.7	0.1	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-17	Dec-90	Total Uranium	<.7		pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-19D	Dec-90	Total Uranium	5.4	0.5	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-19S	Dec-90	Total Uranium	19	1.9	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
MW-20D	Dec-90	Total Uranium	<.7		pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-20S	Dec-90	Total Uranium	<.7		pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-21D	Dec-90	Total Uranium	<.7		pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-21S	Dec-90	Total Uranium	21.6	2.2	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-22D	Dec-90	Total Uranium	6.8	0.7	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-22S	Dec-90	Total Uranium	4.1	0.4	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-17	Jan-91	Gross Alpha	18	8	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-19D	Jan-91	Gross Alpha	12	14	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-19S	Jan-91	Gross Alpha	13	19	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20D	Jan-91	Gross Alpha	9	19	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20S	Jan-91	Gross Alpha	9	18	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21D	Jan-91	Gross Alpha	10	15	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21S	Jan-91	Gross Alpha	18	16	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22D	Jan-91	Gross Alpha	5	6	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22S	Jan-91	Gross Alpha	6	4	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-17	Jan-91	Gross Beta	12	5	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-19D	Jan-91	Gross Beta	9	11	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-19S	Jan-91	Gross Beta	3	14	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20D	Jan-91	Gross Beta	26	16	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20S	Jan-91	Gross Beta	7	14	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21D	Jan-91	Gross Beta	11	11	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21S	Jan-91	Gross Beta	3	11	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22D	Jan-91	Gross Beta	2	4	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22S	Jan-91	Gross Beta	0	3	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-17	Jan-91	Radium 226	1.0	0.5	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-19D	Jan-91	Radium 226	0.9	0.5	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-19S	Jan-91	Radium 226	0.2	0.4	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20D	Jan-91	Radium 226	8.5	0.8	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20S	Jan-91	Radium 226	1.0	0.5	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21D	Jan-91	Radium 226	3.4	0.6	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21S	Jan-91	Radium 226	0.1	0.4	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22D	Jan-91	Radium 226	0.3	0.4	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22S	Jan-91	Radium 226	0.4	0.4	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-17	Jan-91	Total Uranium	1.7	0.2	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-19D	Jan-91	Total Uranium	13.5	1.4	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-19S	Jan-91	Total Uranium	12.8	1.3	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20D	Jan-91	Total Uranium	<.7		pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20S	Jan-91	Total Uranium	2.7	0.3	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21D	Jan-91	Total Uranium	0.7		pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21S	Jan-91	Total Uranium	24.4	2.4	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22D	Jan-91	Total Uranium	8.1	0.8	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22S	Jan-91	Total Uranium	2.7	0.3	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-17	Feb-91	Gross Alpha	9	6	pCi/l	groundwater	McLaren Hart, 4/29/91	

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
MW-19D	Feb-91	Gross Alpha	-6	9	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-19S	Feb-91	Gross Alpha	12	25	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20D	Feb-91	Gross Alpha	28	20	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20S	Feb-91	Gross Alpha	-8	17	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21D	Feb-91	Gross Alpha	-2	21	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21S	Feb-91	Gross Alpha	25	16	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22D	Feb-91	Gross Alpha	9	6	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22S	Feb-91	Gross Alpha	8	5	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-17	Feb-91	Gross Beta	0	4	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-19D	Feb-91	Gross Beta	13	10	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-19S	Feb-91	Gross Beta	-3	21	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20D	Feb-91	Gross Beta	14	14	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20S	Feb-91	Gross Beta	0	17	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21D	Feb-91	Gross Beta	-2	20	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21S	Feb-91	Gross Beta	0	11	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22D	Feb-91	Gross Beta	4	4	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22S	Feb-91	Gross Beta	14	4	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-17	Feb-91	Radium 226	0.6	0.5	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-19D	Feb-91	Radium 226	0.6	0.5	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-19S	Feb-91	Radium 226	0.0	0.4	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20D	Feb-91	Radium 226	8.4	0.8	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20S	Feb-91	Radium 226	1.7	0.6	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21D	Feb-91	Radium 226	1.1	0.6	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21S	Feb-91	Radium 226	0.4	0.5	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22D	Feb-91	Radium 226	0.4	0.5	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22S	Feb-91	Radium 226	0.5	0.5	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-17	Feb-91	Total Uranium	16.2	1.6	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-19D	Feb-91	Total Uranium	0.7	0.07	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-19S	Feb-91	Total Uranium	19.0	1.9	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20D	Feb-91	Total Uranium	4.7	0.5	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20S	Feb-91	Total Uranium	1.4	0.1	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21D	Feb-91	Total Uranium	<.7		pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21S	Feb-91	Total Uranium	23.0	2.3	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22D	Feb-91	Total Uranium	3.4	0.3	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22S	Feb-91	Total Uranium	8.1	0.8	pCi/l	groundwater	McLaren Hart, 4/29/91	
CM-10	Mar-91	Gross Alpha	46	25	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-11	Mar-91	Gross Alpha	3	8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-12	Mar-91	Gross Alpha	37	19	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-13	Mar-91	Gross Alpha	12	8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-14	Mar-91	Gross Alpha	1	9	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-2D	Mar-91	Gross Alpha	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-4D	Mar-91	Gross Alpha	8	7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-5	Mar-91	Gross Alpha	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
CM-6D	Mar-91	Gross Alpha	9	16	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-7	Mar-91	Gross Alpha	10	14	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-8D	Mar-91	Gross Alpha	56	25	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-9D	Mar-91	Gross Alpha	42	19	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
M-1	Mar-91	Gross Alpha	10	8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-15	Mar-91	Gross Alpha	21	14	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-16	Mar-91	Gross Alpha	15	13	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-17	Mar-91	Gross Alpha	12	7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19D	Mar-91	Gross Alpha	19	14	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19S	Mar-91	Gross Alpha	31	21	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20D	Mar-91	Gross Alpha	28	21	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20S	Mar-91	Gross Alpha	11	16	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21D	Mar-91	Gross Alpha	14	16	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21S	Mar-91	Gross Alpha	10	13	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22D	Mar-91	Gross Alpha	3	5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22S	Mar-91	Gross Alpha	4	4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-10	Mar-91	Gross Beta	25	15	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-11	Mar-91	Gross Beta	9	8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-12	Mar-91	Gross Beta	15	10	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-13	Mar-91	Gross Beta	3	5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-14	Mar-91	Gross Beta	7	10	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-2D	Mar-91	Gross Beta	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-4D	Mar-91	Gross Beta	4	5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-5	Mar-91	Gross Beta	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-6D	Mar-91	Gross Beta	15	14	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-7	Mar-91	Gross Beta	8	12	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-8D	Mar-91	Gross Beta	14	13	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-9D	Mar-91	Gross Beta	19	11	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
M-1	Mar-91	Gross Beta	9	6	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-15	Mar-91	Gross Beta	13	9	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-16	Mar-91	Gross Beta	14	9	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-17	Mar-91	Gross Beta	6	5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19D	Mar-91	Gross Beta	15	10	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19S	Mar-91	Gross Beta	22	13	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20D	Mar-91	Gross Beta	19	14	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20S	Mar-91	Gross Beta	16	13	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21D	Mar-91	Gross Beta	17	12	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21S	Mar-91	Gross Beta	13	10	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22D	Mar-91	Gross Beta	2	4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22S	Mar-91	Gross Beta	3	3	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-10	Mar-91	Radium 226	0.5	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-11	Mar-91	Radium 226	0.2	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-12	Mar-91	Radium 226	0.5	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
CM-13	Mar-91	Radium 226	0.7	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-14	Mar-91	Radium 226	0	0.8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-2D	Mar-91	Radium 226	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-4D	Mar-91	Radium 226	0.5	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-5	Mar-91	Radium 226	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-6D	Mar-91	Radium 226	0.9	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-7	Mar-91	Radium 226	0.4	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-8D	Mar-91	Radium 226	1.6	0.8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-9D	Mar-91	Radium 226	0.7	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
M-1	Mar-91	Radium 226	0.4	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-15	Mar-91	Radium 226	0.8	0.6	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-16	Mar-91	Radium 226	1.3	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-17	Mar-91	Radium 226	1	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19D	Mar-91	Radium 226	0.1	0.8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19S	Mar-91	Radium 226	-0.1	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20D	Mar-91	Radium 226	3.9	0.8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20S	Mar-91	Radium 226	1.6	0.8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21D	Mar-91	Radium 226	4.3	0.8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21S	Mar-91	Radium 226	-0.3	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22D	Mar-91	Radium 226	0.3	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22S	Mar-91	Radium 226	0.3	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-16	Mar-91	Radium 228	1.3	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20D	Mar-91	Radium 228	0.5	0.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21D	Mar-91	Radium 228	0.6	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-10	Mar-91	Total Uranium	48.7	4.9	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-11	Mar-91	Total Uranium	2.7	0.3	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-12	Mar-91	Total Uranium	24.4	2.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-13	Mar-91	Total Uranium	6.1	1	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-14	Mar-91	Total Uranium	5.4	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-2D	Mar-91	Total Uranium	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-4D	Mar-91	Total Uranium	10.2	1.1	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-5	Mar-91	Total Uranium	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-6D	Mar-91	Total Uranium	6.8	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-7	Mar-91	Total Uranium	23.7	2.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-8D	Mar-91	Total Uranium	40.6	4.1	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-9D	Mar-91	Total Uranium	52.8	5.3	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
M-1	Mar-91	Total Uranium	15.6	1.6	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-15	Mar-91	Total Uranium	3.4	0.8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-16	Mar-91	Total Uranium	3	0.8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-17	Mar-91	Total Uranium	19	1.9	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19D	Mar-91	Total Uranium	<0.7		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19S	Mar-91	Total Uranium	17.6	1.8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20D	Mar-91	Total Uranium	<0.7		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
MW-20S	Mar-91	Total Uranium	0.7	0.07	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21D	Mar-91	Total Uranium	<0.7		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21S	Mar-91	Total Uranium	13.5	1.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22D	Mar-91	Total Uranium	4.7	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22S	Mar-91	Total Uranium	2	0.2	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-10	Jun-91	Gross Alpha	26	34	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-11	Jun-91	Gross Alpha	8	11	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-12	Jun-91	Gross Alpha	11	16	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-13	Jun-91	Gross Alpha	-1	8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-14	Jun-91	Gross Alpha	10	12	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-2D	Jun-91	Gross Alpha	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-4D	Jun-91	Gross Alpha	-2	9	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-5	Jun-91	Gross Alpha	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-6D	Jun-91	Gross Alpha	3	13	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-7	Jun-91	Gross Alpha	-8	16	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-8D	Jun-91	Gross Alpha	52	21	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-9D	Jun-91	Gross Alpha	50	20	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
M-1	Jun-91	Gross Alpha	-3	9	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-15	Jun-91	Gross Alpha	-3	14	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-16	Jun-91	Gross Alpha	3	15	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-17	Jun-91	Gross Alpha	8	9	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19D	Jun-91	Gross Alpha	-5	12	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19S	Jun-91	Gross Alpha	0	21	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20D	Jun-91	Gross Alpha	-6	15	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20S	Jun-91	Gross Alpha	-16	20	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21D	Jun-91	Gross Alpha	-14	17	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21S	Jun-91	Gross Alpha	30	22	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22D	Jun-91	Gross Alpha	5	5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22S	Jun-91	Gross Alpha	-3	4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-10	Jun-91	Gross Beta	-6	20	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-11	Jun-91	Gross Beta	5	10	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-12	Jun-91	Gross Beta	3	10	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-13	Jun-91	Gross Beta	2	5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-14	Jun-91	Gross Beta	-5	10	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-2D	Jun-91	Gross Beta	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-4D	Jun-91	Gross Beta	5	6	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-5	Jun-91	Gross Beta	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-6D	Jun-91	Gross Beta	-4	13	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-7	Jun-91	Gross Beta	1	11	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-8D	Jun-91	Gross Beta	6	13	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-9D	Jun-91	Gross Beta	5	12	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
M-1	Jun-91	Gross Beta	-4	6	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-15	Jun-91	Gross Beta	4	10	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
MW-16	Jun-91	Gross Beta	2	10	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-17	Jun-91	Gross Beta	2	5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19D	Jun-91	Gross Beta	0	8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19S	Jun-91	Gross Beta	5	14	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20D	Jun-91	Gross Beta	5	11	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20S	Jun-91	Gross Beta	8	14	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21D	Jun-91	Gross Beta	9	14	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21S	Jun-91	Gross Beta	5	10	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22D	Jun-91	Gross Beta	0	4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22S	Jun-91	Gross Beta	0	3	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-10	Jun-91	Radium 226	0.4	0.3	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-11	Jun-91	Radium 226	0.6	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-12	Jun-91	Radium 226	1.1	0.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-13	Jun-91	Radium 226	1.2	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-14	Jun-91	Radium 226	0.4	0.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-2D	Jun-91	Radium 226	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-4D	Jun-91	Radium 226	0.4	0.3	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-5	Jun-91	Radium 226	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-6D	Jun-91	Radium 226	1.1	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-7	Jun-91	Radium 226	0.9	0.6	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-8D	Jun-91	Radium 226	1.2	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-9D	Jun-91	Radium 226	0.8	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
M-1	Jun-91	Radium 226	2	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-15	Jun-91	Radium 226	2.9	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-16	Jun-91	Radium 226	2.9	0.6	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-17	Jun-91	Radium 226	1.5	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19D	Jun-91	Radium 226	0.4	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19S	Jun-91	Radium 226	0.2	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20D	Jun-91	Radium 226	6.5	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20S	Jun-91	Radium 226	1.2	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21D	Jun-91	Radium 226	4.7	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21S	Jun-91	Radium 226	0.3	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22D	Jun-91	Radium 226	0.5	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22S	Jun-91	Radium 226	0.3	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-16	Jun-91	Radium 228	2.9	0.6	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20D	Jun-91	Radium 228	3.5	0.8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21D	Jun-91	Radium 228	6	2.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-10	Jun-91	Total Uranium	2.7	0.3	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-11	Jun-91	Total Uranium	0.7	0.1	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-12	Jun-91	Total Uranium	28.4	2.8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-13	Jun-91	Total Uranium	10.2	1	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-14	Jun-91	Total Uranium	<0.7		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-2D	Jun-91	Total Uranium	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.

HMSC - CANOGA PARK

SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
CM-4D	Jun-91	Total Uranium	7.5	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-5	Jun-91	Total Uranium	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-6D	Jun-91	Total Uranium	<0.7		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-7	Jun-91	Total Uranium	2.7	0.3	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-8D	Jun-91	Total Uranium	32.5	3.3	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-9D	Jun-91	Total Uranium	39.3	3.9	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
M-1	Jun-91	Total Uranium	3.4	0.3	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-15	Jun-91	Total Uranium	<0.7		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-16	Jun-91	Total Uranium	4.2	0.9	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-17	Jun-91	Total Uranium	19.6	2	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19D	Jun-91	Total Uranium	<0.7		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19S	Jun-91	Total Uranium	21.6	2.2	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20D	Jun-91	Total Uranium	0.7	0.1	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20S	Jun-91	Total Uranium	0.7	0.1	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21D	Jun-91	Total Uranium	<0.7		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21S	Jun-91	Total Uranium	25	2.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22D	Jun-91	Total Uranium	<0.7		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22S	Jun-91	Total Uranium	<0.7		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-10	Oct-91	Gross Alpha	60.2		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-11	Oct-91	Gross Alpha	1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-12	Oct-91	Gross Alpha	15.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-13	Oct-91	Gross Alpha	6.3		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-14	Oct-91	Gross Alpha	3.2		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-4D	Oct-91	Gross Alpha	1.4		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-6D	Oct-91	Gross Alpha	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-7	Oct-91	Gross Alpha	7.4		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-8D	Oct-91	Gross Alpha	37.8		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-9D	Oct-91	Gross Alpha	28.3		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
M-1	Oct-91	Gross Alpha	7.4		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-15	Oct-91	Gross Alpha	2.3		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-16	Oct-91	Gross Alpha	5.3		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-17	Oct-91	Gross Alpha	14.2		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-19D	Oct-91	Gross Alpha	2.8		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-19S	Oct-91	Gross Alpha	12.5		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-20D	Oct-91	Gross Alpha	15.7		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-20S	Oct-91	Gross Alpha	1.7		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-21D	Oct-91	Gross Alpha	7.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-21S	Oct-91	Gross Alpha	16.2		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-22D	Oct-91	Gross Alpha	7.8		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-22S	Oct-91	Gross Alpha	1.9		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-10	Oct-91	Gross Beta	21.1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-11	Oct-91	Gross Beta	7.1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-12	Oct-91	Gross Beta	12.3		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
CM-13	Oct-91	Gross Beta	4.4		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-14	Oct-91	Gross Beta	3.8		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-4D	Oct-91	Gross Beta	2.8		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-6D	Oct-91	Gross Beta	2.1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-7	Oct-91	Gross Beta	11.8		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-8D	Oct-91	Gross Beta	27.4		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-9D	Oct-91	Gross Beta	15.8		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
M-1	Oct-91	Gross Beta	8.1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-15	Oct-91	Gross Beta	3.1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-16	Oct-91	Gross Beta	5		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-17	Oct-91	Gross Beta	7.1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-19D	Oct-91	Gross Beta	7.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-19S	Oct-91	Gross Beta	10.9		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-20D	Oct-91	Gross Beta	6.2		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-20S	Oct-91	Gross Beta	8.8		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-21D	Oct-91	Gross Beta	14		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-21S	Oct-91	Gross Beta	7.7		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-22D	Oct-91	Gross Beta	5.1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-22S	Oct-91	Gross Beta	<2.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-10	Oct-91	Radium 226	<1.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-11	Oct-91	Radium 226	<1.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-12	Oct-91	Radium 226	<1.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-13	Oct-91	Radium 226	1.1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-14	Oct-91	Radium 226	<1.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-4D	Oct-91	Radium 226	<1.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-6D	Oct-91	Radium 226	<1.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-7	Oct-91	Radium 226	<1.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-8D	Oct-91	Radium 226	<1.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-9D	Oct-91	Radium 226	<1.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
M-1	Oct-91	Radium 226	1.3		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-15	Oct-91	Radium 226	2.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-16	Oct-91	Radium 226	5.2		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-17	Oct-91	Radium 226	<1.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-19D	Oct-91	Radium 226	<1.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-19S	Oct-91	Radium 226	<1.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-20D	Oct-91	Radium 226	5.3		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-20S	Oct-91	Radium 226	1.4		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-21D	Oct-91	Radium 226	8.2		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-21S	Oct-91	Radium 226	<1.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-22D	Oct-91	Radium 226	<1.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-22S	Oct-91	Radium 226	<1.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-10	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-11	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services

HMSC - CANOGA PARK

SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
CM-12	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-13	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-14	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-4D	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-6D	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-7	Oct-91	Radium 228	1.3		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-8D	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-9D	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
M-1	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-15	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-16	Oct-91	Radium 228	1.7		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-17	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-19D	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-19S	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-20D	Oct-91	Radium 228	1.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-20S	Oct-91	Radium 228	2.4		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-21D	Oct-91	Radium 228	1.8		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-21S	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-22D	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-22S	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-10	Oct-91	Uranium 234	26		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-11	Oct-91	Uranium 234	2.2		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-12	Oct-91	Uranium 234	3.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-13	Oct-91	Uranium 234	4.4		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-14	Oct-91	Uranium 234	2.7		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-4D	Oct-91	Uranium 234	4.9		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-6D	Oct-91	Uranium 234	0.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-7	Oct-91	Uranium 234	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-8D	Oct-91	Uranium 234	27.3		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-9D	Oct-91	Uranium 234	20.2		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
M-1	Oct-91	Uranium 234	6.4		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-15	Oct-91	Uranium 234	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-16	Oct-91	Uranium 234	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-17	Oct-91	Uranium 234	9.1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-19D	Oct-91	Uranium 234	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-19S	Oct-91	Uranium 234	15.2		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-20D	Oct-91	Uranium 234	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-20S	Oct-91	Uranium 234	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-21D	Oct-91	Uranium 234	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-21S	Oct-91	Uranium 234	11.8		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-22D	Oct-91	Uranium 234	3		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-22S	Oct-91	Uranium 234	1.7		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-10	Oct-91	Uranium 235	1.1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
CM-11	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-12	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-13	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-14	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-4D	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-6D	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-7	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-8D	Oct-91	Uranium 235	1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-9D	Oct-91	Uranium 235	0.7		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
M-1	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-15	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-16	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-17	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-19D	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-19S	Oct-91	Uranium 235	0.7		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-20D	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-20S	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-21D	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-21S	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-22D	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-22S	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-10	Oct-91	Uranium 238	26.3		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-11	Oct-91	Uranium 238	2.1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-12	Oct-91	Uranium 238	4.8		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-13	Oct-91	Uranium 238	4.1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-14	Oct-91	Uranium 238	2.2		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-4D	Oct-91	Uranium 238	4.3		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-6D	Oct-91	Uranium 238	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-7	Oct-91	Uranium 238	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-8D	Oct-91	Uranium 238	25.9		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-9D	Oct-91	Uranium 238	18.8		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
M-1	Oct-91	Uranium 238	6.9		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-15	Oct-91	Uranium 238	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-16	Oct-91	Uranium 238	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-17	Oct-91	Uranium 238	9.5		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-19D	Oct-91	Uranium 238	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-19S	Oct-91	Uranium 238	12.1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-20D	Oct-91	Uranium 238	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-20S	Oct-91	Uranium 238	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-21D	Oct-91	Uranium 238	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-21S	Oct-91	Uranium 238	10.8		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-22D	Oct-91	Uranium 238	2.7		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-22S	Oct-91	Uranium 238	1.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services

HMSC - CANOGA PARK

SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
CM-10	Dec-91	Gross Alpha	48.9		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-11	Dec-91	Gross Alpha	<4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-12	Dec-91	Gross Alpha	25.7		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-13	Dec-91	Gross Alpha	11.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-14	Dec-91	Gross Alpha	6.3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-15	Dec-91	Gross Alpha	3.7		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-16	Dec-91	Gross Alpha	1.7		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-17	Dec-91	Gross Alpha	13		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-18	Dec-91	Gross Alpha	59.2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-19	Dec-91	Gross Alpha	5.2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-4D	Dec-91	Gross Alpha	<4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-6D	Dec-91	Gross Alpha	4.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-7	Dec-91	Gross Alpha	<4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-8D	Dec-91	Gross Alpha	50.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-9D	Dec-91	Gross Alpha	NA		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
M-1	Dec-91	Gross Alpha	7.7		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-15	Dec-91	Gross Alpha	<4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-16	Dec-91	Gross Alpha	9		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-17	Dec-91	Gross Alpha	12.4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-19D	Dec-91	Gross Alpha	<4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-19S	Dec-91	Gross Alpha	16		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-20D	Dec-91	Gross Alpha	<4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-20S	Dec-91	Gross Alpha	<4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-21D	Dec-91	Gross Alpha	7.4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-21S	Dec-91	Gross Alpha	7.3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-22D	Dec-91	Gross Alpha	4.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-22S	Dec-91	Gross Alpha	2.3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-23	Dec-91	Gross Alpha	5.3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-10	Dec-91	Gross Beta	24.6		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-11	Dec-91	Gross Beta	7.08		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-12	Dec-91	Gross Beta	11.2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-13	Dec-91	Gross Beta	<4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-14	Dec-91	Gross Beta	<4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-15	Dec-91	Gross Beta	8.49		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-16	Dec-91	Gross Beta	12.6		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-17	Dec-91	Gross Beta	13.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-18	Dec-91	Gross Beta	33.7		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-19	Dec-91	Gross Beta	7.42		pCi/l	groundwater	GRC, 3/27/92	
CM-4D	Dec-91	Gross Beta	5.36		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-6D	Dec-91	Gross Beta	5.2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-7	Dec-91	Gross Beta	10.6		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-8D	Dec-91	Gross Beta	12.9		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-9D	Dec-91	Gross Beta	NA		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
M-1	Dec-91	Gross Beta	6.23		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-15	Dec-91	Gross Beta	<4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-16	Dec-91	Gross Beta	8.53		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-17	Dec-91	Gross Beta	8.46		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-19D	Dec-91	Gross Beta	10.7		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-19S	Dec-91	Gross Beta	10.9		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-20D	Dec-91	Gross Beta	4.93		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-20S	Dec-91	Gross Beta	4.58		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-21D	Dec-91	Gross Beta	12.2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-21S	Dec-91	Gross Beta	5.35		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-22D	Dec-91	Gross Beta	4.96		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-22S	Dec-91	Gross Beta	<4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-23	Dec-91	Gross Beta	8.08		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-10	Dec-91	Radium 226	<.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-11	Dec-91	Radium 226	--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-12	Dec-91	Radium 226	<.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-13	Dec-91	Radium 226	1.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-14	Dec-91	Radium 226	<.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-15	Dec-91	Radium 226	--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-16	Dec-91	Radium 226	--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-17	Dec-91	Radium 226	<.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-18	Dec-91	Radium 226	1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-19	Dec-91	Radium 226	<.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-4D	Dec-91	Radium 226	--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-6D	Dec-91	Radium 226	--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-7	Dec-91	Radium 226	--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-8D	Dec-91	Radium 226	0.9		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-9D	Dec-91	Radium 226	NA		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
M-1	Dec-91	Radium 226	1.2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-15	Dec-91	Radium 226	--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-16	Dec-91	Radium 226	4.8		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-17	Dec-91	Radium 226	<.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-19D	Dec-91	Radium 226	--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-19S	Dec-91	Radium 226	<.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-20D	Dec-91	Radium 226	--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-20S	Dec-91	Radium 226	--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-21D	Dec-91	Radium 226	11.3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-21S	Dec-91	Radium 226	<.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-22D	Dec-91	Radium 226	--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-22S	Dec-91	Radium 226	--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-23	Dec-91	Radium 226	<.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-10	Dec-91	Radium 228	<1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-11	Dec-91	Radium 228	NAR--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services

HMSC - CANOGA PARK

SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
CM-12	Dec-91	Radium 228	<1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-13	Dec-91	Radium 228	<1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-14	Dec-91	Radium 228	<1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-15	Dec-91	Radium 228	NAR--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-16	Dec-91	Radium 228	NAR--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-17	Dec-91	Radium 228	<1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-18	Dec-91	Radium 228	<1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-19	Dec-91	Radium 228	<1		pCi/l	groundwater	GRC, 3/27/92	
CM-4D	Dec-91	Radium 228	NAR--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-6D	Dec-91	Radium 228	NAR--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-7	Dec-91	Radium 228	NAR--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-8D	Dec-91	Radium 228	<1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-9D	Dec-91	Radium 228	NA		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
M-1	Dec-91	Radium 228	<1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-15	Dec-91	Radium 228	NAR--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-16	Dec-91	Radium 228	1.84		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-17	Dec-91	Radium 228	<1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-19D	Dec-91	Radium 228	NAR--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-19S	Dec-91	Radium 228	<1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-20D	Dec-91	Radium 228	NAR--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-20S	Dec-91	Radium 228	NAR--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-21D	Dec-91	Radium 228	1.62		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-21S	Dec-91	Radium 228	<1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-22D	Dec-91	Radium 228	NAR--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-22S	Dec-91	Radium 228	NAR--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-23	Dec-91	Radium 228	<1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-10	Dec-91	Uranium 234	25.8		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-11	Dec-91	Uranium 234	3.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-12	Dec-91	Uranium 234	13.6		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-13	Dec-91	Uranium 234	4.4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-14	Dec-91	Uranium 234	2.4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-15	Dec-91	Uranium 234	2.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-16	Dec-91	Uranium 234	3.9		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-17	Dec-91	Uranium 234	13.4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-18	Dec-91	Uranium 234	46.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-19	Dec-91	Uranium 234	5.8		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-4D	Dec-91	Uranium 234	5.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-6D	Dec-91	Uranium 234	0.4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-7	Dec-91	Uranium 234	0.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-8D	Dec-91	Uranium 234	25.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-9D	Dec-91	Uranium 234	NA		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
M-1	Dec-91	Uranium 234	5.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-15	Dec-91	Uranium 234	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services

HMSC - CANOGA PARK

SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
MW-16	Dec-91	Uranium 234	1.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-17	Dec-91	Uranium 234	9.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-19D	Dec-91	Uranium 234	0.4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-19S	Dec-91	Uranium 234	10.3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-20D	Dec-91	Uranium 234	0.2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-20S	Dec-91	Uranium 234	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-21D	Dec-91	Uranium 234	0.3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-21S	Dec-91	Uranium 234	7.3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-22D	Dec-91	Uranium 234	3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-22S	Dec-91	Uranium 234	1.7		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-23	Dec-91	Uranium 234	5.7		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-10	Dec-91	Uranium 235	1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-11	Dec-91	Uranium 235	0.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-12	Dec-91	Uranium 235	0.7		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-13	Dec-91	Uranium 235	0.2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-14	Dec-91	Uranium 235	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-15	Dec-91	Uranium 235	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-16	Dec-91	Uranium 235	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-17	Dec-91	Uranium 235	0.4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-18	Dec-91	Uranium 235	2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-19	Dec-91	Uranium 235	0.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-4D	Dec-91	Uranium 235	0.2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-6D	Dec-91	Uranium 235	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-7	Dec-91	Uranium 235	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-8D	Dec-91	Uranium 235	1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-9D	Dec-91	Uranium 235	NA		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
M-1	Dec-91	Uranium 235	0.2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-15	Dec-91	Uranium 235	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-16	Dec-91	Uranium 235	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-17	Dec-91	Uranium 235	0.4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-19D	Dec-91	Uranium 235	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-19S	Dec-91	Uranium 235	0.3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-20D	Dec-91	Uranium 235	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-20S	Dec-91	Uranium 235	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-21D	Dec-91	Uranium 235	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-21S	Dec-91	Uranium 235	0.2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-22D	Dec-91	Uranium 235	0.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-22S	Dec-91	Uranium 235	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-23	Dec-91	Uranium 235	0.2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-10	Dec-91	Uranium 238	26.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-11	Dec-91	Uranium 238	3.3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-12	Dec-91	Uranium 238	12.7		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-13	Dec-91	Uranium 238	4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services

HMSC - CANOGA PARK

SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
CM-14	Dec-91	Uranium 238	2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-15	Dec-91	Uranium 238	1.4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-16	Dec-91	Uranium 238	2.3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-17	Dec-91	Uranium 238	12.6		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-18	Dec-91	Uranium 238	43.9		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-19	Dec-91	Uranium 238	4.3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-4D	Dec-91	Uranium 238	4.8		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-6D	Dec-91	Uranium 238	0.3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-7	Dec-91	Uranium 238	0.4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-8D	Dec-91	Uranium 238	23.7		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-9D	Dec-91	Uranium 238	NA		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
M-1	Dec-91	Uranium 238	5.4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-15	Dec-91	Uranium 238	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-16	Dec-91	Uranium 238	1.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-17	Dec-91	Uranium 238	9.6		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-19D	Dec-91	Uranium 238	0.2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-19S	Dec-91	Uranium 238	8.6		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-20D	Dec-91	Uranium 238	0.2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-20S	Dec-91	Uranium 238	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-21D	Dec-91	Uranium 238	0.3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-21S	Dec-91	Uranium 238	7		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-22D	Dec-91	Uranium 238	2.8		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-22S	Dec-91	Uranium 238	1.6		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-23	Dec-91	Uranium 238	5.3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-10	Mar-92	Gross Alpha	17		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-11	Mar-92	Gross Alpha	11		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-12	Mar-92	Gross Alpha	9		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-13	Mar-92	Gross Alpha	3		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-14	Mar-92	Gross Alpha	4		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-15	Mar-92	Gross Alpha	4		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-16	Mar-92	Gross Alpha	<2		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-17	Mar-92	Gross Alpha	8		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-18	Mar-92	Gross Alpha	25		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-19	Mar-92	Gross Alpha	5		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-4D	Mar-92	Gross Alpha	3		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-6D	Mar-92	Gross Alpha	5		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-7	Mar-92	Gross Alpha	4		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-8D	Mar-92	Gross Alpha	10		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-9D	Mar-92	Gross Alpha	24		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-1	Mar-92	Gross Alpha	6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-15	Mar-92	Gross Alpha	6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-16	Mar-92	Gross Alpha	6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-17	Mar-92	Gross Alpha	4		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.

HMSC - CANOGA PARK

SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
MW-19D	Mar-92	Gross Alpha	9		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-19S	Mar-92	Gross Alpha	12		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-20D	Mar-92	Gross Alpha	<2		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-20S	Mar-92	Gross Alpha	6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-21D	Mar-92	Gross Alpha	5		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-21S	Mar-92	Gross Alpha	11		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-22D	Mar-92	Gross Alpha	3		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-22S	Mar-92	Gross Alpha	4		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-23	Mar-92	Gross Alpha	7		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-10	Mar-92	Gross Beta	12		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-11	Mar-92	Gross Beta	10		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-12	Mar-92	Gross Beta	5		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-13	Mar-92	Gross Beta	4		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-14	Mar-92	Gross Beta	11		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-15	Mar-92	Gross Beta	8		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-16	Mar-92	Gross Beta	6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-17	Mar-92	Gross Beta	10		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-18	Mar-92	Gross Beta	13		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-19	Mar-92	Gross Beta	8		pCi/l	groundwater	GRC, 7/1/92	
CM-4D	Mar-92	Gross Beta	5		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-6D	Mar-92	Gross Beta	7		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-7	Mar-92	Gross Beta	6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-8D	Mar-92	Gross Beta	8		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-9D	Mar-92	Gross Beta	17		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
M-1	Mar-92	Gross Beta	15		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-15	Mar-92	Gross Beta	8		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-16	Mar-92	Gross Beta	12		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-17	Mar-92	Gross Beta	7		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-19D	Mar-92	Gross Beta	10		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-19S	Mar-92	Gross Beta	12		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-20D	Mar-92	Gross Beta	<3		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-20S	Mar-92	Gross Beta	8		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-21D	Mar-92	Gross Beta	6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-21S	Mar-92	Gross Beta	9		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-22D	Mar-92	Gross Beta	8		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-22S	Mar-92	Gross Beta	12		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-23	Mar-92	Gross Beta	12		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-10	Mar-92	Radium 226	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-11	Mar-92	Radium 226	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-12	Mar-92	Radium 226	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-13	Mar-92	Radium 226	--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-14	Mar-92	Radium 226	--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-15	Mar-92	Radium 226	--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.

HMSC - CANOGA PARK

SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
CM-16	Mar-92	Radium 226	--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-17	Mar-92	Radium 226	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-18	Mar-92	Radium 226	1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-19	Mar-92	Radium 226	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-4D	Mar-92	Radium 226	--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-6D	Mar-92	Radium 226	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-7	Mar-92	Radium 226	--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-8D	Mar-92	Radium 226	0.9		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-9D	Mar-92	Radium 226	0.9		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-1	Mar-92	Radium 226	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-15	Mar-92	Radium 226	0.9		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-16	Mar-92	Radium 226	3.0		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-17	Mar-92	Radium 226	--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-19D	Mar-92	Radium 226	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-19S	Mar-92	Radium 226	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-20D	Mar-92	Radium 226	--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-20S	Mar-92	Radium 226	0.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-21D	Mar-92	Radium 226	5.2		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-21S	Mar-92	Radium 226	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-22D	Mar-92	Radium 226	--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-22S	Mar-92	Radium 226	--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-23	Mar-92	Radium 226	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-10	Mar-92	Radium 228	<1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-11	Mar-92	Radium 228	<1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-12	Mar-92	Radium 228	<1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-13	Mar-92	Radium 228	<1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-14	Mar-92	Radium 228	NAR--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-15	Mar-92	Radium 228	NAR--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-16	Mar-92	Radium 228	NAR--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-17	Mar-92	Radium 228	<1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-18	Mar-92	Radium 228	<1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-19	Mar-92	Radium 228	<1		pCi/l	groundwater	GRC, 7/1/92	
CM-4D	Mar-92	Radium 228	NAR--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-6D	Mar-92	Radium 228	<1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-7	Mar-92	Radium 228	NAR--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-8D	Mar-92	Radium 228	<1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-9D	Mar-92	Radium 228	<1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
M-1	Mar-92	Radium 228	<1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-15	Mar-92	Radium 228	<1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-16	Mar-92	Radium 228	4		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-17	Mar-92	Radium 228	NAR--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-19D	Mar-92	Radium 228	5		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-19S	Mar-92	Radium 228	8		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.

HMSC - CANOGA PARK

SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
MW-20D	Mar-92	Radium 228	NAR--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-20S	Mar-92	Radium 228	5		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-21D	Mar-92	Radium 228	<1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-21S	Mar-92	Radium 228	<1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-22D	Mar-92	Radium 228	NAR--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-22S	Mar-92	Radium 228	NAR--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-23	Mar-92	Radium 228	<1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-10	Mar-92	Uranium 234	3.5		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-11	Mar-92	Uranium 234	4.5		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-12	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-13	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-14	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-15	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-16	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-17	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-18	Mar-92	Uranium 234	2.1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-19	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-4D	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-6D	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-7	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-8D	Mar-92	Uranium 234	3.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-9D	Mar-92	Uranium 234	5.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-1	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-15	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-16	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-17	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-19D	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-19S	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-20D	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-20S	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-21D	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-21S	Mar-92	Uranium 234	3.2		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-22D	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-22S	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-23	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-10	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-11	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-12	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-13	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-14	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-15	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-16	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-17	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
CM-18	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-19	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-4D	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-6D	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-7	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-8D	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-9D	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-1	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-15	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-16	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-17	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-19D	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-19S	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-20D	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-20S	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-21D	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-21S	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-22D	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-22S	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-23	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-10	Mar-92	Uranium 238	2.9		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-11	Mar-92	Uranium 238	10.3		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-12	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-13	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-14	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-15	Mar-92	Uranium 238	1.8		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-16	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-17	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-18	Mar-92	Uranium 238	1.8		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-19	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-4D	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-6D	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-7	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-8D	Mar-92	Uranium 238	6.9		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-9D	Mar-92	Uranium 238	7.2		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-1	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-15	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-16	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-17	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-19D	Mar-92	Uranium 238	0.9		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-19S	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-20D	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-20S	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.

HMSC - CANOGA PARK

SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
MW-21D	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-21S	Mar-92	Uranium 238	7.0		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-22D	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-22S	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-23	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.

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AUG 11 2006

PHASE I ENVIRONMENTAL SITE ASSESSMENT



Site:

DeVry University
22801 Roscoe Boulevard
West Hills, California 91304

Prepared For:

Trammell Crow Company
8413 Fallbrook Avenue,
West Hills, California 91304

Prepared by:

Unmack Corporation
1379 Park Western Drive, PMB 282
San Pedro, California 90732

July 28, 2006

Unmack Corporation Project # 06.109.03

1. EXECUTIVE SUMMARY

Unmack Corporation (UC) was retained by Trammell Crow Company to perform a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-00 at the DeVry University located at 22801 Roscoe Boulevard in West Hills, California 91304 herein referred to as the SITE. Any exceptions to, or deletions from, this practice is described in Section 1 of this report.

The purpose of a Phase I is not only to assist a purchaser or lender to qualify for the innocent landowner defense under the federal Superfund statute, it is also intended to provide reliable, early information on the environmental condition of the property and on the possible need for additional, more extensive and costly investigation.

In short, the Phase I assessment is designed to recognize and catalog those concerns or problems that the environmental professional believes deserve further investigation. A major purpose of the Phase I assessment is to evaluate the need for more intrusive research. The recommendations provided in a Phase I report reflect professional judgments made by the assessment team based on observations of the SITE and a thorough review of available agency and other historical records, including information provided by the SITE's owner or representative, within the time constraints of the reporting period. Precise information about actual SITE contamination can only be obtained through a different and subsequent level of investigation, as would occur in a Phase II study, which might involve sampling of soil and/or groundwater to determine actual levels of contamination, or of building materials to determine the presence of asbestos or lead containing materials.

In performing this Phase I investigation, Unmack Corporation's team completed the following steps: review of government records and databases for evidence of possible environmental contamination; site reconnaissance through a site walk of the property; interviews with current owners and occupants of the property or their representative(s), as well as with appropriate government agency staff; and an evaluation of the evidence developed during the site assessment presented in a written report to the individual ordering the performance of the Phase I.

This assessment has revealed no evidence of recognized environmental conditions (RECs) in connection with the SITE.

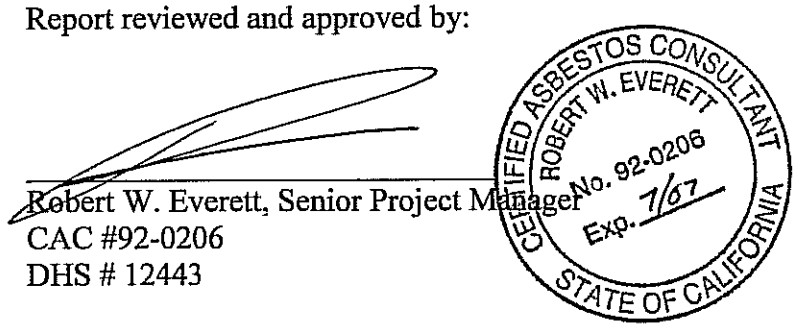
In conclusion, the SITE presents evidence of low environmental risk, stemming from any undocumented underground storage tanks (USTs), underground piping and the former adjoining northern property previously owned and occupied by Hughes Missile System Company.

Based on the results of the Phase I Environmental Site Assessment, Unmack Corporation recommends the following:

- A closure letter should be obtained from the Los Angeles Regional Water Quality Control Board (LARWQCB) regarding the four groundwater monitoring wells located on the SITE if these wells are considered to be a no further action activity.

- Prior to any renovation or demolition of the current building, a Hazardous Materials Survey should be performed to determine if any hazardous materials such as asbestos containing materials or lead-containing materials are present in the building.

Report reviewed and approved by:



Robert W. Everett, Senior Project Manager
CAC #92-0206
DHS # 12443

TABLE OF CONTENTS

1. **EXECUTIVE SUMMARY** I

I. **INTRODUCTION** 1

PURPOSE 1
Property and Client 1
Purpose of a Phase I Environmental Site Assessment 1
DETAILED SCOPE-OF-SERVICES 2
SIGNIFICANT ASSUMPTIONS 2
LIMITATIONS AND EXCEPTIONS OF ASSESSMENT 3
SPECIAL TERMS AND CONDITIONS 3
USER RELIANCE 3

II. **SITE DESCRIPTION** 4

LOCATION AND LEGAL DESCRIPTION 4
SITE AND VICINITY GENERAL CHARACTERISTICS 4
CURRENT USE OF PROPERTY 4
SITE STRUCTURES, ROADS AND OTHER IMPROVEMENTS 4
CURRENT USES OF ADJOINING PROPERTIES 4
SITE PLAN 4

III. **USER PROVIDED INFORMATION** 5

TITLE RECORDS 5
ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS 5
SPECIALIZED KNOWLEDGE 5
VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES 5
OWNER, PROPERTY MANAGER, AND OCCUPANT INFORMATION 5
REASON FOR PERFORMING PHASE I 5
PREVIOUS ENVIRONMENTAL INVESTIGATIONS 5

IV. **RECORDS REVIEW** 7

STANDARD ENVIRONMENTAL RECORD SOURCES 7
Subject Property 9
Adjoining Properties 9
Orphan Sites 10
Summary of Database Review 10
PHYSICAL SETTING 10
Site Geology 11
Site Geohydrology 11
Groundwater Well Information 11
HISTORICAL USE INFORMATION ON THE PROPERTY 12
Building Records 12
Aerial Photo Review 12
Sanborn Insurance Maps 12
Division of Oil, Gas and Geothermal Resources Records 12
HISTORICAL USE INFORMATION ON ADJOINING PROPERTIES 13
Sanborn Insurance Maps 13
SUMMARY OF HISTORICAL USE INFORMATION 13
HISTORICAL USE INFORMATION SOURCES 13
ENVIRONMENTAL SETTING SOURCES 13

V. **SITE RECONNAISSANCE** 14

METHODOLOGY AND LIMITING CONDITIONS 14
GENERAL SITE SETTING 14
Current Use of the Property *14*
Past Use of the Property *14*
Current Uses of Adjoining Properties *14*
Past Use of Adjoining Properties *14*
Current or Past Uses in the Surrounding Area *14*
General Description of Structures *15*
Roads *15*
Potable Water Supply *15*
INTERIOR AND EXTERIOR OBSERVATIONS 15
Hazardous Substances and Petroleum Products in Connection with Identified Uses *15*
PCBs *16*
INTERIOR OBSERVATIONS 16
Hazardous Materials, Hazardous Waste and Petroleum Products *16*
Asbestos-Containing Materials *16*
Lead-Based Paints *16*
PCBs *16*
EXTERIOR OBSERVATIONS 17
Wells *17*

VI. INTERVIEWS 18

INTERVIEW WITH OWNER 18
Proceedings Involving the Property *18*
Previous Environmental Investigations *18*
INTERVIEW WITH SITE MANAGER 18
INTERVIEWS WITH LOCAL GOVERNMENT OFFICIALS 18
Los Angeles Regional Water Quality Control Board (LARWQCB) *18*
City of Los Angeles Fire Department Hazardous Materials Division *18*
City of Los Angeles Fire Department Underground Storage Tank Division *18*

VII. CONCLUSIONS AND RECOMMENDATIONS 19

CONCLUSIONS 19

VIII. SIGNATURE AND QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL 20

QUALIFICATIONS 20
SIGNATURE OF ENVIRONMENTAL PROFESSIONAL 20

APPENDICES 21

Exhibit A. Topographic Site Map ..... *A*
Exhibit B. Site Plot Plan ..... *B*
Exhibit C. Photographs Taken During Site Walk ..... *C*
Exhibit D. City of Los Angeles Building & Safety Permits ..... *D*
Exhibit E. Government Records Data Base Search and Radius Site Map ..... *E*
Exhibit F. Transaction Questionnaire ..... *F*
Exhibit G. City of Los Angeles Fire Dept. Responses ..... *G*
Exhibit H. Assessor's Parcel Map ..... *H*
Exhibit I. Fluor Daniel GTI Additional Site Assessment Report ..... *I*

I. INTRODUCTION

Purpose

Property and Client

The property subject to this Phase I Environmental Site Assessment is the DeVry University located at 22801 Roscoe Boulevard in West Hills, California 91304. The Unmack Corporation retained W&K to prepare this assessment.

Purpose of a Phase I Environmental Site Assessment

Under the federal Comprehensive Environmental Response, Compensation and Liability Act (CERCLA, or "Superfund"), owners of property where hazardous substances have been released (including deposited or disposed of) are strictly liable for the costs of response and cleanup. This liability, which can amount to millions of dollars, generally extends to landowners who receive title after the release has occurred, unless the landowner can demonstrate that at the time of acquisition, he had no knowledge or reason to know of the release or disposal. Such an "innocent landowner" must meet certain statutory requirements and bears the burden of proof in establishing this defense. Generally, the landowner must demonstrate that prior to acquisition, he undertook "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice in an effort to minimize liability."[1] Potential environmental liability may also result under other federal and state laws, and under common law tort suits based on contamination. In addition, the Federal Deposit Insurance Corporation since 1993 has required that all insured lending institutions have in place "appropriate safeguards and controls to limit exposure to potential environmental liability associated with real property held as collateral or as an investment... Examiners will review the institution's compliance with its own environmental risk program as part of the examination of lending and investment activities."[2] As a result, essentially all nonresidential real estate transactions now include an environmental site assessment.

The legal standard exists defining what a site assessment must include, both the Environmental Protection Agency (EPA) and the American Society for Testing and Materials (ASTM) has published a standard defining recommended elements to be included. However, the standard does not take effect until December 2006. According to this standard[3], the goal of the Phase I Environmental Site Assessment process is to identify *recognized environmental conditions*, which means:

> the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimus

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[1] 42 USC 9601(35)(B)

[2] Poling, Stanley J., Director, Federal Deposit Insurance Corporation, *Guidelines for an Environmental Risk Program*, FIL-14-93, February 25, 1993.

[3] ASTM E 1527-05, page 1

conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate government agencies.[4]

The purpose of a Phase I is not only to assist a purchaser or lender qualify for the innocent landowner defense; it is also intended to provide reliable, early information on the environmental condition of the property and on the possible need for additional, more extensive and costly investigation. In the terminology currently used in the industry, site investigation and cleanup entails up to three discrete steps: Phase I, which involves nonintrusive investigation designed to spot the most common contamination problems and sources; Phase II, which involves sampling and analysis to characterize the nature and extent of contamination, considering the Phase I findings; and Phase III, which covers the actual site cleanup, based on information from the Phase II study.

More specifically, a Phase I Environmental Site Assessment entails nonintrusive research to identify areas of potentially significant liability for the current or prospective owner. Conditions suggesting possible onsite contamination are described, and the client notified that further investigation may be warranted to confirm the existence and/or extent of contamination; cleanup remedies and costs can then be more confidently evaluated. Such a subsequent investigation involves intrusive measures such as soil and/or groundwater testing; this level of investigation is termed a "Phase II" study. In short, the Phase I assessment is designed to recognize and catalog those concerns or problems that the environmental professional believes deserve further investigation. A major purpose of the Phase I assessment is to evaluate the need for more intrusive research. The recommendations provided in a Phase I report reflect professional judgments made by the assessment team based on observations of the site and a thorough review of available agency and other historical records; precise information about actual site contamination can only be obtained through a different and subsequent level of investigation, as would occur in a Phase II study.

This Environmental Site Assessment has been performed to meet the ASTM standard and to assist in fulfilling both purposes described above.

Detailed Scope-of-Services

A Phase I Environmental Site Assessment generally has four elements: Review of government records and databases for evidence of possible environmental contamination; site reconnaissance through a site walk of the property; interviews with current owners and occupants of the property, as well as with appropriate government agency representatives; and an evaluation of the evidence developed during the site assessment presented in a written report to the individual ordering the performance of the Phase I.

Significant Assumptions

None

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[4] *op cit.*, p. 6

Limitations and Exceptions of Assessment

Consistent with customary practice and the ASTM standard, this Phase I did not include a specific evaluation of the potential presence of asbestos, radon, lead-based paint, lead in drinking water, or fungus/mold.

Any sketch appearing in or attached to this report, or any statement of dimensions, capacities, quantities or distances, are approximate and are included to assist the reader in visualizing the property. No survey of the property has been made as part of this Phase I assessment. W&K assumes that there are no hidden, unapparent or latent conditions or defects in or of the property, subsoil, or structures, other than those noted in this report. No responsibility for such conditions or for their repair is assumed. Information, estimates and opinions furnished to W&K and contained in this report were furnished from sources considered reliable and believed to be true and correct. However, no independent investigation as to such matters has been made, and W&K assumes no further responsibility for their accuracy.

A Phase I Environmental Site Assessment is not an audit of a facility's compliance with applicable environmental, health and safety standards. Although such a compliance audit may sometimes be useful in connection with the acquisition of a commercial or industrial enterprise, it involves a different approach as well as higher levels of scrutiny and effort than those involved in a Phase I scope of work.

Special Terms and Conditions

None

User Reliance

An environmental professional is not required to verify independently the information provided but may rely on information provided unless he or she has *actual knowledge* that certain information is incorrect or unless it is *obvious* that certain information is incorrect based on other information obtained in the Phase I Environmental site assessment or otherwise actually known to the *environmental professional.*

II. SITE DESCRIPTION

Location and Legal Description

The SITE consists of the DrVry University located at 22801 Roscoe Boulevard in community of West Hills in the City of Los Angeles, California 91739. The SITE is located on approximately 15.25 acres of land and 106,190 square feet of building and consists of Parcel A with APN number of: 2005-002-001 in the City of Los Angeles, County of Los Angeles, California.

A topographic map is provided in Exhibit A.

Site and Vicinity General Characteristics

Fallbrook Avenue is to the east and adjoining to the SITE, Roscoe Boulevard is to the south and adjoining to the SITE, residential development is to the west and adjoining to the SITE and West Hills Corp Pointe commercial center is to the north and adjoining to the SITE. Residential developments are located along the east side of Fallbrook Avenue and the south side of Roscoe Boulevard.

Current Use of Property

The SITE is currently occupied by DeVry University a computer training school and the adjoining parking lots.

Site Structures, Roads and Other Improvements

The SITE is currently occupied by DeVry University, a two-story 106,000 square foot building on approximately 15.25 acres of land with several parking lots. West Hills Corp Pointe commercial center is to the north, Fallbrook Avenue is to the east, Roscoe Boulevard is to the south and residential development is to the west.

Current Uses of Adjoining Properties

At present, West Hills Corp Pointe commercial center is to the north with the remainder of the surrounding area predominately residential development. West Hills Corp. Pointe used to be the Hughes Missile System Company complex.

Site Plan

A site plan sketch is included in Exhibit B showing the general layout of the properties.

III. USER PROVIDED INFORMATION

Title Records

No current title records were requested nor provided to Winzler & Kelly Consulting Engineers.

Environmental Liens or Activity and Use Limitations

Mr. Kenneth Katich of Trammell Crow Company the representative of MEPT West Hills, LLC, the potential buyer reported that to the best of their knowledge, there are no pending, threatened or past litigation, administrative proceedings, liens, or notices from any governmental entity regarding possible violation of environmental laws or possible liability regarding hazardous substances or petroleum products.

Specialized Knowledge

If the *user* is aware of any specialized knowledge or experience that is material to *recognized environmental conditions* in connection with the property, it is the user's responsibility to communicate any information based on such specialized knowledge or experience to the *environmental professional.* No specialized knowledge was reported to Winzler & Kelly.

Valuation Reduction for Environmental Issues

No reduction in value to compensate for environmental issues is known to the Unmack Corporation.

Owner, Property Manager, and Occupant Information

DeVry University is the current owner.

Reason for Performing Phase I

The Phase I Environmental Site Assessment was performed to investigate the site for potential purchase.

Previous Environmental Investigations

There have been numerous environmental investigations of the SITE which was included in the Hughes Missile Systems Company site. Unmack Corp provided Winzler and Kelly with a copy of several reports including the following:

1. *Technical Memorandum Records Review and Limited Site Investigation* performed by Earth Tech, November 28, 1994
2. *Environmental Assessment* performed by Environmental Planning Associates, Inc. August 15, 1996

3. *Traffic Impact Study* performed by Environmental Planning Associates, Inc. August 15, 1996
4. *Report of Geotechnical Investigation* performed by Law Crandall February 6, 1997.
5. *Site Assessment* performed by Fluor Daniel GTI September 2, 1998.

The conclusions and recommendations of these reports are as follows:

1. *Technical Memorandum Records Review and Limited Site Investigation* performed by Earth Tech, November 28, 1994

This report reviewed various records that dealt with the buildings associated with the Hughes Missile Systems Company since the DeVry building was not built until 1999. The impact of the Hughes facility on the subject SITE is the possible groundwater contamination from the previous activities at the Hughes facility. According to records reviewed by Earth Tech at the Los Angeles Regional Water Quality Control Board (LARWQCB) groundwater monitoring wells were installed throughout the Hughes property and the Subject SITE and Quarterly groundwater monitoring was ongoing since 1990.

2. *Environmental Assessment* performed by Environmental Planning Associates, Inc. August 15, 1996.

This report appears to be a documentation of the impact on the surrounding area if the DeVry University site is built.

3. *Traffic Impact Study* performed by Environmental Planning Associates, Inc. August 15, 1996

This report appears to be a documentation of the impact on the surrounding streets and traffic flow if the DeVry University site is built.

4. *Report of Geotechnical Investigation* performed by Law Crandall February 6, 1997.

This report is of the geotechnical investigation for the proposed DeVry facility building. This report dealt with geotechnical aspects of construction of the subject SITE.

5. *Site Assessment* performed by Fluor Daniel GTI September 2, 1998.

This report dealt with additional sampling and analysis of the groundwater monitoring, CM-10 which is the nearest groundwater monitoring well. In previous groundwater monitoring events Freon 11 was found in this groundwater monitoring well. Fluor Daniel GTI's recommendation was to continue quarterly groundwater monitoring until the concentrations of Freon 11 become less than the State Maximum Contaminant Level (MCL) for Freon 11 which is 150 µg/L. Part of this report is included in Exhibit I.

IV. RECORDS REVIEW

Standard Environmental Record Sources

W&K contracted with Environmental Data Resources, Inc. (EDR) to review databases constructed by federal, state, and local regulatory agencies. This review was designed to identify facilities and properties recently or currently under investigation for environmental contamination within a specific radius of the site. Additionally, this search noted any reported hazardous waste sites, landfills, Superfund sites, or businesses generating or treating hazardous wastes within the radius area. Finally, records of spills and other types of releases of hazardous materials were reviewed for properties within a smaller radius.

W&K does not assert to the completeness or accuracy of the database report. Our review is therefore only as current and accurate as that given in the database report, and this may not represent all known or potential hazardous waste or contaminated sites. Further, there may be errors in the database information reported for a site resulting from a number of different operations involved in processing the search. These errors could result in a site being included in the database due to a similar street name as a street within the search radius, when in fact the site is outside the search distance for the report. Additionally, a site within the search radius may be omitted resulting from errors in the data entry phase of the search process. While W&K periodically reviews the EDR Information database report against another leading vendor's database report for the same site to ensure quality assurance and control, the accuracy and completeness of each report cannot be guaranteed by W&K. *What follows is an interpretation of this information, based on a careful evaluation of the database report, a USGS topographical map, an area street map, knowledge of the region, and professional judgment about potential environmental conditions.* A complete copy of the regulatory agency database search report is included with this report as Exhibit E in the Appendices. The Site Information Map, contained in the database report, illustrate the locations of the site relative to the listed properties that are discussed and reviewed in the following section.

In each case, the radius distance was chosen on the basis of the potential hazards that identified neighboring properties could pose to the SITE, the type of information provided, and the extent of overlap with other, more extensive databases. The resulting database search provided information that meets or exceeds the ASTM requirements. The date of the most recent update for each database is noted parenthetically below, following a description of the database. The name, address, status, and distance from subject site for each site identified by the database are also given.

The results are organized by listing sites, which were identified on a particular database. Since some of the sites appear on more than one database, these sites may be listed more than once.

These sites are listed according to closest proximity relative to the subject site. Further, information on the topographic gradient relative to the subject site is given to aid in the assessment of potential impact to the subject site from groundwater contamination. This information is based on the assumption, as explained in the section on hydrogeology, that the

direction of groundwater flow in the shallow groundwater aquifer generally follows topography. Also, the database report site number is noted parenthetically.

TABLE I	
REGULATORY DATABASES per ASTM 1527-00	
Federal Data Bases	**Search Radius**
National Priorities List (NPL)	One Mile
Proposed NPL	One Mile
Delisted NPL	One Mile
NPL Recovery	Target Property
Comprehensive Environmental Responsibility, Compensation and Liability Information System (CERCLIS)	One-Half Mile
No Further Remedial Action Planned (CERCLIS-NFRAP)	One-Half Mile
Corrective Action Reports (CORRACTS)	One Mile
Resource Conservation and Recovery Information System Transfer, Storage and Disposal Facilities (RCRA TSD)	One-Half Mile
RCRIS Small Quantity Generator (SQG)	One-Quarter Mile
RCRIS Large Quantity Generator (LQG)	One-Quarter Mile
Emergency Response Notification System (ERNS)	Target Property
Facility Index System (FINDS)	Target Property
Hazardous Materials Information Reporting System (HMIRS)	Target Property
Engineering Controls Sites List (US ENG CONTROLS)	One-Half Mile
Sites with Institutional Controls (US INST CONTROLS)	One-Half Mile
Department of Defense Sites (DOD)	One Mile
Formerly Used Defense Sites (FUDS)	One Mile
Superfund (CERCLA) Consent Decrees (CONSENT)	One Mile
A Listing of Brownfields Sites (US BROWNFIELDS)	One-Half Mile
Record of Decision (ROD)	One Mile
Uranium Mill Tailings Sites (UMTRA)	One-Half Mile
Open Dump Inventory (ODI)	One-Half Mile
Toxic Chemical Release Inventory System (TRIS)	Target Property
Toxic Substances Control Act (TSCA)	Target Property
Federal Insecticide, Fungicide & Rodenticide Act (FIFRA/TSCA) Tracking System (FTTS)	Target Property
Section 7 Tracking System (SSTS)	Target Property
PCB Activity Database System (PADS)	Target Property
Material Licensing Tracking System (MLTS)	Target Property
Mines Master Index File (MINES)	One-Quarter Mile
Facility Index System (FINDS)	Target Property
RCRA Administrative Action Tracking System (RAATS)	Target Property
STATE DATA BASES	**Search Radius**
Annual Workplan Sites (AWS)	One Mile
Calsites Database (CAL-SITES)	One Mile
Toxic Pits Cleanup Act Sites (TOXIC PITS)	One Mile
Bond Expenditure Plan (CA BOND EXP. PLAN)	One Mile
No Further Action Determination (NFA)	One-Quarter Mile
Properties Needing Further Action (NFE)	One-Quarter Mile
Unconfirmed Properties Referred To Another Agency (REF)	One-Quarter Mile
School Property Evaluation Program (SCH)	One-Quarter Mile
State Landfill (SWIS)	One-Half Mile
Waste Discharge System (CA WSD)	Target Property
Waste Management Unit Database (WMUDS/SWAT)	One-Half Mile

"Cortese" Hazardous Waste Substances Sites List (CORTESE)	One-Half Mile
Geotracker's Leaking Underground Fuel Tank Report (LUST)	One-Half Mile
Statewide SLIC Cases(SLIC)	One-Half Mile
Active UST Facilities (UST)	One-Quarter Mile
Facility Inventory Database (CA FID UST)	One-Quarter Mile
Hazardous Substance Storage Container Database (HIST UST)	One-Quarter Mile
Recycler Database (SWRCY)	One-Half Mile
Aboveground Petroleum Storage Tank Facilities (AST)	One-Quarter Mile
SWEEPS UST Listing (SWEEPS UST)	One-Quarter Mile
California Hazardous Material Incident Report System (CHMIRS)	Target Property
Proposition 65 Records (NOTIFY 65)	One Mile
Deed Restriction Listing (DEED)	One-Half Mile
Voluntary Cleanup Program Properties (VCP)	One-Half Mile
Cleaner Facilities (CLEANERS)	One-Quarter Mile
Well Investigation Program Case List (WIP)	One-Quarter Mile
San Diego County Hazardous Materials Management Division Database	Target Property
Facility and Manifest Data (HAZNET)	Target Property
Emissions Inventory Data (EMI)	Target Property
TRIBAL RECORDS	**Search Radius**
Indian Reservations (INDIAN RESERV)	One Mile
Leaking Underground Storage Tanks on Indian Land (INDIAN LUST)	One-Half Mile
Underground Storage Tanks on Indian Land (INDIAN UST)	One-Quarter Mile
EDR PROPRIETARY HISTORICAL DATABASES	**Search Radius**
Gas Stations/Dry Cleaners	One-Quarter Mile
Coal Gas	One Mile

Subject Property

The database review indicates that at this time, the SITE is not known to have released hazardous substances, or to currently be under investigation by a state or federal environmental regulatory agency, or to have been a facility involved in generating, treating, or disposing of hazardous waste onsite, or to have stored or used hazardous materials.

Adjoining Properties

The database review indicates that, at this time, there are two properties immediately adjoining the site that are listed as being identified or under investigation by a state or federal environmental regulatory agency, or to have been a facility involved in generating, treating, or disposing of hazardous wastes onsite. In addition to these two sites there are two other sites listed.

Table: AREA WIDE REGULATORY CASES

Site name, address & ID number	*Database(s) & Status*	*Distance & Direct from Subject Site*	*Risk*
Hughes Aircraft Company (Map ID #C9) 8433 Fallbrook Avenue	CERCLIS-NFRAP: No Further Action CORRACTS: RCRA corrective action–low priority RCRA Info: RCRA TSDF closed CORTESE: Cal-EPA listing of leaking UST LUST: solvents –Remedial Action Underway	<0.125 mile north; up gradient Adjoining northern site	Low

Table: AREA WIDE REGULATORY CASES			
Site name, address & ID number	***Database(s) & Status***	***Distance & Direct from Subject Site***	***Risk***
Quest Diagnostics (Map ID B6) 8401 & 8403 Fallbrook Avenue	RCRA Info: Large Quantity Generator; no violations found	<0.125 mile northeast; up gradient	Low
Lakeview Cleaners (Map ID 1) 22736 Roscoe Blvd.	RCRA Info: Small Quantity Generator-No violations found	0.125-0.25 mile southeast; down gradient	Low
LA Fire Station 106 (Map ID A3) 23004 Roscoe Blvd.	RCRA Info: Small Quantity Generator-No violations found HAZNET: Asbestos-containing waste LUST: Diesel- soil only affected	0.125-0.25 mile west; down gradient	Low

Orphan Sites

Two sites were listed as "orphan sites," in other words, there was a lack of available information in the agency databases to precisely identify the site or its location relative to the subject site, other than its shared zip code or city name. However, upon closer review, all sites with open agency files were located beyond the radius search distance from the subject site.

Summary of Database Review

The review of regulatory agency database lists indicates that at this time, the SITE is not known to have released hazardous substances, or to currently be under investigation by a state or federal environmental regulatory agency, or to have been a facility involved in generating, treating, or disposing of hazardous waste onsite, or to have stored or used hazardous materials.

There are two adjoining property: Hughes Aircraft Company located at 8433 Fallbrook Avenue is listed on the CERCLIS-NFRAP list as a site that has been removed and archived from the inventory of CERCLIS sites and the EPA has determined no further action for this site. It is also listed on several other lists including: CORRACTS as a RCRA site with a low corrective action priority; as a RCRA Large Quantity Generator and as a Treatment, Storage, Disposal Facility (TSDF) both of which are now closed; as a LUST site from the numerous underground storage tanks that had leaked but now have been removed with groundwater monitoring wells in place. The second adjoining site is Quest Diagnostics located at 8401 and 8403 Fallbrook Avenue and is listed as a large quantity generator with no violations.

Two other properties were listed: Los Angeles Fire Station #106 located at 23004 Roscoe Boulevard. is listed as a Small Quantity Generator of hazardous waste with the waste being asbestos-containing materials that had been removed and it is listed on the LUST list as a site with a leaking underground storage tank that leaked diesel fuel but only affected the soil. The second site listed is the Lakeview cleaners located at 22736 Roscoe Boulevard is listed as a RCRA Small Quantity Generator of hazardous waste from dry cleaning

Physical Setting

General property information and property use are summarized in Table 2. Refer to the Vicinity Map (included in Exhibit A).

TABLE 2	
Summary of Property Information	
Topographic Map:	Canoga Park/Calabasas
Topography:	Slopes to the southeast at approximately 25 feet per mile.
General Location:	The northwest corner of Roscoe Boulevard and Fallbrook Avenue in West Hills, California
Assessor's Parcel Numbers:	2005-002-001
Regional Groundwater Flow Direction:	South / southeast
Existing use:	DeVry University computer training school

An Assessor's Parcel Map is included in Exhibit H.

Site Geology

Regionally, the SITE is mapped as being underlain by primarily consolidated bedrock of the Miocene Modelo Formation (Geological Map of California). This formation consists of tan to grayish siltstone, clayey siltstone and shale with minor interbedded diatomaceous shale. The SITE is located upon recent alluvium and stream bed deposits that make up the valley fill and outwash from the nearby surrounding hills and mountains. The Modelo Formation is believed to be present below the valley fill. Ground water has historically been used for private and agricultural purposes.

Site Geohydrology

The SITE is located within the Central Basin of the Los Angeles County Groundwater Basin as shown in the Hydrologic Report of the Los Angeles County Department of Public Works (1989). The SITE is located within the San Fernando Ground Water Basin of the South Coast Hydrologic Region as shown in the Hydrologic Report of the State of California Bulletin No. 118 (2003). The Chatsworth Creek Channel is located approximately one-quarter mile to the west of the SITE.

Groundwater Well Information

According to the most recent available well data records that were obtained on July 25, 2006 from Carnie with the Los Angeles County Department of Public Works (LACDPW), Hydraulic/Water Conservation Division, the closest active groundwater well to the SITE, Well # 4699, is located southeast at Valerio Street and Glade Avenue, which is approximately one and one-half miles southeast of the SITE. The depth to groundwater at this well was last recorded on May 8, 2006 as being 21.3 feet below ground surface. The ground surface elevation at that location is 807.7. Therefore, the water surface level is at 786.4 feet above Mean Sea Level. The shallow groundwater gradient would be expected to follow the local topographical gradient, which is to the southeast.

The depth to groundwater recorded in the well data is *generally not* the first encountered groundwater. It is the depth to the main potable, or deep, aquifer. As a general rule, topography is often indicative of the groundwater flow direction for the perched aquifer, or the first encountered groundwater. Local groundwater contamination usually affects this shallow-level aquifer.

In the evaluation of the regulatory records, the hydrogeologic conditions of a listed property relative to the subject site is given to aid in the evaluation of the potential hazard or

threat to the subject site of groundwater contamination from the listed site. In this evaluation, it is assumed that the shallow-level aquifer follows topography. Reference to the hydrogeologic conditions is given by stating the relationship of the listed site, either up-, down-, or cross-gradient relative to the site. There is a greater threat of migration of contaminated groundwater when the listed site is up-gradient versus down or cross-gradient from the site. Further, the threat decreases with distance from the listed site.

Historical Use Information on the Property

Building Records

A request for information with regards to the building records was made at the City of Los Angeles Building and Safety. These records showed the following highlights:

Date	Type of Permit	Activity	Owner
01/10/1952	Building	Erect a new single family house	Mr. & Mrs. Thomas R. Dempsey
07/16/1998	Building	Demo dwelling and garage	DeVry Inc.
08/06/1998	Building	Erect a school building	DeVry Inc.

Copies of some of these permits are included as Exhibit D.

Aerial Photo Review

Aerial photos of the site were reviewed for the period from 1928 through 2002 at the collection of Environmental Date Resources (EDR). Highlights include:

Date	Site Description
1928	The SITE consists of agricultural land. The main street of Roscoe Boulevard is in place A creek appears to in place west of the SITE.
1938	The SITE is unchanged; Fallbrook Avenue is in place to the east.
1947	Same as previous.
1956	Same as previous
1965	The SITE is now graded vacant land.
1976	Same as previous
1989	The eastern side of the SITE is now a baseball field. The remainder of the SITE is still vacant.
1994	Same as previous
2002	The SITE has the current building and parking lots on it.

Sanborn Insurance Maps

Historical Sanborn fire insurance maps were not available for the SITE or the surrounding area in the EDR collection for the period covering the years 1894 – 1970.

Division of Oil, Gas and Geothermal Resources Records

A review of California Department of Conservation, Division of Oil, Gas and Geothermal Resources Map Website indicates that there were no oil wells located within one

mile of the SITE. However, it is possible that wildcat drilling may have occurred in the area in the past.

Historical Use Information on Adjoining Properties

Aerial photos of the site were reviewed for the period from 1938 through 2002 at the collection of Environmental Date Resources (EDR). Highlights include:

Date	Surrounding Site Description
1928	The surrounding area consists of agricultural land. The main street of Roscoe Boulevard is in place A creek appears to in place west of the SITE. The Chatsworth Reservoir is visible to the far north.
1938	Same as previous. Fallbrook Avenue is now in place to the east.
1947	Same as previous. There is a road in place that surrounds the northern property.
1956	The northern property now has a small building in the center of it and another building to the east of the center building. The surrounding area is still agricultural land.
1965	The northern adjoining property (Hughes Missile Systems Company) is now built. There is residential development to the south and east of the SITE.
1976	Same as previous
1989	Same as previous with heavy residential development in all directions.
1994	Same as previous
2002	Same as previous

Sanborn Insurance Maps

Historical Sanborn fire insurance maps were not available for the SITE or the surrounding area in the EDR collection for the period covering the years 1894 – 1970.

Summary of Historical Use Information

Site history information was obtained from aerial photographs and City of Los Angeles Building and Safety permits. The aerial photographs indicate the SITE had been agricultural land from at least 1928 until 1989 when the eastern portion was a baseball field. In 1999 the current building and parking lots were constructed.

Historical Use Information Sources

- City of Los Angeles Building & Safety Department, July 25, 2006.
- EDR Aerial Photography, aerial photos from 1928-2002, reviewed July 26, 2006.

Environmental Setting Sources

- EDR Historical U.S. Geological Survey, Canoga Park, California quadrangle, 1967.
- California Department of Water Resources. *State of California Bulletin 118 (2003).*
- Assessor's Parcel Map

V. SITE RECONNAISSANCE

Methodology and Limiting Conditions

The methodology used to observe the site was to walk the entire site, both interior and exterior areas, and to observe the adjoining properties from public areas, i.e., sidewalks and streets.

General Site Setting

Current Use of the Property

Ms. Candice M. Cassato of Winzler and Kelly performed a site walk investigation of the site on the morning of July 24, 2006. The weather was sunny and hot. The temperature was in the low 90s (F). Access to the site was unimpeded.

The site is currently occupied by a 106,190 square feet two-story steel and glass building on 15.25 acres of land which is primarily asphalt-paved parking lots. The building is currently occupied by DeVry University a computer training school. The SITE is bounded by Fallbrook Avenue on the east, Roscoe Boulevard on the south, residential development to the west and West Hills Corp Pointe commercial development (formerly Hughes Missile Systems Company) on the north. Photographs taken during the site walk are included as Exhibit C.

Past Use of the Property

The aerial photographs indicate the SITE had been agricultural land from at least 1928 until 1989 when the eastern portion was a baseball field. In 1999 the current building and parking lots were constructed.

Current Uses of Adjoining Properties

Table 3 summarizes the current roads and site uses observed during the site reconnaissance.

TABLE 3
Adjacent Streets and Property Use

Direction	Adjacent Street	Adjacent Property Use
North	None	West Hills Corp Pointe
East	Fallbrook Avenue	Residential
South	Roscoe Boulevard	Residential
West	None	Residential

Past Use of Adjoining Properties

Based on the aerial photos and other information, the adjoining properties had been agricultural land from 1928 to 1965.

Current or Past Uses in the Surrounding Area

Generally the area has been agricultural land from at least 1928 to 1965.

TABLE 4 Summary of Site Reconnaissance		
Feature	**Observed**	**Not Observed**
Structures (existing)	X	
Evidence of past uses		X
Hazardous Substances and/or petroleum products (including containers)	X	
Aboveground storage tanks (ASTs)		X
Underground storage tanks (USTs) or evidence of USTs		X
Strong, pungent, or noxious odors		X
Pools of liquid likely to be hazardous materials or petroleum products		X
Drums / Areas of Storage containers	X	
Unidentified substance containers		X
Pad-mounted transformer/Pole-mounted transformer	X	
Subsurface hydraulic equipment		X
Heating/ventilation/air-conditioning (HVAC)	X	
Stains or corrosion on floors, walls, or ceilings		X
Floor drains and sumps		X
Pits, ponds, or lagoons		X
Stained soil and or/pavement		X
Stressed vegetation		X
Waste or wastewater discharges to surface or surface waters on subject site (including stormwater)		X
Wells (irrigation, domestic, dry, injection, abandoned, monitoring wells)	X	
Utilities	X	
Petroleum and/or natural gas pipelines		X
Suspect asbestos containing building materials	X	
Suspect lead-based painted surfaces and/or lead-containing substances	X	
Septic systems		X

General Description of Structures

The site is currently occupied by a 106,190 square feet two-story steel and glass building on 15.25 acres of land which is primarily asphalt-paved parking lots. The building is currently occupied by DeVry University a computer training school. The 1st floor consists primarily of classrooms with a cafeteria and the 2nd floor is offices.

Roads

Fallbrook Avenue is directly east and adjoining to the SITE. Roscoe Boulevard is directly south and adjoining to the SITE. Valley Circle Boulevard is approximately two miles to the west. The Chatsworth Reservoir is to the north. All streets are within the community of West hills in the City of Los Angeles, California.

Potable Water Supply

The City of Los Angeles Department of Water and Power (LACDWP) is the provider of potable water for the site and surrounding area.

Interior and Exterior Observations

Hazardous Substances and Petroleum Products in Connection with Identified Uses

There is one diesel powered emergency generator observed in the pump room on the 1st floor. No stains or spills were observed. There are two other battery operated emergency

backup lighting systems. No stains or spills were observed. The maintenance room had several five gallon paint containers and other small quantities of lubricating oils and maintenance supplies. The room is kept locked. There is a locked cleaning supply room; the cleaning itself is performed by an outside contractor. The HVAC equipment is located on the roof; all areas were observed to be clean and free of stains or spills at the time of the SITE visit.

PCBs

Transformers, elevators, hydraulic lifts, and fluorescent lighting ballasts are potential sources of PCB-containing insulating fluids. One elevator was observed inside the building. It is a hydraulic elevator, however, no stains or spills were observed in the elevator room. One LACDWP pad-mounted transformer was observed on the eastern side of the building. No stains or spills were observed during the SITE visit.

Interior Observations

Hazardous Materials, Hazardous Waste and Petroleum Products

There is one diesel powered emergency generator observed in the pump room on the 1st floor. No stains or spills were observed. There are two other battery operated emergency backup lighting systems. No stains or spills were observed. The maintenance room had several five gallon paint containers and other small quantities of lubricating oils and maintenance supplies. The room is kept locked. There is a locked cleaning supply room; the cleaning itself is performed by an outside contractor.

Asbestos-Containing Materials

Suspect asbestos-containing building materials were observed throughout the building. Materials included wallboard systems, various colored 12" x 12" resilient vinyl floor tiles, vinyl baseboard, 2' x 4' drop-in ceiling panels, carpet mastic and roofing materials. Based on the age of construction, 1999, the potential for asbestos-containing building materials is low.

Lead-Based Paints

No peeling paint was observed either inside or outside the building. Based on the age of construction, 1999, the potential for lead-based paints is low.

PCBs

Transformers, elevators, hydraulic lifts, and fluorescent lighting ballasts are potential sources of PCB-containing insulating fluids. One elevator was observed inside the building. It is a hydraulic elevator, however, no stains or spills were observed in the elevator room. One LACDWP pad-mounted transformer was observed on the eastern side of the building. No stains or spills were observed during the SITE visit.

Exterior Observations

Wells

There were three groundwater monitoring wells observed in the parking lots. According to the last site assessment report performed in 1998, these wells were to be monitored on a quarterly basis.

VI. INTERVIEWS

Interview With Owner

Mr. Kenneth Katich, the Project Manager for Trammell Crow Company, was interviewed on July 24, 2006. Mr. Katich has been associated with the SITE for more than five years with the SITE. Mr. Katich answered the Transaction questionnaire which is included in Exhibit G.

Proceedings Involving the Property

Mr. Katich reported that to the best of his knowledge, there are no pending, threatened or past litigation, administrative proceedings, liens, or notices from any governmental entity regarding possible violation of environmental laws or possible liability regarding hazardous substances or petroleum products.

Previous Environmental Investigations

There were five previous Environmental Reports given to W&K and are detailed in Section III.

Interview with Site Manager

Mr. Katich is the on-site manger of the SITE.

Interviews with Local Government Officials

Los Angeles Regional Water Quality Control Board (LARWQCB)

A written request for information was faxed to the Los Angeles Regional Water Quality Control Board with regards to the groundwater monitoring wells observed on the SITE. To date, there has been no response from LARWQCB. Should any negative environmental information be obtained from any files the LARWQCB might have, an addendum letter will be issued to the client from W&K.

City of Los Angeles Fire Department Hazardous Materials Division

A written request for information was faxed to the City of Los Angeles Fire Department, Hazardous Materials Division with regards to the SITE address. There are no records for the SITE address. The request and response documentation is included in Exhibit G.

City of Los Angeles Fire Department Underground Storage Tank Division

A written request for information was faxed to the City of Los Angeles Fire Department, Underground Storage Tank Division with regards to the SITE address. There are no records for the SITE address. To date, there has been no response from Fire Department. Should any negative environmental information be obtained from any files the Fire Department might have, an addendum letter will be issued to the client from W&K. The request documentation is included in Exhibit G.

VII. CONCLUSIONS AND RECOMMENDATIONS

Conclusions

Winzler & Kelly Consulting Engineers (W&K) was retained by Unmack Corporation to perform a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-00 at the DeVry University located at 22801 Roscoe Boulevard in West Hills, California 91304 herein referred to as the SITE. Any exceptions to, or deletions from, this practice is described in Section I of this report.

This assessment has revealed no evidence of recognized environmental conditions (RECs) in connection with the SITE.

In conclusion, the SITE presents evidence of low environmental risk, stemming from any undocumented underground storage tanks (USTs), underground piping and the former adjoining northern property previously owned and occupied by Hughes Missile System company.

Based on the results of the Phase I Environmental Site Assessment, W&K recommends the following:

- A closure letter should be obtained from the Los Angeles Regional Water Quality Control Board (LARWQCB) regarding the four groundwater monitoring wells located on the SITE if these wells are considered to be a no further action activity.

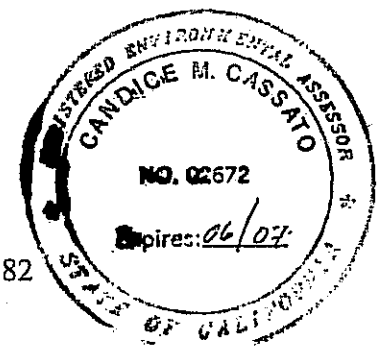
- Prior to any renovation or demolition of the current building, a Hazardous Materials Survey should be performed to determine, if any, hazardous substances such as asbestos-containing substances or lead-based substances are present in the building.

VIII. SIGNATURE AND QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL

Qualifications

Ms. Candice M. Cassato, an Environmental Analyst of W&K, directed the performance and reporting of this Phase I Environmental Site Assessment. Ms. Cassato has performed environmental site assessments and project management since 1989. Ms. Cassato is an experienced auditor, performing evaluations of facilities ranging from office buildings to industrial factories to assess their compliance with all applicable health, safety, and environmental standards. She has conducted audits throughout the western United States. She has performed Phase I Environmental Site Assessments for property transfers and financing, prepared independent reviews of Phase I reports, and managed asbestos surveys. Ms. Cassato is a California Certified Asbestos Consultant and a California Certified Lead-Related Construction Inspector/Assessor.

Signature of Environmental Professional



Report prepared by:

Candice M Cassato

Candice M. Cassato, REA #2672, Certified Asbestos Consultant No. 94-1382
Certified Lead-Related Construction Inspector/Assessor No. I-2817

Report reviewed by:

Michael C Legerski

Michael Legerski, MSIH
Managing Principal

APPENDICES

Exhibit A.	**Topographic Site Map**
Exhibit B.	**Site Plot Plan**
Exhibit C.	**Photographs Taken During Site Walk**
Exhibit D.	**City of Los Angeles Building and Safety permits**
Exhibit E.	**Government Records Data Base Search and Radius Site Map**
Exhibit F.	**Transaction Questionnaire**
Exhibit G.	**City of Los Angeles Fire Dept. Responses**
Exhibit H.	**Assessor's Parcel Map**
Exhibit I.	**Flour Daniel GTI Report**

Exhibit A. Topographic Site Map

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 06/26/2006
Next Scheduled EDR Contact: 09/25/2006
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 916-542-5424
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-4130
Last EDR Contact: 05/08/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Varies

LUST REG 7: Leaking Underground Storage Tank Case Listing

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-346-7491
Last EDR Contact: 05/22/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-346-7491
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Date of Government Version: 04/01/2006
Date Data Arrived at EDR: 04/27/2006
Date Made Active in Reports: 05/26/2006
Number of Days to Update: 29

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 07/07/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 05/15/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-576-2220
Last EDR Contact: 05/22/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 07/10/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SLIC: Statewide SLIC Cases

The Spills, Leaks, Investigations, and Cleanups (SLIC) listings includes unauthorized discharges from spills and leaks, other than from underground storage tanks or other regulated sites.

Date of Government Version: 04/10/2006
Date Data Arrived at EDR: 04/11/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-341-5752
Last EDR Contact: 07/12/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 07/10/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 05/15/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/24/2006
Next Scheduled EDR Contact: 10/23/2006
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 07/06/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 04/06/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 05/31/2006
Date Data Arrived at EDR: 06/01/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 14

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 05/30/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Annually

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 04/10/2006
Date Data Arrived at EDR: 04/11/2006
Date Made Active in Reports: 05/01/2006
Number of Days to Update: 20

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 07/12/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Semi-Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

AST: Aboveground Petroleum Storage Tank Facilities

Registered Aboveground Storage Tanks.

Date of Government Version: 01/30/2006
Date Data Arrived at EDR: 01/30/2006
Date Made Active in Reports: 02/17/2006
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5712
Last EDR Contact: 05/26/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Quarterly

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1980's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 11/30/2005
Date Made Active in Reports: 01/19/2006
Number of Days to Update: 50

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 05/22/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Varies

NOTIFY 65: Proposition 65 Records

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993
Date Data Arrived at EDR: 11/01/1993
Date Made Active in Reports: 11/19/1993
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: No Update Planned

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 04/04/2006
Date Data Arrived at EDR: 04/05/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/06/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Semi-Annually

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 06/06/2006
Date Data Arrived at EDR: 06/07/2006
Date Made Active in Reports: 07/06/2006
Number of Days to Update: 29

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 06/07/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Quarterly

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 04/18/2005
Date Data Arrived at EDR: 04/18/2005
Date Made Active in Reports: 05/06/2005
Number of Days to Update: 18

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 04/30/2006
Date Data Arrived at EDR: 05/04/2006
Date Made Active in Reports: 05/26/2006
Number of Days to Update: 22

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 07/24/2006
Next Scheduled EDR Contact: 10/23/2006
Data Release Frequency: Varies

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 05/17/2006
Date Data Arrived at EDR: 05/17/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 29

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 07/24/2006
Next Scheduled EDR Contact: 10/23/2006
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2003
Date Data Arrived at EDR: 10/11/2005
Date Made Active in Reports: 10/31/2005
Number of Days to Update: 20

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 05/11/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 27

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 07/21/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: Varies

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 05/12/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Semi-Annually

INDIAN LUST: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 09/07/2005
Date Data Arrived at EDR: 09/08/2005
Date Made Active in Reports: 10/31/2005
Number of Days to Update: 53

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Varies

INDIAN LUST: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 03/22/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 22

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 02/20/2006
Next Scheduled EDR Contact: 05/22/2006
Data Release Frequency: Varies

INDIAN UST: Underground Storage Tanks on Indian Land

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 03/22/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 22

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Varies

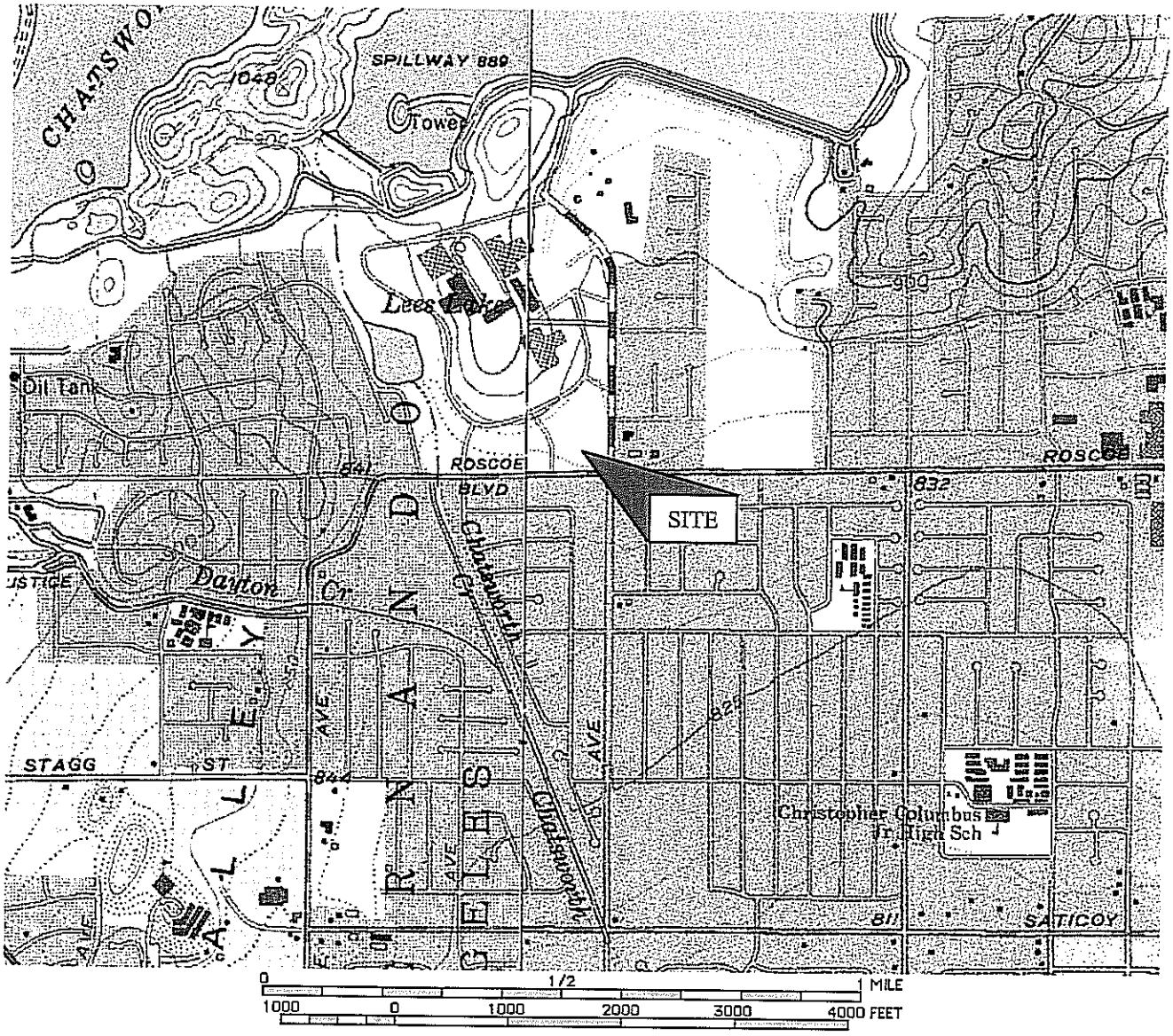


Figure 1: Vicinity Map

WINZLER & KELLY
CONSULTING ENGINEERS

Site Name: DeVry University	Prepared By: Winzler & Kelly Consulting Engineers
Site Address: 22801 Roscoe Blvd., West Hills, CA 91304	Address: 3531 East Miraloma Avenue Anaheim, CA 92806

Exhibit B. Site Plot Plan

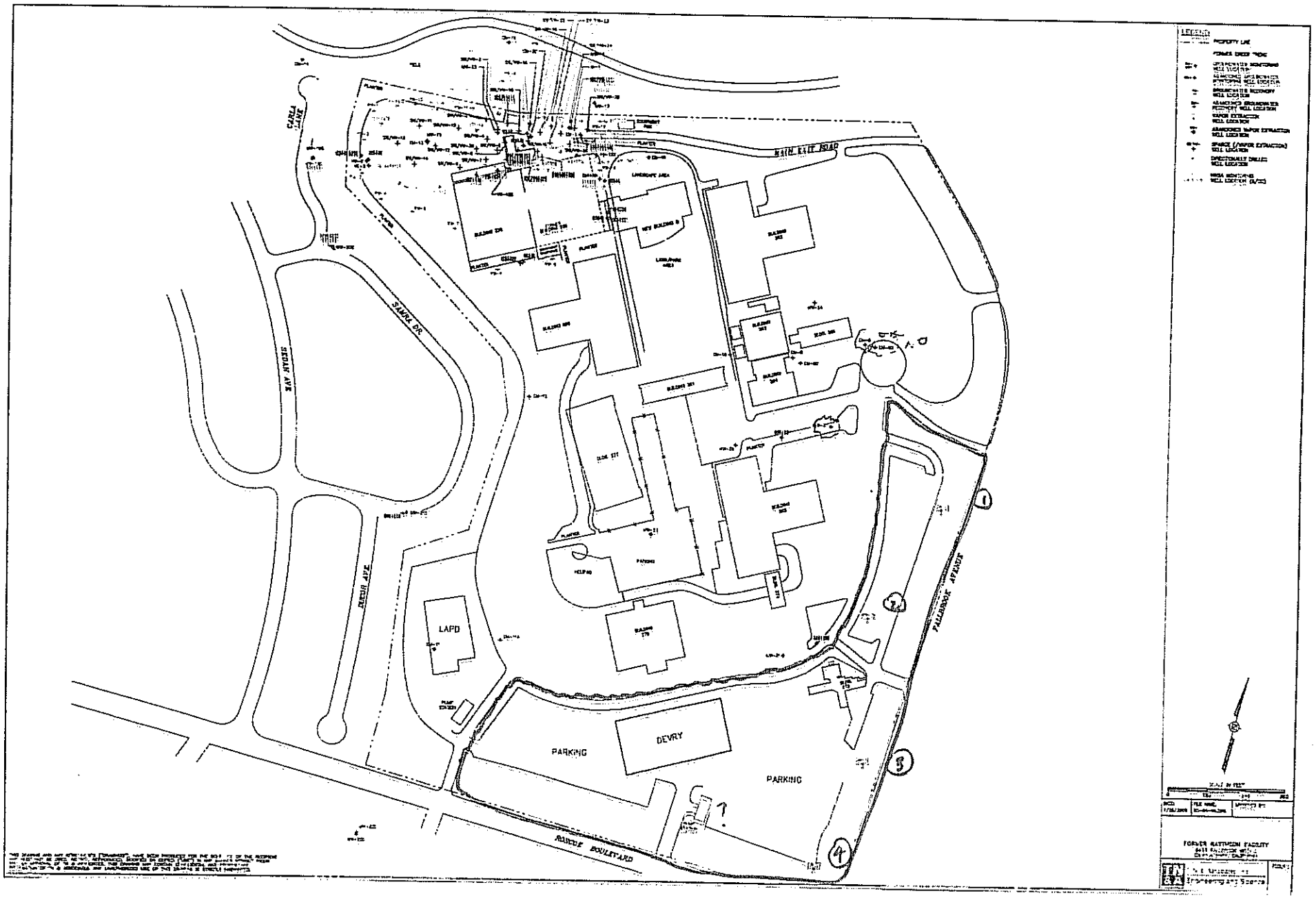

LEGEND
PROPERTY LINE
FORMER GATEWAY FACILITY
CARSON LANE
MAIN GATE ROAD
SAMUEL DR.
MAIN AVE.
ARCOLA AVE.
LAPD
PARKING
DEVRY
PARKING
RUSSELL BOULEVARD
PALLADIUM AVENUE
1
2
3
4

Exhibit C. Photographs Taken During Site Walk



1. View of the front entrance to DeVry University.



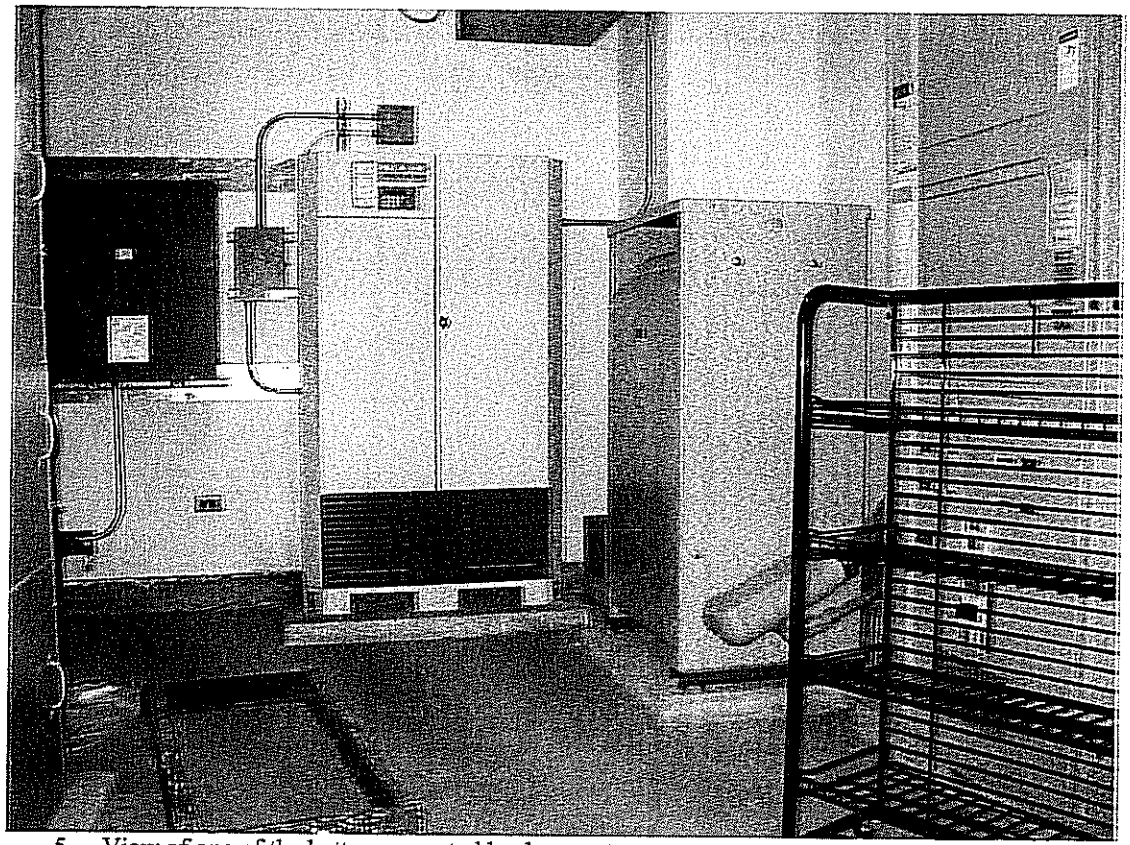
2. View of the eastern side of the front of the SITE building.



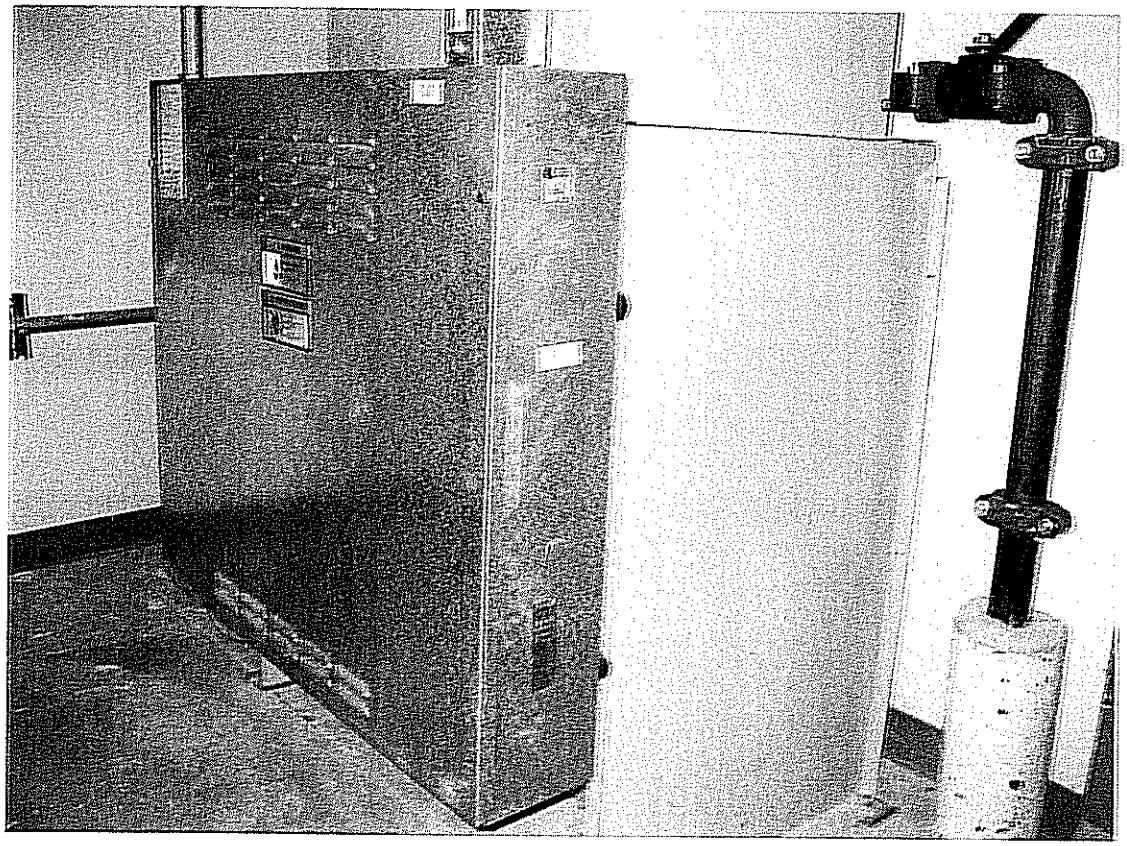
3. View of a typical hallway.



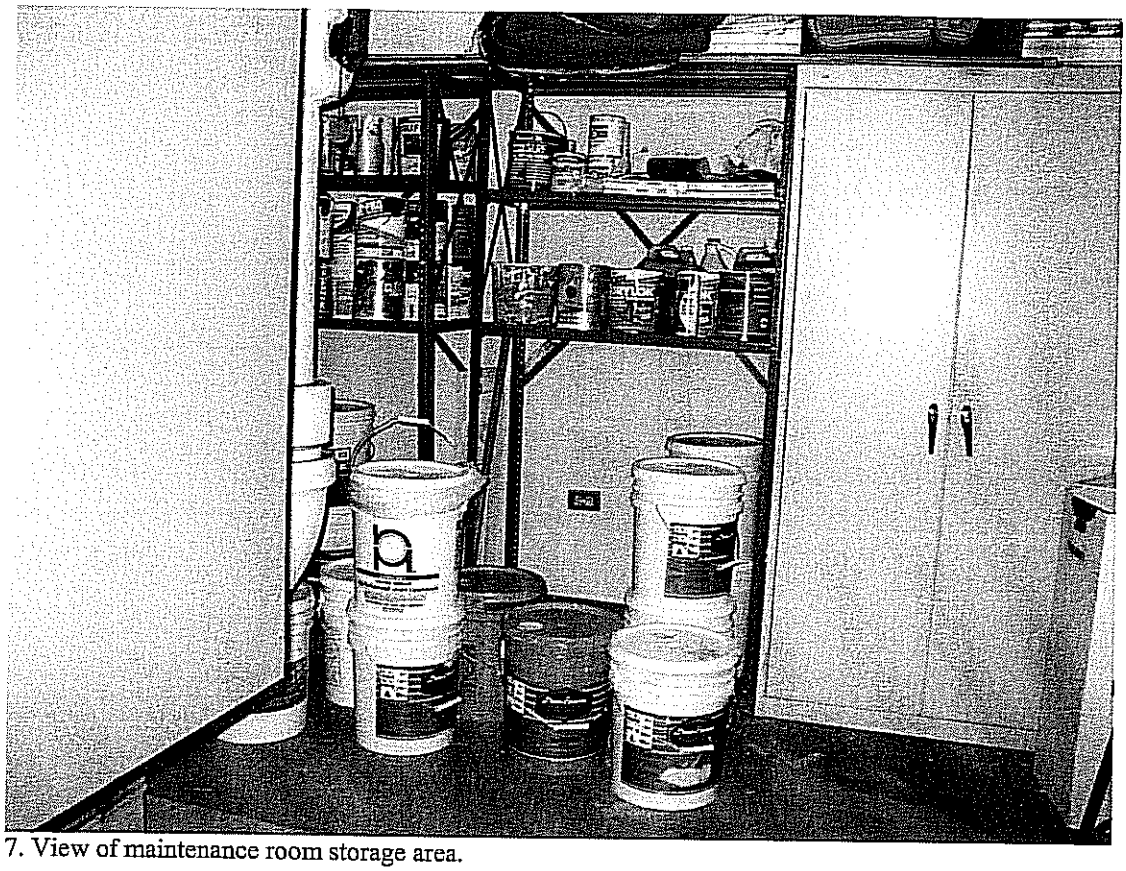
4. View of a typical classroom.



5. View of one of the battery operated backup systems.



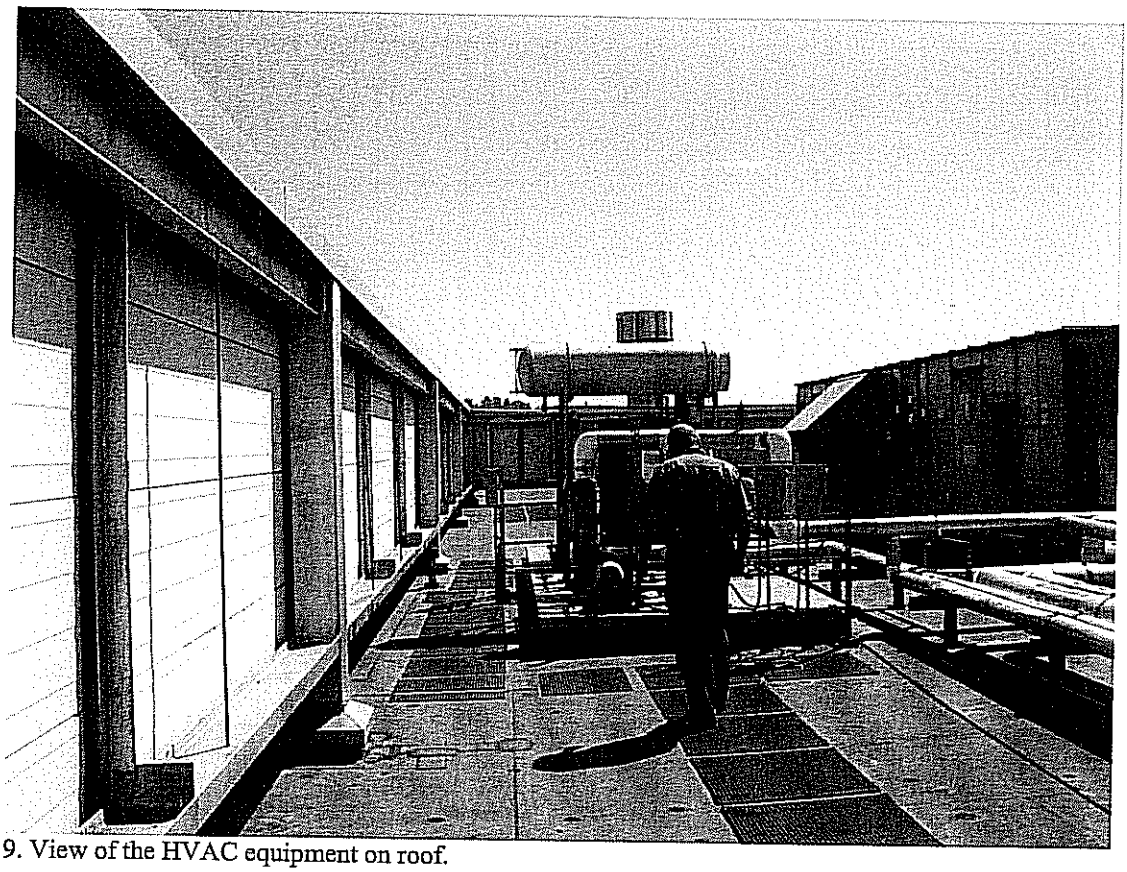
6. View of emergency generator.



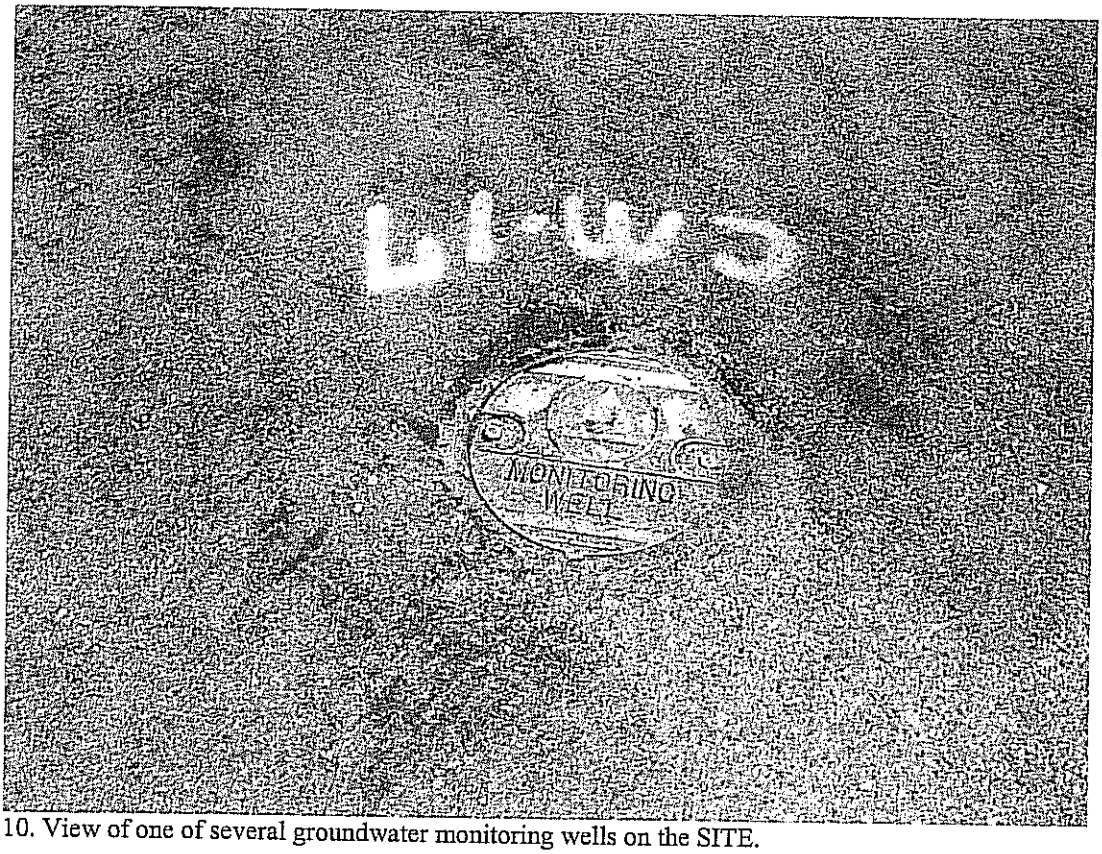
7. View of maintenance room storage area.



8. View of cleaning materials locked storage room.



9. View of the HVAC equipment on roof.



10. View of one of several groundwater monitoring wells on the SITE.

Exhibit D. City of Los Angeles Building & Safety Permits

1

APPLICATION TO ERECT A NEW BUILDING AND FOR A Certificate of Occupancy

Form B-1

CITY OF LOS ANGELES
DEPARTMENT OF BUILDING AND SAFETY
BUILDING DIVISION

Lot No. FOR LEGAL DESCRIPTION SEE APPLICATION 2 OF 5

Tract

Location of Building 22801 ROSCOE BLVD (House Number and Street)

Between what cross streets? JONATHAN + FALLBROOK

Approved by City Engineer

Deputy.

USE INK OR INDELIBLE PENCIL

1. Purpose of building DWELLING # 2 (State: Dwelling, Apartment House, Hotel or other purpose) Families 1 Rooms 4
2. Owner MR & MRS THOMAS R DEMPSEY (Print Name) Phone AR 36556
3. Owner's Address 13151 SUNSET BL P. O. L A
4. Certificated Architect None State License No. Phone
5. Licensed Engineer John E. Mackel State License No. 3701 Phone
6. Contractor Owner State License No. Phone
7. Contractor's Address
8. VALUATION OF PROPOSED WORK (Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electrical wiring and elevator equipment therein or thereon.) J.A.M. 8,500 $ 7000.00
9. State how many buildings NOW on lot and give use of each None (Store, Dwelling, Apartment House, Hotel or other purpose)
10. Size of new building 35 x 46 No. Stories 1 Height to highest point 15 Size lot 88 Acres
11. Material Exterior Walls Frame & Siding Type of Roofing Shakes
12. For Accessory Buildings and similar structures:
    (a) Footing: Width 12 Depth in Ground 12 Width of Wall 6
    (b) Size of Studs 2 x 4 Material of Floor Wood
    (c) Size of Floor Joists 2 x 6 Size of Rafters 2 x 4

I hereby certify that to the best of my knowledge and belief the above application is correct and that this building or construction work will comply with all laws, and that in the doing of the work authorized thereby I will not employ any person in violation of the Labor Code of the State of California relating to Workmen's Compensation Insurance.

Sign here Thomas R Dempsey (Owner or Authorized Agent)

By John E Mackel

DISTRICT OFFICE V. N.

3 of 5

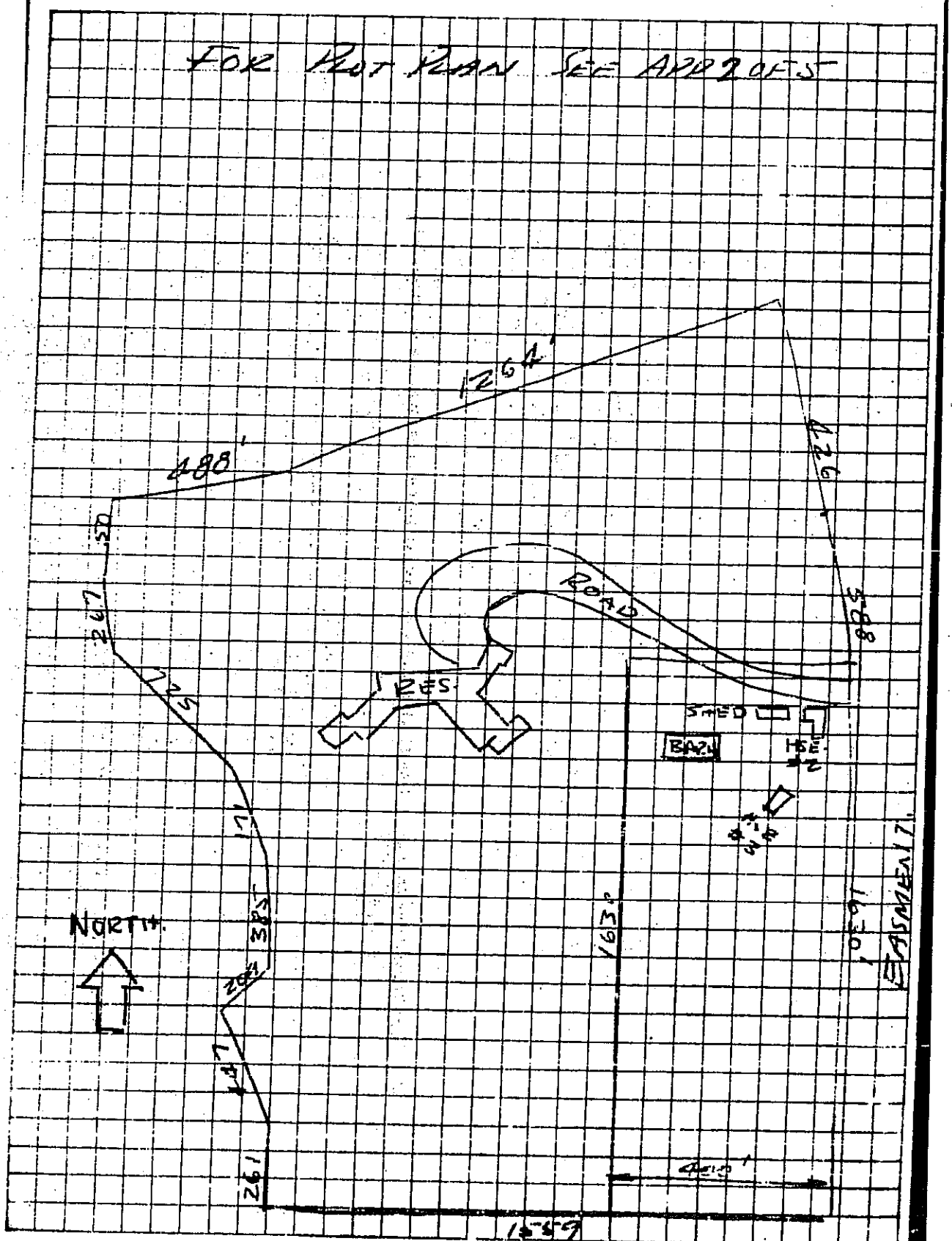
FOR DEPARTMENT USE ONLY

PLAN CHECKING

Valuation $ 52,000	$				Investigation Fee $	
Fee $ 75.00	$				Bldg. Permit Fee $ 27.50	
					Total $	
TYPE V	Maximum No. Occupants	Inside Lot / Corner Lot	Key Lot / Corner Lot Key:	Lot Size Average Irreg	Ft. rear alley / Ft. side alley	Clerk Jo Ann A.M.
GROUP R-1	Plans and Specifications checked J.A.M.	Zone A1	Fire District No.		District Map No. 7510	
New Plans Fee	Correction Verified	Bldg. Line — Ft.	Street Widening — Ft.		Approved for Issuance 4 1957	
Filed with	Plans, Specifications and Application Examined and approved.	Preliminary Inspection	SPRINKLER Specified—Required Valuation Included Yes No		Inspector	Clerk

DO NOT WRITE BELOW THIS LINE

TYPE OF RECEIPT	DATE ISSUED	TRACER NO.	RECEIPT NO.	CODE	FEE PAID
Plan Checking			LA 4723		
Supplemental Plan Checking					
Building Permit	APR 10 '57				


FOR PLOT PLAN SEE APP 2 OF 5
1264'
488'
426'
ROAD
RES.
SHED
BARN
HSE. #2
163'
EASEMENT
16.50'
NORTH
ROSCOE BLVD.

DESCRIPTION OF PROPERTY OWNED
BY T. R. DEMPSEY ON WHICH
TWO HOUSES ARE TO BE LOCATED

Beginning at the westerly terminus of the course given as North 73° 00' East 1400 feet in the deed to the Board of Public Service Commissioners of the city of Los Angeles, recorded in book 43, page 16 of Official Records of said county; thence North 73° 00' East 1264.20 feet along said course to the westerly line of the 25 foot easement as granted to the City of Los Angeles, in the deed recorded in book 11522, page 156 of Official Records of said county; thence South 47° 56' 11" East 426.53 feet along the westerly line of said easement, to the beginning of a curve concave southwesterly having a radius of 703.70 feet; thence southerly on the arc of said curve 588.78 feet, which is the true point of beginning; thence South 0° 0' 10" West 1630.11 feet along said westerly line to the northerly line of Roscoe Boulevard; thence South 89° 03' 20" West 400 feet along said northerly line; thence North 0° 0' 10" East 1630.11 feet; thence North 89° 03' 20" East to the true point of beginning.

(The true point of beginning is 1630.11 feet North 0° 00' 10" East of the northerly line of Roscoe Boulevard.)

14-3473

APPLICATION TO ERECT A NEW BUILDING AND FOR A Certificate of Occupancy

Form B-1

CITY OF LOS ANGELES
DEPARTMENT
OF
BUILDING AND SAFETY
BUILDING DIVISION

No.

ct

ation of Building 2280 Roscoe Bl.
(House Number and Street)

Approved by City Engineer

ween what cross streets? N.W. Cor. Roscoe & Fallbrook

Deputy.

E INK OR INDELIBLE PENCIL

Purpose of building Swimming Pool- Private Families Rooms
(Store, Dwelling, Apartment House, Hotel or other purpose)

Owner T. R. Dempsey Phone
(Print Name)

Owner's Address 2280 Roscoe Bl. P. O.

Certificated Architect None State License No Phone

Licensed Engineeer Willis Albery State License No. 6336 Phone CH 68481

Contractor London Inc. State License No. 372?2 Phone ST 81191

Contractor's Address 5920 Sepulveda Blvd.

VALUATION OF PROPOSED WORK (Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electrical wiring and elevator equipment therein or thereon) $ 3000.00

State how many buildings NOW on lot and give use of each Dwelling & Garage
(Store, Dwelling, Stables, House, Hotel or other purposes)

Size of new building 20', 40' No. Stories Height to highest point Size lot x

Material Exterior Walls Pneumatically Applied Concrete Type of Roofing

Accessory Buildings and similar structures
(a) Footing, Width Depth in Ground Width of Wall
(b) Size of Studs Material of Floor
(c) Size of Floor Joists x Size of Rafters x

I hereby certify that to the best of my knowledge and belief the above application is correct and that this building or construction work will comply with all laws, and that in the doing of the work authorized thereby I will not employ any person in violation of the Labor Code of the State of California relating to Workmen's Compensation Insurance.

Sign here London Inc.
(Owner or Authorized Agent)

By D. O'Kelly

FOR DEPARTMENT USE ONLY

PLAN CHECKING

Valuation $ $
$ $

Investigation Fee $
Bldg. Permit Fee $
Total $ 12.00

TYPE	Map Book No. Dedicated	Existing Lot	Key Lot	Lot Size	Ft. rear alley / Ft. side alley	Clerk
GROUP	Plans and Specifications Checked	Corner Lot	Corner Lot Key No.	Fire District		
			A-1	No.	District Map No. 7510	
No. Plans Rec'd	Correction Verified		Bldg. Line	Street Widening	Application checked and approved	
Fee with	Plans, Specifications and Application received and approved		Ft. Continuous Inspection	Ft. SPRINKLER Sprinkler—Required Valuation Included Yes — No	Clerk Inspector	

DO NOT WRITE BELOW THIS LINE

TYPE OF RECEIPT	DATE ISSUED	TRACER NO. (M)	RECEIPT NO.	CODE	FEE PAID
Plan Checking					

PLOT PLAN
SCALE 1" = 40'-0"

22801 Roscoe Blvd

Application #: **98010 - 10000 - 01185**
Plan Check #: CC07492 Printed: 07/25/06 08:12 AM
Event Code:

Bldg-New
Commercial
Regular Plan Check
Plan Check

City of Los Angeles - Department of Building and Safety

APPLICATION FOR BUILDING PERMIT AND CERTIFICATE OF OCCUPANCY

Issued On: 08/06/1998
Last Status: Permit Finaled
Status Date: 09/16/1999

1. TRACT	BLOCK	LOT(s)	ARB	COUNTY MAP REF #	PARCEL ID # (PIN #)	2. ASSESSOR PARCEL #
PM 7115		LT A		MB 276-1/4	192B097 36	2005 - 002 - 001

3. PARCEL INFORMATION

LADBS Branch Office - VN
Council District - 12
Census Tract - 1132.31
District Map - 192B97
Energy Zone - 9
Fire District - FBZ
Hillside Grading Area - YES
Hillside Ordinance - YES
Lot Size - IRRG
Lot Type - COR
Thomas Brothers Map Grid - 529

ZONE(S): A1-1 /

4. DOCUMENTS

ZA - 15263
ZA - 94-0595
CPC - 20636
CPC - 21216
CPC - 26675
CPC - 87-205
CPC - 9268
AFF - 95-882842

5. CHECKLIST ITEMS

Special Inspect - Anchor Bolts
Special Inspect - Concrete>2.5ksi
Special Inspect - Field Welding
Special Inspect - Grade Beam/Caisson
Special Inspect - Grading:Area>60,000Sqft
Special Inspect - H/S Bolt
Special Inspect - Masonry
Special Inspect - Structural Observation
Fabricator Reqd - Shop Welds

6. PROPERTY OWNER, TENANT, APPLICANT INFORMATION

Owner(s):
Devry Inc. 1 Tower Lane OAKBROOK TERR. ILLINOIS 6018

Tenant:

Applicant: (Relationship: Agent for Owner)
Mehron Ghazanfarpour - Langdon/Wilson 1055 Wilshire Blvd. #1500 LOS ANGELES, CA. 90017 (213) 250-1186

7. EXISTING USE

PROPOSED USE
(18) School Building

8. DESCRIPTION OF WORK

1.NEW 2-STORY TYPE II-N, B & A-3 OCCUPANCY (106,200 SQ. FT.) COMPUTER SCHOOL. GPI & POSTING DONE SEE 98030-10000-00379 NOTE: " CIVIL PLANS ARE FOR REFERENCE ONLY" 2.DEMO PERMIT #98LA76875 3.GRADING PERMIT#98VN39289 4.RET.WALL PERMIT #98VN39287 5."COMMERCIAL KITCHEN" I

9. # Bldgs on Site & Use:

10. APPLICATION PROCESSING INFORMATION

BLDG. PC By: Dean Lee
DAS PC By: Peter Lam
OK for Cashier: Dean Lee
Coord. OK:
Signature:
Date:

For information and/or inspection requests originating within LA County,
Call toll-free (888) LA4BUILD (524-2845)
Outside LA County, call (213) 482-0000 or visit www.ladbs.org

For Cashier's Use Only W/O #: **81001185**

11. PROJECT VALUATION & FEE INFORMATION Final Fee Period

Permit Valuation: $9,250,000 PC Valuation:

NAL TOTAL Bldg-New	72,455.27	Permit Issuing Fee	0.00
rmit Fee Subtotal Bldg-New	33,421.06		
Energy Surcharge			
Handicapped Access			
pp. Plan Check	0.00		
an Maintenance	300.00		
Fire Hydrant Refuse-To-Pay			
E.Q. Instrumentation	1,942.50		
pp. O.S. Surcharge	713.27		
pp. Sys. Surcharge	2,139.81		
Planning Surcharge Misc Fee	5.00		
Supp. Planning Surcharge	1,011.63		
hool District Commercial Area	32,922.00		

ver Cap ID: Total Bond(s) Due:

12. ATTACHMENTS

ot Plan

Payment Date: 08/06/98
Receipt No: LA06-6524
Amount: $72,455.27
Method: Check

1998LA77665



Blvd

Permit Application: 98010-10000-01185

City of Los Angeles - Department of Building and Safety

Plan Check #: CC7492

Initiating Office: METRO

Printed on: 06/01/98 10:00:13

PLOT PLAN ATTACHMENT

(DO NOT DRAW, WRITE, OR PASTE ATTACHMENTS OUTSIDE BORDER)

RESIDENTIAL PROPERTIES (N.I.C.)

RESIDENTIAL PROPERTIES (N.I.C.)

RESIDENTIAL PROPERTIES (N.I.C.)

FALLBROOK AVENUE

50'

PROP. LINE

EXTENT OF DEMO CONSTRUCTION

EXISTING SANITARY EASEMENT

427'±

EXISTING PARKING

DEVP'T NORTH PARKING (N.I.C.)

EXISTING 1-STORY STRUCTURE TO BE REMOVED

EXISTING LOOP DRIVE

EXIST'G STORM DRAIN EASEMENT

EXIST'G WATER EASEMENT

RESIDENTIAL PROPERTIES (N.I.C.)

TRUE

PLOT PLAN
SCALE: 1"=200'±

ROSCOE BOULEVARD

164'

204'±

COMERCIAL PROPERTIES (N.I.C.)

PROP. LINE

STAFF PARKING

PROP. LINE

NEW 2-STORY SCHOOL STRUCTURE
TYPE II-N WITH OCCUPANCY B, A-3
(106,190 S.F. F.F. ELEV. 853.0')

COMERCIAL PROPERTIES (N.I.C.)

FUTURE LAPD PROPERTY (N.I.C.)

RESIDENTIAL PROPERTIES (N.I.C.)

NCIL DISTRICT: 12

PLOT PLAN ATTACHME

CITY LA DBS
DEPARTMENT OF BUILDING AND SAFETY

There are two ways to request a copy of the document image.
1) By fax using the request form. Click on the following link
http://www.ladbs.org/permits/permit_related_forms/Research_Request_form.pdf to download the request form.
2) In person. Bring the following summary to one of the following Record counters.

COUNTER HOURS

MONDAY, TUESDAY, THURSDAY, FRIDAY: 7:30 AM to 4:30 PM
WEDNESDAY: 9:00 AM to 4:30 PM

Metro	Van Nuys
201, N. Figueroa St. 1st Floor, Room 110 Record Counter Los Angeles,CA 90012	6262 Van Nuys Blvd Record Counter Van Nuys,CA 91401

Address: 22801 ROSCOE BLVD

Document Type	Sub Type	Document Date	Document Number	Reel Batch Frame	
ADMINISTRATIVE APPROVAL	MISCELLANEOUS	10/10/1997		HIST: B0262 006 0481	
ADMINISTRATIVE APPROVAL	MISCELLANEOUS	4/21/1998		HIST: B0265 004 0297	
ADMINISTRATIVE APPROVAL	MISCELLANEOUS	5/7/1998		HIST: B0266 003 0286	
ADMINISTRATIVE APPROVAL	MISCELLANEOUS	7/24/1998		HIST: B0266 005 0242	
ADMINISTRATIVE APPROVAL	MISCELLANEOUS	4/26/1999		HIST: B0268 009 0326	
ADMINISTRATIVE APPROVAL	MISCELLANEOUS	5/7/1999		HIST: B0269 002 0314	
ADMINISTRATIVE APPROVAL	MISCELLANEOUS	8/23/1999		HIST: B0270 002 0097	
BUILDING PERMIT	BLDG-NEW	1/10/1952	1952LA24723	HIST: P1457 002 0205	
BUILDING PERMIT	BLDG-NEW	3/3/1952	1952VN21897	HIST: P1467 002 1671	
BUILDING PERMIT	BLDG-DEMOLITION	7/16/1998	98019-10000-00726	HIST: P663 5 42	
BUILDING PERMIT	GRADING	7/31/1998	98030-20000-00379	HIST: P664 8 499	
BUILDING PERMIT	NONBLDG-NEW	7/31/1998	98020-20000-01841	HIST: P664 8 493	
BUILDING PERMIT	BLDG-NEW	8/6/1998	98010-10000-01185	HIST: P665 4 94	
BUILDING PERMIT	NONBLDG-NEW	11/18/1998	98020-70000-02996	HIST: P674 4 188	
BUILDING PERMIT	BLDG-ALTER/REPAIR	1/7/1999	98016-10000-23326	HIST: P677 6 497	
BUILDING PERMIT	BLDG-ALTER/REPAIR	1/25/1999	98016-10000-25317	HIST: P678 8 69	
BUILDING PERMIT	BLDG-NEW	2/10/1999	98010-70001-01185	HIST: P679 9 151	

Document Type	Sub Type	Document Date	Document Number	Reel Batch Frame	
BUILDING PERMIT	BLDG-NEW	6/4/1999	99010-10000-00845	HIST: P688 5 412	
BUILDING PERMIT	BLDG-ALTER/REPAIR	7/1/2002	01016-10000-21711	HIST: P775 6 397	
CERTIFICATE OF OCCUPANCY		10/9/1952	1952LA24723	HIST: O227 2 2520	
CERTIFICATE OF OCCUPANCY		9/13/1999	98010-10000-01185		
CERTIFICATE OF OCCUPANCY		9/13/1999	98010-70001-01185		
CERTIFICATE OF OCCUPANCY		9/13/1999	98016-10000-23326		
CERTIFICATE OF OCCUPANCY		9/13/1999	98016-10000-25317		
CERTIFICATE OF OCCUPANCY		9/13/1999	98019-10000-00726		
CERTIFICATE OF OCCUPANCY		9/13/1999	98020-70000-02996		
CERTIFICATE OF OCCUPANCY		9/15/1999	99010-10000-00845	IDIS: O0500 00577 0000 HIST: M1189 006 0174	
CERTIFICATE OF OCCUPANCY		11/18/2002	01016-10000-21711	IDIS: O0508 01766 0000	
CERTIFICATE OF OCCUPANCY-TEMP		9/11/1999	98010-10000-01185	HIST: M1189 004 0450	
COMMISSION	BAAB BOARD FILE	1/1/1998	BF 980073	HIST: B0332 006 0272	
GRADING	SOILS & GEOLOGY FILE	4/10/1998		HIST: M1174 006 0262	
GRADING	COMPACTION FILE	10/1/1998		HIST: M1178 002 0001	
GRADING	COMPACTION FILE	8/16/1999		HIST: M1277 006 0054	
GRADING	GRADING CERTIFICATE	9/9/1999	98030-20000-00379	HIST: M1189 006 0458	
OVERSIZED DOCUMENT	BOARD FILE	5/22/1998	BF 980073	HIST: J1495 001 0072	
OVERSIZED DOCUMENT	GRADING	8/3/1999		HIST: J1180 002 0131	
PLAN MAINTENANCE		8/6/1998	98010-10000-01185	HIST: J1158 1 442	
PLAN MAINTENANCE		1/7/1999	98016-10000-23326	HIST: J1114 2 48	
PLAN MAINTENANCE		1/25/1999	98016-10000-25317	HIST: J1119 1 504	
PLAN MAINTENANCE		6/4/1999	99010-10000-00845	HIST: J1180 2 138	
PLAN MAINTENANCE		7/1/2002	01016-10000-21711	HIST: J1712 1 233	

Exhibit E. Government Records Data Base Search and Radius Site Map

The EDR Radius Map
with GeoCheck®

DeVry University
22801 Roscoe Boulevard
West Hills, CA 91304

Inquiry Number: 1721915.2s

July 24, 2006



EDR® Environmental
Data Resources Inc

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	6
Orphan Summary	22
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting Source Map	A-7
Physical Setting Source Map Findings	A-8
Physical Setting Source Records Searched	A-10

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

22801 ROSCOE BOULEVARD
WEST HILLS, CA 91304

COORDINATES

Latitude (North):	34.219900 - 34° 13' 11.6"
Longitude (West):	118.624400 - 118° 37' 27.8"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	350367.0
UTM Y (Meters):	3787536.5
Elevation:	845 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	34118-B6 CALABASAS, CA
Most Recent Revision:	1967
East Map:	34118-B5 CANOGA PARK, CA
Most Recent Revision:	1967

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL	National Priority List
Proposed NPL	Proposed National Priority List Sites
Delisted NPL	National Priority List Deletions
NPL RECOVERY	Federal Superfund Liens
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
ERNS	Emergency Response Notification System

HMIRS	Hazardous Materials Information Reporting System
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
US BROWNFIELDS	A Listing of Brownfields Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
ODI	Open Dump Inventory
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

AWP	Annual Workplan Sites
Cal-Sites	Calsites Database
CA BOND EXP. PLAN	Bond Expenditure Plan
NFA	No Further Action Determination
NFE	Properties Needing Further Evaluation
REF	Unconfirmed Properties Referred to Another Agency
SCH	School Property Evaluation Program
Toxic Pits	Toxic Pits Cleanup Act Sites
SWF/LF	Solid Waste Information System
CA WDS	Waste Discharge System
WMUDS/SWAT	Waste Management Unit Database
SWRCY	Recycler Database
AOCONCERN	San Gabriel Valley Areas of Concern
UST	Active UST Facilities
AST	Aboveground Petroleum Storage Tank Facilities
CHMIRS	California Hazardous Material Incident Report System
Notify 65	Proposition 65 Records
LA Co. Site Mitigation	Site Mitigation List
DEED	Deed Restriction Listing
VCP	Voluntary Cleanup Program Properties
LOS ANGELES CO. HMS	HMS: Street Number List
WIP	Well Investigation Program Case List
CDL	Clandestine Drug Labs
HAZNET	Facility and Manifest Data
EMI	Emissions Inventory Data

TRIBAL RECORDS

INDIAN RESERV	Indian Reservations
INDIAN LUST	Leaking Underground Storage Tanks on Indian Land
INDIAN UST	Underground Storage Tanks on Indian Land

EXECUTIVE SUMMARY

EDR PROPRIETARY RECORDS

Manufactured Gas Plants... EDR Proprietary Manufactured Gas Plants
EDR Historical Auto StationsEDR Proprietary Historic Gas Stations
EDR Historical Cleaners.... EDR Proprietary Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

FEDERAL RECORDS

CERCLIS-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 02/01/2006 has revealed that there is 1 CERC-NFRAP site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
HUGHES AIRCRAFT COMPANY	*8433 FALLBROOK AVENUE*	*1/4 - 1/2N*	*C9*	*15*

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 03/15/2006 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
HUGHES AIRCRAFT COMPANY	*8433 FALLBROOK AVENUE*	*1/4 - 1/2N*	*C9*	*15*

EXECUTIVE SUMMARY

RCRAInfo: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System(RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month Large quantity generators generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-TSDF list, as provided by EDR, and dated 03/09/2006 has revealed that there is 1 RCRA-TSDF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
HUGHES AIRCRAFT COMPANY	*8433 FALLBROOK AVENUE*	*1/4 - 1/2 N*	*C9*	*15*

RCRAInfo: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System(RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month Large quantity generators generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/09/2006 has revealed that there are 2 RCRA-LQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
QUEST DIAGNOSTICS	8401 FALLBROOK AVENUE	1/8 - 1/4 NNE	B6	14
QUEST DIAGNOSTICS	8403 FALLBROOK AVENUE	1/8 - 1/4 NNE	B7	15

RCRAInfo: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System(RCRIS). The database includes selective information on sites which generate, transport, store , treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month Large quantity generators generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/09/2006 has revealed that there are 2 RCRA-SQG sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
LAKEVIEW CLEANERS	*22736 ROSCOE BLVD*	*1/8 - 1/4 ESE*	*1*	*6*

Lower Elevation	Address	Dist / Dir	Map ID	Page
LA FIRE STATION 106	*23004 ROSCOE BLVD*	*1/8 - 1/4W*	*A3*	*10*

STATE AND LOCAL RECORDS

CORTESE: This database identifies public drinking water wells with detectable levels of contamination, hazardous substance sites selected for remedial action, sites with known toxic material identified through the abandoned site assessment program, sites with USTs having a reportable release and all solid waste disposal facilities from which there is known migration. The source is the California Environmental Protection Agency/Office of Emergency Information.

A review of the Cortese list, as provided by EDR, and dated 04/01/2001 has revealed that there is 1 Cortese site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
HUGHES AIRCRAFT COMPANY	*8433 FALLBROOK AVENUE*	*1/4 - 1/2N*	*C9*	*15*

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 04/10/2006 has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
HUGHES AIRCRAFT COMPANY Facility Status: Remedial action (cleanup) Underway	*8433 FALLBROOK AVENUE*	*1/4 - 1/2N*	*C9*	*15*

Lower Elevation	Address	Dist / Dir	Map ID	Page
LA CITY FIRE STATION #106 Facility Status: Leak being confirmed	23004 ROSCOE BLVD	1/8 - 1/4W	A5	12

CA FID: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there is 1 CA FID UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
LOS ANGELES FIRE STATION 106	*23004 ROSCOE BLVD*	*1/8 - 1/4W*	*A4*	*11*

CA SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 04/10/2006 has revealed that there are 2 SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
HUGHES MISSILE SYSTEMS	8433 FALLBROOK	1/4 - 1/2N	C8	15
HUGHES AIRCRAFT COMPANY	***8433 FALLBROOK AVENUE***	***1/4 - 1/2N***	***C9***	***15***
Facility Status: Remedial Action Underway				

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there is 1 HIST UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
FIRE STATION 106	2004 ROSCOE BLVD.	1/8 - 1/4WSW	A2	9

SWEEPS: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1980's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there is 1 SWEEPS UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
LOS ANGELES FIRE STATION 106	***23004 ROSCOE BLVD***	***1/8 - 1/4W***	***A4***	***11***

DRYCLEANERS: A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the CLEANERS list, as provided by EDR, and dated 04/18/2005 has revealed that there is 1 CLEANERS site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
LAKEVIEW CLEANERS	***22736 ROSCOE BLVD***	***1/8 - 1/4ESE***	***1***	***6***

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
THE BOEING COMPANY-SANTA SUSANA 1,2,3,4	RCRA-LQG, RCRA-TSDF, CORRACTS, CERC-NFRAP, US INST CONTROL
2 / 3 MI DUE SOUTH NEWPORT BEACH PIER CENTEX-STERLING PROPERTY	HAZNET, LUST, CHMIRS VCP

OVERVIEW MAP - 1721915.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: DeVry University ADDRESS: 22801 Roscoe Boulevard West Hills CA 91304 LAT/LONG: 34.2199 / 118.6244	CLIENT: Winzler & Kelly CONTACT: Candice M. Cassato INQUIRY #: 1721915.2s DATE: July 24, 2006

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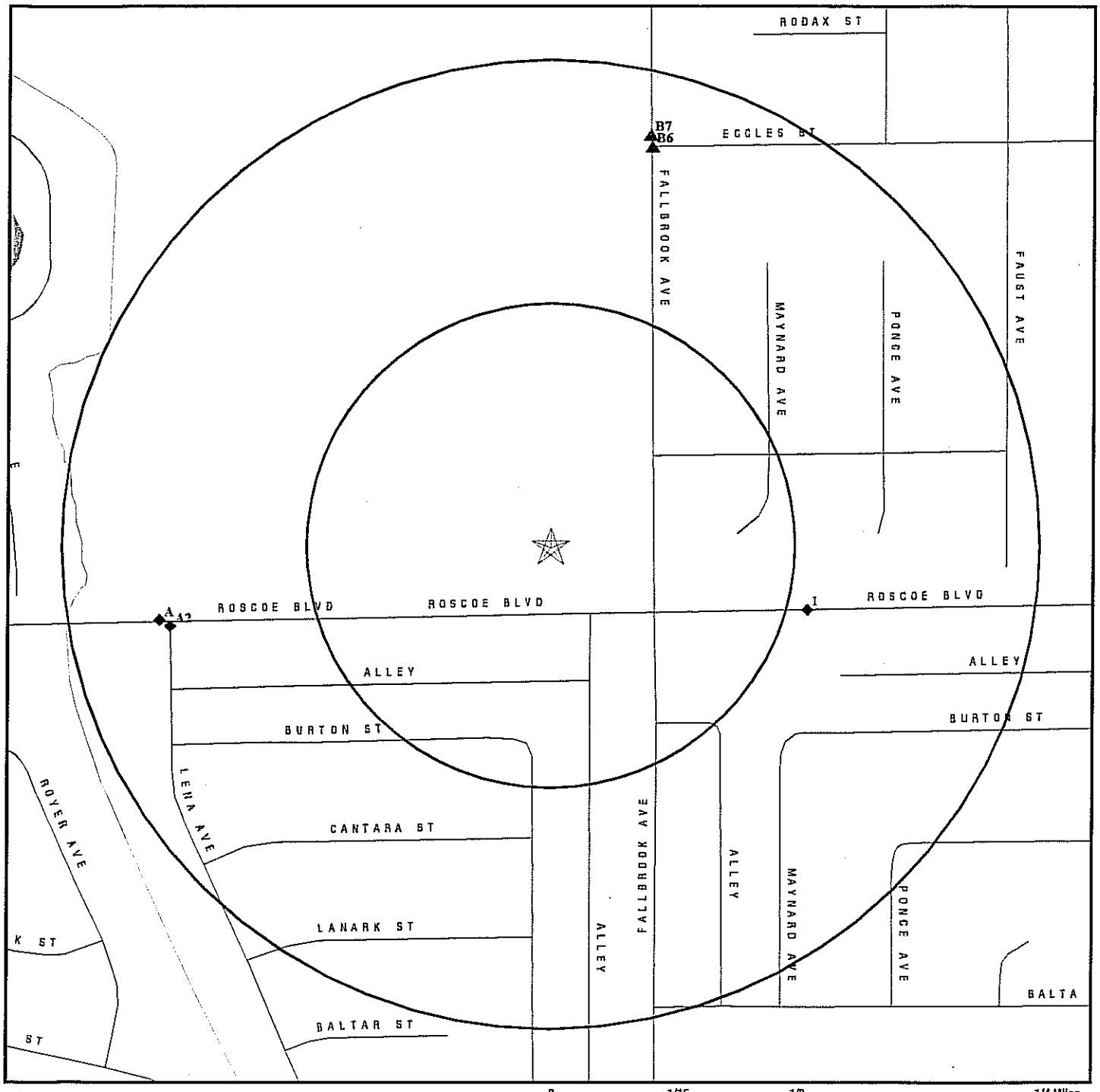
DETAIL MAP - 1721915.2s



★ Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Landfill Sites

Dept. Defense Sites

Indian Reservations BIA

Oil & Gas pipelines

100-year flood zone

500-year flood zone

National Wetland Inventory

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: DeVry University	CLIENT: Winzler & Kelly
ADDRESS: 22801 Roscoe Boulevard West Hills CA 91304	CONTACT: Candice M. Cassato
LAT/LONG: 34.2199 / 118.6244	INQUIRY #: 1721915.2s DATE: July 24, 2006

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MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FEDERAL RECORDS								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL RECOVERY		TP	NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.500	0	0	1	NR	NR	1
CORRACTS		1.000	0	0	1	0	NR	1
RCRA TSD		0.500	0	0	1	NR	NR	1
RCRA Lg. Quan. Gen.		0.250	0	2	NR	NR	NR	2
RCRA Sm. Quan. Gen.		0.250	0	2	NR	NR	NR	2
ERNS		TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
STATE AND LOCAL RECORDS								
AWP		1.000	0	0	0	0	NR	0
Cal-Sites		1.000	0	0	0	0	NR	0
CA Bond Exp. Plan		1.000	0	0	0	0	NR	0
NFA		0.250	0	0	NR	NR	NR	0
NFE		0.250	0	0	NR	NR	NR	0
REF		0.250	0	0	NR	NR	NR	0
SCH		0.250	0	0	NR	NR	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
CA WDS		TP	NR	NR	NR	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
Cortese		0.500	0	0	1	NR	NR	1
SWRCY		0.500	0	0	0	NR	NR	0
LUST		0.500	0	1	1	NR	NR	2

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA FID UST		0.250	0	1	NR	NR	NR	1
SLIC		0.500	0	0	2	NR	NR	2
AOCONCERN		1.000	0	0	0	0	NR	0
UST		0.250	0	0	NR	NR	NR	0
HIST UST		0.250	0	1	NR	NR	NR	1
AST		0.250	0	0	NR	NR	NR	0
SWEEPS UST		0.250	0	1	NR	NR	NR	1
CHMIRS		TP	NR	NR	NR	NR	NR	0
Notify 65		1.000	0	0	0	0	NR	0
LA Co. Site Mitigation		TP	NR	NR	NR	NR	NR	0
DEED		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.250	0	1	NR	NR	NR	1
Los Angeles Co. HMS		TP	NR	NR	NR	NR	NR	0
WIP		0.250	0	0	NR	NR	NR	0
CDL		TP	NR	NR	NR	NR	NR	0
HAZNET		TP	NR	NR	NR	NR	NR	0
EMI		TP	NR	NR	NR	NR	NR	0
TRIBAL RECORDS								
INDIAN RESERV		1.000	0	0	0	0	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
EDR PROPRIETARY RECORDS								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations		0.250	0	0	NR	NR	NR	0
EDR Historical Cleaners		0.250	0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1
ESE
1/8-1/4
717 ft.

LAKEVIEW CLEANERS
22736 ROSCOE BLVD
CANOGA PARK, CA 91304

RCRA-SQG **1000224867**
FINDS **CAD981639297**
HAZNET
CLEANERS

Relative:
Lower

Actual:
842 ft.

RCRAInfo:
Owner: NOT REQUIRED
(415) 555-1212
EPA ID: CAD981639297
Contact: Not reported
Classification: Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CA Cleaners:
Inactive Date: 6/30/2004
EPA Id: CAL000092099
Facility Address 2 : Not reported
NAICS Code : 81232
Facility Active : No
Mail Name : Not reported
Mailing Address: 22736 ROSCOE BLVD
CANOGA PARK, CA 91304
Owner Name : LAKEVIEW CLEANERS
Mailing Address: 22736 ROSCOE BL
CANOGA PARK, CA 91304
Owner Telephone : 8183481013
Contact Name : SUNG K KIM
Mailing Address: --
--, 99 --
Contact Telephone : 8183481013
Region Code : 3
Create Date : 01/24/1995
SIC Description : Garment Pressing, and Agents for Laundries and Drycleaners
NAICS Description : Drycleaning and Laundry Services (except Coin-Operated)

Inactive Date: 6/30/2004
EPA Id: CAL000092099
Facility Address 2 : Not reported
NAICS Code : 81232
Facility Active : No
Mail Name : Not reported
Mailing Address: 22736 ROSCOE BLVD
CANOGA PARK, CA 91304
Owner Name : LAKEVIEW CLEANERS
Mailing Address: 22736 ROSCOE BL
CANOGA PARK, CA 91304
Owner Telephone : 8183481013
Contact Name : SUNG K KIM
Mailing Address: --

LAKEVIEW CLEANERS (Continued) **1000224867**

	–, 99 –
Contact Telephone :	8183481013
Region Code :	3
Create Date :	01/24/1995
SIC Description :	Drycleaning Plants, Except Rug Cleaning
NAICS Description :	Drycleaning and Laundry Services (except Coin-Operated)
Inactive Date:	6/30/2004
EPA Id:	CAL000092099
Facility Address 2 :	Not reported
NAICS Code :	81232
Facility Active :	No
Mail Name :	Not reported
Mailing Address:	22736 ROSCOE BLVD
	CANOGA PARK, CA 91304
Owner Name :	LAKEVIEW CLEANERS
Mailing Address:	22736 ROSCOE BL
	CANOGA PARK, CA 91304
Owner Telephone :	8183481013
Contact Name :	SUNG K KIM
Mailing Address:	–
	–, 99 –
Contact Telephone :	8183481013
Region Code :	3
Create Date :	01/24/1995
SIC Description :	Laundry and Garment Services, NEC (except diaper service and clothing alteration and repair)
NAICS Description :	Drycleaning and Laundry Services (except Coin-Operated)
Inactive Date:	6/30/2000
EPA Id:	CAD981639297
Facility Address 2 :	Not reported
NAICS Code :	Not reported
Facility Active :	No
Mail Name :	Not reported
Mailing Address:	22736 ROSCOE BLVD
	CANOGA PARK, CA 91304
Owner Name :	–
Mailing Address:	–
	–, 99 –
Owner Telephone :	0000000000
Contact Name :	CANCELLED BY SUNG K KIM ON 1-
Mailing Address:	INACTIVE PER VQ00 - BMI
	–, 99 –
Contact Telephone :	8183481013
Region Code :	3
Create Date :	07/03/1987
SIC Description :	Not reported
NAICS Description :	Not reported
Inactive Date:	6/30/2004
EPA Id:	CAL000092099
Facility Address 2 :	Not reported
NAICS Code :	81232
Facility Active :	No
Mail Name :	Not reported
Mailing Address:	22736 ROSCOE BLVD
	CANOGA PARK, CA 91304

LAKEVIEW CLEANERS (Continued) **1000224867**

Owner Name : LAKEVIEW CLEANERS
Mailing Address: 22736 ROSCOE BL
CANOGA PARK, CA 91304
Owner Telephone : 8183481013
Contact Name : SUNG K KIM
Mailing Address: --
--, 99 --
Contact Telephone : 8183481013
Region Code : 3
Create Date : 01/24/1995
SIC Description : Power Laundries, Family and Commercial
NAICS Description : Drycleaning and Laundry Services (except Coin-Operated)

HAZNET:
Gepaid: CAD981639297
TSD EPA ID: CAT000613992
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0600
Facility Address 2: Not reported
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: Not reported
Telephone: (000) 000-0000
Mailing Name: Not reported
Mailing Address: 22736 ROSCOE BLVD
CANOGA PARK, CA 91304
County Los Angeles

Gepaid: CAD981639297
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.0975
Facility Address 2: Not reported
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: Not reported
Telephone: (000) 000-0000
Mailing Name: Not reported
Mailing Address: 22736 ROSCOE BLVD
CANOGA PARK, CA 91304
County Los Angeles

Gepaid: CAD981639297
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1400
Facility Address 2: Not reported
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: Not reported
Telephone: (000) 000-0000
Mailing Name: Not reported
Mailing Address: 22736 ROSCOE BLVD
CANOGA PARK, CA 91304
County Los Angeles

LAKEVIEW CLEANERS (Continued) **1000224867**

Gepaid: CAD981639297
TSD EPA ID: CAT000613992
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1400
Facility Address 2: Not reported
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: Not reported
Telephone: (000) 000-0000
Mailing Name: Not reported
Mailing Address: 22736 ROSCOE BLVD
CANOGA PARK, CA 91304
County Los Angeles

Gepaid: CAD981639297
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0975
Facility Address 2: Not reported
Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
Disposal Method: Transfer Station
Contact: Not reported
Telephone: (000) 000-0000
Mailing Name: Not reported
Mailing Address: 22736 ROSCOE BLVD
CANOGA PARK, CA 91304
County Los Angeles

Click this hyperlink while viewing on your computer to access
4 additional CA HAZNET record(s) in the EDR Site Report.

A2 **FIRE STATION 106** **HIST UST** **U001567133**
WSW **2004 ROSCOE BLVD.** **N/A**
1/8-1/4 **CANOGA PARK, CA 91304**
1050 ft.

Site 1 of 4 in cluster A

Relative:
Lower

Actual:
838 ft.

UST HIST:
Facility ID: 47402
Total Tanks: 1
Owner Address: 200 N. MAIN ST
LOS ANGELES, CA 90012
Tank Used for: PRODUCT
Tank Num: 1
Tank Capacity: 00001000
Type of Fuel: DIESEL
Leak Detection: Stock Inventor
Contact Name: Not reported
Facility Type: Other

Owner Name: CITY OF LOS ANGELES
Region: STATE

Container Num: FS106-1
Year Installed: Not reported
Tank Construction: Not Reported

Telephone: (818) 989-8606
Other Type: FIRE STATION

A3 **LA FIRE STATION 106** **RCRA-SQG** **1000229490**
West **23004 ROSCOE BLVD** **FINDS** **CAD981964208**
1/8-1/4 **CANOGA PARK, CA 91303** **HAZNET**
1075 ft.

Site 2 of 4 in cluster A

Relative:
Lower

Actual:
838 ft.

RCRAInfo:
Owner: CITY OF LOS ANGELES
(415) 555-1212
EPA ID: CAD981964208

Contact: ENVIRONMENTAL MANAGER
(213) 485-7527

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
California - Hazardous Waste Tracking System - Datamart

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:
Gepaid: CAD981964208
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 2.10
Facility Address 2: Not reported
Waste Category: Asbestos-containing waste
Disposal Method: Disposal, Land Fill
Contact: SHARI KUROKI MGMT ANALYST
Telephone: (213) 473-7748
Mailing Name: Not reported
Mailing Address: 419 S SPRING ST 12TH FLOOR
LOS ANGELES, CA 90013
County Not reported

Gepaid: CAD981964208
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1251
Facility Address 2: Not reported
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: DEPT OF GENERAL SERVICES
Telephone: (213) 485-5846
Mailing Name: Not reported
Mailing Address: 111 E 1ST STREET RM 709
LOS ANGELES, CA 90012
County Los Angeles

LA FIRE STATION 106 (Continued) **1000229490**

Gepaid: CAD981964208
TSD EPA ID: CAT080011059
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0625
Facility Address 2: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: DEPT OF GENERAL SERVICES
Telephone: (213) 485-5846
Mailing Name: Not reported
Mailing Address: 111 E 1ST STREET RM 709
LOS ANGELES, CA 90012
County Los Angeles

Gepaid: CAD981964208
TSD EPA ID: CAD028409019
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.417
Facility Address 2: Not reported
Waste Category: Tank bottom waste
Disposal Method: Treatment, Tank
Contact: DEPT OF GENERAL SERVICES
Telephone: (213) 485-5846
Mailing Name: Not reported
Mailing Address: 111 E 1ST STREET RM 709
LOS ANGELES, CA 90012
County Los Angeles

Gepaid: CAD981964208
TSD EPA ID: CAD009007626
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1685
Facility Address 2: Not reported
Waste Category: Asbestos-containing waste
Disposal Method: Disposal, Land Fill
Contact: DEPT OF GENERAL SERVICES
Telephone: (213) 485-5846
Mailing Name: Not reported
Mailing Address: 111 E 1ST STREET RM 709
LOS ANGELES, CA 90012
County Los Angeles

A4
West
1/8-1/4
1075 ft.

Relative:
Lower

Actual:
838 ft.

LOS ANGELES FIRE STATION 106
23004 ROSCOE BLVD
CANOGA PARK, CA 91304

Site 3 of 4 in cluster A

CA FID UST **S101585525**
SWEEPS UST **N/A**

LOS ANGELES FIRE STATION 106 (Continued) **S101585525**

FID:

Facility ID:	19024479	Regulate ID:	Not reported
Reg By:	Active Underground Storage Tank Location		
Cortese Code:	Not reported	SIC Code:	Not reported
Status:	Active	Facility Tel:	(213) 485-5846
Mail To:	Not reported 200 MAIN ST CANOGA PARK, CA 91304		
Contact:	Not reported	Contact Tel:	Not reported
DUNs No:	Not reported	NPDES No:	Not reported
Creation:	10/22/93	Modified:	00/00/00
EPA ID:	Not reported		
Comments:	Not reported		

SWEEPS:

Status :	A
Comp Number :	6188
Number :	4
Board Of Equalization :	Not reported
Ref Date :	02-25-93
Act Date :	04-05-94
Created Date :	02-29-88
Tank Status :	A
Owner Tank Id :	6188-1
Swrcb Tank Id :	19-050-006188-000001
Actv Date :	07-29-93
Capacity :	10000
Tank Use :	M.V. FUEL
Stg :	P
Content :	DIESEL
Number Of Tanks :	1

A5 **LA CITY FIRE STATION #106** **LUST** **S104773279**
West **23004 ROSCOE BLVD** **N/A**
1/8-1/4 **CANOGA PARK, CA 91304**
1075 ft.

Site 4 of 4 in cluster A

Relative:
Lower

Actual:
838 ft.

State LUST:

Cross Street:	Not reported		
Qty Leaked:	Not reported		
Case Number	913040670		
Reg Board:	Los Angeles Region		
Chemical:	1		
Lead Agency:	Local Agency		
Local Agency :	19050		
Case Type:	Soil only		
Status:	**Leak being confirmed**		
Review Date:	1999-10-07 00:00:00	Confirm Leak:	1999-10-07 00:00:00
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported		
Monitoring:	Not reported		
Close Date:	Not reported		
Release Date:	1999-10-07 00:00:00		
Cleanup Fund Id :	Not reported		
Discover Date :	1999-08-16 00:00:00		
Enforcement Dt :	Not reported		
Enf Type:	Not reported		

LA CITY FIRE STATION #106 (Continued) **S104773279**

Enter Date : Not reported
Funding: Not reported
Staff Initials: PEJ
How Discovered: Repair Tank
How Stopped: Not reported
Interim : Not reported
Leak Cause: UNK
Leak Source: UNK
MTBE Date : Not reported
Max MTBE GW : Not reported
MTBE Tested: Not Required to be Tested.
Priority: Not reported
Local Case # : Not reported
Beneficial: Not reported
Staff : UNK
GW Qualifier : Not reported
Max MTBE Soil : Not reported
Soil Qualifier : Not reported
Hydr Basin #: SAN FERNANDO VALLEY
Operator : CITY OF LA FIRE DEPT.
Oversight Prgm: LUST
Review Date : 1999-10-07 00:00:00
Stop Date : Not reported
Work Suspended :Not reported
Responsible PartyCTIY OF LOS ANGELES
RP Address: 419 S. SPRING ST., 12TH FL., LOS ANGELES CA 90013
Global Id: T0603793051
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: 0
Mtbe Fuel: 0
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported
Summary : Not reported

LUST Region 4:
Report Date: 10/7/1999
Lead Agency: Local Agency
Local Agency: 19050
Substance: 1
Case Type: Soil
Status: Leak being confirmed
Region: 4
Staff: UNK
Date Case Last Changed on Database: 10/7/1999
Date Leak Record Entered: Not reported
Historical Max MTBE Date: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil : Not reported
County: Los Angeles
Organization : Not reported
Regional Board: 04
Owner Contact: Not reported

LA CITY FIRE STATION #106 (Continued) **S104773279**

Responsible Party:	CTIY OF LOS ANGELES
RP Address:	419 S. SPRING ST., 12TH FL., LOS ANGELES CA 90013
Significant Interim Remedial Action Taken:	Not reported
Program :	LUST
Lat / Long :	34.219163 / -1
Local Agency Staff:	PEJ
Beneficial Use :	Not reported
Priority :	Not reported
Cleanup Fund Id :	Not reported
Suspended :	Not reported
Local Case No :	Not reported
Substance Quantity :	Not reported
Abatement Method Used at the Site:	Not reported
Operator :	CITY OF LA FIRE DEPT.
Water System :	Not reported
Well Name :	Not reported
Approx. Dist To Production Well (ft) :	15634.935088091666429858451742
Assigned Name :	Not reported
W Global ID :	Not reported
Source of Cleanup Funding:	Not reported
Date the Leak was Discovered:	8/16/1999
How the Leak was Discovered:	TR
How the Leak was Stopped:	Not reported
Cause of Leak:	UNK
Leak Source:	UNK
Date The Leak was Stopped:	Not reported
Date Confirmation Leak Began:	10/7/1999
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	Not reported
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Date the Case was Closed:	Not reported
Enforcement Action Date:	Not reported
Date Leak First Reported:	10/7/1999
Enforcement Type:	Not reported
Global ID :	T0603793051
Cross Street:	Not reported
Summary :	

B6 **QUEST DIAGNOSTICS** **RCRA-LQG** **1008402415**
NNE **8401 FALLBROOK AVENUE** **CAR000164962**
1/8-1/4 **WEST HILLS, CA 91304**
1119 ft.

Site 1 of 2 in cluster B

Relative:
Higher

Actual:
851 ft.

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

CERCLIS-NFRAP Classification Data:
Federal Facility: Not a Federal Facility
Non NPL Code: DR
NPL Status: Not on the NPL
CERCLIS-NFRAP Assessment History:

Assessment:	DISCOVERY	Completed:	04/01/1991
Assessment:	PRELIMINARY ASSESSMENT	Completed:	08/09/1991
Assessment:	ARCHIVE SITE	Completed:	01/23/1996

CORRACTS Data:

EPA Id: CAD041162124
Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 07/29/1991
Corrective Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
2002 NAICS Title: Guided Missile and Space Vehicle Manufacturing
Other Guided Missile and Space Vehicle Parts and Auxiliary Equipment Manufacturing

RCRAInfo Corrective Action Summary:
Event: RFI Imposition
Event Date: Not reported

Event: CA Prioritization, Facility or area was assigned a low corrective action priority.
Event Date: 07/29/1991

RCRAInfo:
Owner: HUGHES AIRCRAFT COMPANY
(213) 702-1000
EPA ID: CAD041162124

Contact: Not reported

Classification: Large Quantity Generator, TSDF
TSDF Activities: Not reported

Violation Status: Violations exist

Regulation Violated: Not reported
Area of Violation: TSD-GENERAL STANDARDS
Date Violation Determined: 08/23/1994
Actual Date Achieved Compliance: 09/22/1994

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 08/23/1994
Penalty Type: Proposed Monetary Penalty

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 11/22/1991
Actual Date Achieved Compliance: 06/01/1994

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS
Date Violation Determined: 04/24/1991
Actual Date Achieved Compliance: 05/28/1991

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 06/07/1991

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS
Date Violation Determined: 02/22/1989
Actual Date Achieved Compliance: 10/15/1990

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 04/06/1989
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/06/1989
Penalty Type: Final Monetary Penalty

Regulation Violated: Not reported
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 02/22/1989
Actual Date Achieved Compliance: 10/15/1990

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 04/06/1989
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/06/1989
Penalty Type: Final Monetary Penalty

Penalty Summary:

Penalty Description	Penalty Date	Penalty Amount	Lead Agency
Final Monetary Penalty	8/23/1994	500	STATE
Proposed Monetary Penalty	8/23/1994	500	STATE

There are 5 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Compliance Evaluation Inspection	TSD-GENERAL STANDARDS	19940922
Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19940601
Other Evaluation	TSD-OTHER REQUIREMENTS	19910528
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS	19901015
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19901015

FINDS:

Other Pertinent Environmental Activity Identified at Site:

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

State LUST:

Cross Street: ECCLES ST
Qty Leaked: Not reported
Case Number 913040352
Reg Board: Los Angeles Region
Chemical: Solvents
Lead Agency: Regional Board
Local Agency : 19050

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Case Type: Other ground water affected
Status: Remedial action (cleanup) Underway
Abate Method: Excavate and Dispose - remove contaminated soil and dispose in approved site
Review Date: Not reported
Workplan: Not reported
Pollution Char: Not reported
Remed Action: 1992-03-10 00:00:00
Monitoring: Not reported
Close Date: Not reported
Release Date: 1985-01-29 00:00:00
Cleanup Fund Id : Not reported
Discover Date : 1988-06-20 00:00:00
Enforcement Dt : Not reported
Enf Type: Not reported
Enter Date : 1986-12-31 00:00:00
Funding: Not reported
Staff Initials: PEJ
How Discovered: Tank Closure
How Stopped: Not reported
Interim : Yes
Leak Cause: UNK
Leak Source: UNK
MTBE Date : Not reported
Max MTBE GW : Not reported
MTBE Tested: Not Required to be Tested.
Priority: Not reported
Local Case # : Not reported
Beneficial: Not reported
Staff : SLC
GW Qualifier : Not reported
Max MTBE Soil : Not reported
Soil Qualifier : Not reported
Hydr Basin #: SAN FERNANDO VALLEY
Operator : Not reported
Oversight Prgm: Spills, Leaks, Investigations and Cleanup UST
Review Date : 1998-07-15 00:00:00
Stop Date : Not reported
Work Suspended : Not reported
Responsible Party HUGHES AIRCRAFT COMPANY
RP Address: SAME AS SITE
Global Id: T0603702098
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: 0
Mtbe Fuel: 0
Water System Name: VIRGINIA LKS. MUT. WATER CO.
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: W0605100510
Waste Disch Assigned Name: 2600510-001GEN
Summary : QTRLY G/W MON. SOLVENT & TRACE METAL CONTAMINATION. 9-21-88 UPDATE-REDRILLING WELLS 1ST ONE DRY. 4-89 UPDATE-SAP FOR NEWWELLS EXPECTED. 07/15/98 - GW & REMEDIATION SYSTEM MON 1998 Q

Confirm Leak: Not reported
Prelim Assess: Not reported
Remed Plan: Not reported

LUST Region 4:
Report Date: 1/29/1985

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Lead Agency:	Regional Board
Local Agency:	19050
Substance:	Solvents
Case Type:	Groundwater
Status:	Remedial action (cleanup) Underway
Region:	4
Staff:	SLC
Date Case Last Changed on Database:	7/15/1998
Date Leak Record Entered:	12/31/1986
Historical Max MTBE Date:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil :	Not reported
County:	Los Angeles
Organization :	Not reported
Regional Board:	04
Owner Contact:	Not reported
Responsible Party:	HUGHES AIRCRAFT COMPANY
RP Address:	SAME AS SITE
Significant Interim Remedial Action Taken:	Yes
Program :	SLIC
Lat / Long :	34.224103 / -1
Local Agency Staff:	PEJ
Beneficial Use :	Not reported
Priority :	Not reported
Cleanup Fund Id :	Not reported
Suspended :	Not reported
Local Case No :	Not reported
Substance Quantity :	Not reported
Abatement Method Used at the Site:	Excavate and Dispose
Operator :	Not reported
Water System :	VIRGINIA LKS. MUT. WATER CO.
Well Name :	Not reported
Approx. Dist To Production Well (ft) :	13531.155956221583606583331749
Assigned Name :	2600510-001GEN
W Global ID :	W0605100510
Source of Cleanup Funding:	Not reported
Date the Leak was Discovered:	6/20/1988
How the Leak was Discovered:	Tank Closure
How the Leak was Stopped:	Not reported
Cause of Leak:	UNK
Leak Source:	UNK
Date The Leak was Stopped:	Not reported
Date Confirmation Leak Began:	Not reported
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	4/21/1988
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	3/10/1992
Post Remedial Action Monitoring Began:	Not reported
Date the Case was Closed:	Not reported
Enforcement Action Date:	Not reported
Date Leak First Reported:	1/29/1985
Enforcement Type:	Not reported
Global ID :	T0603702098
Cross Street:	ECCLES ST

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Summary : QTRLY G/W MON. SOLVENT & TRACE METAL CONTAMINATION. 9-21-88 UPDATE-REDRILLING WELLS 1ST ONE DRY. 4-89 UPDATE-SAP FOR NEWWELLS EXPECTED. 07/15/98 - GW & REMEDIATION SYSTEM MON 1998 Q

REF:

Facility ID	19360344
Dtsc Region Code :	3
Region Code Definition :	GLENDALE
County Code :	19
Site Name Under :	Not reported
Current Status Date :	05011995
Current Status Code :	REFRC
Current Status :	PROPERTY/SITE REFERRED TO RCRA
Lead Agency Code :	Not reported
Lead Agency :	N/A
Site Type Code :	Not reported
Site Type :	N/A
National Priorities List :	Not reported
Tier :	Not reported
Source Of Funding Code :	Not reported
Staff Member :	Not reported
Supervisor :	Not reported
Sic Code :	36
Sic Code Definition :	MANU - ELECTRONIC & OTHER ELECTRIC EQUIP
Site Mitigatn & Brnflds Reuse Prog (SMBR) Code :	SA
SMBR Branch :	SO CAL - GLENDALE
Regional Water Quality Control Board :	Not reported
RWQCB Definition :	Not reported
Site Access Controlled :	Not reported
Listed In Haz Wst & Substncs Sites List (CORTESE):	Not reported
Date Hazard Ranked :	Not reported
GW Contamination Suspected :	Not reported
# Of Sources Contributing To Contamination :	0
Lat/Long :	0° 0' 0" / 0° 0' 0"
Direction Lat :	Not reported
Direction Long :	Not reported
Lat/long Method :	Not reported
Entity Lat/long Coordinates Refer To :	Not reported
State Assembly Distt Code :	37
State Senate Distt Code :	23
Identifying Code:	EPA
ID Value:	CAD041162124
Other ID Desc:	EPA IDENTIFICATION NUMBER
Alternate Name(s):	THOMPSON-RAMCO-WOOL-RIDGE
	HUGHES AIRCRAFT COMPANY
Address(es) :	8433 FALLBROOK AVENUE
	CANOGA PARK, CA 91304
Background Info :	Not reported
Facility Id :	19360344
AWP Activities Code :	1
DTSC Site Activity Code :	DISC
Activity Code Def:	DISCOVERY
AWP Activity Id :	Not reported
Dt Activity Due For Completion :	Not reported
Revised Due Date :	Not reported
Date Activity Completed :	10221982
Est # Of Person-years To Complete :	0

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Est. Size Of An Activity Code : Not reported
Site Status When Activity Commitment Made : REFRC
Status Code Definition : PROPERTY/SITE REFERRED TO RCRA
Cubic Yards Of Solids Removed At Completion : 0
Gallons Of Liquid Removed Upon Completion : 0
Cubic Yards Of Solids Treated Upon Completion : 0
Actvty Deleted Via Commitmnt/Completns Screen : Not reported
Facility Id : 19360344
AWP Activities Code : 2
DTSC Site Activity Code : SS
Activity Code Def: SITE SCREENING
AWP Activity Id : Not reported
Dt Activity Due For Completion : Not reported
Revised Due Date : Not reported
Date Activity Completed : 04151988
Est # Of Person-years To Complete : 0
Est. Size Of An Activity Code : Not reported
Site Status When Activity Commitment Made : REFRC
Status Code Definition : PROPERTY/SITE REFERRED TO RCRA
Cubic Yards Of Solids Removed At Completion : 0
Gallons Of Liquid Removed Upon Completion : 0
Cubic Yards Of Solids Treated Upon Completion : 0
Actvty Deleted Via Commitmnt/Completns Screen : Not reported
Special Program Code: Not reported
Special Program : Not reported
Comments Date : 04151988
Comments : SITE SCREENING DONE UNABLE TO VEIW COMPLEX DURING DRIVE-BY
PA MED DUE TO LACK OF INFO.
FACILITY DRIVE-BY VAST COMPLEX, UNABLE TO VIEW.
HWMB ISD FILES. EPA ID #CAD041162124.
GOOD CURRENT HAZ WASTE MANAGE.
TSD facility--large quantity generator.
FACILITY IDENTIFIED ID FROM LA CHAM COMM DIR 1963-64.
COMPUTERS, MISSILE COMPONENTS.

CORTESE:
Region: CORTESE
Fac Address 2: 8433 FALLBROOK AVE

CA STATE SLIC :
Global Id : SL2043T1572
Region : STATE
Assigned Name : SLICSITE
Lead Agency Contact : THIZAR TINTUT-WILLIAMS
Lead Agency : LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number : 693
Responsible Party : Raytheon Systems Co.
Recent Dtw : Not reported
Facility Status : Remedial Action Underway
Substance Released : PET, VOC

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/19/2006
Date Data Arrived at EDR: 05/05/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 17

Source: EPA
Telephone: N/A
Last EDR Contact: 05/05/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

Date of Government Version: 04/19/2006
Date Data Arrived at EDR: 05/05/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 17

Source: EPA
Telephone: N/A
Last EDR Contact: 05/05/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/19/2006
Date Data Arrived at EDR: 05/05/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 17

Source: EPA
Telephone: N/A
Last EDR Contact: 05/05/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPL RECOVERY: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/01/2006
Date Data Arrived at EDR: 03/21/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 23

Source: EPA
Telephone: 703-413-0223
Last EDR Contact: 06/22/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 02/01/2006
Date Data Arrived at EDR: 03/21/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 23

Source: EPA
Telephone: 703-413-0223
Last EDR Contact: 06/23/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/15/2006
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 05/21/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Quarterly

RCRA: Resource Conservation and Recovery Act Information

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/09/2006
Date Data Arrived at EDR: 04/27/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 33

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/28/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Quarterly

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 01/12/2006
Date Made Active in Reports: 02/21/2006
Number of Days to Update: 40

Source: National Response Center, United States Coast Guard
Telephone: 202-260-2342
Last EDR Contact: 04/26/2006
Next Scheduled EDR Contact: 07/24/2006
Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 46

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 07/19/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: Annually

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/21/2006
Date Data Arrived at EDR: 03/27/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 703-603-8905
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/21/2006
Date Data Arrived at EDR: 03/27/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 703-603-8905
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 703-692-8801
Last EDR Contact: 05/12/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 01/19/2006
Date Made Active in Reports: 02/21/2006
Number of Days to Update: 33

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 04/26/2006
Date Data Arrived at EDR: 04/27/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/12/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Semi-Annually

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/14/2004
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 04/25/2005
Number of Days to Update: 69

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/24/2006
Next Scheduled EDR Contact: 10/23/2006
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/13/2006
Date Data Arrived at EDR: 04/28/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 32

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 07/06/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 11/04/2005
Date Data Arrived at EDR: 11/28/2005
Date Made Active in Reports: 01/30/2006
Number of Days to Update: 63

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 06/21/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2003
Date Data Arrived at EDR: 07/13/2005
Date Made Active in Reports: 08/17/2005
Number of Days to Update: 35

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 06/22/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 46

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/29/2006
Date Data Arrived at EDR: 04/26/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 34

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Date of Government Version: 03/31/2006
Date Data Arrived at EDR: 04/26/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 34

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Quarterly

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 05/11/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 11

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 02/13/2006
Date Data Arrived at EDR: 04/21/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 20

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 12/27/2005
Date Data Arrived at EDR: 02/08/2006
Date Made Active in Reports: 02/27/2006
Number of Days to Update: 19

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 06/28/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/12/2006
Date Data Arrived at EDR: 04/26/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 34

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Quarterly

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/09/2006
Date Data Arrived at EDR: 03/29/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 62

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 06/28/2006
Next Scheduled EDR Contact: 09/25/2006
Data Release Frequency: Semi-Annually

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/27/2006
Date Data Arrived at EDR: 05/02/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 28

Source: EPA
Telephone: N/A
Last EDR Contact: 04/03/2006
Next Scheduled EDR Contact: 07/03/2006
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2003
Date Data Arrived at EDR: 06/17/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 48

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 07/21/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Biennially

STATE AND LOCAL RECORDS

AWP: Annual Workplan Sites

Known Hazardous Waste Sites. California DTSC's Annual Workplan (AWP), formerly BEP, identifies known hazardous substance sites targeted for cleanup.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/29/2005
Date Made Active in Reports: 09/21/2005
Number of Days to Update: 23

Source: California Environmental Protection Agency
Telephone: 916-323-3400
Last EDR Contact: 05/10/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Annually

CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/29/2005
Date Made Active in Reports: 09/21/2005
Number of Days to Update: 23

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 05/10/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

NFA: No Further Action Determination

This category contains properties at which DTSC has made a clear determination that the property does not pose a problem to the environment or to public health.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/29/2005
Date Made Active in Reports: 10/06/2005
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/10/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Quarterly

NFE: Properties Needing Further Evaluation

This category contains properties that are suspected of being contaminated. These are unconfirmed contaminated properties that need to be assessed using the PEA process. PEA in Progress indicates properties where DTSC is currently conducting a PEA. PEA Required indicates properties where DTSC has determined a PEA is required, but not currently underway.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/29/2005
Date Made Active in Reports: 09/21/2005
Number of Days to Update: 23

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/10/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Quarterly

REF: Unconfirmed Properties Referred to Another Agency

This category contains properties where contamination has not been confirmed and which were determined as not requiring direct DTSC Site Mitigation Program action or oversight. Accordingly, these sites have been referred to another state or local regulatory agency.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/29/2005
Date Made Active in Reports: 10/06/2005
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/10/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Quarterly

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 06/06/2006
Date Data Arrived at EDR: 06/07/2006
Date Made Active in Reports: 07/06/2006
Number of Days to Update: 29

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 06/07/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 05/01/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: No Update Planned

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 03/13/2006
Date Data Arrived at EDR: 03/15/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 29

Source: Integrated Waste Management Board
Telephone: 916-341-6320
Last EDR Contact: 06/14/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Quarterly

CA WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 03/20/2006
Date Data Arrived at EDR: 03/21/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 23

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 06/22/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Quarterly

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 07/24/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Quarterly

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 05/29/2001
Date Made Active in Reports: 07/26/2001
Number of Days to Update: 58

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-9100
Last EDR Contact: 07/24/2006
Next Scheduled EDR Contact: 10/23/2006
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 04/07/2006
Date Data Arrived at EDR: 04/11/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 30

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 07/12/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Quarterly

LUST: Geotracker's Leaking Underground Fuel Tank Report
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 04/10/2006
Date Data Arrived at EDR: 04/11/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-341-5752
Last EDR Contact: 07/12/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Quarterly

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 06/26/2006
Next Scheduled EDR Contact: 09/25/2006
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 916-542-5424
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-4130
Last EDR Contact: 05/08/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Varies

LUST REG 7: Leaking Underground Storage Tank Case Listing

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-346-7491
Last EDR Contact: 05/22/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-346-7491
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Date of Government Version: 04/01/2006
Date Data Arrived at EDR: 04/27/2006
Date Made Active in Reports: 05/26/2006
Number of Days to Update: 29

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 07/07/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 3: Leaking Underground Storage Tank Database

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 05/15/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-576-2220
Last EDR Contact: 05/22/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 07/10/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SLIC: Statewide SLIC Cases

The Spills, Leaks, Investigations, and Cleanups (SLIC) listings includes unauthorized discharges from spills and leaks, other than from underground storage tanks or other regulated sites.

Date of Government Version: 04/10/2006
Date Data Arrived at EDR: 04/11/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-341-5752
Last EDR Contact: 07/12/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 07/10/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 05/15/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/24/2006
Next Scheduled EDR Contact: 10/23/2006
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 07/06/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 04/06/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 05/31/2006
Date Data Arrived at EDR: 06/01/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 14

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 05/30/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Annually

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 04/10/2006
Date Data Arrived at EDR: 04/11/2006
Date Made Active in Reports: 05/01/2006
Number of Days to Update: 20

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 07/12/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Semi-Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

AST: Aboveground Petroleum Storage Tank Facilities

Registered Aboveground Storage Tanks.

Date of Government Version: 01/30/2006
Date Data Arrived at EDR: 01/30/2006
Date Made Active in Reports: 02/17/2006
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5712
Last EDR Contact: 05/26/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Quarterly

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1980's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 11/30/2005
Date Made Active in Reports: 01/19/2006
Number of Days to Update: 50

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 05/22/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Varies

NOTIFY 65: Proposition 65 Records

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993
Date Data Arrived at EDR: 11/01/1993
Date Made Active in Reports: 11/19/1993
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: No Update Planned

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 04/04/2006
Date Data Arrived at EDR: 04/05/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/06/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Semi-Annually

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 06/06/2006
Date Data Arrived at EDR: 06/07/2006
Date Made Active in Reports: 07/06/2006
Number of Days to Update: 29

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 06/07/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Quarterly

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 04/18/2005
Date Data Arrived at EDR: 04/18/2005
Date Made Active in Reports: 05/06/2005
Number of Days to Update: 18

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 04/30/2006
Date Data Arrived at EDR: 05/04/2006
Date Made Active in Reports: 05/26/2006
Number of Days to Update: 22

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 07/24/2006
Next Scheduled EDR Contact: 10/23/2006
Data Release Frequency: Varies

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 05/17/2006
Date Data Arrived at EDR: 05/17/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 29

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 07/24/2006
Next Scheduled EDR Contact: 10/23/2006
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2003
Date Data Arrived at EDR: 10/11/2005
Date Made Active in Reports: 10/31/2005
Number of Days to Update: 20

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 05/11/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 27

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 07/21/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: Varies

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 05/12/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Semi-Annually

INDIAN LUST: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 09/07/2005
Date Data Arrived at EDR: 09/08/2005
Date Made Active in Reports: 10/31/2005
Number of Days to Update: 53

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Varies

INDIAN LUST: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 03/22/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 22

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 02/20/2006
Next Scheduled EDR Contact: 05/22/2006
Data Release Frequency: Varies

INDIAN UST: Underground Storage Tanks on Indian Land

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 03/22/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 22

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR PROPRIETARY RECORDS

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 05/23/2006
Date Data Arrived at EDR: 05/24/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 22

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/24/2006
Next Scheduled EDR Contact: 10/23/2006
Data Release Frequency: Semi-Annually

Underground Tanks

Date of Government Version: 05/23/2006
Date Data Arrived at EDR: 05/24/2006
Date Made Active in Reports: 06/29/2006
Number of Days to Update: 36

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/24/2006
Next Scheduled EDR Contact: 10/23/2006
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 03/20/2006
Date Data Arrived at EDR: 03/21/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 23

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 05/30/2006
Next Scheduled EDR Contact: 05/29/2006
Data Release Frequency: Semi-Annually

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 04/10/2006
Date Data Arrived at EDR: 04/10/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 31

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 07/10/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Semi-Annually

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 03/27/2006
Date Data Arrived at EDR: 03/28/2006
Date Made Active in Reports: 05/01/2006
Number of Days to Update: 34

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 06/23/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Quarterly

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 07/07/1999
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 05/16/2006
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

City of El Segundo Underground Storage Tank

Date of Government Version: 05/30/2006
Date Data Arrived at EDR: 05/31/2006
Date Made Active in Reports: 06/14/2006
Number of Days to Update: 14

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 05/30/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank

Date of Government Version: 03/28/2003
Date Data Arrived at EDR: 10/23/2003
Date Made Active in Reports: 11/26/2003
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Date of Government Version: 05/06/2006
Date Data Arrived at EDR: 05/31/2006
Date Made Active in Reports: 06/14/2006
Number of Days to Update: 14

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 05/30/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Semi-Annually

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 01/31/2006
Date Data Arrived at EDR: 03/24/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 20

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 05/15/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Date of Government Version: 05/16/2006
Date Data Arrived at EDR: 05/30/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 16

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 05/18/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Varies

City of Los Angeles Landfills

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 06/12/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/05/2006
Date Data Arrived at EDR: 02/16/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 25

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 05/15/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Annually

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 02/10/2006
Date Data Arrived at EDR: 02/28/2006
Date Made Active in Reports: 03/23/2006
Number of Days to Update: 23

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 05/01/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Semi-Annually

NAPA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Sites With Reported Contamination

Date of Government Version: 04/03/2006
Date Data Arrived at EDR: 04/04/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 9

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 06/26/2006
Next Scheduled EDR Contact: 09/25/2006
Data Release Frequency: Semi-Annually

Closed and Operating Underground Storage Tank Sites

Date of Government Version: 04/03/2006
Date Data Arrived at EDR: 04/04/2006
Date Made Active in Reports: 05/01/2006
Number of Days to Update: 27

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 06/26/2006
Next Scheduled EDR Contact: 09/25/2006
Data Release Frequency: Annually

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 02/01/2006
Date Data Arrived at EDR: 03/27/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 17

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 06/07/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 03/29/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 15

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 06/07/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 03/28/2006
Date Made Active in Reports: 05/01/2006
Number of Days to Update: 34

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 06/07/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 04/03/2006
Date Data Arrived at EDR: 04/04/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 9

Source: Placer County Health and Human Services
Telephone: 530-889-7312
Last EDR Contact: 03/20/2006
Next Scheduled EDR Contact: 06/19/2006
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Underground Storage Tank Tank List

Date of Government Version: 05/19/2006
Date Data Arrived at EDR: 05/19/2006
Date Made Active in Reports: 06/14/2006
Number of Days to Update: 26

Source: Health Services Agency
Telephone: 951-358-5055
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: Quarterly

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/19/2006
Date Data Arrived at EDR: 05/19/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 27

Source: Department of Public Health
Telephone: 951-358-5055
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS - Contaminated Sites

Date of Government Version: 05/09/2006
Date Data Arrived at EDR: 05/30/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 16

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 05/12/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Quarterly

ML - Regulatory Compliance Master List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 05/09/2006
Date Data Arrived at EDR: 05/30/2006
Date Made Active in Reports: 07/06/2006
Number of Days to Update: 37

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 05/12/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 03/22/2006
Date Data Arrived at EDR: 03/23/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 21

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/16/2005
Date Data Arrived at EDR: 05/18/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 29

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 07/07/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 11/01/2005
Date Data Arrived at EDR: 12/29/2005
Date Made Active in Reports: 01/19/2006
Number of Days to Update: 21

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 06/06/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Varies

SAN FRANCISCO COUNTY:

Local Oversite Facilities

Date of Government Version: 03/16/2006
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 27

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Quarterly

Underground Storage Tank Information

Date of Government Version: 03/16/2006
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 27

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 02/28/2006
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 27

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: Semi-Annually

SAN MATEO COUNTY:

Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 05/02/2006
Date Data Arrived at EDR: 05/02/2006
Date Made Active in Reports: 05/26/2006
Number of Days to Update: 24

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 07/24/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Annually

Fuel Leak List

Date of Government Version: 04/17/2006
Date Data Arrived at EDR: 04/24/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 17

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 07/09/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Semi-Annually

SANTA CLARA COUNTY:

Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 06/26/2006
Next Scheduled EDR Contact: 09/25/2006
Data Release Frequency: No Update Planned

LOP Listing

A listing of open leaking underground storage tanks.

Date of Government Version: 03/29/2006
Date Data Arrived at EDR: 03/30/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 14

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 07/10/2006
Next Scheduled EDR Contact: 09/25/2006
Data Release Frequency: Varies

Hazardous Material Facilities

Date of Government Version: 03/09/2006
Date Data Arrived at EDR: 03/13/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 31

Source: City of San Jose Fire Department
Telephone: 408-277-4659
Last EDR Contact: 06/30/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Annually

SOLANO COUNTY:

Leaking Underground Storage Tanks

Date of Government Version: 04/10/2006
Date Data Arrived at EDR: 04/10/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 31

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/26/2006
Next Scheduled EDR Contact: 09/25/2006
Data Release Frequency: Quarterly

Underground Storage Tanks

Date of Government Version: 04/25/2006
Date Data Arrived at EDR: 05/08/2006
Date Made Active in Reports: 06/14/2006
Number of Days to Update: 37

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/26/2006
Next Scheduled EDR Contact: 09/25/2006
Data Release Frequency: Quarterly

SONOMA COUNTY:

Leaking Underground Storage Tank Sites

Underground Storage Tank Comprehensive Facility Report

Date of Government Version: 04/17/2006
Date Data Arrived at EDR: 05/11/2006
Date Made Active in Reports: 06/14/2006
Number of Days to Update: 34

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: Annually

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/17/2006
Date Made Active in Reports: 04/07/2006
Number of Days to Update: 49

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 06/14/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 04/24/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 8

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/05/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 05/02/2006
Date Data Arrived at EDR: 05/31/2006
Date Made Active in Reports: 06/27/2006
Number of Days to Update: 27

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/31/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 05/04/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 33

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/12/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 09/30/2005
Date Data Arrived at EDR: 05/09/2006
Date Made Active in Reports: 05/24/2006
Number of Days to Update: 15

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 46

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 07/11/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: PennWell Corporation
Telephone: (800) 823-6277
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

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GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

DEVRY UNIVERSITY
22801 ROSCOE BOULEVARD
WEST HILLS, CA 91304

TARGET PROPERTY COORDINATES

Latitude (North):	34.21990 - 34° 13' 11.6"
Longitude (West):	118.6244 - 118° 37' 27.8"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	350367.0
UTM Y (Meters):	3787536.5
Elevation:	845 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	34118-B6 CALABASAS, CA
Most Recent Revision:	1967
East Map:	34118-B5 CANOGA PARK, CA
Most Recent Revision:	1967

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

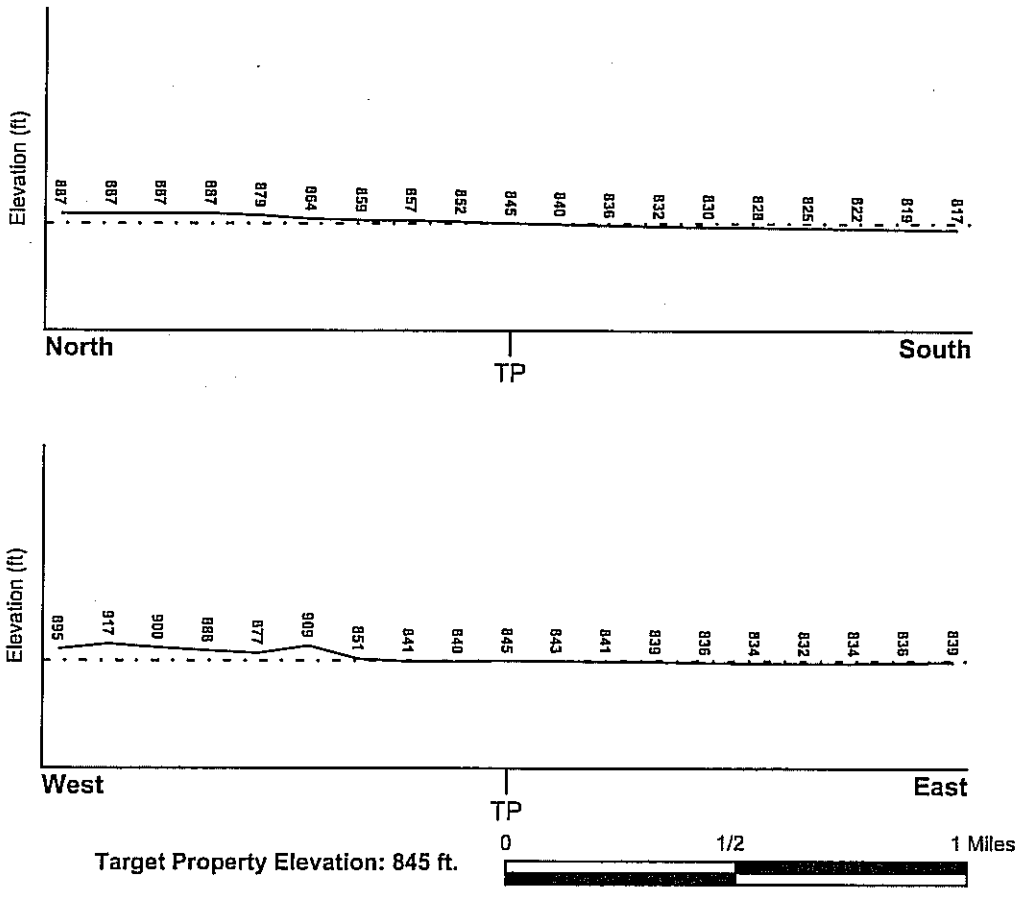
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General South

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
LOS ANGELES, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 0601370026C

Additional Panels in search area: 0601370017C

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
CANOGA PARK	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Mesozoic
System:	Cretaceous
Series:	Upper Cretaceous
Code:	uK *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	URBAN LAND
Soil Surface Texture:	variable
Hydrologic Group:	Not reported
Soil Drainage Class:	Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	Not Reported
Depth to Bedrock Min:	> 10 Inches
Depth to Bedrock Max:	> 10 Inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures:
loam
clay
silt loam
clay loam
sandy loam
gravelly - sandy loam
loamy sand
fine sand
coarse sand
sand
gravelly - sand

Surficial Soil Types:
loam
clay
silt loam
clay loam
sandy loam
gravelly - sandy loam
loamy sand
fine sand
coarse sand
sand
gravelly - sand

Shallow Soil Types:
fine sandy loam
gravelly - loam
sand
silty clay

Deeper Soil Types:
stratified
clay loam
silty clay loam
gravelly - sandy loam
coarse sand
sand
weathered bedrock
very fine sandy loam

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	CA3900735	1/2 - 1 Mile South

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 1721915.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: DeVry University	CLIENT: Winzler & Kelly
ADDRESS: 22801 Roscoe Boulevard West Hills CA 91304	CONTACT: Candice M. Cassato
LAT/LONG: 34.2199 / 118.6244	INQUIRY #: 1721915.2s DATE: July 24, 2006

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
1 **South** **1/2 - 1 Mile** **Lower**		**FRDS PWS**	**CA3900735**

PWS ID: CA3900735 PWS Status: Not Reported
Date Initiated: Not Reported Date Deactivated: Not Reported
PWS Name: CHARTER WAY MOBILE HOME PARK
HUNTINGTON BEACH, CA 926491828

Addressee / Facility: System Owner/Responsible Party
CASA DE SANTIAGO
16582 GRIMAUD LANE
HUNTINGTON BEACH, CA 926491828

Facility Latitude: 34 12 42 Facility Longitude: 118 37 30
City Served: Not Reported
Treatment Class: Untreated Population: 150

PWS currently has or had major violation(s) or enforcement: Yes

Violations information not reported.

ENFORCEMENT INFORMATION:

System Name: CHARTER WAY MOBILE HOME PA
Violation Type: Initial Tap Sampling for Pb and Cu
Contaminant: LEAD & COPPER RULE
Compliance Period: 1993-07-01 - 2000-04-04 Analytical Value: 0000000.000000000
Violation ID: 95V0001 Enforcement ID: 0089899
Enforcement Date: 2000-04-04 Enf. Action: State Compliance Achieved

System Name: CHARTER WAY MOBILE HOME PA
Violation Type: Initial Tap Sampling for Pb and Cu
Contaminant: LEAD & COPPER RULE
Compliance Period: 1993-07-01 - 2000-04-04 Analytical Value: 0000000.000000000
Violation ID: 95V0001 Enforcement ID: 0089899
Enforcement Date: 2000-04-04 Enf. Action: State Compliance Achieved

System Name: CHARTER WAY MOBILE HOME PA
Violation Type: Initial Tap Sampling for Pb and Cu
Contaminant: LEAD & COPPER RULE
Compliance Period: 1993-07-01 - 2015-12-31 Analytical Value: 0000000.000000000
Violation ID: 95V0001 Enforcement ID: Not Reported
Enforcement Date: Not Reported Enf. Action: Not Reported

WINZLER & KELLY
CONSULTING ENGINEERS

8. Are there currently, or to the best of your knowledge have there been previously, any *pits, ponds, or lagoons* located on the *property* in connection with waste treatment or waste disposal.

☐ Yes ☒ No ☐ Unknown on adjoining northerly property

9. Is there currently, or to the best of your knowledge has there been previously, any stained soil on the *property*? If yes, describe.

☐ Yes ☒ No ☐ Unknown _____

10. Are there currently, or to the best of your knowledge have there been previously, any registered or unregistered storage tanks (above or underground) located on the *property*?

☐ Yes ☒ No ☐ Unknown ~~on adjoining~~ northerly property

11. Are there currently, or to the best of your knowledge have there been previously, any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the *property* or adjacent to any structure located on the *property*? If yes, describe.

☐ Yes ☒ No ☐ Unknown _____

12. Are there currently, or to the best of your knowledge have there been previously, any flooring, drains, or walls located within the facility that are stained by substances other than water or are emitting foul odors? If yes, describe.

☐ Yes ☒ No ☐ Unknown _____

13. Is the property served by a private well or non-public water system, or is all water service provided by the city or other water agency?

☐ Private well or non-public water system (Go to 13a) ☒ City or other water agency

13a. *If the property is served by a private well or non-public water system:* Have contaminants been identified in the well or system that exceed guidelines applicable to the water system or has the well been designated as contaminated by any government/health agency?

☐ Yes ☒ No ☐ Unknown _____

14. Do you have any knowledge of environmental liens or governmental notification relating to past or recurrent violations of environmental laws with respect to the *property* or any facility located on the *property*? If yes, describe.

☐ Yes ☒ No ☐ Unknown _____

15. Have you been informed of the past or current existence of *hazardous substances or petroleum products* or environmental violations with respect to the *property* or any facility located on the *property*? If yes, describe.

☐ Yes ☒ No ☐ Unknown _____

16. Do you have any knowledge of any environmental site assessment of the *property* that indicated the presence of *hazardous substances or petroleum products* on, or contamination of, the *property* or recommended further assessment of the *property*? If yes, describe.

26. Has the facility ever had electric transformers, capacitors, or hydraulic equipment such as elevators or car repair lifts? If yes, describe.

☐ Yes ☑ No ☐ Unknown _____

27. Are you aware of the presence of any asbestos-containing or presumed asbestos-containing building materials at the property? If yes, describe.

☐ Yes ☒ No ☐ Unknown _____

28. Are you aware of the presence of any lead-based paint in the building? If yes, describe.

☐ Yes ☒ No ☐ Unknown _____

Questionnaire completed by:

Signature: [signature]
Name: Ken Kalicki
Company: Transwell Crow Company
Address: 8413 Fallbrook Ave. Suite 100 West Hills, CA, 91304

Date: 7/24/06
Title: SUP
Phone: 818-727-1193
Relationship To Property:
_____ Owner
X Owner's Representative
_____ Tenant
_____ Other: _____

Exhibit G. City of Los Angeles Fire Dept. Responses

Los Angeles City Fire Department

Telephone (213) 978-3691 Fax (213) 978-3615
200 N. Main St., 17th Fl, Los Angeles CA 90012

Request for Information
Hazardous Materials Records

*** COMPLETE ONE FORM FOR EACH ADDRESS**

Request Date: 07/24/06

Requestor's Name: CANDICE M. CASSATO Fax #: (714) 854-1895

Company/Agency: WINZLER & KELLY CONSULTING Ph. #: (714) 213-3182

Address: 3531 E. MIRALOMA AVE. Unit/Ste. #:

City: ANAHEIM State: CA Zip: 92806

Information is requested for

☐ Active Facilities Only

Check all that apply: ☐ Inventory Summary ☐ Review File (appt. required)

Business Name:

Storage Address: 22801 ROSCOE BLVD Unit/Ste. #:

City: WEST HILLS State: CA Zip: 91304

Reason for Request: PHASE I ENVIRONMENTAL SITE ASSESSMENT

FOR OFFICE USE ONLY

☒ NO INFORMATION ON FILE
☐ HARD FILE DESTROYED

☐ INFORMATION AVAILABLE

Facility I.D. No.:
Request No.:
Processed Date: 7-25-06
APPT. TO REVIEW FILE:

Processor Signature: AM

Fee Schedule:
Inventory Summary $11.00

Request Review File Copies:
Initial Fee $ 1.10
# of pgs. ____ x $0.10 = $

TOTAL: $

Los Angeles City Fire Department

Telephone (213) 978-3691 Fax (213) 978-3615
200 N. Main St., 17th Fl, Los Angeles CA 90012

Request for Information
Hazardous Materials Records

*** COMPLETE ONE FORM FOR EACH ADDRESS**

Request Date: 07-24-06

Requestor's Name: CANDICE M. CASSATO Fax #: (714) 854-1895

Company/Agency: WINZLER & KELLY CONSULTING Ph. #: (714) 213-3182

Address: 3531 E. MIRALOMA AVE. Unit/Ste. #:

City: ANAHEIM State: CA Zip: 92806

Information is requested for

☐ Active Facilities Only

Check all that apply: ☐ Inventory Summary ☐ Review File (appt. required)

Business Name:

Storage Address: 8413 FALLBROOK AVE Unit/Ste. #:

City: WEST HILLS State: CA Zip: 91304

Reason for Request: PHASE I ENVIRONMENTAL SITE ASSESSMENT

FOR OFFICE USE ONLY

☒ NO INFORMATION ON FILE
☐ HARD FILE DESTROYED

Fee Schedule:
Inventory Summary $11.00

☐ INFORMATION AVAILABLE

Facility I.D. No.:
Request No.:
Processed Date: 7-25-06
APPT. TO REVIEW FILE:

Request Review File Copies:
Initial Fee $ 1.10
# of pgs. _____ x $0.10 = $

Processor Signature: AM

TOTAL: $

UNDERGROUND TANKS REQUEST FOR FIRE PREVENTION RECORDS

OFFICE - 213/978-3700 FAX - 213/978-3616

ONE ADDRESS ONLY - PER SHEET

↓ COMPLETE THIS BOX. ONE FOR EACH PROPERTY CONCERNED ↓

PHONE NO: (714) ~~213~~ 213-3182

FAX NO: (714) 854-1895

NAME OF REQUESTER (PLEASE PRINT): CANDICE CASSATO

REPRESENTING (COMPANY NAME): WINZLER & KELLY CONSULTING ENGINEERS

SIGNATURE: Candice M Cassato DATE: 07 / 24 / 06

DRIVER LIC NO: A 4160811 EXP: 11-27-09

ADDRESS FOR WHICH RECORDS ARE REQUESTED: 22801 ROSCOE BLVD, WEST HILLS, CA.

REASON FOR REQUEST: PHASE I ENVIRONMENTAL SITE ASSESSMENT

	UGT PLAN CHECK UNIT		CENTRAL PUBLIC ASSEMBLAGE UNIT
	UGT ENFORCEMENT UNIT		WEST PUBLIC ASSEMBLAGE UNIT
	CENTRAL INDUSTRIAL UNIT		VALLEY INDUSTRIAL/BRUSH UNIT
	HIGH-RISE UNIT		VALLEY PUBLIC SAFETY UNIT
	SCHOOLS & CHURCHS UNIT		WEST INDUSTRIAL UNIT
	INSTITUTIONS UNIT		HARBOR INDUSTRIAL UNIT
	ENGINEERING UNIT		OTHER

☐ REVIEW ONLY (NO COPIES)

☐ REQUEST COPIES

NUMBER OF COPIES: _____

X .10 ¢

= _____

+ $11.00

TOTAL FEE AMOUNT: _____

BILLING &ACCOUNTS RECEIVABLE
16TH FLOOR, ROOM #1620 (REV CODE #3887)

AMOUNT PAID $

SIGNATURE:

UNDERGROUND TANKS REQUEST FOR FIRE PREVENTION RECORDS

OFFICE - 213/978-3700 FAX - 213/978-3616

ONE ADDRESS ONLY - PER SHEET

↓ COMPLETE THIS BOX. ONE FOR EACH PROPERTY CONCERNED ↓

PHONE NO: (714) 213-3182

FAX NO: (714) 854-1895

NAME OF REQUESTER (PLEASE PRINT): CANDICE CASSATO

REPRESENTING (COMPANY NAME): WINZLER & KELLY CONSULTING ENGINEERS

SIGNATURE: Candice M Cassato DATE: 07/24/06

DRIVER LIC NO: A 4160811 EXP: 11-27-09

ADDRESS FOR WHICH RECORDS ARE REQUESTED: 8413 FALLBROOK AVENUE

WEST HILLS, CA

REASON FOR REQUEST: PHASE I SITE ASSESSMENT

	UGT PLAN CHECK UNIT		CENTRAL PUBLIC ASSEMBLAGE UNIT
	UGT ENFORCEMENT UNIT		WEST PUBLIC ASSEMBLAGE UNIT
	CENTRAL INDUSTRIAL UNIT		VALLEY INDUSTRIAL/BRUSH UNIT
	HIGH-RISE UNIT		VALLEY PUBLIC SAFETY UNIT
	SCHOOLS & CHURCHS UNIT		WEST INDUSTRIAL UNIT
	INSTITUTIONS UNIT		HARBOR INDUSTRIAL UNIT
	ENGINEERING UNIT		OTHER

☐ REVIEW ONLY (NO COPIES)

☐ REQUEST COPIES

NUMBER OF COPIES: _____

X .10 ¢

= _____

+ $11.00

TOTAL FEE AMOUNT: _____

BILLING &ACCOUNTS RECEIVABLE
16TH FLOOR, ROOM #1620 (REV CODE #3887)

AMOUNT PAID $

SIGNATURE:

UNDERGROUND TANKS REQUEST FOR FIRE PREVENTION RECORDS

OFFICE - 213/978-3700 FAX - 213/978-3616

ONE ADDRESS ONLY - PER SHEET

↓ COMPLETE THIS BOX. ONE FOR EACH PROPERTY CONCERNED ↓

PHONE NO: (714) 213-3182

FAX NO: (714) 854-1895

NAME OF REQUESTER (PLEASE PRINT): CANDICE CASSATO

REPRESENTING (COMPANY NAME): WINZLER & KELLY CONSULTING ENGINEERS

SIGNATURE: Candice M Cassato DATE: 07/24/06

DRIVER LIC NO: A 4160811 EXP: 11-27-09

ADDRESS FOR WHICH RECORDS ARE REQUESTED: 8433 FALLBROOK AVE, WEST HILLS, CA

REASON FOR REQUEST: PHASE I ENVIRONMENTAL SITE ASSESSMENT

	UGT PLAN CHECK UNIT		CENTRAL PUBLIC ASSEMBLAGE UNIT
	UGT ENFORCEMENT UNIT		WEST PUBLIC ASSEMBLAGE UNIT
	CENTRAL INDUSTRIAL UNIT		VALLEY INDUSTRIAL/BRUSH UNIT
	HIGH-RISE UNIT		VALLEY PUBLIC SAFETY UNIT
	SCHOOLS & CHURCHS UNIT		WEST INDUSTRIAL UNIT
	INSTITUTIONS UNIT		HARBOR INDUSTRIAL UNIT
	ENGINEERING UNIT		OTHER

☐ REVIEW ONLY (NO COPIES)

☐ REQUEST COPIES

NUMBER OF COPIES: _____

X .10 ¢

= _____

+ $11.00

TOTAL FEE AMOUNT: _____

BILLING &ACCOUNTS RECEIVABLE
16TH FLOOR, ROOM #1620 (REV CODE #3887)

AMOUNT PAID $

SIGNATURE:

Exhibit H. Assessor's Parcel Map

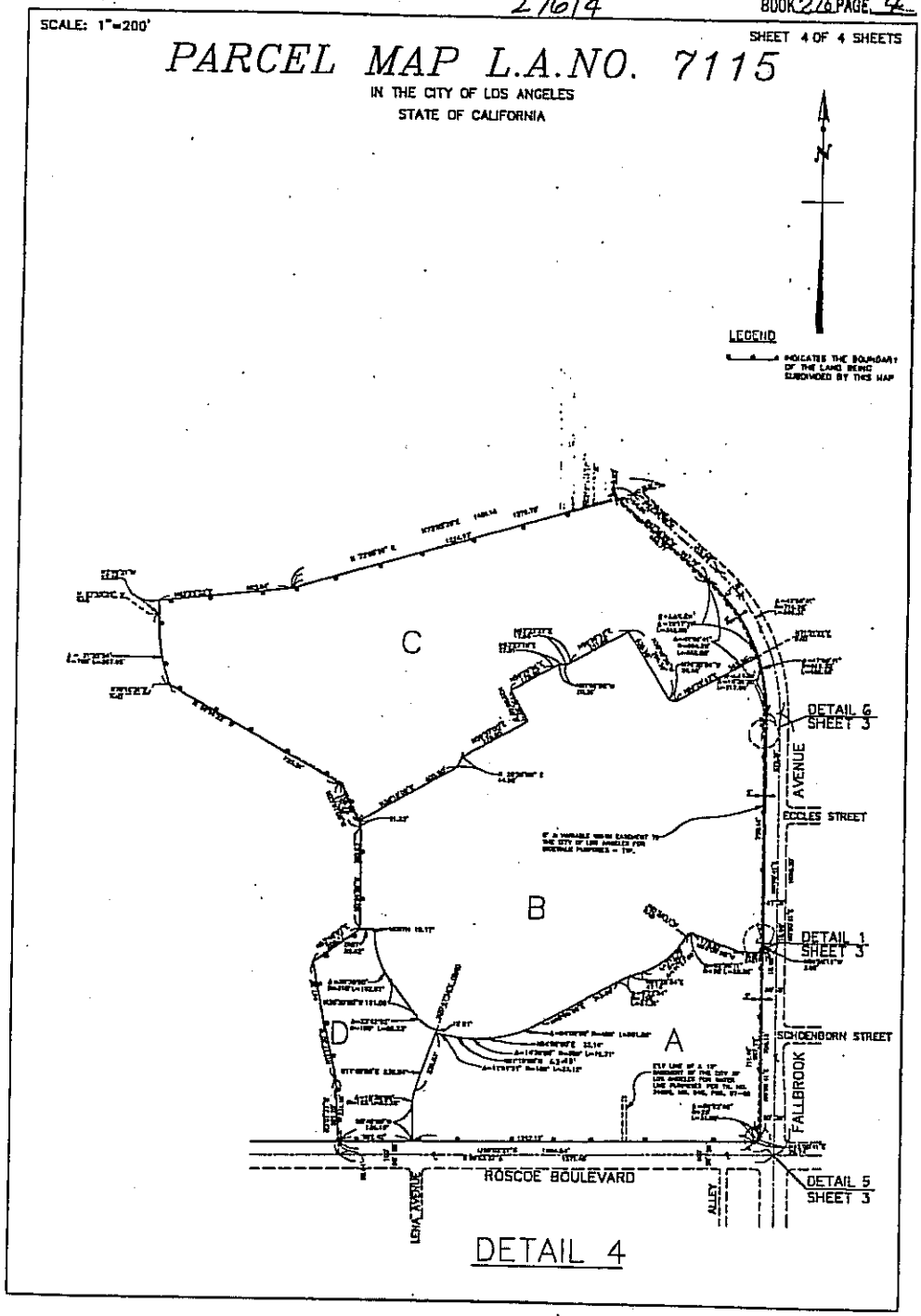
276/4 BOOK 226 PAGE 4

SCALE: 1"=200'

SHEET 4 OF 4 SHEETS

PARCEL MAP L.A.NO. 7115

IN THE CITY OF LOS ANGELES
STATE OF CALIFORNIA



DETAIL 4

Description: Los Angeles,CA Parcel Map 276.1 Page: 4 of 4
Order: 6153677 Comment:

Exhibit I. Fluor Daniel GTI Additional Site Assessment Report

FLUOR DANIEL GTI

ADDITIONAL SITE ASSESSMENT REPORT
SAMPLING AND ANALYSIS
FOR VICINITY OF CM-10 AND PARKING AREA
ADJACENT TO BUILDINGS 265, 274, AND 276
FORMER RAYTHEON MISSILE SYSTEMS COMPANY
8433 FALLBROOK AVENUE
CANOGA PARK, CALIFORNIA

Fluor Daniel GTI Project 105217

September 3, 1998

Prepared for:
Ms. Jean Roberts
Raytheon Missile Systems Company
1151 East Hermans Road
Building 826
Tucson, Arizona 85734

Fluor Daniel GTI, Inc.
Prepared by:

Robert A. Davis, Jr., R.E.A.
Project Geologist

REGISTERED GEOLOGIST
Peter
Raftery
NO. 4018
STATE OF CALIFORNIA

Peter J. Raftery, RG, CHG
Senior Hydrogeologist

Fluor Daniel GTI, Inc.
Submitted by:

Daniel L. Grasmick, P.E.
Project Engineer

R6123

1.0 INTRODUCTION

The former Raytheon Missile Systems Company (RMSC) facility at 8433 Fallbrook Avenue in Canoga Park, California (Figure 1-1), has been the subject of environmental assessment work since 1984. The facility, which was used to conduct research and development of advanced military missile systems, made use of a variety of solvents and other chemicals in moderate quantities. Thirteen underground storage tanks (USTs) were maintained for holding fuel, hydraulic oil, waste oil, and spent solvents. All USTs which contained fuel hydrocarbons, oil, or solvents were removed between 1984 and 1991.

Soil and groundwater assessment began in 1984 and has continued to date. Groundwater monitoring involving approximately 30 wells has been conducted regularly since 1991. An extensive facility-wide soil assessment was performed in 1993. Remediation methods, including excavation and in-situ techniques, have been employed to address several petroleum hydrocarbon or solvent releases to soil and/or groundwater at various locations within the facility.

The California Environmental Protection Agency (CalEPA), Department of Toxic Substances Control (DTSC) has been provided extensive information on investigation and remediation activities at the site. In a letter from Yolanda Garza of DTSC to Pamela Beilke of RMSC, dated June 5, 1997, several solid waste management units (SWMUs) and areas of concern (AOCs) at the former RMSC, Canoga Park facility were identified by the DTSC. Based on the DTSC's review of past site investigation and cleanup summary documentation, the SWMUs and AOCs were identified as needing additional investigation. The criteria for including each SWMU and AOC in the list were also described in the June 1997 letter and attachment.

In the June 5, 1997 letter, the DTSC expressed concern that the area within, at, or nearby Building 274 may be a source of trichlorofluoromethane (Freon 11). The DTSC noted that "Building 274 was reported in the Potential Source Area Investigation Report (PSAIR) as having been used for solvent cleaning...specific solvents listed... included 1,1,1-TCA and Freon 11..." The DTSC's letter also indicated that groundwater samples taken from quasi-downgradient monitoring well CM-10 exhibited significant amounts of Freon 11.

The primary objective of the Additional Site Assessment was to, in response to the DTSC's concerns, assess the lateral extent of Freon 11 in groundwater near the area of monitoring well CM-10 and near buildings 265 and 274. This report describes the scope of work, methods, and procedures that were carried out to delineate potentially impacted groundwater and soil in this area.

Included in the CAP are brief descriptions of work by Hargis & Associates, Cal Science Engineering, McLaren/Hart Environmental, ENSR Consulting and Engineering, American Environmental Management Corporation, Ground Water Resources Consultants, Inc., and Groundwater Technology, Inc. The work included UST removals, excavation of petroleum hydrocarbon-containing soil from areas adjoining USTs, UST-related soil assessment activities, installation and sampling of groundwater monitoring wells, and remediation pilot testing. Post-1992 work at the site included facility-wide assessment (*Report on Facility-Wide Assessment*, Groundwater Technology, Inc., January 4, 1994), additional pilot testing (*Report on Pilot Testing of Remedial Technologies*, Groundwater Technology. Inc., July 20, 1993), and soil sampling and analyses completed during construction of the soil and groundwater remediation system (*Analytical Results for Soil Samples, Remediation System Wells*, Groundwater Technology, Inc., December 12, 1994).

In 1995, a series of soil gas investigations were conducted to delineate the areal extent of Freon 11 contaminated soil. These investigations have shown a limited area of Freon 11 soil gas concentrations in excess of 100 μg/l to the southeast of buildings 265 and 274 (Figure 2-1). This area is believed to be the sole source of Freon 11 contamination to groundwater.

Aerial photographs of the facility show that the area to the southeast of Building 265 was not paved until at least 1960. Between 1963 and 1965, the pavement was extended to the west, to the present location of Building 276. Referring to Figure 2-2, the center of mass of the Freon 11 plume (as delineated through soil vapor sampling) lies on the edge of the original pavement to the southeast of Building 265. Moreover, conversations with former facility maintenance personnel revealed that in 1966, the cooling units in Building 263 were overhauled. The method by which spent Freon 11 was disposed is unknown.

Table 1-1 shows an inventory of coolant used at the former RMSC. As can be seen from Table 1-1, the only location where Freon 11 was used was Building 263. Therefore, the source of Freon 11 could not be from the cooling unit adjacent to Building 274, because Freon 11 was not used in that building.

If the Freon 11 were introduced solely through the asphalt parking lot near the cooling unit adjacent to Building 274, one would expect a more diffuse soil plume closer to the cooling unit. However, as Figure 2-1 shows, the center of mass appears to be localized around the former edge of the original parking lot on the southeastern side of Building 265.

2.0 FIELD SAMPLING PLAN

The installation of three temporary wells and one fixed groundwater monitoring well and subsequent groundwater sampling in the area near buildings 265, 274, and 276 were used to assess the areal extent of Freon 11 encountered in groundwater in this localized area of the facility.

2.1 Basis for Temporary and Fixed Groundwater Monitoring Well Sample Locations

As discussed above, the likely area for the source of contamination would be close to the center of mass of the Freon 11 plume as delineated by the soil vapor surveys. To further delineate the areal extent of groundwater contamination associated with the Freon 11, three temporary groundwater wells and one fixed groundwater monitoring well were constructed around the area of elevated soil gas concentrations.

Figure 2-3 shows the locations for the three temporary groundwater wells and one fixed groundwater monitoring well. The basis for selection of the locations was as follows:

Temporary Groundwater Wells

One temporary groundwater well was installed near the southeast corner of Building 276 to define the southwestern edge of the groundwater plume. Another temporary well was installed between the southwest corner of Building 265 and the northeastern corner of Building 276 to delineate the northwestern edge of the groundwater plume. The third temporary groundwater well was positioned at a location approximately midway between the Freon 11 soil gas plume and the existing groundwater monitoring well, CM-10.

Fixed Groundwater Monitoring Well

One groundwater monitoring well (MW-31) was installed within the center of mass of the soil gas plume located in the parking area between Buildings 274 and 276.

Previous groundwater investigations and groundwater monitoring events have shown "none detected" for Freon 11 in monitoring wells MW-29 and MW-30. Furthermore, hydropunch samples taken from the parking area near the northeastern edge of Building 265 have also shown "none detected" for Freon 11 (ENSR Consulting and Engineering, 1991). In light of this data, no fixed groundwater monitoring wells or temporary wells were proposed for the northeastern or east edge of the groundwater plume.

2.2 Soil Sample Collection Procedures

A truck-mounted hollow stem auger rig equipped with 8-inch diameter augers was used to drill the boreholes for the wells. During drilling activities, soil samples were collected in the vadose zone at 10-foot intervals beginning at 10 feet bgs and continuing to down until shallow groundwater was encountered.

Soil samples were collected within the vadose zone at depth intervals of 10 feet beginning at 10 feet bgs. Each soil sample was collected using a California Modified Split Spoon Sampler fitted with three pre-cleaned stainless steel sleeves. Each sampler and stainless steel sleeve was decontaminated prior to and between each sampling interval. After each sampling event, the sampler was washed in a detergent solution, rinsed in tap water, and then rinsed in distilled water. This method decontaminates the sampler and prevents cross contamination between sampling events. The augers were also decontaminated (steam cleaned) between each boring.

Soil samples were field screened using a hand held organic vapor analyzer equipped with a photoionization detector (PID). Four soil samples from each boring (a total of 36 samples) were submitted to NEL Laboratories, a California-certified analytical laboratory, for analysis.

Soil samples were collected by a Fluor Daniel GTI site geologist under the supervision of a California Registered Geologist. Each sample was logged using the Unified Soil Classification System. In addition, field observations including color, moisture content, the presence or absence of hydrocarbon staining as well as odors were documented on a field log sheet.

Depending upon sample recovery, three soil-filled stainless steel sleeves were collected at 10-foot intervals. Of these three sleeves collected at each sampling point, the bottom sleeve was covered at each end with Teflon™ sheets and covered with plastic end caps. The selected samples were labeled with site name, date, time, and sample number. The samples were stored in plastic bags on ice in an ice chest until picked up by a NEL Laboratories courier who transported the samples, under chain-of-custody protocol, to NEL Laboratories, a California-certified laboratory, for analyses. The middle sleeve was screened for the presence of volatile organic vapors using a hand held PID in the following fashion:

> The soil sample was transferred into a ziplock baggie and sealed. The sealed baggie was then placed in the sun for a minimum of 5 minutes at which time the PID probe was inserted through a small opening made by separating the top seal. The highest PID reading was then written on the field log sheet.

The third and middle samples were used for field logging.

2.3 Groundwater Monitoring Well Installation and Sampling

2.3.1 Temporary Groundwater Well Completion

Upon completion of the soil boring, the borings were converted to temporary wells with 2-inch diameter, Schedule 40 PVC casing with threaded joints. The well screens consisted of 2-inch diameter, Schedule 40 PVC with 0.020-inch slots. Wells were screened based on field observations and conditions. Screened intervals were from 35 to 60 feet (WP-DEV-1), 45 to 70 feet (WP-265-1), and 75 to 100 feet (WP-276-1). Because the wells were temporary, a polyester filter sock was wrapped around the well screen in lieu of a sandpack. Upon completion, the temporary wells were allowed to stand a minimum of 24 hours prior to groundwater sample collection. The open boreholes were covered with plastic, then with plywood, and demarcated with traffic cones to avoid the possibility of surface contamination.

After groundwater sampling, the temporary wells were withdrawn, leaving no materials within the borings. The borings were then abandoned in accordance with state and local requirements. The borings were backfilled with bentonite grout upon removal of well materials. Soil cuttings generated during drilling were contained in 55-gallon drums on site pending chemical analytical results.

2.3.2 Groundwater Monitoring Well Completion

The fixed groundwater monitoring well (MW-31) was constructed in accordance with California State Monitoring Well guidelines. Monitoring well MW-31 was constructed to a depth of 70 feet bgs using an HSA drill rig, and completed with 2-inch diameter, Schedule 40 PVC casing with threaded joints, and 0.02-inch machine slotted screens. The screened interval extended from 45 feet to 70 feet below grade. Blank casing was installed from 45 feet bgs to the ground surface. Static groundwater was measured at 48.3 feet below grade using an interface probe.

The annular space extending from the bottom of the wells to 2 feet above the top of the screened interval (43 feet) was filled with Monterey Number 3 sand. The well was then surged to allow the sand pack to properly settle within the annular space. Sand was added as needed. A 2-foot thick seal of bentonite was then placed above the sand pack. The remaining annular space above the seal (41 feet to surface grade) was backfilled with neat cement/bentonite grout. A locking steel traffic box was placed around the PVC casing at the ground surface.

2.3.3 Groundwater Sample Collection Procedures

The following describes groundwater sampling procedures employed at the temporary and fixed groundwater monitoring wells.

Temporary Groundwater Monitoring Wells

Prior to sampling, the groundwater level was measured in each of the wells. Groundwater purging sampling was accomplished using a pre-cleaned peristaltic pump. During purging, key parameters including temperature, conductivity, and pH were measured with a portable electronic meter and recorded. Purging continued until the monitored parameters stabilized. Following purging, groundwater samples were collected with a Teflon™ bailer and discharged with a non-aerating, bottom-emptying device into sterilized glass VOC vials, capped with Teflon™ septa lids, and placed on ice in an ice chest for transport. Groundwater samples were transported to a State-certified analytical laboratory within 24 hours of collection. Groundwater samples were analyzed for VOCs using EPA Method 8260.

Fixed Groundwater Monitoring Wells

Prior to obtaining water samples, the fixed groundwater monitoring well was developed and purged of water. Approximately four well volumes of water were purged from the well and placed in DOT-approved steel 55-gallon drums. During purging, groundwater pH, temperature, specific conductivity and color were monitored and recorded. Purging continued until the monitored parameters stabilized. Following purging, groundwater samples were collected with a Teflon™ bailer and discharged with a non-aerating, bottom-emptying device into sterilized glass VOC vials, capped with Teflon™ septa lids, and placed on ice in an ice chest for transport. Groundwater samples were transported to a State-certified analytical laboratory within 24 hours of collection according to the April 1998 sampling and analysis work plan. Groundwater samples were analyzed for VOCs using EPA Method 8260.

2.4 Analytical Results for Soil Samples

On May 19 and 20, 1998, 30 soil samples were collected from the four soil borings used to construct the three temporary and one fixed groundwater monitoring wells. Soil samples were collected at 10-foot intervals in each soil boring. All soil samples were submitted to a California-certified analytical laboratory. However, as described in Section 2.2, a field OVA (PID) was used to screen soil samples for the potential presence of VOCs. Of the 30 soil samples collected, 16 were selected for laboratory chemical analyses, including soil samples collected at the maximum depth of each

boring, and samples with the highest OVA field measurements. The following soil samples were analyzed:

WP-265-1	WP-276-1	WP-DEV-1	MW-31
@10'	@10'	@10'	@10'
@40'	@20'	@40'	@20'
@50'	@40'	@50'	@40'
@70'	@50'	@60'	@70'

Summary tables of soil sample analytical results for temporary wells WP-265-1, WP-276-1, WP-DEV-1, and fixed well MW-31 are provided in Tables 2-1 through 2-4, respectively. Photocopies of laboratory summary reports are provided in Appendix B. Photocopies of field log notes, including OVA field measurements collected at each sample depth, are provided in Appendix C. With one exception, concentrations of VOCs in soil were below the reported analytical detection limits in samples collected from all four boring locations. The exception was the detection of trichlorofluoromethane (Freon 11) at a concentration of 7.2 μg/kg in soil sample WP-276-1@50' (Table 2-2).

2.5 Analytical Results for Groundwater Samples

On May 21 and 22, 1998, groundwater samples were collected from temporary groundwater monitoring wells WP-265-1, WP-276-1, and WP-DEV-1, and the fixed monitoring well MW-31. A summary of groundwater sample analytical results is provided in Table 2-5. Photocopies of laboratory summary reports are provided in Appendix B. For comparison, analytical results for a groundwater sample collected from groundwater monitoring well CM-10 is also summarized in Table 2-5. Groundwater monitoring well CM-10 was sampled May 12, 1998 as part of ongoing groundwater and remediation system monitoring performed at the former RMSC facility. Trichlorofluoromethane (Freon 11) was detected in groundwater samples collected from the temporary monitoring well WP-DEV-1 (23 μg/L) and the new fixed groundwater monitoring well MW-31 (150 μg/L).

The groundwater sample collected from groundwater monitoring well CM-10 on May 12, 1998 had a trichlorofluoromethane (Freon 11) concentration of 120 μg/L. No other VOC constituents targeted by EPA Method 8260 were encountered above reported analytical detection limits.

2.6 Analytical Results for Trip and Equipment Blanks (Water)

One trip blank was submitted for chemical analysis each day of soil and groundwater sampling. Laboratory prepared trip blank samples (TB-1, TB-2, and TB-4) were analyzed for VOCs using EPA Method 8260. VOC concentrations were below reported method detection limits in all of the trip blank samples referenced above. Photocopies of trip blank sample laboratory summary reports are provided in Appendix B.

Equipment blank samples were also collected during soil and groundwater sampling activities. Equipment blank samples EB-1, EB-2, and EB-4 were analyzed for VOCs using EPA Method 8260. VOC concentrations were below reported method detection limits in all of the equipment blank samples. Photocopies of equipment blank sample laboratory summary reports are provided in Appendix B.

3.0 QUALITY ASSURANCE/QUALITY CONTROL REVIEW

This section presents the quality assurance/quality control (QA/QC) procedures employed in both the field and the laboratory, and includes their respective results. These procedures were performed in accordance with the April 1998 sampling and analysis work plan.

3.1 Field QA/QC Procedures and Review

Field QA/QC samples were collected to document the accuracy and representativeness of the confirmation samples. They are discussed below.

3.1.1 Field Duplicate Samples

Field duplicate soil samples were collected at a frequency of 10 percent. Each field duplicate was obtained by collecting an additional sample from the same location and time as the original sample, with the same sampling procedures.

Duplicate soil samples were collected from temporary well location WP-276-1 at 50 feet below grade, and from temporary well location WP-DEV-1 at 40 feet below grade surface. The only VOC constituent detected in any of the paired original and duplicate soil samples was trichlorofluoromethane (Freon 11) in WP-276-1@50' (7.2 µg/kg and <5 µg/kg, respectively). The

relative percent difference (RPD) calculated for this sample pairing and constituent was 36 percent. The RPD for the remaining VOC constituents below detectable limits were not calculated.

3.1.2 Equipment Blank Samples

Equipment blank samples are organics-free water aliquots that are placed in contact with nondedicated sampling equipment (e.g., concrete chisel) after the equipment has been decontaminated. Analytical results from these samples are used to evaluate the integrity of the decontamination process and to identify possible cross-contamination of samples. A minimum of one equipment blank sample per day was collected where nondedicated sampling equipment was used. As indicated in Section 2.6, targeted constituents of concern were not detected in equipment blanks collected during sampling activities.

3.1.3 Trip Blank Samples

Trip blank samples are organics-free water aliquots used to evaluate the potential cross-contamination of samples that may occur during sample handling. The trip blank usually originates at the contract laboratory and accompanies the sample bottles to the site. Trip blank bottles and sample analyses are usually limited to 40-ml volatile organic analytes (VOAs). A minimum of one trip blank accompanied each cooler containing VOA samples. As indicated in Section 2.6, VOCs were not detected in trip blanks collected during sampling activities.

3.2 Laboratory QA/QC Procedures and Review

Laboratory QA/QC procedures included the following:

- Laboratory analyses were performed within the required holding times for all samples.
- Appropriate minimum detection limits were achieved for the selected analytical method.
- A state-certified analytical laboratory conducted the required analyses.
- The laboratory provided for each sample a signed laboratory report which included the sample designation, date of sample collection, date of sample analysis, laboratory analytical method employed, sample volume, and the minimum detection level.

- Surrogate spike recoveries in EPA Method 8240/8260 analyses were within acceptable ranges in all soil and groundwater samples.
- Matrix spike and matrix spike duplicate recoveries in EPA Method 8260 were within acceptable ranges.

4.0 SUMMARY

Sampling and analysis activities for the CM-10 area of concern have been implemented in accordance with the April 1998 work plan prepared for this assessment activity. Activities described in the work plan have been completed. Introductory, historical, and background information are provided in Section 1.0 of this report. Field observations and laboratory analytical results are summarized in Section 2.0 of this report. QA/QC procedures implemented during this site assessment are reviewed in Section 3.0 of this report. A summary of findings of these assessment activities is presented below.

- Geologic materials encountered during subsurface drilling consisted of unconsolidated fill, interbedded siltstone, shale, clayey siltstone, and clayey shale, with some interbedded diatomaceous shale.
- The depths to water in temporary groundwater wells WP-265-1, WP-276-1, and WP-DEV-1 were 44, 44.5, and 35.8 feet, respectively. The depth to water in fixed groundwater monitoring well MW-31 was 48.3 feet. Depths to groundwater are generally consistent with data of previous site assessments and ongoing groundwater monitoring and compliance sampling and analyses.
- A trace concentration of trichlorofluoromethane (Freon 11) was encountered in one soil sample collected from soil boring location WP-276-1, at 50 feet below grade surface. However, Freon 11 was not detected in a duplicate soil sample collected at the same location and depth. No other VOCs were detected in any of the soil samples submitted for chemical analyses using EPA Method 8260.
- Freon 11 was not detected above method detection limits in groundwater samples collected from temporary wells WP-265-1 and WP-276-1. These wells were positioned near Buildings 265 and 276, respectively, and near subsurface utilities (subsurface electrical conduit lines and a sewer main, respectively).
- Freon 11 was detected in groundwater samples collected from the temporary well WP-DEV-1, and fixed groundwater monitoring well MW-31 (23 μg/L and 150 μg/L, respectively). No other VOC constituents were detected. The primary maximum contaminant level (MCL) for Freon 11 is 150 μg/L (as promulgated in California's Safe Drinking Water Standard, Title 22 of California Code of Regulations [CCR], Division 4, Chapter 15). Based on concentrations of Freon 11 in WP-DEV-1 and

MW-31, and ongoing analytical data collected from groundwater monitoring well CM-10, Freon 11 concentrations in groundwater underlying the CM-10 area of concern are at, or below, the State MCL.

Based upon the findings of this and previous site assessment activities (ENSR, 1991; Groundwater Technology Inc., 1995 and 1995a; McLaren Hart 1989), the lateral extent of potential impacts to groundwater underlying the CM-10 area of concern has been defined. Installation of a groundwater monitoring well at what is believed to be the sole source area of Freon 11 impacts to groundwater shows groundwater concentrations at the State MCL for this constituent. Further, groundwater quality data collected from temporary wells indicate that Buildings 265 and 276 are not source areas contributing to Freon 11 impacts to groundwater. Finally, downgradient concentrations of Freon 11 in CM-10 and temporary well WP-DEV-1 are below the State MCL for Freon 11.

5.0 RECOMMENDATIONS

In the Corrective Action Plan Addendum (Groundwater Technology, Inc., 1994) issued for the former Hughes Missile Systems Company Facility, no remedial action was proposed for the CM-10 are of concern because Freon 11 concentrations were below the State Drinking Water Standard or Maximum Contaminant Level (MCL) for this constituent. Based on the findings of the current assessment and the observed continuing decline in Freon 11 concentrations over time, a course of action that consists of "Monitor Only" continues to be appropriate for the CM-10 area of concern. No additional subsurface soil or groundwater assessment activities are recommended at this time. Continued quarterly sampling and analysis of groundwater collected from MW-31 and CM-10 are recommended to confirm Freon 11 levels remain at or below State MCLs established for this compound. It is recommended that quarterly monitoring of these wells continue until samples from four consecutive quarters contain concentrations of Freon 11 less than State MCL and cleanup criteria of 150 μg/L.

6.0 REFERENCES

ENSR Consulting and Engineering. 1991. *Supplementary Subsurface Investigations.* Hughes Aircraft Company, Canoga Park Facility. November 1991. ENSR Document No. 3600-051-900.

Groundwater Technology. Inc. 1993. *Report on Pilot Testing of Remedial Technologies. Hughes Missile Systems Company, Canoga Park, California.* July 20, 1993.

Groundwater Technology, Inc. 1994. *Report on Facility-Wide Assessment. Hughes Missile Systems Company, Canoga Park, California.* January 4, 1994.

Groundwater Technology, Inc. 1994. *Corrective Action Plan Addendum. Hughes Missile Systems Company. 8433 Fallbrook Avenue. Canoga Park, California.* March 29, 1994.

Groundwater Technology, Inc. 1994a. *Analytical Results for Soil Samples, Remediation System Wells. Hughes Missile Systems Company. 8433 Fallbrook Avenue. Canoga Park, California.* Letter report to Ms. Pamela Beilke, RMSC. December 12, 1994.

Groundwater Technology, Inc. 1995. *Report on Soil Gas Surveying. Former Hughes Missile Systems Company Site. Canoga Park, California.* August 1, 1995.

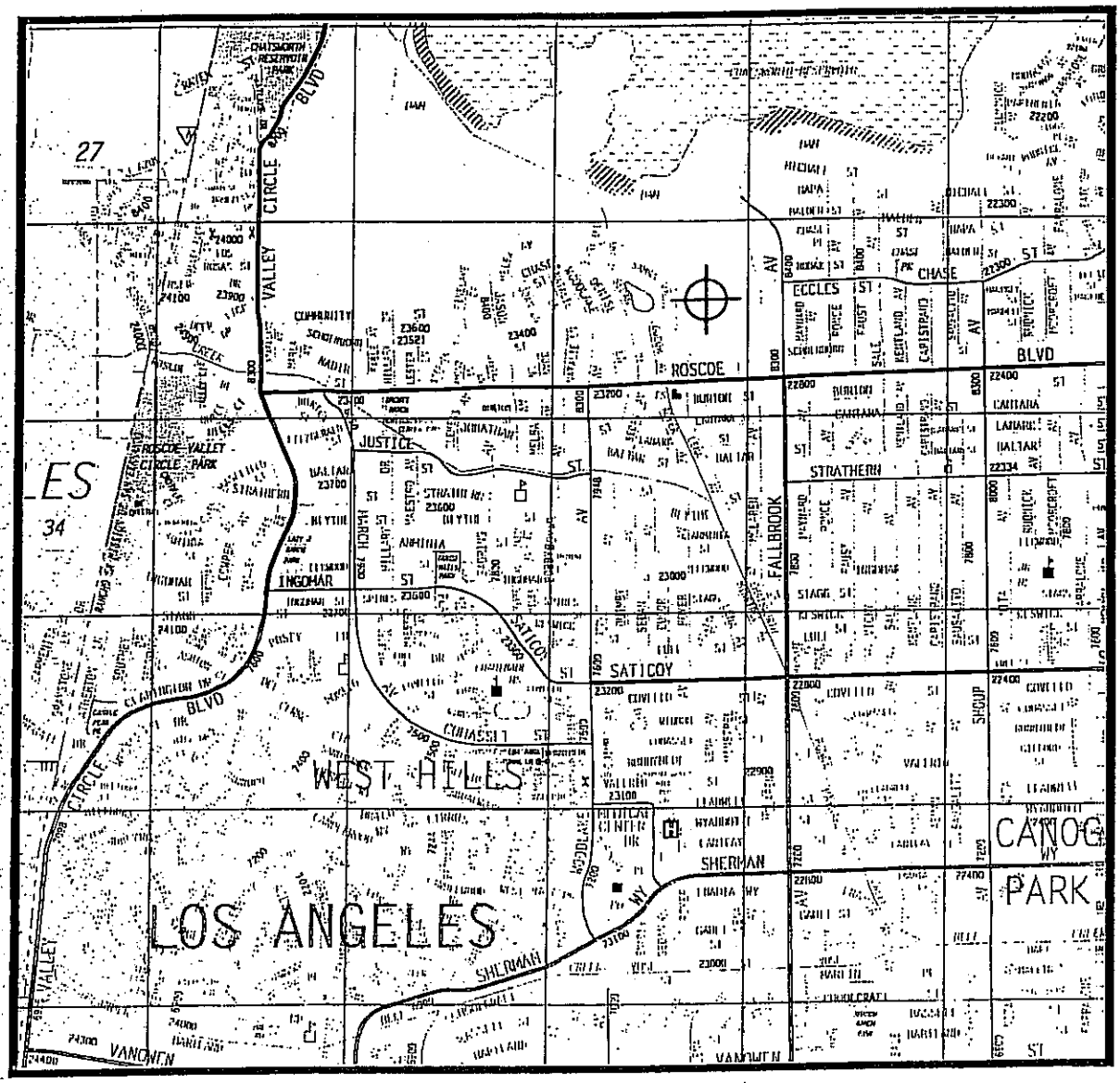
Groundwater Technology, Inc. 1995a. *Additional Soil Surveying, Area 5. Former Hughes Missile Systems Company Site. Canoga Park, California.* Letter Report to Mr. José Kou, DTSC. September 21, 1995.

Hargis & Associates, Inc. 1989. *Results of the Subsurface Investigation and Monitoring Program. Hughes Aircraft Company. Canoga Park, California.* May 3, 1989.

Hughes Environmental Systems, 1992. *Corrective Action Plan for Hughes Missile Systems Company Facility. Canoga Park, California.* October 7, 1992.

Los Angeles Regional- Water Quality Control Board (LARWQCB) *Requirements for Active Soil Gas Investigation, Well Investigation Program* (WIP) March 1994 guidelines (Appendix A).

McLaren Hart. 1989. *Potential Source Area Investigation Report for the Hughes Missile Systems Group, Canoga Park, California.* November 30, 1989.



SOURCE: THOMAS BROS. MAPS.
LOS ANGELES COUNTY
PAGE 529

SITE LOCATION

SCALE: 1:28,800

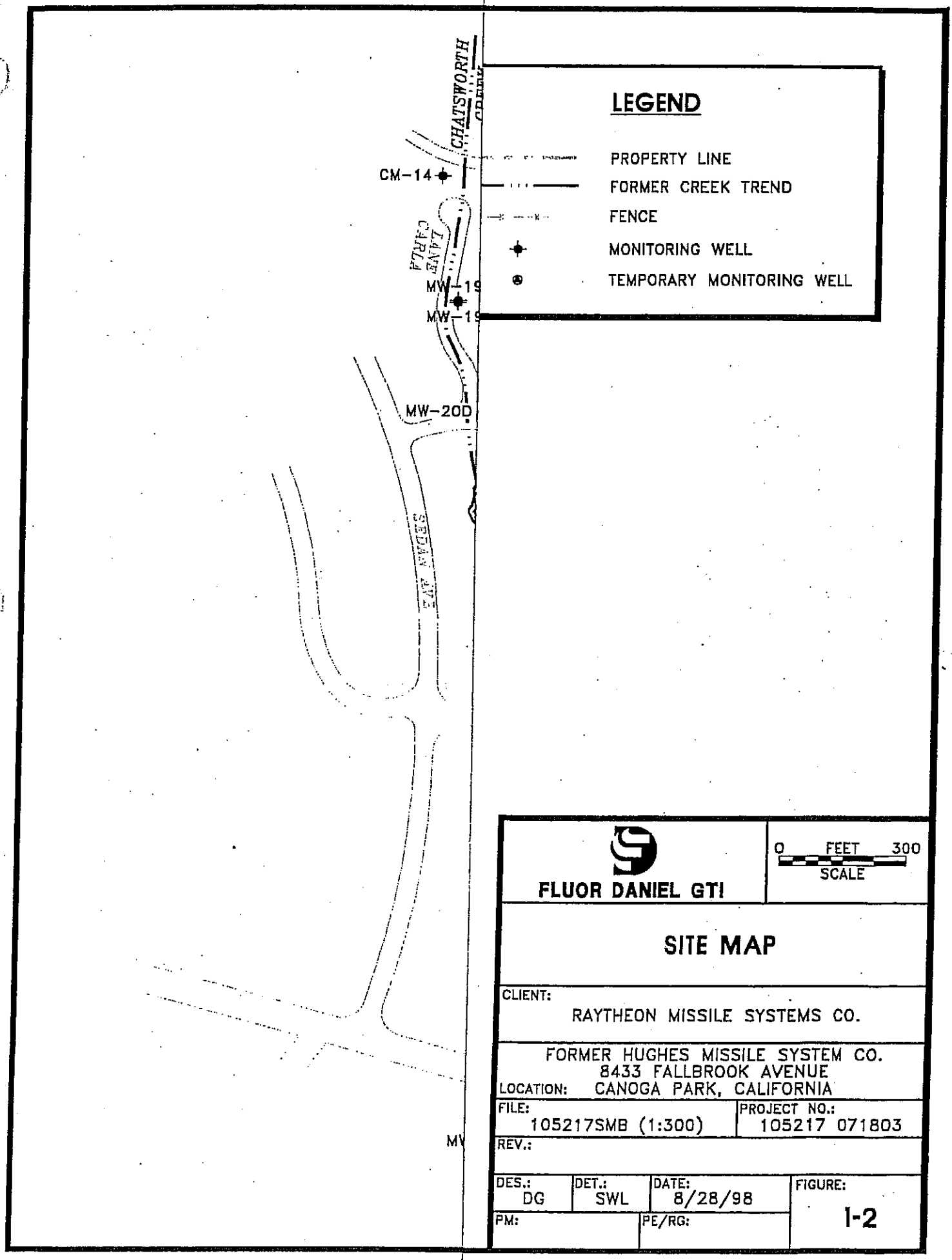
0 2400 4800

SCALE FEET

FLUOR DANIEL GTI

SITE LOCATION MAP

CLIENT: FORMER HUGHES MISSILE SYSTEM CO. FACILITY	FILE: 1193SLM1 (1:1)	PROJECT NO.: 02230 0176	PM	PE/RG
	REV.		FIGURE: 1-1	
LOCATION: 8433 FALLBROOK AVENUE CANOGA PARK, CALIFORNIA	DES. PM	DET. SWL	DATE: 3/5/98	



LEGEND

- PROPERTY LINE
- FORMER CREEK TREND
- FENCE
- MONITORING WELL
- TEMPORARY MONITORING WELL

FLUOR DANIEL GTI

0 FEET 300
SCALE

SITE MAP

CLIENT: RAYTHEON MISSILE SYSTEMS CO.

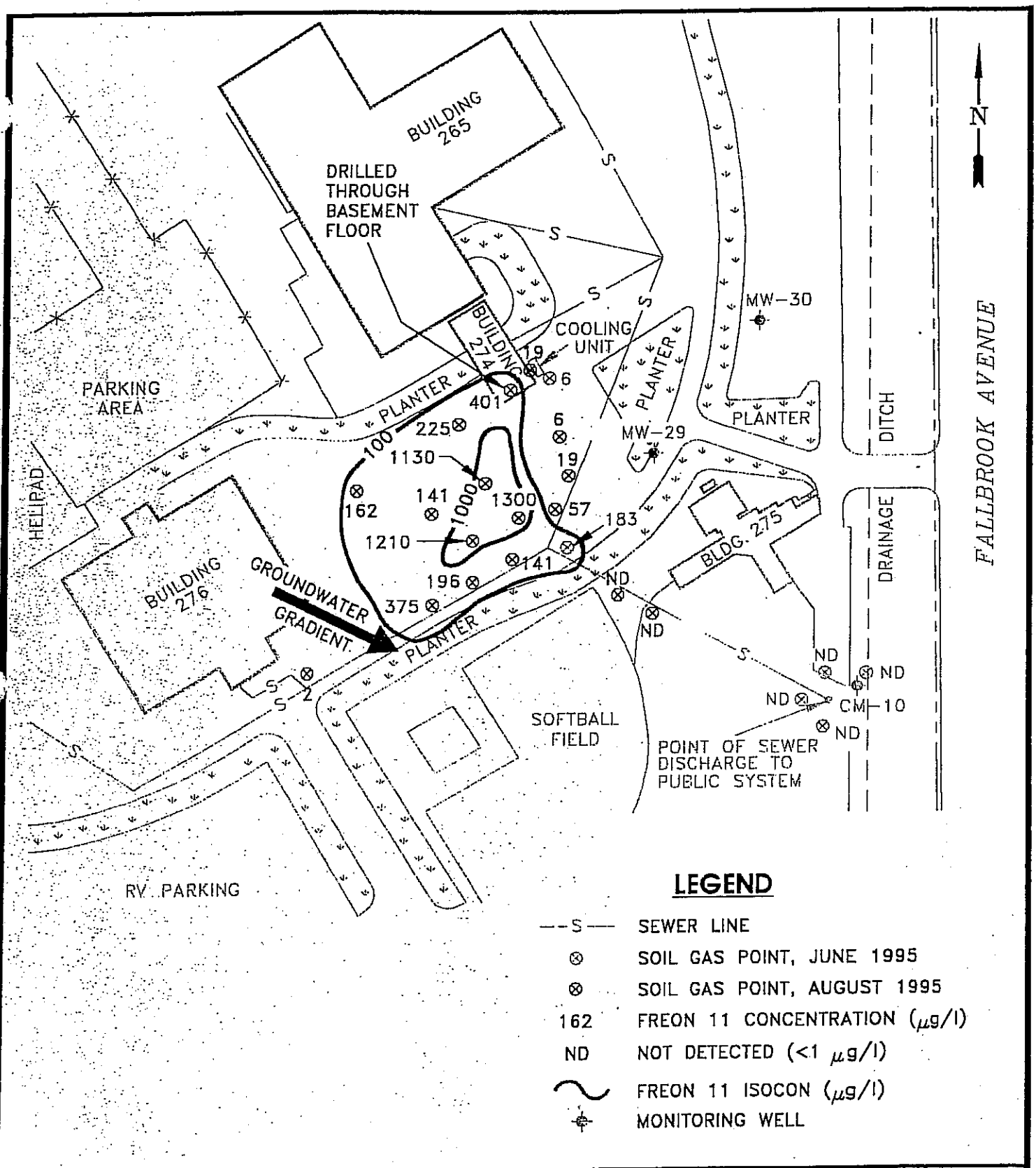
FORMER HUGHES MISSILE SYSTEM CO.
8433 FALLBROOK AVENUE
LOCATION: CANOGA PARK, CALIFORNIA

FILE:	PROJECT NO.:
105217SMB (1:300)	105217 071803

REV.:

DES.:	DET.:	DATE:	FIGURE:
DG	SWL	8/28/98	1-2

PM: PE/RG:



LEGEND

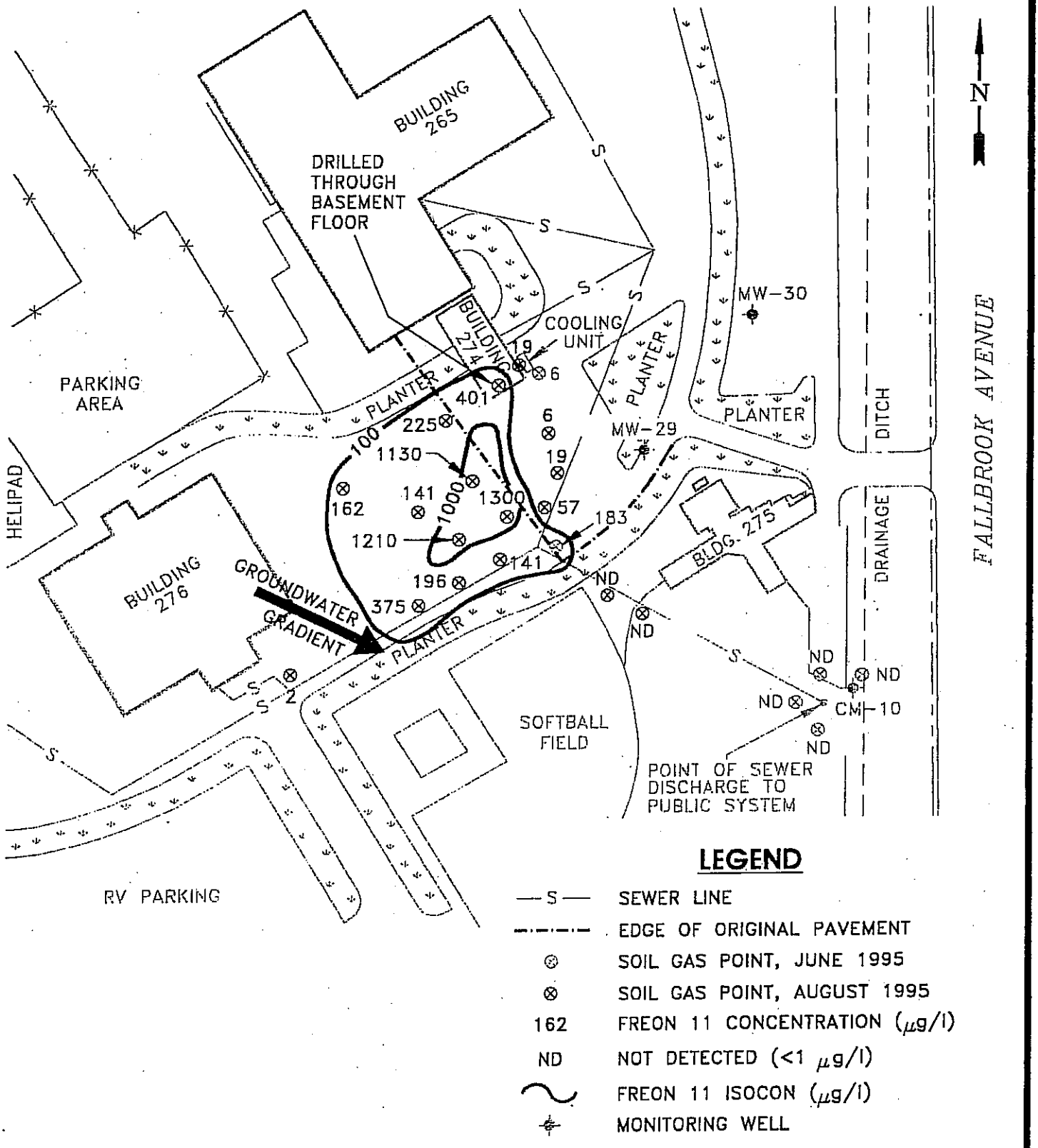
—S—	SEWER LINE
⊗	SOIL GAS POINT, JUNE 1995
⊗	SOIL GAS POINT, AUGUST 1995
162	FREON 11 CONCENTRATION (μg/l)
ND	NOT DETECTED (<1 μg/l)
~	FREON 11 ISOCON (μg/l)
⊕	MONITORING WELL

FLUOR DANIEL GTI

0 FEET 150
APPROXIMATE

FREON 11 CONCENTRATIONS IN SOIL GAS

CLIENT: RAYTHEON MISSILE SYSTEM CO.	FILE: 102599-1 (1:1800)	PROJECT NO.: 102599		PM	PE/RG
	REV.			FIGURE: 2-1	
LOCATION: 8433 FALLBROOK AVENUE CANOGA PARK, CALIFORNIA	DES. RB	DET. SWL	DATE: 8/28/98		

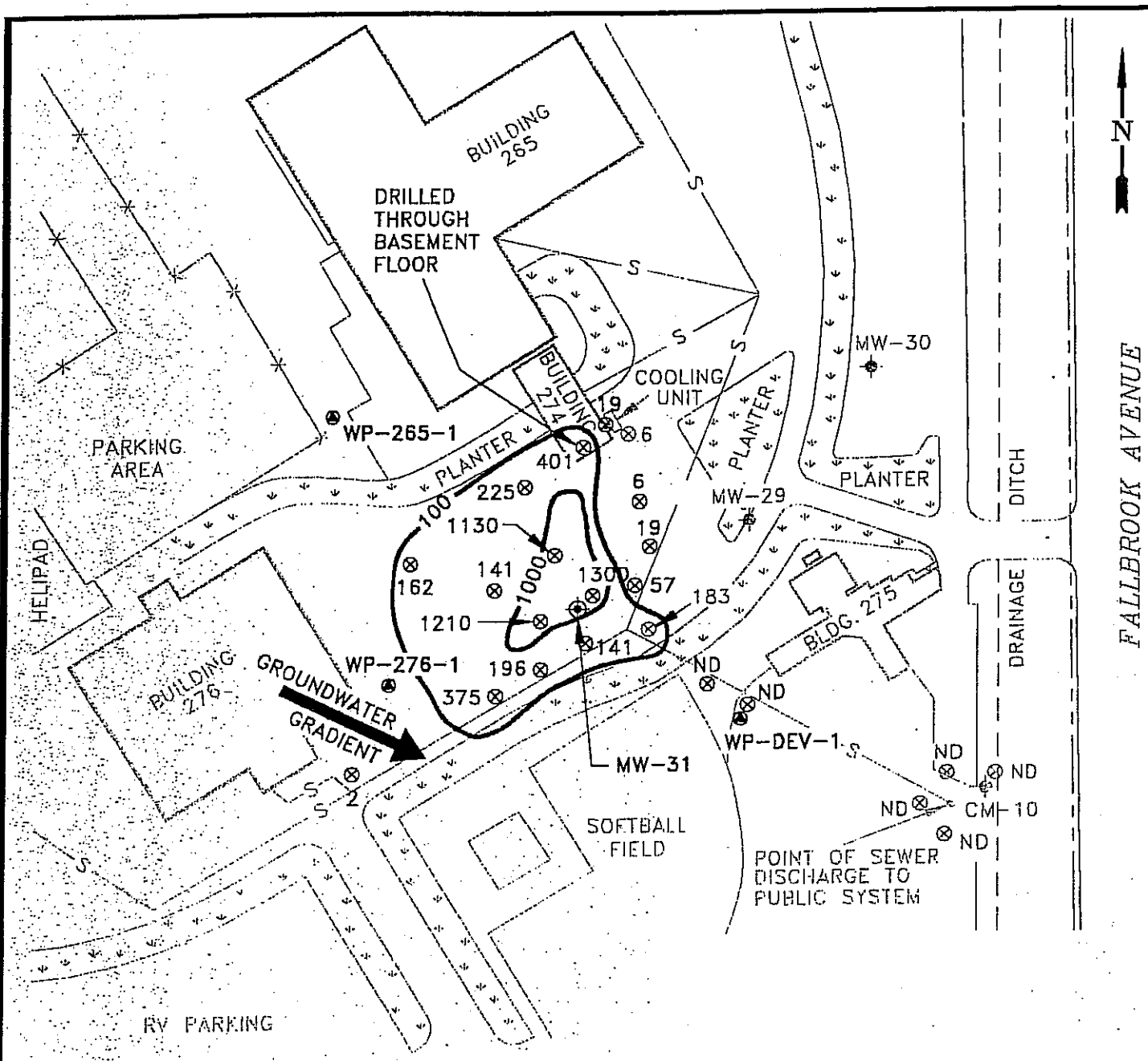


FLUOR DANIEL GTI

0 FEET 150
APPROXIMATE

FREON 11 CONCENTRATIONS IN SOIL GAS WITH RESPECT TO ORIGINAL PAVED AREA

CLIENT: RAYTHEON MISSILE SYSTEM CO.	FILE: 102599-2 (1:1800)	PROJECT NO.: 102599	PM	PE/RG
	REV.			
LOCATION: 8433 FALLBROOK AVENUE CANOGA PARK, CALIFORNIA	DES. RB	DET. SWL	DATE: 8/28/98	FIGURE: 2-2



LEGEND

- —S— SEWER LINE
- ⊗ SOIL GAS POINT, JUNE 1995
- ⊗ SOIL GAS POINT, AUGUST 1995
- 162 FREON 11 CONCENTRATION (µg/l)
- ND NOT DETECTED (<1 µg/l)
- FREON 11 ISOCON (µg/l)
- MONITORING WELL
- NEW MONITORING WELL LOCATION
- TEMPORARY WELL SAMPLING LOCATION

FLUOR DANIEL GTI

0 FEET 150
APPROXIMATE

MONITORING WELL AND TEMPORARY WELL LOCATIONS

CLIENT: RAYTHEON MISSILE SYSTEM CO.	FILE: 102599-3 (1:1800)	PROJECT NO.: 102599	PM	PE/RG	
	REV.			FIGURE: 2-3	
LOCATION: 8433 FALLBROOK AVENUE CANOGA PARK, CALIFORNIA	DES. RB	DET. SWL	DATE: 8/28/98		

TABLE 1-1

Inventory of Coolants Used at Former Raytheon Missile Systems Company Canoga Park, California

BLDG.	ROOM	FREON	LBS.
261	ROOF	22	122
262	ROOF	22	90
262	ROOF	22	46
263	1303	11	6400
263	1303	11	6400
263	1303	11	1500
265	ROOF	22	270
265	ROOF	22	88
265	ROOF	22	88
268	ROOF	22	177
268	ROOF	22	122
270	ROOF	22	84
270	ROOF	12	1100
270	ROOF	12	1100
274	EAST	22	110
276	1285	22	38
276	1285	22	70
276	1285	22	70
277	2416	22	133
277	2416	22	33
281	SOUTH	22	63

TABLE 2-1
Soil Sample Analytical Results for
Volatile Organic Compounds Using EPA 8260A
CM-10 Area of Concern
Temporary Well WP-265-1

May 1998
Former Raytheon Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park, California

	Sample Identification and Analytical Result (ug/kg)				
ANALYTE	WP-265-1@10	WP-265-1@40	WP-265-1@50	WP-265-1@70	Reported Analytical Detection Limit
trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	5

Notes:
Trichlorofluoromethane is also referred to as Freon 11.

Only detected volatile organic compounds are listed in this summary table. For a complete list of volatile organic compounds that are screened for using EPA Method 8260A, refer to the photocopies of laboratory summary reports in Appendix B.

TABLE 2-2
Soil Sample Analytical Results for
Volatile Organic Compounds Using EPA 8260A
CM-10 Area of Concern
Temporary Well WP-276-1

May 1998
Former Raytheon Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park, California

	Sample Identification and Analytical Result (ug/kg)				
ANALYTE	WP-276-1@10	WP-276-1@20	WP-276-1@40	WP-276-1@50	Reported Analytical Detection Limit
trichlorofluoromethane	<5.0	<5.0	<5.0	7.2	5

Notes:

Trichlorofluoromethane is also referred to as Freon 11.

Only detected volatile organic compounds are listed in this summary table. For a complete list of volatile organic compounds that are screened for using EPA Method 8260A, refer to the photocopies of laboratory summary reports in Appendix B.

TABLE 2-3
Soil Sample Analytical Results for
Volatile Organic Compounds Using EPA 8260A
CM-10 Area of Concern
Temporary Well WP-DEV-1

May 1998
Former Raytheon Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park, California

	Sample Identification and Analytical Result (ug/kg)				
ANALYTE	WP-DEV-1@10	WP-DEV-1@40	WP-DEV-1@50	WP-DEV-1@60	Reported Analytical Detection Limit
trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	5

Notes:

Trichlorofluoromethane is also referred to as Freon 11.

Only detected volatile organic compounds are listed in this summary table. For a complete list of volatile organic compounds that are screened for using EPA Method 8260A, refer to the photocopies of laboratory summary reports in Appendix B.

TABLE 2-4
Soil Sample Analytical Results for
Volatile Organic Compounds Using EPA 8260A
CM-10 Area of Concern
Groundwater Monitoring Well MW-31 Installation

May 1998
Former Raytheon Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park, California

	Sample Identification and Analytical Result (ug/kg)				Reported Analytical Detection Limit
ANALYTE	MW-31@10	MW-31@20	MW-31@40	MW-31@70	
trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	5

Notes:

Trichlorofluoromethane is also referred to as Freon 11.

Only detected volatile organic compounds are listed in this summary table. For a complete list of volatile organic compounds that are screened for using EPA Method 8260A, refer to the photocopies of laboratory summary reports in Appendix B.

TABLE 2-5
Groundwater Sample Analytical Results for
Volatile Organic Compounds Using EPA 8260A
CM-10 Area of Concern

May 1998
Former Raytheon Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park, California

	Sample Identification and Analytical Result (ug/L)					
ANALYTE	WP-265-01	WP-276-01	WP-DEV-1	MW-31	CM-10	Reported Analytical Detection Limit
trichlorofluoromethane	<5.0	<5.0	23	150	120	5

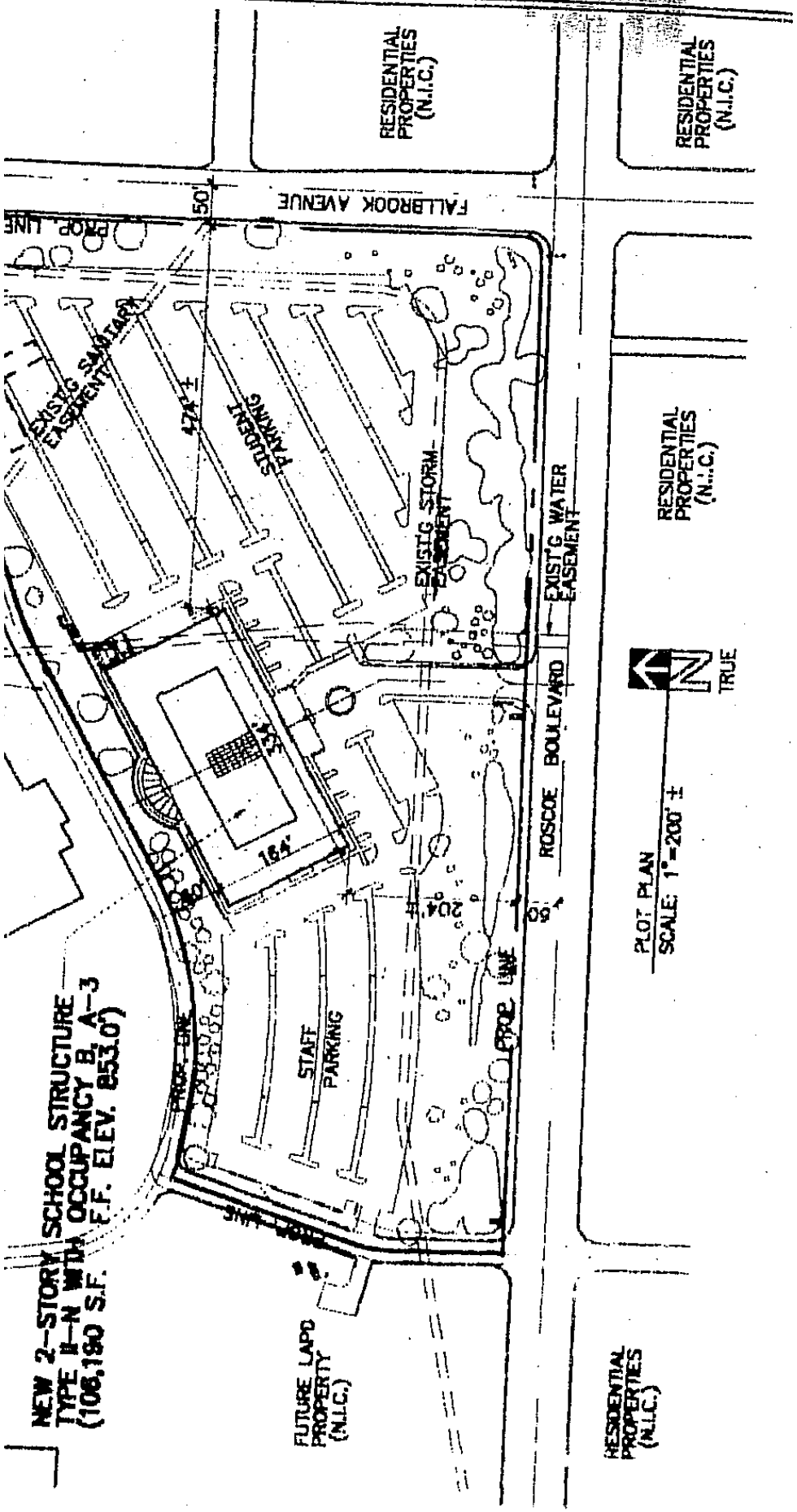
Notes:

Trichlorofluoromethane is also referred to as Freon 11.

The California Primary Maximum Contaminant Level (M.C.L.) for trichlorofluoromethane is 150 ug/L.

Only detected volatile organic compounds are listed in this summary table. For a complete list of volatile organic compounds that are screened for using EPA Method 8260A, refer to the photocopies of laboratory summary reports in Appendix B.

PLOT PLAN ATTACHMENT



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PHASE I ENVIRONMENTAL SITE ASSESSMENT



8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531
Fallbrook Avenue and 22801 Roscoe Boulevard
Los Angeles, California

Prepared For:

Glaser, Weil, Flink, Jacobs, Howard, Avchen & Shapiro, LLP
10250 Constellation Blvd., 19th Floor
Los Angeles, CA 90067

Hillmann Project Number C3-5451

February 4, 2013

Your Property. Our Priority.
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HILLMANN
CONSULTING

February 4, 2013

Mr. Gregory McClintock
Glaser, Weil, Flink, Jacobs, Howard, Avchen & Shapiro, LLP
10250 Constellation Blvd., 19th Floor
Los Angeles, CA 90067

RE: Phase I Environmental Site Assessment
8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue
Los Angeles, California
Hillmann Project Number: C3-5451

Hillmann Consulting, LLC, is pleased to provide the results of our Phase I Environmental Site Assessment of the above referenced property. This assessment was performed in accordance with the scope and limitations of ASTM Practice E 1527-05.

This report is for the exclusive use of the law firm named on the front cover, its client; Brookfield Property Group, its prospective lenders, prospective bond holders and bond holders, and prospective future purchasers and purchasers of the property involved, as well as their attorneys and consultants, and no other party shall have any right to rely on any service provided by Hillmann Consulting, LLC, without prior written consent.

We appreciate the opportunity to provide environmental due diligence services. If you have any questions concerning this report, or if we can assist you in any other matter, please contact the Project Manager at 714-634-9500.

Very Truly Yours,
Hillmann Consulting, LLC

Kenneth A. Thornburgh, Ph.D.
Project Manager

David Rutherford
Director of Due Diligence

TABLE OF CONTENTS

1.0 EXECUTIVE SUMMARY 1
- 1.1 Property Summary Table 1
- 1.2 Summary of Findings 2
- 1.3 Conclusions 2
- 1.4 Recommendations 4

2.0 PURPOSE AND LIMITATIONS 5
- 2.1 Purpose and Scope 5
- 2.2 Inaccessible Locations 6
- 2.3 Limitations and Exceptions 6
- 2.4 Abbreviations/Acronyms 6
- 2.5 Special Terms and Conditions 6

3.0 PROPERTY DESCRIPTION 8
- 3.1 Property Location 8
- 3.2 Site and Vicinity Characteristics 8
- 3.3 Current Use of the Property 8
- 3.4 Description of Property Improvements 8
- 3.5 Utilities/Source of Heating 9
- 3.6 Current Uses of the Adjoining Properties 10
- 3.7 Surrounding Area 10
- 3.8 Physical Setting 10
  - *3.8.1 Topography* 10
  - *3.8.2 Soils* 10
  - *3.8.3 Geology* 10
  - *3.8.4 Hydrology* 10

4.0 USER PROVIDED INFORMATION 12
- 4.1 Title Records/Environmental Liens/Activity and Use Limitations 12
- 4.2 Specialized Knowledge or Experience 12
- 4.3 Commonly Known or Reasonably Ascertainable Information 12
- 4.4 Property Value Reduction due to Environmental Conditions 12
- 4.5 Reason for Performing Phase I ESA 12

5.0 HISTORICAL USE RESEARCH 13
- 5.1 Sanborn Fire Insurance Maps 13
- 5.2 Historic City Directories 13
- 5.3 Historical Topographic Map Review 14
- 5.4 Aerial Photograph Review 15
- 5.5 Prior Investigation Reports 16
- 5.6 Interviews 16
- 5.7 Summary and Conclusion of Historic Use Research 19
- 5.8 Data Gaps 19

6.0 SITE RECONNAISSANCE/INTERVIEWS 20
- 6.1 Interviews 20
- 6.2 Property Use 20
- 6.3 Hazardous Substance/Petroleum Products Storage/Handling 20
- 6.4 Waste Generation, Storage and Disposal 20
- 6.5 Waste Discharges 20
- 6.6 Underground/Above Ground Storage Tanks 20
- 6.7 Polychlorinated Biphenyls (PCBs) 21
- 6.8 Drains/Sumps 21
- 6.9 Exterior Pits/Ponds/Lagoons 21
- 6.10 Stained Soil, Pavement/Stressed Vegetation 21

6.11 Drinking Water/Wells/Septic Systems 21

7.0 NON-ASTM SCOPE CONCERNS 22
7.1 Asbestos-Containing Material (ACM) 22
7.2 Lead-Based Paint 22
7.3 Radon 22
7.4 Mold 22

8.0 REGULATORY RECORD REVIEWS 24
8.1 On-Site Database Listings 24
8.2 Adjoining Property Database Listings 26
8.3 Federal Agency Record Review 27
8.4 State Agency Record Review 28
8.5 Local Government Agencies 29

9.0 ENVIRONMENTAL PROFESSIONAL STATEMENT 32

10.0 REFERENCES 33

11.0 APPENDICES 34

Appendix A Site Photographs
Appendix B Maps/Diagrams
Appendix C Historical Land Use Documentation/Maps
Appendix D Reference Documents / Laboratory Results (if applicable)
Appendix E Regulatory Database Report

1.0 EXECUTIVE SUMMARY

At the request of Glaser, Weil, Flink, Jacobs, Howard, Avchen & Shapiro, LLP, Hillmann Consulting, LLC (Hillmann) performed a Phase I Environmental Site Assessment (ESA) of the Property located at 8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue in Los Angeles, California (the Property). This assessment has been conducted utilizing generally accepted Phase I ESA industry standards in accordance with the ASTM Standard Practice E 1527-05 for Phase I Environmental Site Assessments.

1.1 Property Summary Table

A summary of the pertinent details of the project is provided below:

PROJECT SUMMARY TABLE					
Name of Client			Glaser, Weil, Flink, Jacobs, Howard, Avchen & Shapiro, LLP		
Client Project No.:			N/A		
Client Contact:			Mr. Gregory McClintock		
Description of Project			Phase I Environmental Site Assessment		
Property Name:			Corporate Point at West Hills		
Property Address:			8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue		
City:	Los Angeles	**County:**	Los Angeles		CA
Tax Map designation:		**APN**:	2005-002-009, 2005-022-001, 2005-022-002, 2005-022-003, 2005-022-004, 2005-022-005, 2005-022-006, 2005-002-011		
Property Area:			85.7 acres		
Building Area:			8401 – 160,741; 8403 – 38,795; 8407 – 82,815; 8411 – 11,021; 8413 – 30,271; 8501 – 160,681; 8511 – 133,720; 8521 – 160,498; 8531 – 98,397; 8415 – 17,100; 22801 – 106,190		
Assessor Designated Site Use:			Commercial		
Year Built:			8401 – 1959; 8403 – 1984; 8407 – 1984; 8411 – 2008; 8413 – 1984; 8501 – 1959; 8511 – 1999; 8521 – 1959; 8531 – 1974; 8415 – 1959; 22801 – 1999		
Property Owner:			MEPT West Hills, LLC		
Assessment Personnel:			Mr. Ryan Terwilliger		
Accompanied/Escorted By:			Patrick Teal – Lead Engineer		
Property Contact:			Ms. Erin Sullivan		
Inspection Date:			December 5 & 6, 2012		
Weather Conditions:			Clear, 64 degrees F		

1.2 Summary of Findings

The following table summarizes the individual sections of this assessment. This table, alone, does not constitute the complete assessment. The report must be reviewed in its entirety.

FINDINGS SUMMARY					
ASSESSMENT SECTION	ACCEPTABLE	O&M RECOM'D	REC	FURTHER ACTION/ PHASE II RECOM'D	REF. SECTION
Historical Review			X		5.0
Regulatory Review			X		8.0
Site Use	X				3.3/6.2
Hazardous Materials			X		6.3
USTs	X				6.6
ASTs	X				6.6
PCBs	X				6.7
Waste / Discharges	X				6.4/6.5
ACM		X		Compliance w/Applicable Regulations	7.1
Lead Paint		X		Compliance w/Applicable Regulations	7.2
Drinking Water	X				6.11
Radon	X				7.3
Mold	X				7.4
Adjoining/Surrounding Area	X				3.6/3.7/8.2

1.3 Conclusions

Hillmann has performed a Phase I Environmental Site Assessment in accordance with the scope and limitations of ASTM Practice E 1527-05 of the Property as described in Section 2 of this report. Any additions to, exceptions to, or deletions from this practice are also described in Section 2 of this report. This assessment has revealed no evidence of *recognized environmental conditions* in connection with the Property, except for the following:

- The Property was developed in the late 1950's by Hughes Aircraft Company or an affiliated entity ("Hughes") to test missile defense systems and remained in operation until the mid-1990s. Hazardous substances and petroleum products were utilized on-site in association with the former missile defense system testing operations and resulted in the generation of USEPA RCRA regulated hazardous wastes. These activities resulted in

release(s) to the environmental that caused a subsurface impact to the Property. The releases at the site were discovered by investigations triggered by RCRA permitting at the Site in the late 1980's with the lead regulatory agency reported as the California Department of Toxic Substances Control (DTSC).

- Site investigation began in the early 1990's and all subsequent remediation procedures that have taken place on the Property have been well documented. Hughes and now Raytheon Company ("Raytheon"), its successor, have been responsible for all remediation on the property pursuant to a set of recorded remediation covenants that run with the land. Site investigations at the Property have identified thirteen Areas of Concern (AOCs) and seven Solid Waste Management Units (SWMUs) throughout the site.

- The most significant concern at the site is a plume of chlorinated solvent groundwater contamination located on the northwest corner of the site and which may extend slightly off-site to the north (the "northwest plume"). Groundwater remediation has been ongoing on the Property since 1995 when a Pump and Treat system was installed in the northwest area. The system was shut down in 2005 in favor of "in-situ" bio remediation groundwater treatments.

- Hillmann was informed by a property representative that Raytheon submitted a 2008 report package to the DTSC detailing remedial progress at the site and requesting closure for all AOCs and SWMUs except for groundwater. The request for closure by Raytheon was based on a summation of investigations and remedial actions as documented by the 2008 report. Hillmann was further informed by a property representative that the DTSC review of the submittal has been delayed within the agency; but that the DTSC has recently resumed its review of the package with a response expected within a few months. In the meantime, a Soil Management Plan ("SMP") had been established in 2008 voluntarily by Property management to facilitate site construction activities at the site as the need arose. The SMP has been approved by DTSC.

- Hillmann reviewed the most recently issued groundwater remediation and monitoring progress report dated November 15, 2012. That report has indicated that at least four "enhanced in-site bioremediation" (EISB) treatments have occurred since 2009, the latest having occurred in September 2012. Contaminant levels at the northwest plume have been trending downwards but remain above the site specific cleanup criteria (SPCC) of 60 ug/L VOCs set by the Regional Water Quality Control Board (RWQCB). Hillmann was informed by a property representative that, in his opinion, that the continuation of groundwater treatments and monitoring would be required for an additional few years before closure can be achieved; and that partial closure of other AOCs and SWMUs is expected sooner but also that some additional investigations and/or submittals may be requested by the DTSC.

Hillmann has also performed cursory evaluations for ASTM "Non-Scope" items, such as asbestos-containing materials (ACM), lead-based paint, radon and mold. Our observations and research did not identify any potential concerns, except for the following:

- Considering the original date of construction for some of the buildings (circa 1959), there is the potential for asbestos-containing materials in non-renovated areas at the Property. According to surveys performed on the Property the remaining ACM includes the Pipe TSI on the roofs of the older buildings. Additional quantities of ACM or suspect ACM may exist in enclosed areas, or areas not accessed during the assessment. It is emphasized that this limited screening does not constitute a comprehensive asbestos survey of the premises and is meant only to provide a cursory evaluation regarding the overall prevalence of ACM at the Property. Additional investigation and comprehensive testing of suspected ACM would be required to determine the presence or absence of ACM at the Property.

- Based on the date of building construction, lead based paint may be present at the Property. However, considering the non-residential occupancy, the potential presence of lead based paint is not considered to be a significant environmental concern at the Property at this time.

1.4 Recommendations

Based on information collected from the site investigation, record review, interviews and site reconnaissance, Hillmann makes the following recommendations:

- In general, it appears that Raytheon appears to be meeting its obligations as responsible party for the remediation. The progress of Raytheon should be monitored with regard to the completion of remedial actions in order to achieve regulatory closure for all AOCs and SWMUs. The Property owner should continue to cooperate with Raytheon in accordance with the reported access agreement to allow the necessary site access to conduct remedial actions. The property owner should request from Raytheon to be copied on all pertinent regulatory data and correspondences generated by the remedial activities at the site, as has been the case to date.

- The existing Soil Management Plan should continue to be adhered to by property management. In the event of transfer of ownership, the new owner should confirm to DTSC that it agrees to the terms and will comply with the Plan.

- Hillmann recommends suspect ACM at the Property should be managed in compliance with all applicable rules and regulations.

2.0 PURPOSE AND LIMITATIONS

2.1 Purpose and Scope

This assessment was conducted utilizing generally accepted Phase I ESA industry standards in accordance with the ASTM Standard Practice E 1527-05. The ASTM describes these methodologies as representing good commercial and customary practice for conducting an Environmental Site Assessment of a property for the purpose of identifying recognized environmental conditions.

The term *recognized environmental conditions (RECs)* is defined by the ASTM as the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, ground water or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis* are not *REC*s.

The chief components of this assessment are described as follows:

- Review and discussion of current Property conditions regarding the presence or absence of hazardous chemicals/petroleum products; generation, treatment, storage or disposal of hazardous, regulated or medical wastes; electrical equipment that utilizes oils which potentially contain PCBs; and bulk storage tanks (above or below ground).

- Review and discussion of the usage of adjacent and nearby properties to identify the potential for contamination (if present and/or suspected) to migrate onto the Property.

- Summary of physical characteristics of the Property through a review of available topographic, geologic and groundwater data.

- Research of the historic uses of the Property through a review of reasonably ascertainable standard sources, such as fire insurance maps, city directories, aerial photographs, prior reports and interviews.

- A regulatory review of federal and state environmental databases, and other local environmental records, within specific search distances defined by the ASTM.

These methodologies are described as representing good commercial and customary practice for conducting an Environmental Site Assessment of a property for the purpose of identifying recognized environmental conditions.

A cursory evaluation for the following "Non-ASTM" concerns, such as the following:

- ♦ Suspect Asbestos-containing Materials

- Lead-based Paint
- USEPA Designated Radon Potential
- Mold

2.2 Inaccessible Locations

Hillmann is unaware of any notable areas of the Property that were excluded from our visual inspection.

2.3 Limitations and Exceptions

Historic research data gaps are detailed in Section 5, if applicable. No other exceptions or deletions from the ASTM Standard E 1527-05 are reported.

2.4 Abbreviations/Acronyms

Hillmann may use the following abbreviations and acronyms for common terminology described in our report. Not all abbreviations or acronyms may be applicable to this report:

ACM – Asbestos-containing Material
AST – Aboveground Storage Tank
ASTM – American Standard for Testing Materials
FOIA – Freedom of Information Act
HVAC – Heating Ventilation & Air Conditioning
HREC – Historic Recognized Environmental Condition
IAQ – Indoor Air Quality
LBP – Lead-based Paint
LUST – Leaking Underground Storage Tank
MSDS – Material Safety Data Sheet
REC – Recognized Environmental Condition
UST – Underground Storage Tank

2.5 Special Terms and Conditions

Hillmann has prepared this Phase I Environmental Site Assessment using reasonable efforts in each phase of its work to identify recognized environmental conditions associated with hazardous substances, wastes and petroleum products at the Property. The methodology of this Phase I Environmental Site Assessment was consistent with the ASTM Standard Practice for E 1527-05. Findings within this report are based on information collected from observations made on the day of the site investigation and from reasonably ascertainable information obtained from governing public agencies and private sources.

This report is not definitive and should not be assumed to be a complete or specific definition of the conditions above or below grade. Information in this report is not intended to be used as a construction document and should not be used for demolition, renovation or other construction purposes. Hillmann makes no representation or warranty that the past or current

operations at the Property are, or have been, in compliance with all applicable federal, state and local laws, regulations and codes.
Findings, conclusions and recommendations presented in this report are based on our visual observations of the Property, the municipal research findings reasonably obtained, information provided by the Client, and/or a review of readily available and supplied drawings and documents. Hillmann relies completely on the information, whether written, graphic or verbal, provided by the subject Property contact(s) or as shown on any documents reviewed or received from the subject Property contact, owner or agent, or municipal source, and assumes that information to be true and correct. Although there may have been some degree of overlap in the information provided by these various sources, Hillmann did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this assessment.

Regardless of the findings stated in this report, Hillmann is not responsible for consequences or conditions arising from facts that were concealed, withheld or not fully disclosed at the time the assessment was conducted.

This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated.

The regulatory database report provided is based on an evaluation of the data collected and compiled by a contracted data research company. The report focuses on the Property and neighboring properties that could impact the Property. Neighboring properties listed in governmental environmental records are identified within specific search distances. The search distance varies depending upon the particular government record being checked. The regulatory research is designed to meet the requirements of ASTM Standard E 1527-05. The information provided in the regulatory database report is assumed to be correct and complete.

Subsurface conditions may differ from the conditions implied by the surface observations and can only be reliably evaluated through intrusive techniques.

Reasonable efforts have been made during this assessment to identify aboveground and underground storage tanks and ancillary equipment. “Reasonable efforts” are limited to information gained from visual observation of largely unobstructed areas, recorded database information held in public record and available information gathered from interviews. Such methods may not identify subsurface equipment that may have been hidden from view due to parked automobiles and other vehicles, snow cover, vegetative growth, pavement, construction or debris pile storage or incorrect information from sources.

Hillmann is not a professional title insurance firm and makes no guarantee, explicit or implied, that the records which were reviewed represent a comprehensive or precise delineation of past Property ownership or tenancy for legal purposes.

3.0 PROPERTY DESCRIPTION

3.1 Property Location

The Property is located at 8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue and 22801 Roscoe Boulevard in Los Angeles, California. The legal designation of the Property is APN #2005-002-009, 2005-002-011, 2005-022-001, 2005-022-002, 2005-022-003, 2005-022-004, 2005-022-005, and 2005-022-006. The latitude and longitude of the Property is approximately north 34.2216 degrees, and west 118.6235 degrees.

3.2 Site and Vicinity Characteristics

The Property consists of eleven commercial buildings with the following addresses and square footages: 8401 Fallbrook – 160,741 ft^2; 8403 Fallbrook – 38,795 ft^2; 8407 Fallbrook – 82,815 ft^2; 8411 Fallbrook – 11,021 ft^2; 8413 Fallbrook – 30,271 ft^2; 8501 Fallbrook – 160,681 ft^2; 8511 Fallbrook – 133,720 ft^2; 8521 Fallbrook – 160,498 ft^2; 8531 Fallbrook – 98,397 ft^2; 8415 Fallbrook – 17,100 ft^2; 22801 Roscoe – 106,190 ft^2; and located on the northwest corner of Roscoe Boulevard and Fallbrook Avenue. The Property covers an approximate land area of approximately 85.7-acres. The main entry drives onto the Property are from Roscoe Blvd. at the south end and Fallbrook Ave on the east side of the Property. The Property is located in an area characterized by residential and commercial uses. An empty reservoir owned by the county of Los Angeles is located to the north of the Property.

3.3 Current Use of the Property

The Property consists of eleven (11) commercial buildings occupied by various tenants for primarily office purposes with the exception of Quest diagnostics which runs a medical laboratory in 8401 and 8403. A full rent roll is included in Appendix D.

3.4 Description of Property Improvements

The Property development includes eleven (11) commercial structures that provide a combined space of approximately 1,000,229-ft^2. The buildings on-site include:

8401 - is a concrete reinforced structure (type 1 construction), has a built-up roof, and was built in 1959. The building was renovated in 2005. Interior finishes include painted drywall, vinyl flooring, and drop-in ceiling tile. Windows and entry doors are double-pane aluminum systems.

8403 - is a butler building with steel frame and concrete deck. (type 4 construction). It has a butler roof, and was built in 1984. The building was renovated in 1999 & 2008. Interior finishes include painted drywall, vinyl flooring, and drop-in ceiling tile. Windows and entry doors are double-pane aluminum systems.

8407 - is a butler building with steel frame and concrete deck. It has a butler roof, and was built in 1984. The building was renovated in 1999 & 2008. Interior finishes include painted drywall,

vinyl flooring, and drop-in ceiling tile. Windows and entry doors are double-pane aluminum systems.
8411 - is a butler building with steel frame and concrete deck. It has a butler roof, and was built in 2008. Interior finishes include painted drywall, vinyl flooring, and drop-in ceiling tile. Windows and entry doors are double-pane aluminum systems.

8413 - is a butler building with steel frame and concrete deck. It has a butler roof, and was built in 1984. The building was renovated in 2009 & 2012. Interior finishes include painted drywall, vinyl flooring, and drop-in ceiling tile. Windows and entry doors are double-pane aluminum systems.

8501 - is a concrete reinforced structure, has a built-up roof, and was built in 1959. Interior finishes include painted drywall, vinyl flooring, and drop-in ceiling tile. Windows and entry doors are double-pane aluminum systems.

8511 - is a concrete reinforced structure, has a built-up roof, and was built in 1999. Interior finishes include painted drywall, vinyl flooring, and drop-in ceiling tile. Windows and entry doors are double-pane aluminum systems.

8521 - is a concrete reinforced structure, has a built-up roof, and was built in 1959. The building was renovated in 1998. Interior finishes include painted drywall, vinyl flooring, and drop-in ceiling tile. Windows and entry doors are double-pane aluminum systems.

8531 - is a concrete reinforced structure, has a built-up roof, and was built in 1974. The building was renovated in 1998. Interior finishes include painted drywall, vinyl flooring, and drop-in ceiling tile. Windows and entry doors are double-pane aluminum systems.

8415 (plant) - is a concrete poured in place structure, has a built-up roof, and was built in 1959. Interior finishes include painted drywall, vinyl flooring, and drop-in ceiling tile. Windows and entry doors are double-pane aluminum systems.

22801 - is a steel structure with pre-cast concrete metal façade, has a built-up roof, and was built in 1999. Interior finishes include painted drywall, vinyl flooring, and drop-in ceiling tile. Windows and entry doors are double-pane aluminum systems.

3.5 Utilities/Source of Heating

The various buildings are reported to be heated/cooled by electric powered package units located on the roof of the building.

According to information provided by property management, utility providers that service the subject Property are summarized as follows:

Utility	Provider
Electric	Los Angeles County Department of Water and Power
Natural Gas	Southern California Gas Company
Water	Los Angeles County Department of Water and Power

Sewer	Los Angeles County Sanitation District

3.6 Current Uses of the Adjoining Properties

The following describes adjacent and abutting properties to the Property at issue:

DIRECTION	DESCRIPTION
North	County of Los Angeles Reservoir
East	(Fallbrook Ave.) Recreational area owned by Boeing and residential properties
South	(Roscoe Blvd.) Residential properties
West	Residential Properties and an office building housing a Los Angeles police call center

No visual evidence of any impacts from the adjoining properties was observed.

3.7 Surrounding Area

The vicinity of the Property, which is located in in Los Angeles, California is characterized by a mix of commercial and residential properties with a dry reservoir to the north.

3.8 Physical Setting

3.8.1 Topography

According to the United States Geological Survey (USGS) 7.5-Minute Series Topographic Map, Canoga Park, CA Quadrangle (1967), the Property is located at approximately 848 feet above mean sea level. The topographic gradient at the Property is slopes in a general southeast direction. Copies of the topographic maps are included in Appendix C.

3.8.2 Soils

Based on the United States Department of Agriculture - Soil Conservation Service data, soils at the Property are classified as "Anacapa". This soil has a texture of sandy loam and is well drained with moderate infiltration rates.

3.8.3 Geology

According to the EDR Geo-Check report, the bedrock geologic formation in the area within the vicinity of the Property is identified to be Stratified Sequence of the Mesozoic Era.

3.8.4 Hydrology

Based on the drainage/topography, groundwater is believed to flow to the southeast.

Groundwater levels and/or flow direction(s) may vary due to seasonal fluctuations in precipitation, local usage demands, geology, underground structures or dewatering operations.

Based on the U.S. Fish & Wildlife Service's National Wetlands Inventory, wetlands are not suspected to be present on the Property.

According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) covering the area of the Property, the Property is located outside of the 100 and 500 year flood zones.

4.0 USER PROVIDED INFORMATION

4.1 Title Records/Environmental Liens/Activity and Use Limitations

Review of title records is not included in the scope of work for this assessment project. No information regarding environmental liens or activity and use limitations was provided to Hillmann by the Client.

4.2 Specialized Knowledge or Experience

Hillmann was provided with reports and other documentation regarding an on-going site remediation case being overseen by the DTSC and LAWQCB, as detailed throughout this report. No other indication of any specialized knowledge or experience regarding the Property was reported to Hillmann by the Client.

4.3 Commonly Known or Reasonably Ascertainable Information

No commonly known or reasonably ascertainable knowledge of the Property was reported to Hillmann by the Client.

4.4 Property Value Reduction due to Environmental Conditions

No information was provided by the Client to Hillmann regarding a reduction of the Property value due to environmental problems or conditions.

4.5 Reason for Performing Phase I ESA

It is Hillmann's understanding that the Phase I ESA was being performed in conjunction with a pending real estate or bank financing transaction involving the Property.

5.0 HISTORICAL USE RESEARCH

5.1 Sanborn Fire Insurance Maps

Fire insurance maps were created for insurance underwriters and often contain information regarding the uses of individual structures, and the locations of fuel and/or chemical storage tanks that may have been on a particular property. These maps were generally prepared for urban areas beginning in the middle to late 1880s and continuing generally into the 2000s.

A search of Sanborn Fire Insurance Maps for the Property and surrounding area was conducted by Environmental Data Resources, Inc. (EDR) of Milford, Connecticut. EDR provided a Sanborn report that stated fire insurance maps covering the Property were not found.

5.2 Historic City Directories

A search of City Directories for the Property and surrounding area was conducted by EDR. The City Directory Abstract report provided data from directories dated 1920 through 2012 in approximately one to five year intervals. The following pertinent details were obtained from review of the city directories listings:

8401 FALLBROOK AVE:

Year	Uses	Source
2012	QUEST DIAGNOSTICS	Cole Information Services
2007	QUEST DIAGNOSTICS	Cole Information Services

8407 FALLBROOK AVE:

Year	Uses	Source
2012	QBE FIRST	Cole Information Services
	WEST INSURANCE ANGENCY	Cole Information Services
2007	WESTWOOD INSURANCE AGENCY	Cole Information Services
	WELLPOINT PHARMACY MGMNT	Cole Information Services
2004	WESTINSURANCE	Haines Company
	ANGENCY	Haines Company

8411 FALLBROOK AVE:

Year	Uses	Source
2012	TRLMANA RESTAURANT	Cole Information Services
2007	SODEXHO INC	Cole Information Services

8413 FALLBROOK AVE:

Year	Uses	Source
2012	TRAMMELL CROW SO CAL INC	Cole Information Services
2007	E Z BUY E Z SELL RECYCLER CORP	Cole Information Services
	TRAMMELL CROW CO	Cole Information Services
	RECYCLER CLASSIFIED	Cole Information Services
2004	ANGENCY	Haines Company
	TRAMMELLCROWSO	Haines Company

8501 FALLBROOK AVE:

Year	***Uses***	***Source***
2012	S1 CORPORATION	Cole Information Services
	XEROX	Cole Information Services
	COUNTRYWIDE HOME LOANS	Cole Information Services
	MEPT WEST HILLS LLC	Cole Information Services
	ONE CALL MEDICAL	Cole Information Services
2007	COUNTRYWIDE HOME LOANS	Cole Information Services
	51 CORP 0501 FALIBROOK AV	Cole Information Services
2007	S1 CORP	Cole Information Services

8511 FALLBROOK AVE:

Year	***Uses***	***Source***
2012	CA	Cole Information Services
2007	COUNTRYWIDE HOME LOANS INC	Cole Information Services
	QUEST DIAGNOSTICS	Cole Information Services

8521 FALLBROOK AVE:

Year	***Uses***	***Source***
2012	CB RICHARD ELLIS	Cole Information Services
	COMPUTRITION	Cole Information Services
	SERVICON	Cole Information Services
2007	AMERICAS WHOLESALE LENDER	Cole Information Services
	COUNTRYWIDE HOME LOANS	Cole Information Services
	COUNTRYWIDE	Cole Information Services
	INTL BUS MACHINES CORP	Cole Information Services

8531 FALLBROOK AVE:

Year	***Uses***	***Source***
2012	BOEING IDS DIRECTED ENERGY	Cole Information Services
2007	BOEING CO	Cole Information Services

5.3 Historical Topographic Map Review

A search of historical topographic maps for the Property was conducted by EDR. Topographic maps of the Property and vicinity for the years 1903, 1910, 1927, 1940, 1947, 1952 and 1967 were provided for review. The following pertinent details were obtained from review of the topographic maps:

YEAR(S)	DESCRIPTION	
1903-1910	**Property**	The scale of the map is too large to discern specific details about the Property
	Adjacent Properties	The scale of the map is too large to discern specific details about the adjacent properties.
1927-1947	**Property**	The Property appears to be undeveloped.

	Adjacent Properties	The majority of the adjacent properties appear to be undeveloped. Structures are depicted to the northeast of the Property across Fallbrook Avenue, which is depicted as an unpaved road. The Chatsworth Reservoir is visible north of the Property and Roscoe Boulevard is visible to the south.
1952	**Property**	The Property appears to be developed with a single structure. An access road for the structure appears to be present on the Property running in an east-west direction from Fallbrook Avenue.
	Adjacent Properties	The visible portions of the adjacent properties to the south and east appear to be undeveloped. Three structures are depicted to the northeast of the Property across Fallbrook Avenue, which is now depicted as a paved road.
1967	**Property**	The map only shows the eastern portion of the Property. The visible areas appear to be developed with large structures and access roads
	Adjacent Properties	The visible portion of the adjacent property to the south appears to be developed with access roads; however no structures are depicted on the visible area of the property. Several structures are depicted to the northeast of the Property across Fallbrook Avenue, and the area to the east across Fallbrook Avenue is shaded to denote general urban development.

5.4 Aerial Photograph Review

A search of Aerial Photographs for the Property and surrounding area was conducted by EDR. EDR provided an Aerial Photography report of several historic photographs of the Property area from the years 1928, 1938, 1947, 1956, 1965, 1976, 1989, 1994 and 2005. The following pertinent details were obtained from review of the report:

YEAR(S)	DESCRIPTION	
1928	**Property**	The Property appears to be cleared vacant land.
	Adjacent Properties	The adjacent property to the north is the Chatsworth Reservoir and Nature Preserve. The property to the northeast appears to be developed with a few scattered structures. The adjacent properties to the south and east appear to be agricultural land. The adjacent property to the west is not visible.
1938	**Property**	The Property appears to be cleared land. Hidden Lake road is visible around the perimeter of the Property. Two other roads appear on the Property.
	Adjacent Properties	The adjacent property to the north is the Chatsworth Reservoir and Nature Preserve. The property to the northeast appears to have undergone further development, but appears to still be used for primarily agricultural purposes. The adjacent properties to the south and east appear to remain agricultural land. Fallbrook Avenue is visible to the east of the Property. The adjacent property to the west is not visible.
1947	**Property**	The Property appears to be developed for agricultural use. Several structures are present starting in the 1956 photo. Hidden Lake road is visible around the perimeter of the Property.
	Adjacent Properties	The adjacent property to the north is the Chatsworth Reservoir and Nature Preserve. The properties to the northeast, south, and east are developed for agricultural use with some structures present. The adjacent property to the west is not visible in the 1947 photo, but appears to be undeveloped wooded land in 1956.
1965-1994	**Property**	The Property is developed with several large structures.

	Adjacent Properties	The adjacent property to the north is the Chatsworth Reservoir and Nature Preserve. The properties to the northeast appear developed for agricultural use with some structures present. The properties to the east are developed into a residential subdivision. The properties to the south appear to be developed with residential structures. The adjacent property to the west appears to be undeveloped wooded land in the 1965 photo, but appears to be a residential subdivision in the 1976, 1989, and 1995 images.
2005	**Property**	The Property is developed with several large structures, however some of the structures in the north have been demolished and one structure in the south portion of the Property has been constructed.
	Adjacent Properties	The adjacent property to the north is the Chatsworth Reservoir and Nature Preserve. The properties to the northeast appear developed for recreational use with some structures present. The properties to the east are developed into a residential subdivision. The property to the south appears undeveloped. The adjacent property to the west appears to be developed with a residential subdivision.

5.5 Prior Investigation Reports

Several previous investigation reports for the Property were provided to Hillmann for review. The most relevant reports are discussed below:

Enhanced In Situ Bioremediation and In Situ Chemical Reduction Progress Report Third Quarter 2012, Former Canoga Park Facility 8433 Fallbrook Avenue, Canoga Park, California prepared by OTIE dated November 15, 2012. The following is a summary of the Report:

- "A groundwater remediation program has been underway at the Site since 1995 to progress towards achieving cleanup criteria established in the Corrective Action Plan (CAP) for the Site (60 micrograms per liter [µg/L] for 1,1-DCE). The LARWQCB is the lead oversight agency for the remediation activities at the Site (LARWQCB File No. 94-45)."
- PHASE IV EISB SUMMARY – NORTHWEST AREA
  In October 2009, the Phase IV EISB injections were implemented in the "Northwest Area" of the Site. A total of four RPM wells were included in the M&RP for CI-8947, and eight post-injection monitoring events have been completed since the injections. No EISB-related activities were performed in the Northwest Area during the third quarter of 2012.
- PHASE V ISCR SUMMARY – FORMER HWSA
  In June 2010, the Phase V ISCR injections were implemented in the former HWSA. A total of six RPM wells were included in the M&RP for CI-8947 and seven post-injection monitoring events have been completed. No ISCR-related activities were performed at the Former HWSA during the third quarter of 2012.
- PHASE VI EISB SUMMARY – FORMER BLDG 269 AREA
  In May 2011, the Phase VI EISB injections were implemented in the Former Bldg 269 Area of the Site. A total of three RPM wells were included in the M&RP for CI-8947 and five post injection monitoring events have been completed since the injections. No EISB-related activities were performed in the Former Bldg 269 Area during the third quarter of 2012.
- PHASE VII EISB – FORMER TANK T3 AREA
  In September 2012, the Phase VII EISB injections were implemented in the Former Tank T3 Area of the Site. A total of three RPM wells were included in the M&RP for CI-8947

and one monitoring event was completed prior to the injections. EISB-related activities performed at the
Former Tank T3 Area during the third quarter of 2012 are summarized below:

- Injection wells (IP-02 through IP-06) were installed and developed in September 2012.
- The baseline groundwater sampling event was conducted prior to the start of the injections in accordance with the M&RP. Groundwater levels were gauged and samples collected on September 18, 2012.
- Static depth to water measurements were 25.62 feet btoc (RW-11) and 27.82 feet btoc (RW-14) on September 18, 2012.
- TCE was detected in upgradient well RW-15 at a concentration of 7.7 µg/L and in treatment well RW-14 at 2.8 µg/L.
- 1,1-DCE concentrations ranged from 41 µg/L (upgradient RW-15) to 190 µg/L at well RW-14 in the treatment area.
- VC was detected in injection area well RW-14 at a concentration of 54 µg/L. The VC concentrations are an intermediate daughter product, resulting from the EISB dechlorination process and are anticipated to eventually dissipate as further treatment is completed.
- VFAs were not detected in any well during the baseline event.
- Methane was detected in all three RPM wells at concentrations ranging from 17 µg/L in well RW-11 to 465 µg/L in well RW-14.
- CO2 concentrations ranged from 35.3 mg/L (well RW-15) to 59.3 mg/L (well RW-14).
- No ethane or ethene were detected in RPM wells above the reporting limit of 1.0 µg/L during the baseline.
- Subsurface injections of EVO were performed using a portable injection system between September 24 and 27, 2012.
- A combined total of 550 gallons of EVO substrate and 10,840 gallons of treated groundwater were injected in the Former Tank T3 area via the five new injection wells and two sparge wells in September 2012.

1,1 DCE concentrations are still present in excess of the 60 µg/L limit set by the RWQCB. Based on these results remediation will need to continue until levels reach the designated limits.

<u>RCRA Facility Assessment Hughes Missile Systems Company Canoga Park Facility (Raytheon) Epa Id – CAD041162124</u> Prepared by DTSC on January 30th, 2008. The following is a summary of the report:

The DTSC outlined the past work completed on the Property and identified the solid waste management units and areas of concern within the Property. It then went on to further summarize the actions that have been completed in each SWMU and AOC. The recommendations for further action outlined in the report are provided below:

• Continue Groundwater Remediation

• Determine data gaps to developing a site wide heath risk assessment using the current DTSC-modified model. A site conceptual model needs to be developed to address all exposure routes.

• Collect samples needed to fill in the data gaps.

• Complete a soil vapor survey using old and new data as appropriate to model vapor intrusion. This work is to be in accordance with the Department's publications: GUIDANCE FOR THE EVALUATION AND MITIGATION OF SUBSURFACE VAPOR INTRUSION TO INDOOR AIR and ADVISORY – ACTIVE SOIL GAS INVESTIGATIONS. As these documents are undergoing revision it is important that this investigation be done with close coordination with the project manager.

• Prepare site wide HRA for all modes of exposure to define remediation goals acceptable to DTSC.

• Modify remediation effort as required to meet the DTSC remediation goals or existing CAP goals whichever is the more stringent.

Phase I Environmental Site Assessment, Coast Westhills Property 8433 Fallbrook Avenue, Lot B, Canoga Park, California Prepared by Geocon dated February 1999.

The report found that a long history of environmental impacts and subsequent remediation was present at the site. It found that Raytheon had complied with all of DTSC's and RWQCB's recommendations while conducting the remediation onsite. The report recommended that indoor air monitoring for VOC's be conducted in the interior of buildings, the current groundwater remediation on the Property be continued, and communication with the DTSC and Raytheon regarding the current status of the remediation efforts remain open.

Soil Management Plan Corporate Point at West Hills, 8413 Fallbrook Avenue, West Hills California. Prepared by Environ International Corporation dated March 2008.

The SMP was prepared to describe, in general, what procedures will be employed to monitor and mitigate dust and to address areas of previously unidentified impacted soils that may be discovered during redevelopment of the site. Principle requirements of the SMP include the following. Site monitoring for VOC vapors will be conducted during those activities which directly uncover or disturb ground surfaces for the first time and in the event the contractor discovers soil that is visibly stained, discolored, oily, or has a noticeable solvent-like or hydrocarbon odor. A health and safety plan will be prepared for the entire site which must be followed when working with or disturbing subgrade soils. Perimeter dust monitoring will take place during work activities and should visibly stained soil be found it will be collected and analyzed for VOC's and TPH and if necessary SVOCs and Metals. A completion report will be prepared at the end of each project. Neal Holdridge of Trammel Crow indicated that he was not aware of any finding of elevated contaminant levels in soils by SMP required monitoring during redevelopment related activities at the Property.

5.6 Interviews

Hillmann interviewed Mr. Neal Holdridge, Environmental Consultant from Trammell Crow, the property owner's agent over the phone. Mr. Holdridge stated he has been involved with the environmental issues associated with the site for over 10 years. He stated that the Property was developed in the 1960's by Hughes to test missile guidance systems and remained active until

the mid-1990's when Raytheon bought them out. In the late 1980's releases were reported from two RCRA units (A waste UST and Hazardous Waste Storage Area) in the northwest portion of the Property. The primary pollutant of concern was discovered to be 1,1 DCE. This lead to several areas of concern that were detailed by the DTSC. In the 1990s a pump and treat system was installed in the northwest portion of the property, where contamination had impacted groundwater. In 2005 the pump and treat system was shut down due to low levels of contamination found in monitoring wells installed throughout the Property. Currently "enhanced in-situ bioremediation (EISB) is being used to treat the remainder of the contamination. According to Mr. Holdridge a site specific cleanup goal level of 60 ug/L VOCs was agreed upon with the RWQCB and the DTSC with regards to the remediation of the groundwater. A soil management plan (SMP) was also designed once the DTSC designated the Areas of Concern (AOC) on the Property. The SMP applies to any subsurface work that is conducted in the area of an AOC or a Solid Waste Management Unit (SWMU). According to Mr. Holdridge, there have never been any contaminates found in the soil when tested in accordance with the SMP. Mr. Holdridge also stated that in 2008 Raytheon submitted a document in response to a "RCRA Facility Assessment (RFA) Questionnaire Request" from the DTSC that requested closure of all AOC's and SWMUs other than the NW groundwater plume. He stated that delays in acting on the request by DTSC were due to the changing of case managers but the agency is now reviewing the file. An environmental questionnaire was provided to the seller through Mr. Holdridge. To date there has been no response to the questionnaire.

5.7 Summary and Conclusion of Historic Use Research

The Property was originally developed in the 1960's with several large buildings with the purpose of testing missile defense systems, testing which remained active until the mid-1990s. In the late 1980's it was discovered that contamination was present in the subsurface soil and water at the Property. This contamination has been actively undergoing remediation by Raytheon with regulatory oversight by the DTSC and the RWQCB since the mid-1990s. In 1999 the property was subdivided into four different parcels and redeveloped as an office park. During that redevelopment some of the buildings were demolished or renovated and some new buildings were constructed Between 2000 and 2008 more of the original buildings were demolished or renovated and one new building was constructed, resulting in the Property's current configuration.

5.8 Data Gaps

It is Hillmann's opinion that no significant data gaps were encountered with regard to the review of historical records for the Property.

6.0 SITE RECONNAISSANCE/INTERVIEWS

6.1 Interviews

Hillmann was accompanied onsite by Mr. Patrick Teal, lead engineer, during the site reconnaissance. Any pertinent information obtained is referenced in the appropriate sections of this report.

6.2 Property Use

The Property development includes eleven (11) commercial structures that provide a combined space of approximately 1,000,229 ft2. Currently the Property is used by several tenants as office buildings with the exception of Quest Diagnostics in 8401 and 8403. Quest diagnostics operates a medical laboratory which tests and analyzes human tissue and fluid specimens.

6.3 Hazardous Substance/Petroleum Products Storage/Handling

Storage of hazardous substances was identified on the Property in building 8401 operated by Quest diagnostics. Such storage included various laboratory chemicals and medical wastes in special sealed secondary containment chambers. No evidence of any spills or releases was observed during the site reconnaissance.

6.4 Waste Generation, Storage and Disposal

No evidence of improper or illegal waste disposal was observed visually during the site reconnaissance. Quest diagnostics in 8401 participates in hazardous waste generation and disposal of laboratory chemical waste and medical waste which is reported to be disposed of by Stericycle on a regular basis.

6.5 Waste Discharges

Sanitary sewage generated on-site is discharged into the Los Angeles County Sanitation District sewer system. Storm water is discharged into the Los Angeles County Sanitation District storm water system. No industrial or process waste discharges were identified at the Property.

6.6 Underground/Above Ground Storage Tanks

There is a 2,500 gallon Grease Trap located adjacent to the south side of building 8411 (The Café) on the Property. It is emptied by Alpha Pumping with the latest service call in July of 2012. Considering the content, kitchen grease traps are not considered to be significant environmental concerns.

There are two diesel AST's (500-gallons at 8521 and 250-gallons at 8511) associated with the two emergency generators operated by the Property owner's leasing and management agent on the Property and there are two additional AST's (1,200-gallons and 4,200-gallons) owned and operated by Quest Diagnostics associated with their emergency generators. No spills or

staining were observed with regards to the AST's. No evidence of any reported spills or releases associated with the active ASTs was found during the assessment.

Database listings reflecting historical USTs at the Property associated with the prior Hughes Missile Testing facility are discussed further in Section 8.1.

6.7 Polychlorinated Biphenyls (PCBs)

Several dry style power transformers were located on the Property and a large power transfer station with multiple transformers was located adjacent to the plant in the center of the Property. The transformers were not labeled as to PCB content and are owned and operated by the Los Angeles County Department of Water and Power. No staining or evidence of a release was observed around transformers at the Property at the time of the assessment.

6.8 Drains/Sumps

No interior floor drains or sumps were noted at the Property. However there are two below grade pumping rooms associated with the water features on the Property.

6.9 Exterior Pits/Ponds/Lagoons

No evidence of exterior pits, ponds or lagoons was identified on the Property in connection with waste treatment or disposal. There are two water features located on the Property. A central pond and a manmade waterfall by the café area are located on the Property.

6.10 Stained Soil, Pavement/Stressed Vegetation

No evidence of stained soils or stressed vegetation was identified on the Property.

6.11 Drinking Water/Wells/Septic Systems

Potable water is provided to the Property by the Los Angeles County Department of Water and Power. No evidence of water wells or septic systems was identified at the Property. There are several groundwater monitoring wells on the Property associated with the ongoing remediation operations.

7.0 NON-ASTM SCOPE CONCERNS

7.1 Asbestos-Containing Material (ACM)

Considering the original date of construction for some of the buildings (circa 1959), there is the potential for asbestos-containing materials in non-renovated areas at the Property. According to surveys performed on the Property the buildings were substantially refurbished in 1999 and the remaining ACM includes the Pipe TSI on the roofs of the older buildings. Additional quantities of ACM or suspect ACM may exist in enclosed areas, or areas not accessed during the assessment. It is emphasized that this limited screening does not constitute a comprehensive asbestos survey of the premises and is meant only to provide a cursory evaluation regarding the overall prevalence of ACM at the Property. Additional investigation and comprehensive testing of suspected ACM would be required to determine the presence or absence of ACM at the Property.

7.2 Lead-Based Paint

Considering the date of construction, lead-based paint may be present at the Property. However, due to the non-residential usage of the Property, lead-based paint is not considered to be a significant environmental concern. In addition, the site was substantially refurbished in 1999 which lessens the potential for lead based paint at the Property. No further investigation is recommended at this time.

7.3 Radon

Radon is a naturally occurring, colorless, odorless gas that is a byproduct of the decay of radioactive materials potentially present in bedrock and soil. Radon gas may enter the lowest level of a building through floor cracks, structural joints or plumbing conduits. The United States Environmental Protection Agency (USEPA) guidance level for annual residential exposure to radon is 4.0 picocuries per liter of air (pCi/L). The guidance level is not a regulatory requirement for private owners of commercial real estate, but is commonly used for comparison purposes to suggest whether further action at a building may be prudent.

Based on information obtained from data possessed by the USEPA, the Property is located in an area with a moderate potential for radon concentrations that exceed current USEPA action guidelines. The County of Los Angeles is classified as Zone 2, or 'moderate risk' area for radon.

According to the Regional Water Quality Control Board (RWQCB), groundwater testing for radioactivity with regards to historical operations at the Property was performed in 1991 and 2009. According to a "No Further Action" Letter from the RWQCB, it was determined that any radioactivity found in the groundwater was from naturally occurring sources and not past site usage. They determined that no further analyses were required.

7.4 Mold

While a comprehensive inspection for the presence of mold and/or microbial growth is beyond the scope of this assessment, Hillmann conducted a cursory screening for evidence of excessive or amplified mold growth, or for conditions favorable for mold growth. No evidence of significant mold growth was identified at the Property in the accessed areas during the cursory screening.

8.0 REGULATORY RECORD REVIEWS

A search of environmental regulatory databases, by Environmental Data Resources of Milford, CT, was conducted in accordance with the requirements of the ASTM. Hillmann also reviewed the "unmappable" listings within the database report, cross-referencing available address information and facility names. Unmappable sites are listings that cannot be plotted with confidence, but are identified as being located within the general area of the Property based on the partial street address, city name or zip code. In general, such a listing cannot be mapped due to inaccurate or incomplete address information in the database that was supplied by the corresponding regulatory agency. Any listings from the unmappable summary that were identified by Hillmann as a result of the area reconnaissance and/or cross-referencing to mapped listings are included in the corresponding database discussion within this section.

REGULATORY DATABASE	SEARCH DISTANCE	ON-SITE LISTINGS	ADJ. PROPERTY LISTINGS	TOTAL WITHIN SEARCH DISTANCE
Fed. NPL	1-mile	0	0	0
Fed. Delisted NPL	½-mile	0	0	0
Fed. CERCLIS	½-mile	0	0	0
Fed. CERCLIS-NFRAP	½-mile	1	0	1
Fed. RCRA CORRACTS	1-mile	1	0	1
Fed. RCRA TSD	½-mile	1	0	1
Fed. RCRA LQG & SQG (Generators)	Site & Adj.	4	0	
Fed. ERNS	Site	0		
State & Tribal SHWS equiv. NPL & CERCLIS	1-mile	1	0	1
State & Tribal SWF/LF	½-mile	0	0	0
State & Tribal LUST	½-mile	1	0	3
State & Tribal Registered Stor. Tank	Site & Adj.	0	0	
State & Tribal ENG. Control List	½-mile	0	0	0
State & Tribal INST. Control List (AUL)	½-mile	0	0	0
State & Tribal VCP	½-mile	0	0	0
State & Tribal Eng. Brownfields (BF)	½-mile	0	0	0
Spills	Site	0		

- *The results of the review for each database are discussed below. The locations for the facilities discussed in this section are shown on the figures in the EDR report, included as Appendix E.*

- *According to the EPA Policy Toward Owners of Property Containing Contaminated Aquifers, dated July 3, 1995, the EPA will not take enforcement action against a property owner who owns property under which is an aquifer contaminated by subsurface migration from an off-site source or sources.*

8.1 On-Site Database Listings

The Property is listed on the CERCLIS-NFRAP database (The EPA database of archived sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that the EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time) as Hughes Missile Systems Co located at 8433 Fallbrook Avenue. The description for the site is listed as "RCRA Deferral – Lead Confirmed". The records show the site was deferred to the RCRA under Subtitle C in 1991 and then archived in 1996.

The Property is listed on the RCRA CORRACTS database(A list of hazardous waste treatment, storage or disposal facilities and other RCRIS facilities (due to past interim status or storage of hazardous waste beyond 90 days) that have been notified by the US EPA to undertake corrective action under RCRA) as Hughes Missile Systems Co located at 8433 Fallbrook Avenue in relation to its use in the manufacturing of guided missile and space vehicle parts and equipment.

The Property is listed on the RCRA TSDF (Facilities listed under TSD are sites that treat, store, and/or dispose of EPA regulated hazardous waste) and Small Quantity Generators (SQG) database as Hughes Missile Systems Co located at 8433 Fallbrook Avenue. Several violations were listed on the database; however, the site is shown as having achieved compliance for all violations listed.

The Property is listed on the RCRA Large Quantity Generators (LQG) database as Quest Diagnostics located at 8401 and 8403 Fallbrook Avenue. Multiple substances were included on the listing; however, no violations were found for the site.

The Property is listed on the RCRA SQG database as The Boeing Co - Canoga Park located at 8521 and 8531 Fallbrook Avenue. Multiple substances were included on the listing; however, no violations were listed for the site.

The Property is listed on the ENVIROSTOR database (The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further) as Hughes Missile Systems Co located at 8433 Fallbrook Avenue. The ENVIROSTOR database lists the site as a Corrective Action site, and lists the site's status as "Active" as of 2009.

The Property is listed on the LUST database as Hughes Missile Systems Co located at 8433 Fallbrook Avenue. The LUST status is shown as "Remedial action (cleanup) Underway" and indicates the site is undergoing quarterly monitoring of the groundwater.

The Property is listed on the SLIC database (The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges) as Hughes Missile Systems Co located at 8433 Fallbrook Avenue. The SLIC database lists the site's status as "Open - Remediation" as of 1992 and 2002.

The Property is listed on the HAZNET database (Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC) Quest Diagnostics Inc. located at 8401 Fallbrook Avenue for the years 2007-2011, and as The Boeing Co - Canoga Park located at 8521 and 8531 Fallbrook Avenue for the years 1999, 2004, 2007, and 2010.

The Property is listed on the FINDS database (Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail) as Quest Diagnostics located at 8401 Fallbrook Avenue and Hughes Missile Systems Co located at 8433 Fallbrook Avenue.

The Property is listed on the NEPDES (National Pollutant Discharge Elimination System) database as Hughes Missile Systems Co located at 8433 Fallbrook Avenue. The NPDES database lists the site's status as "Terminated" as of 2010.

The Property is listed on the CORTESE database (Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites) as Hughes Missile Systems Co located at 8433 Fallbrook Avenue.

The Property is listed on the HWP (EnviroStor Permitted Facilities Listing), Activities, Closure, and Alias databases as Hughes Missile Systems Co located at 8433 Fallbrook Avenue. The facility type on these databases is listed as "Historical – Non-Operating".

The Property is listed on the CA Financial Assurance 1 and US FIN ASSUR databases as Hughes Missile Systems Co located at 8433 Fallbrook Avenue.

The Property is listed on the HIST UST database as Missile Systems Group located at 8433 Fallbrook Avenue. The HIST UST database lists 14 tanks of various sizes that were installed between 1959 and 1980.

The Property is listed on the EMI database (Emissions Inventory Data - Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies) as Missile Systems Group located at 8433 Fallbrook Avenue for the years 1987, 1990, 1993, and 1995-2001.

Additional discussion of the active regulatory cases involving the Property was included in Section 5 of this report.

8.2 Adjoining Property Database Listings

Chatsworth Reservoir at 8600 Fallbrook Avenue, adjacent to the north of the Property, was identified on the CA FID UST and SWEEPS UST databases.

Rockwell AID/C at 8500 Fallbrook Avenue, adjacent to the northwest of the Property, was identified on the CA FID UST (The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource

Control Board), SWEEPS UST (Statewide Environmental Evaluation and Planning System), and HAZNET databases. This site was also listed as Rockwell AID on the RCRA SQG and FINDS databases. The RCRA SQG database states that no violations were found for this site and is not considered to be recognized environmental conditions.

8.3 Federal Agency Record Review

EPA - The National Priorities List (NPL), also known as the Superfund list, is the United States Environmental Protection Agency (EPA) listing of uncontrolled or abandoned hazardous waste sites. These sites are targeted for possible long-term remedial action under the Superfund Act of 1980. The list is primarily based on the EPA's Hazardous Ranking System.

- No NPL listings were identified within a one-mile radius of the subject property.

EPA – Delisted NPL Site List (DNPL) provides a list of sites formerly listed on the NPL that have since been "de-listed" after the EPA has determined that no further response is appropriate.

- No DNPL listings were identified within a ½-mile radius of the Property.

EPA - The Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) is the EPA database of known or suspected uncontrolled or abandoned hazardous waste sites. These sites have either been investigated, or are currently under investigation by the EPA for the release or threatened release of hazardous substances.

- No CERCLIS listings were identified within a ½-mile radius of the Property.

EPA – CERCLIS-NFRAP (No Further Remedial Action Planned) is the EPA database of archived sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that the EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time.

- No CERCLIS-NFRAP listings were identified within a ½-mile radius of the Property.

EPA - The Resource Conservation and Recovery Information System (RCRIS) is a database of facilities, which generate or treat, store or dispose of EPA regulated hazardous waste, or meet other applicable requirements of the Resource Conservation and Recovery Act (RCRA). Inclusion on this database does not imply that mishandling or a release of hazardous waste has occurred at the facility. RCRIS categories are as follows:

Corrective Action (CORRACTS) list is a list of hazardous waste treatment, storage or disposal facilities and other RCRIS facilities (due to past interim status or storage of hazardous waste beyond 90 days) that have been notified by the US EPA to undertake corrective action under RCRA.

- No CORRACTS listings were identified within a one-mile radius of the subject Property.

Treatment, Storage, and Disposal Facilities (TSD). Facilities listed under TSD are sites that treat, store, and/or dispose of EPA regulated hazardous waste.

- No TSD listings were identified within a ½-mile radius of the Property.

Large Quantity Generators (LQG). Facilities listed under LQG either generate more than 1000 Kilograms (kg) of EPA regulated hazardous waste per month, or meet other applicable requirements of RCRA.

- No adjoining properties were identified on the LQG database.

Small Quantity Generators (SQG). Facilities listed under SQG either generate from 100 kilograms (kg) to 1000 kg of EPA regulated hazardous waste per month, or meet other applicable requirements of RCRA.

- No adjoining properties were identified on the SQG database.

EPA - The Emergency Response Notification System (ERNS) is a national database used to store information concerning the sudden and/or accidental release of hazardous substances, including petroleum in quantities greater than the reportable quantity, as maintained at the National Response Center. The database contains preliminary information from spill reports made to various federal departments including the EPA.

- No listings were identified for the Property.

8.4 State Agency Record Review

State Hazardous Waste Sites (SHWS) database contains potential or confirmed hazardous substance release properties.

- No SHWS listings were identified within a one-mile radius of the Property.

Solid Waste Facility/Landfill (SWF/LF) list provides information on the location of registered state landfills and associated transfer facilities.

- No SWF/LF listings were identified within a ½-mile radius of the subject Property.

Leaking Underground Storage Tank's (LUST) is a comprehensive listing of all reported active and inactive leaking storage tank sites.

- Two (2) LUST listings were identified within a ½-mile radius of the Property. They were identified as City of LA General Services and LA City Fire Station #106 located at 23004 Roscoe Boulevard. This site is approximately 1,082 feet west-southwest and cross-gradient of the subject Property. This site was assigned a"Completed - Case Closed" status in 2000, but was reopened and assigned an "Open – Site Assessment" status in 2002.

Considering the distance and topographical relation to the Property, this site is not considered to be a recognized environmental condition in connection with the Property.

Registered Storage Tank Database is the listing of registered storage tank sites. This includes the UST database.

- No adjoining properties were identified on the UST database.

Engineering Controls Site Listing (ENG Controls) list provides information on the location of remediation sites using engineering controls as part of the response action. Engineering controls include various forms of caps, building foundations, liners and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

- No ENG Controls listings were identified within a ½-mile radius of the subject Property.

Institutional Controls Site Listing (INST Controls) list provides information on the location of remediation sites using institutional controls as part of the response action. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions and post remediation care requirements intended to prevent exposure to contaminants remaining on-site. Deed restrictions are generally required as part of the institutional controls.

- No INST Controls listings were identified within a ½-mile radius of the Property.

Voluntary Cleanup Program (VCP) and **Independent Cleanup Report (ICR)** lists provide information on the location of sites involved in a Voluntary Cleanup or similar program. Under a Voluntary Cleanup Program, a property owner will voluntarily enter into an agreement with a state or local environmental regulatory agency to conduct an investigation and remediation for specific area(s) of concern.

- No VCP or ICR sites were identified within a ½-mile radius of the Property.

Brownfields (BF) list provides information on the location of sites involved in a state or local Brownfields program.

- No Brownfield listings were identified within a ½-mile radius of the Property.

Review of the remaining sites identified within the ASTM search parameters did not identify any site that is considered to be a REC in connection with the Property.

8.5 Local Government Agencies

City of Los Angeles

Building Department

Hillmann contacted the City of Lo Angeles Building Department to review building permits on file for the Property's addresses. Building permits for the original buildings constructed in 1959 were reviewed, along with various tenant improvements, demolition permits, and building permits for the new builds that were constructed on the Property in the late 1990's and mid 2000's.

Los Angeles County

Tax Assessor's Office

Property information was researched at the Los Angeles County Tax Assessor's Office during the site assessment. The current Assessor's Parcel Numbers (APN) for the Property are 2005-002-009, 2005-022-001, 2005-022-002, 2005-022-003, 2005-022-004, 2005-022-005, 2005-022-006, and 2005-002-011. According to Tax Assessor's records, the current Property building owner is MEPT West Hills, LLC.

Los Angeles County Fire Department

Hillmann contacted the Los Angeles County Fire Department in order to determine if any records of underground storage tanks (USTs) or hazardous wastes/materials were on file for the property's address. Hillmann reviewed records of routine inspections at the property. No records indicating any spills or releases were identified. As of the date of this report, no response has been received by the Los Angeles County Fire Department.

County of Los Angeles Department of Public Works

Hillmann contacted the County of Los Angeles Department of Public Works (LADPW) in order to determine if any UST or hazardous materials records were on file for the Property's addresses. To date no response has been received from the agency.

State of California

South Coast Air Quality Management District

Hillmann contacted the South Coast Air Quality Management District (SCAQMD) in order to determine if there are any records of applications, permits to operate, equipment list reports, notices of violations, notices to comply, complaints, site inspection reports, emissions summaries, source test reports, air monitoring data, asbestos notifications, facility potential to emit, facility positive balance or toxic health risk assessments on file for the Property's address. To date no response has been received from the agency.

Department of Toxic Substances Control – Cypress Regional Office

Hillmann contacted the State of California Department of Toxic Substances Control (DTSC) in order to determine if any records were on file for the property's address. To date no response has been received from the agency, however several files were reviewed online via the DTSC's Envirostor database.

Regional Water Quality Control Board – Santa Ana Region

Hillmann contacted the State of California Regional Water Quality Control Board (RWQCB) in order to determine if any records of underground storage tanks (USTs) or groundwater contamination were on file for the Property's address. To date no response has been received from the agency; however several files were available for review through the online Geotracker database including the most recent

9.0 ENVIRONMENTAL PROFESSIONAL STATEMENT

I declare that, to the best of my professional knowledge and belief, I meet the definition of *Environmental Professional* as defined in §312.10 of 40 CFR 312. I have the specific qualifications based on education, training and experience to assess a *property* of the nature, history and setting of the subject Property. Hillmann has developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



_____

David Rutherford
Environmental Professional

10.0 REFERENCES

EDR City Directory Abstract Report, Environmental Data Resources, 2012

EDR Radius Map Report with GeoCheck, Environmental Data Resources, 2012

EDR Sanborn Map Report, Environmental Data Resources, 2012

EDR Historical Topographic Map Report, Environmental Data Resources, 2012

EDR Aerial Photography Print Service, Environmental Data Resources, 2012

11.0 APPENDICES

Appendix A	Site Photographs
Appendix B	Maps/Diagrams
Appendix C	Historical Land Use Documentation/Maps
Appendix D	Reference Documents / Laboratory Results (if applicable)
Appendix E	Regulatory Database Report

APPENDIX A

SITE PHOTOGRAPHS

PHOTO LOG

8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue and
22801 Roscoe Boulevard
Los Angeles, CA
C3-5451



View of the front of building 8521



View of a typical office in 8521



View of exterior Pipe TSI on the roof of 8521



View of the roof of 8521 facing northwest



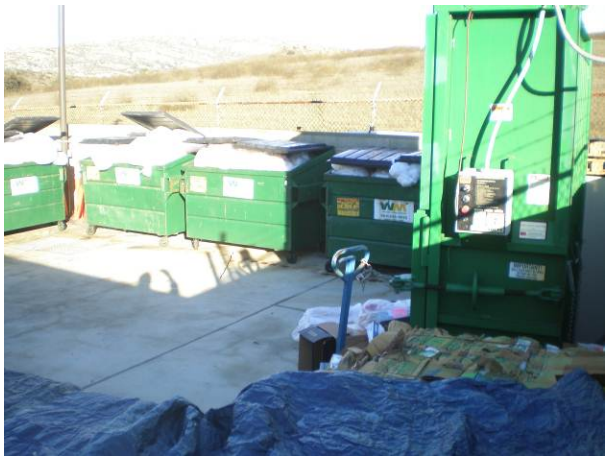
View of the decommissioned pump and treat system in the northwest portion of the Property



View of the front of the Pump and treat system

PHOTO LOG

8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue and
22801 Roscoe Boulevard
Los Angeles, CA
C3-5451



View of waste area next to the pump and treat system



View of a typical janitorial storage area



View of a typical bathroom



View of a typical elevator room



View of a typical electrical room



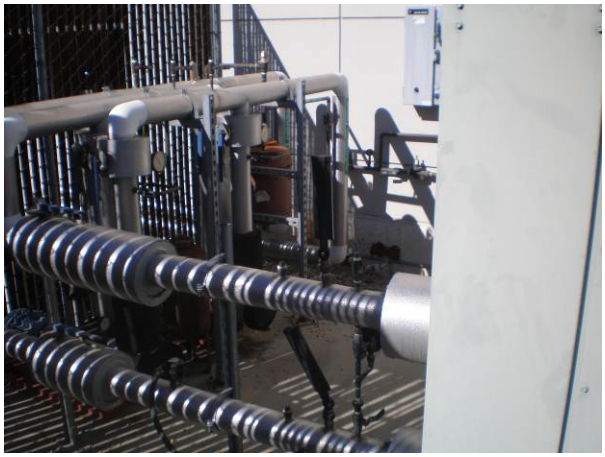
View of a compressor on the roof of 8521

PHOTO LOG

8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue and
22801 Roscoe Boulevard
Los Angeles, CA
C3-5451



View of 8531



View of the condensing unit outside of 8531



View of the emergency generator outside of 8531



View of a typical office space in 8531



View of a typical bathroom



View of the compressor on the roof of 8531

PHOTO LOG

8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue and
22801 Roscoe Boulevard
Los Angeles, CA
C3-5451



View of the roof of 8531



View of a typical elevator room in 8511



View of a monitoring well outside of 8531



View of a typical office in 8511

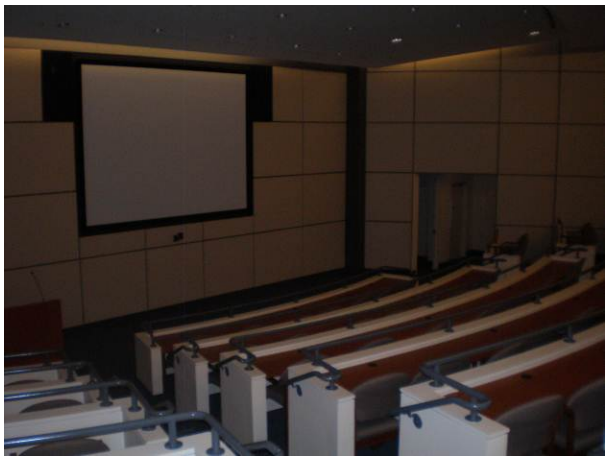


View of the front of 8511



View of the roof on 8511 facing northeast

PHOTO LOG
8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue and
22801 Roscoe Boulevard
Los Angeles, CA
C3-5451


View of the auditorium in 8511


View of the grass area to the south of 8511



View of the emergency generator outside of 8511


View of the water feature to the south of 8511


View of the transformer outside of 8511


View of 8415 (The Plant) facing southeast

PHOTO LOG

8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue and
22801 Roscoe Boulevard
Los Angeles, CA
C3-5451



View of paint storage



View of water treatment chemicals in the Plant



View of paint storage in the Plant



View of waste lube oil storage in secondary containment in the Plant



View of equipment in the Plant



View of the Plant office

PHOTO LOG

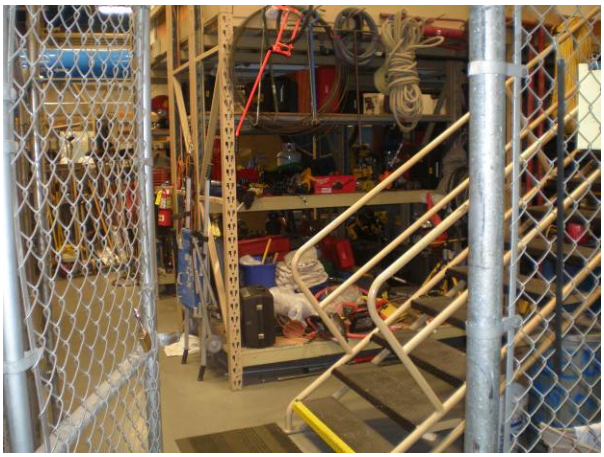
8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue and
22801 Roscoe Boulevard
Los Angeles, CA
C3-5451



View of the hydraulic elevator system in the Plant



View of 8413 facing southeast



View of equipment storage in the Plant



View of mechanical room in 8413



View of the elevator pit in the Plant



View of the basement in 8413

PHOTO LOG

8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue and
22801 Roscoe Boulevard
Los Angeles, CA
C3-5451



View of a dry style transformer in 8531



View of the electrical room in 8501



View of a elevator machine room in 8531



View of the elevator room in 8501



View of 8501 facing northeast



View of the lobby in 8501

PHOTO LOG

8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue and
22801 Roscoe Boulevard
Los Angeles, CA
C3-5451



View of the roof of 8501 facing north



View of the water feature to the west of 8531



View of the roof of the Plant and 8531 including the power station



View of the Caf®(8411)



View of the evaporators at the Plant



View of the inside of the cafe

PHOTO LOG

8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue and
22801 Roscoe Boulevard
Los Angeles, CA
C3-5451



View of the kitchen area in the caf®





View of the inside eating area of the cafe



View of the outside eating area and water feature to the west of the cafe



View of 8407



View inside air handler room inside 8407

PHOTO LOG
8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue and
22801 Roscoe Boulevard
Los Angeles, CA
C3-5451


View of a typical office inside 8407


View of the roof of 8407


View of an elevator room inside 8407



View of 22801 from the south


View of the roof of 8407


View of a typical electrical room in 22801

PHOTO LOG

8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue and
22801 Roscoe Boulevard
Los Angeles, CA
C3-5451



View of the lobby inside 22801



View of the transformer outside 22801



View of an elevator room inside 22801



View of paint and water treatment outside of 22801



View of the Plant inside 22801



View of the chiller outside of 22801

PHOTO LOG

8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue and
22801 Roscoe Boulevard
Los Angeles, CA
C3-5451



View of the roof on 22801



View of the entrance to the adjacent Los Angeles dispatch center to the west



View of the parking lot to the south of 22801



A view of the dispatch center facing southwest



View of the residential properties to the south



View of the Helipad on the southwest portion of the Property

PHOTO LOG

8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue and
22801 Roscoe Boulevard
Los Angeles, CA
C3-5451



View of the parking lot on the property facing east



View of sampling equipment stored in a vault by the pump and treat system



View of a monitoring well in the northwest portion of the Property



View of the adjacent property owned by Los Angeles County to the north



View of the pump and treat system



View of newer monitoring wells in the north portion of the Property

PHOTO LOG

8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue and
22801 Roscoe Boulevard
Los Angeles, CA
C3-5451



View of the Property facing west from the east



View of the pumping system for the water feature outside the caf®



View of the recreational property to the east owned by Boeing



View of the pumping system for the main water feature in the center of the Property



View of the grease interceptor outside of the Caf®



Another view of the pumping system for the main water feature

PHOTO LOG

8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue and
22801 Roscoe Boulevard
Los Angeles, CA
C3-5451



View of a monitoring well in the south center of the Property



View of the deionized water system at 8401



View of 8401 (Quest) facing southeast



View of the emergency generator at 8401



View of compressed gas storage in 8401



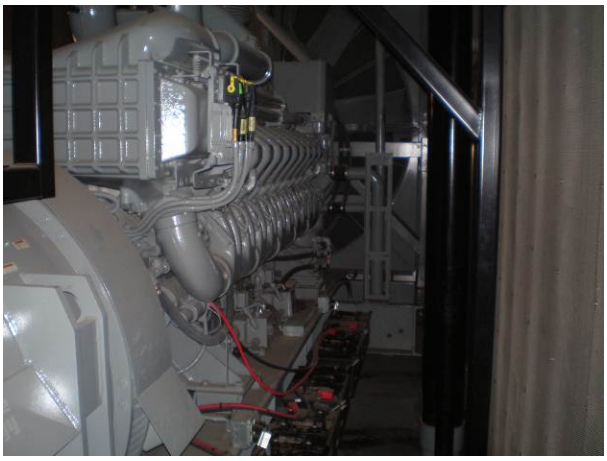
View of Hazardous waste storage in 8401

PHOTO LOG

8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue and
22801 Roscoe Boulevard
Los Angeles, CA
C3-5451



View of solvent waste storage at 8401



View inside the emergency generator outside of 8403



View of Medical waste storage at 8401



View of the lab hood filtration system on the roof of 8403



View of the emergency generator outside of 8403



View of the roof of 8403

APPENDIX B

MAPS/DIAGRAMS

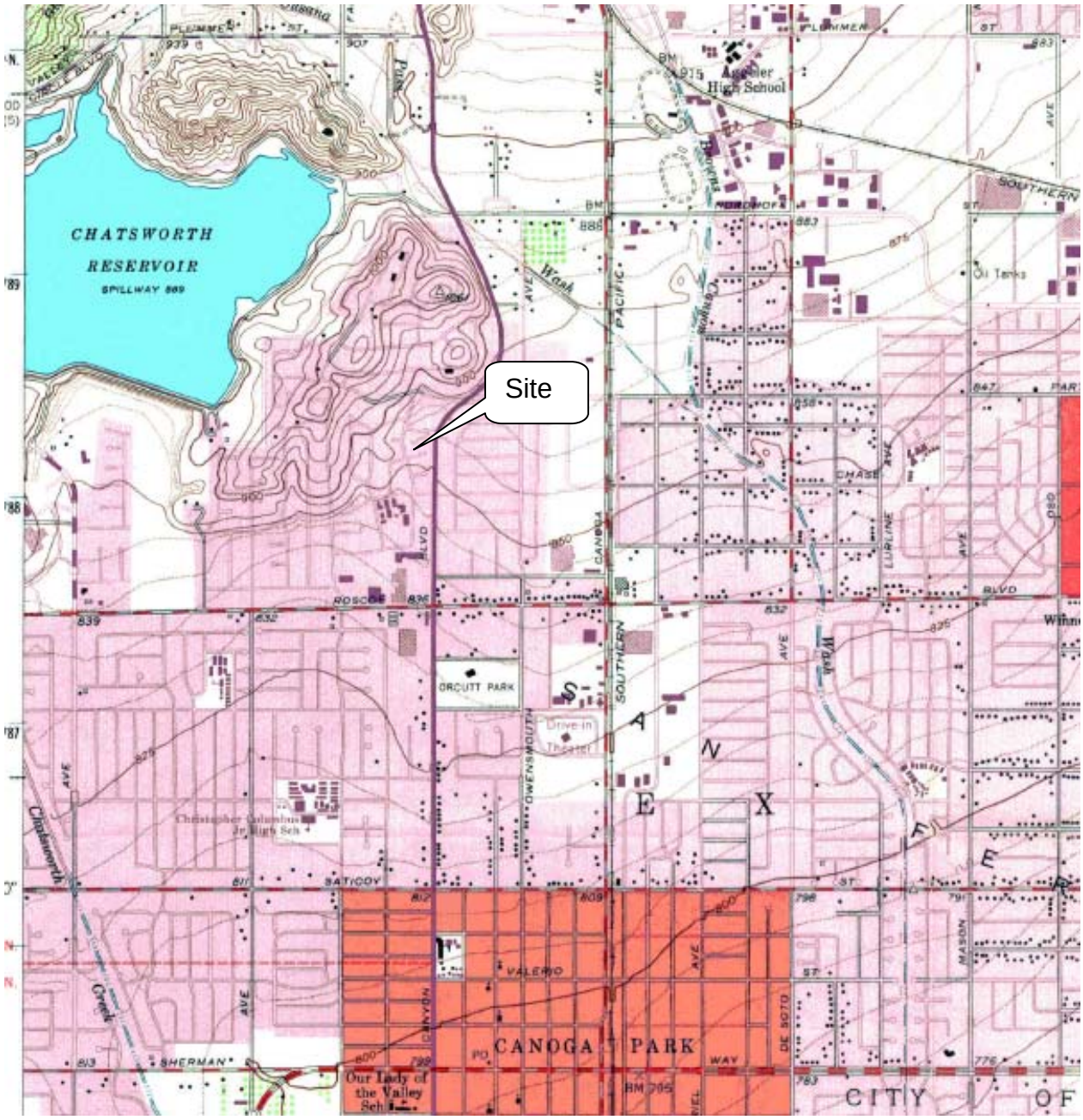


Figure 1: SITE VICINITY MAP	SCALE: (Not to Scale)	N

HILLMANN CONSULTING

Project Location:	8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue Los Angeles, CA
Project No.:	C3-5451



Figure 2: SITE DIAGRAM	SCALE: (Not to Scale)	N ↑

HILLMANN CONSULTING

Project Location:	8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue Los Angeles, CA
Project No.:	C3-5451

APPENDIX C

HISTORICAL LAND USE DOCUMENTATION/MAPS

8401 Fallbrook Avenue
8401 Fallbrook Avenue
Canoga Park, CA 91304

Inquiry Number: 3468067.5
December 07, 2012

The EDR Aerial Photo Decade Package

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

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Date EDR Searched Historical Sources:

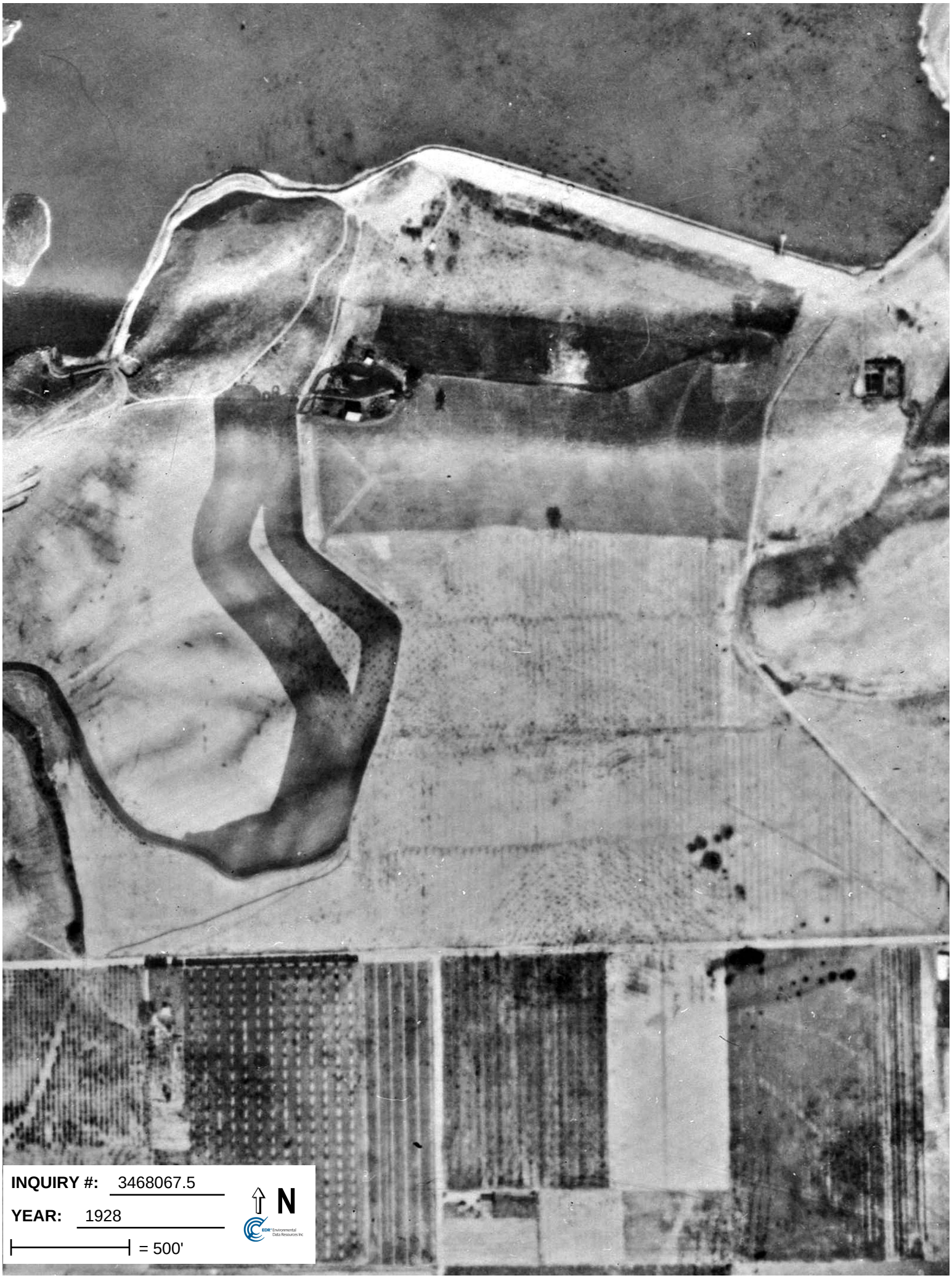
Aerial Photography December 07, 2012

Target Property:

8401 Fallbrook Avenue

Canoga Park, CA 91304

Year	***Scale***	***Details***	***Source***
1928	Aerial Photograph. Scale: 1"=500'	Flight Year: 1928	Fairchild
1938	Aerial Photograph. Scale: 1"=500'	Flight Year: 1938	Laval
1947	Aerial Photograph. Scale: 1"=500'	Flight Year: 1947	Tubis
1956	Aerial Photograph. Scale: 1"=500'	Flight Year: 1956	Fairchild
1965	Aerial Photograph. Scale: 1"=500'	Flight Year: 1965	Fairchild
1976	Aerial Photograph. Scale: 1"=500'	Flight Year: 1976	Teledyne
1989	Aerial Photograph. Scale: 1"=500'	Flight Year: 1989	USGS
1994	Aerial Photograph. Scale: 1"=500'	/Composite DOQQ - acquisition dates: 1994	EDR
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	EDR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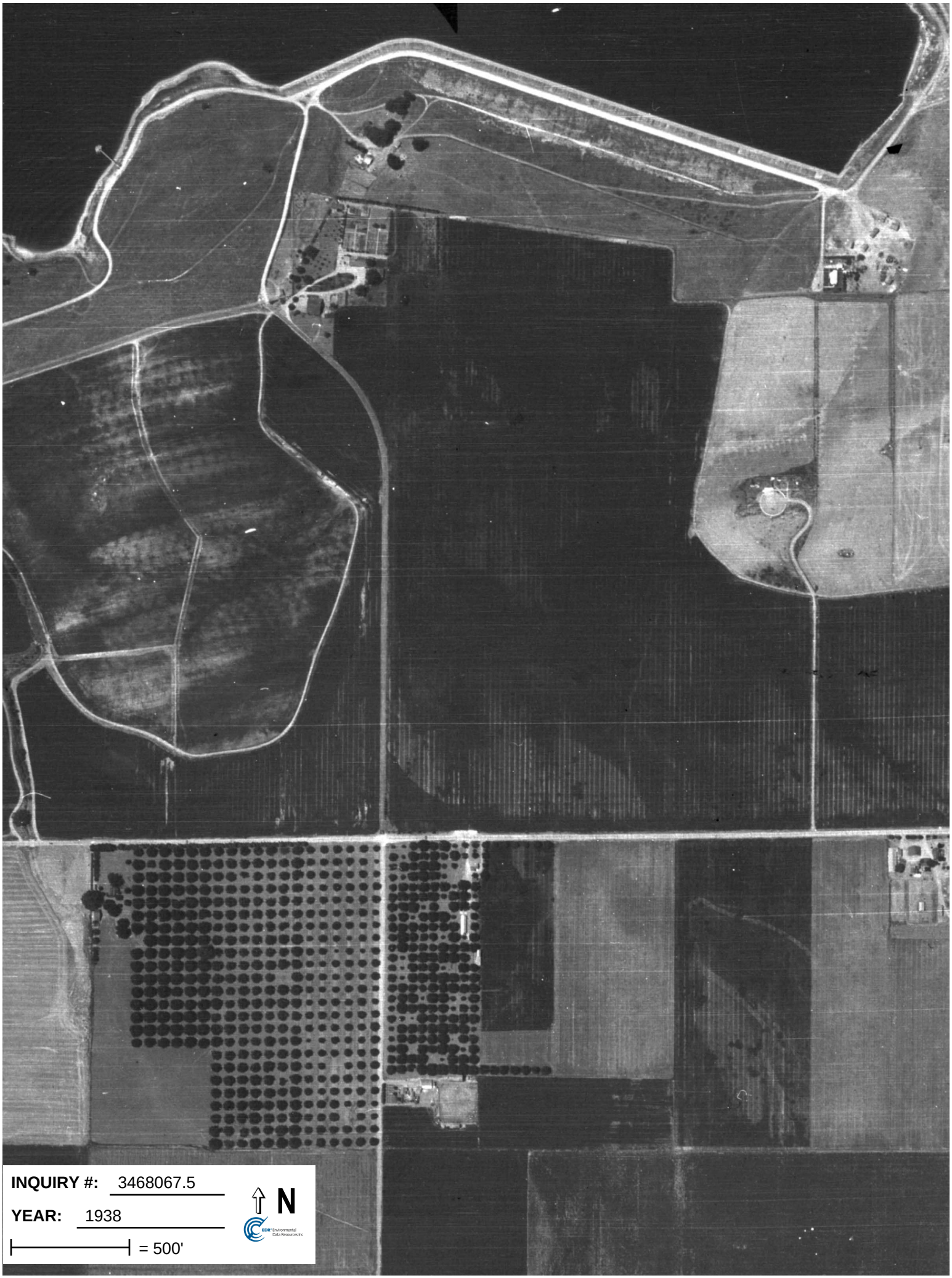
EDR Environmental Data Resources Inc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EDR Environmental Data Resources Inc


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EDR Environmental Data Resources Inc


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YEAR: 1976
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EDR Environmental Data Resources Inc


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YEAR: 1994
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INQUIRY #: 3468067.5
YEAR: 2005
= 500'
N

8401 Fallbrook Avenue
8401 Fallbrook Avenue
Canoga Park, CA 91304

Inquiry Number: 3468067.4
December 03, 2012

EDR Historical Topographic Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Historical Topographic Map Report

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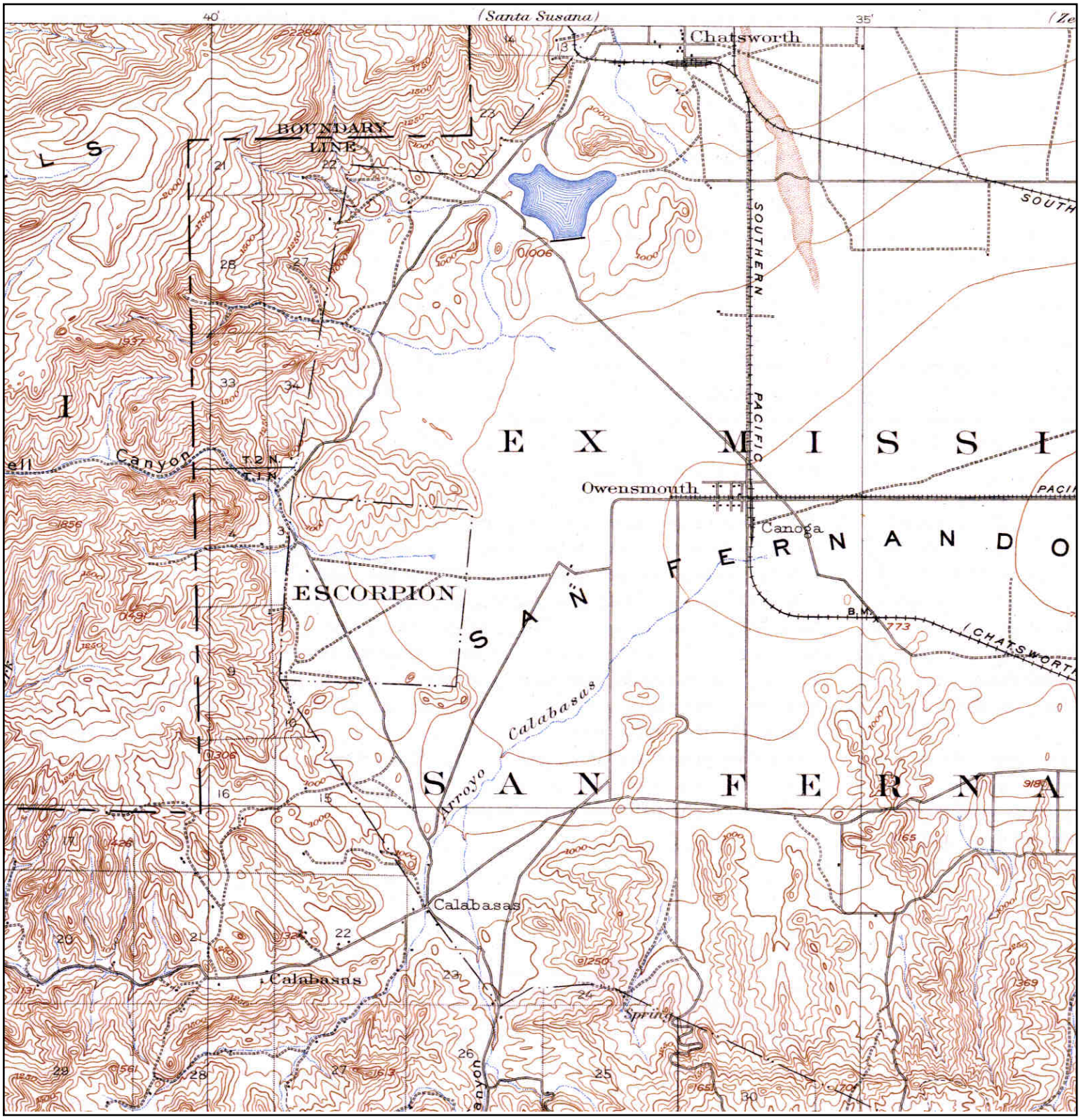
Historical Topographic Map



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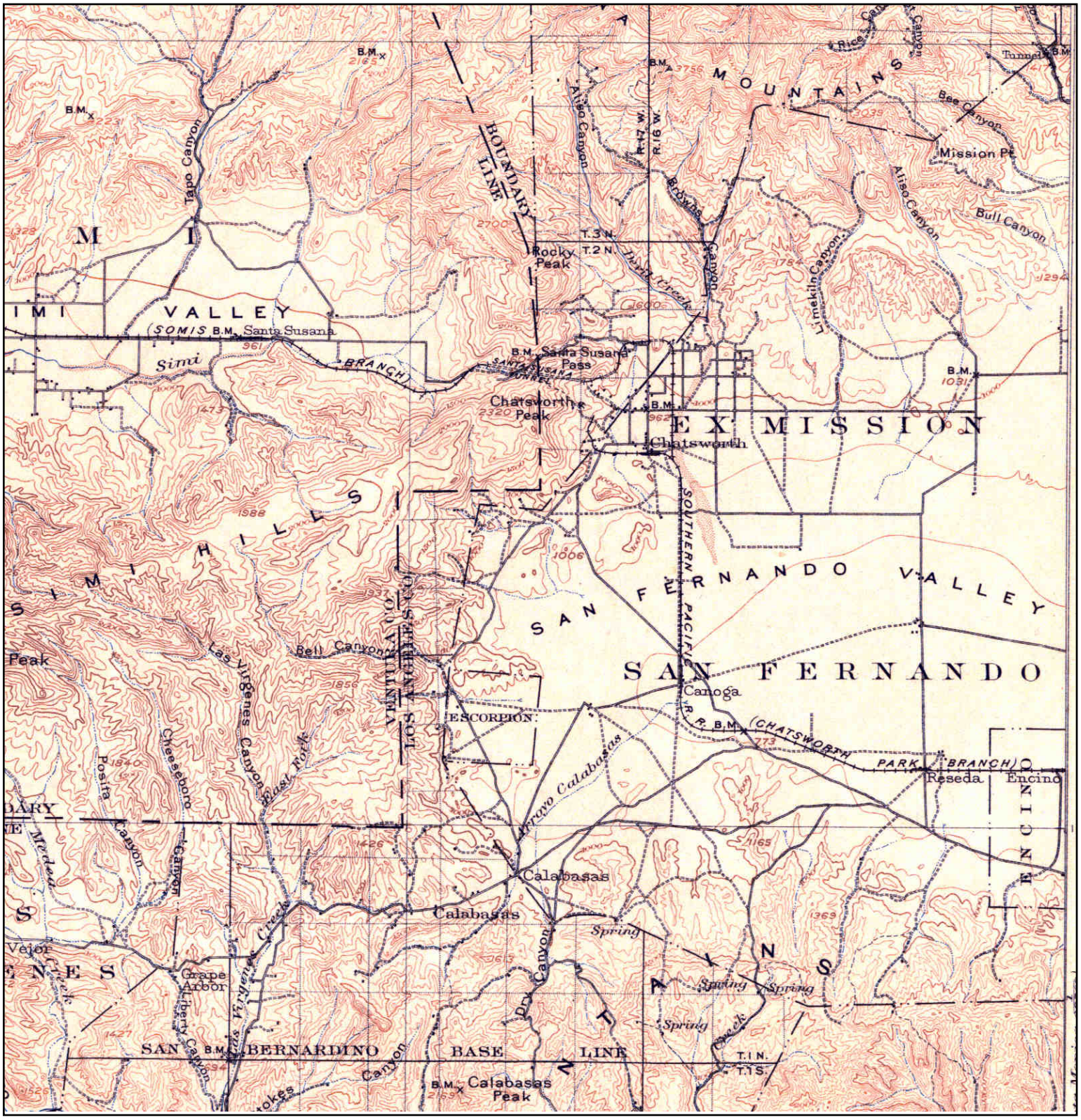
Historical Topographic Map



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Historical Topographic Map



N	TARGET QUAD NAME: SOUTHERN CA SHEET 3 MAP YEAR: 1910 SERIES: 60 SCALE: 1:250000	SITE NAME: 8401 Fallbrook Avenue ADDRESS: 8401 Fallbrook Avenue Canoga Park, CA 91304 LAT/LONG: 34.2216 / -118.6235	CLIENT: Hillmann Environmental Co. CONTACT: Kristi Hill INQUIRY#: 3468067.4 RESEARCH DATE: 12/03/2012

Historical Topographic Map



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Historical Topographic Map



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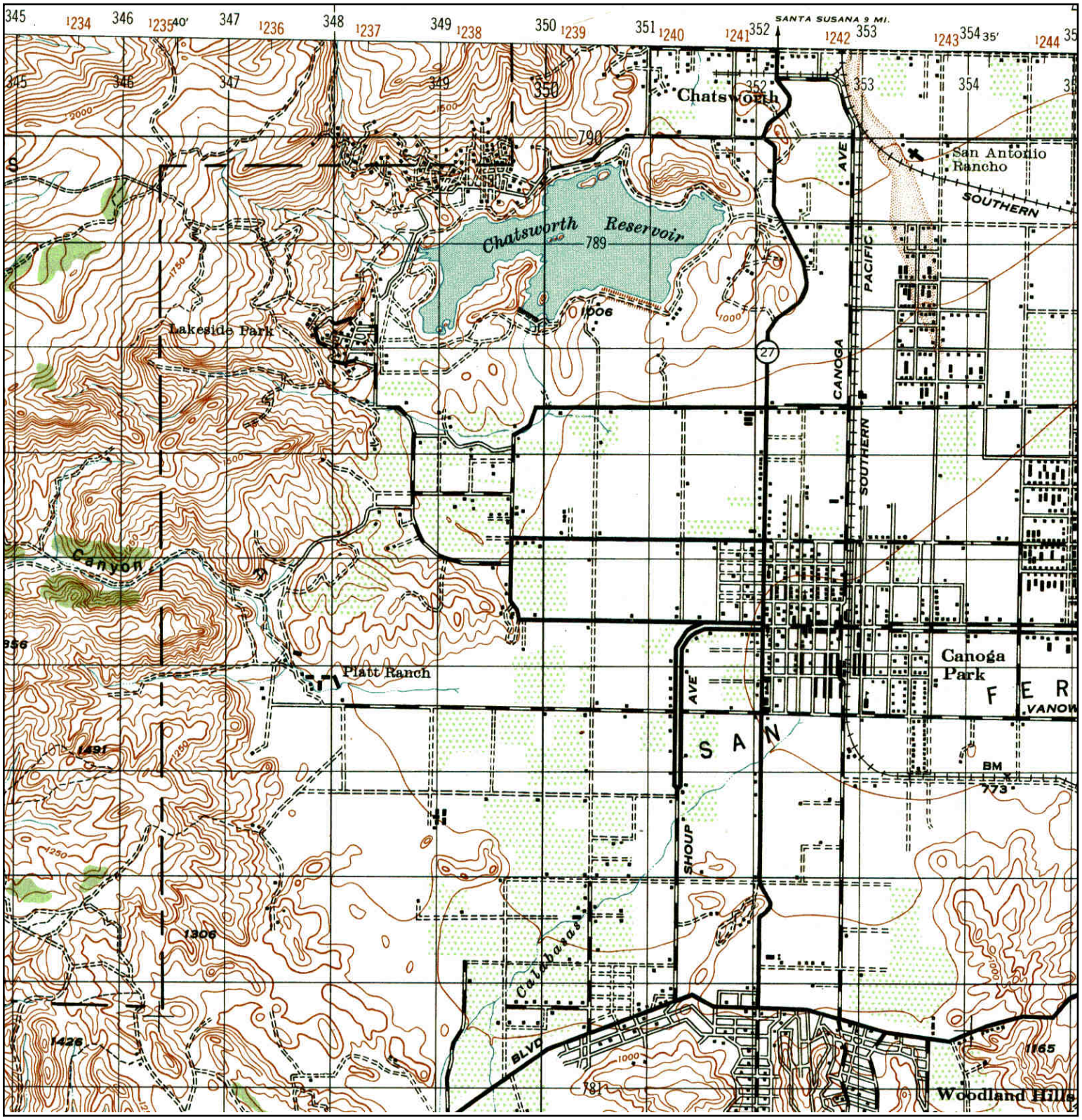
Historical Topographic Map



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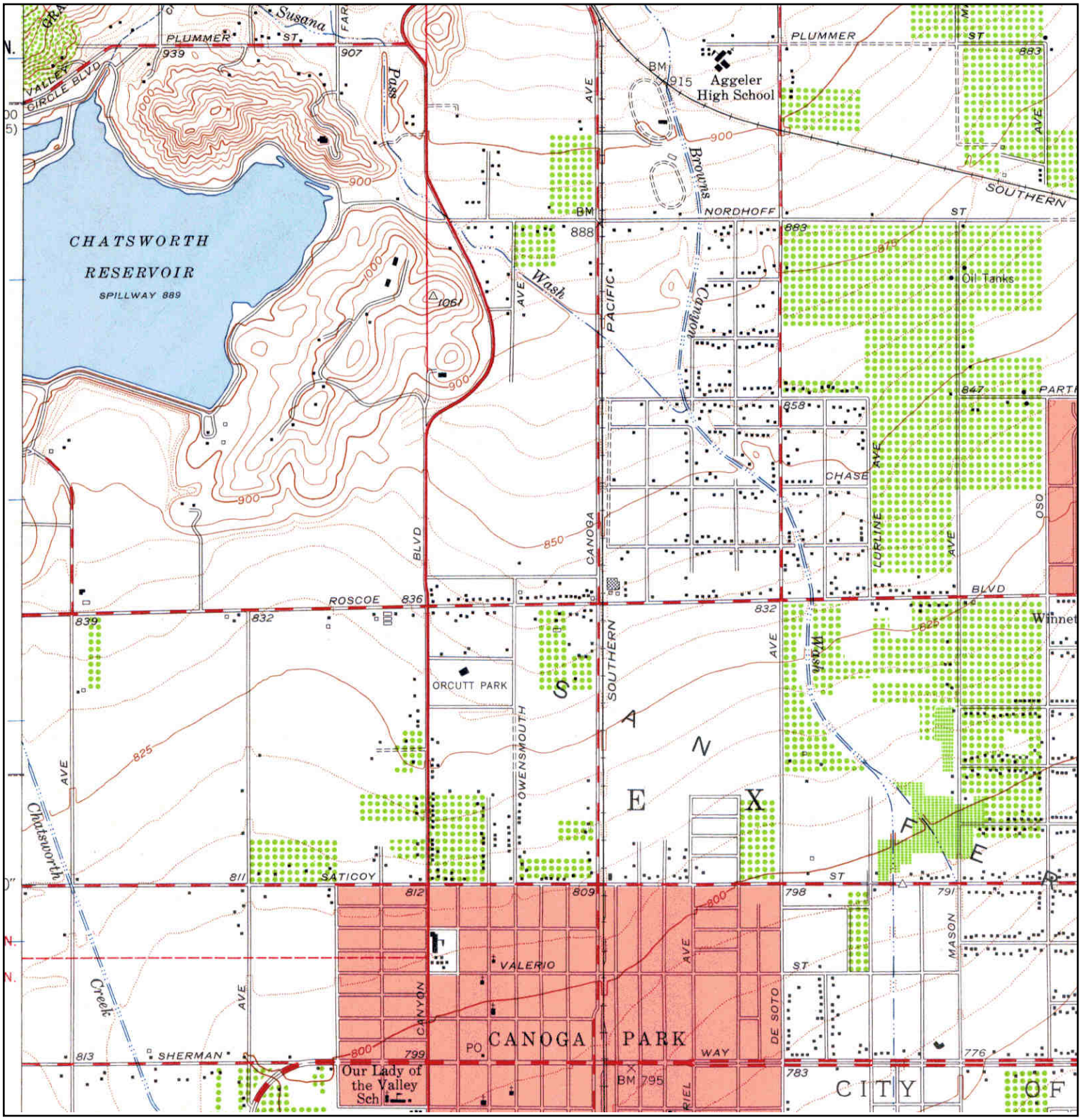
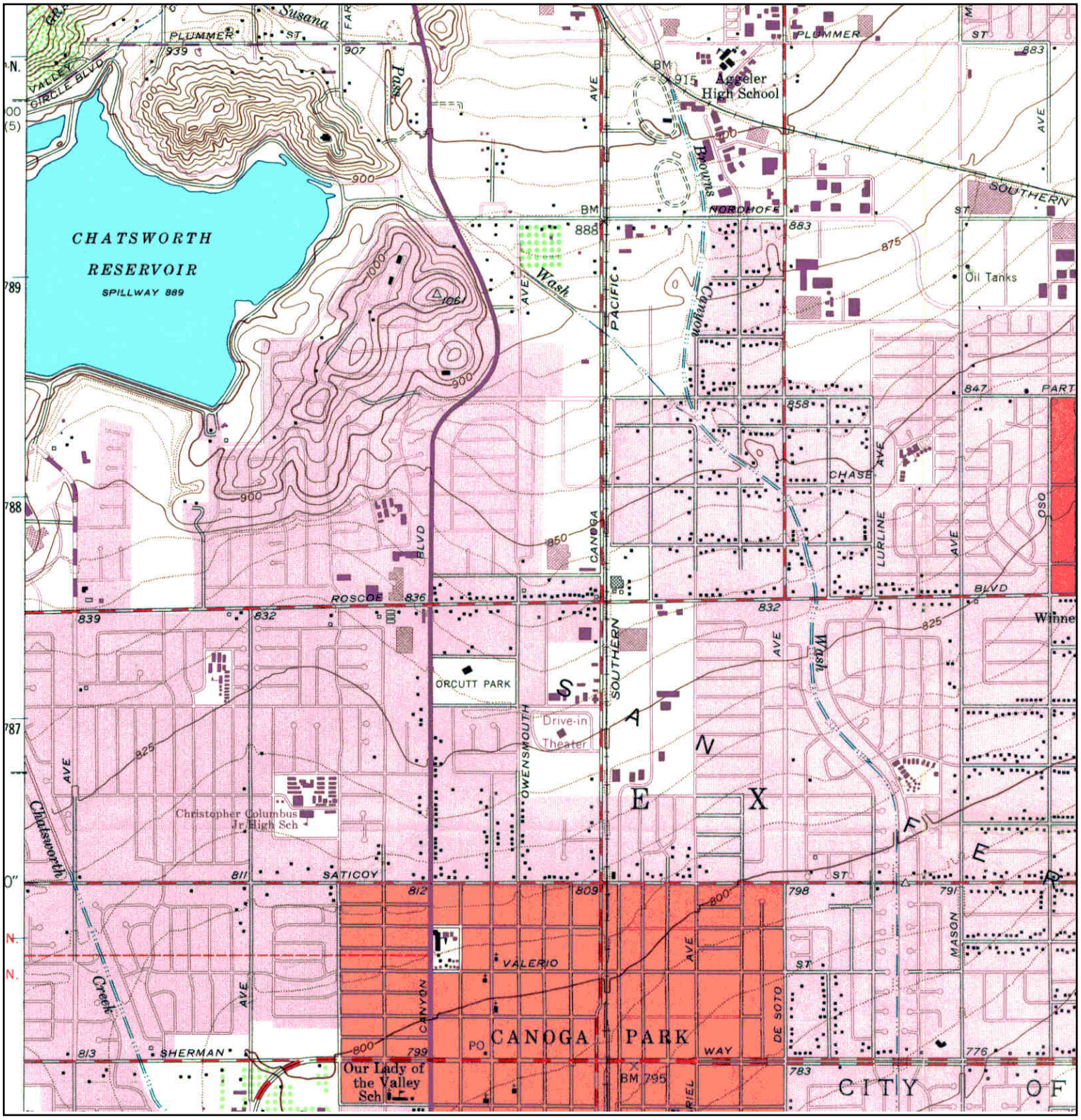
Historical Topographic Map



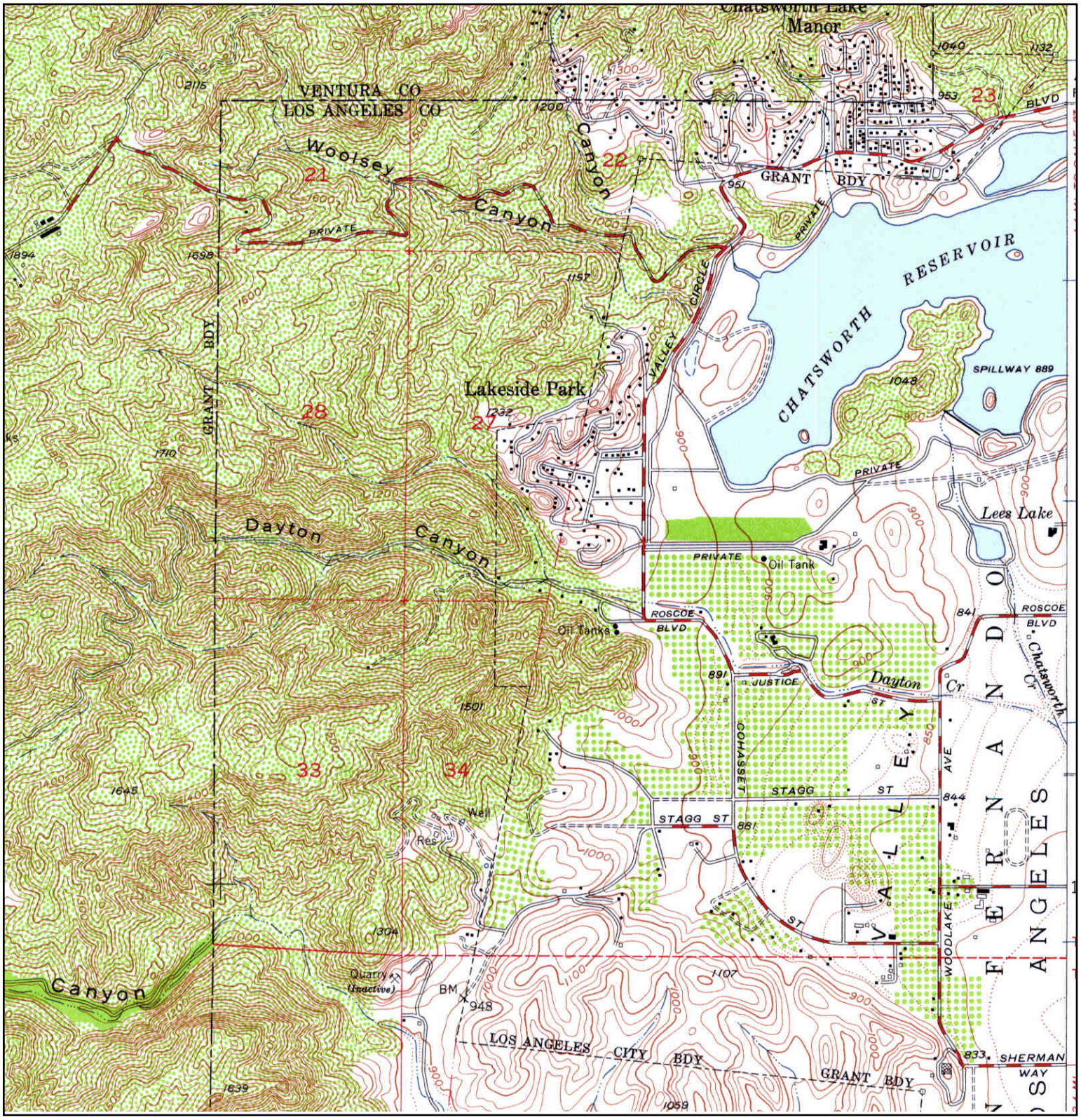
N	TARGET QUAD NAME: CANOGA PARK MAP YEAR: 1952 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 8401 Fallbrook Avenue ADDRESS: 8401 Fallbrook Avenue Canoga Park, CA 91304 LAT/LONG: 34.2216 / -118.6235	CLIENT: Hillmann Environmental Co. CONTACT: Kristi Hill INQUIRY#: 3468067.4 RESEARCH DATE: 12/03/2012

Historical Topographic Map



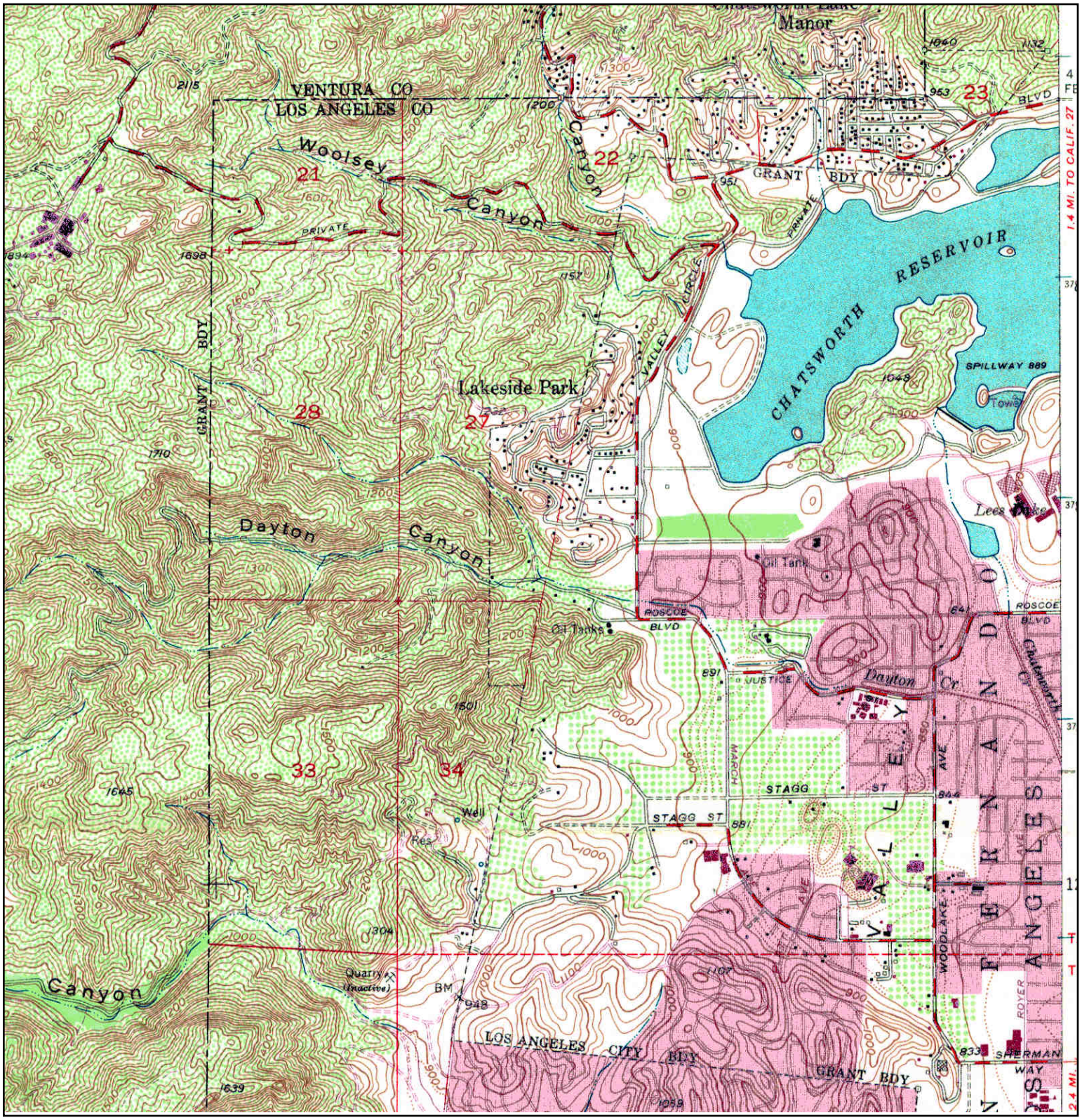
N	TARGET QUAD NAME: CANOGA PARK MAP YEAR: 1967 PHOTOREVISED FROM :1952 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 8401 Fallbrook Avenue ADDRESS: 8401 Fallbrook Avenue Canoga Park, CA 91304 LAT/LONG: 34.2216 / -118.6235	CLIENT: Hillmann Environmental Co. CONTACT: Kristi Hill INQUIRY#: 3468067.4 RESEARCH DATE: 12/03/2012

Historical Topographic Map



N	ADJOINING QUAD		
	NAME: CALABASAS	SITE NAME: 8401 Fallbrook Avenue	CLIENT: Hillmann Environmental Co.
	MAP YEAR: 1952	ADDRESS: 8401 Fallbrook Avenue	CONTACT: Kristi Hill
		Canoga Park, CA 91304	INQUIRY#: 3468067.4
	SERIES: 7.5	LAT/LONG: 34.2216 / -118.6235	RESEARCH DATE: 12/03/2012
	SCALE: 1:24000		

Historical Topographic Map



N	ADJOINING QUAD NAME: CALABASAS MAP YEAR: 1967 PHOTOREVISED FROM :1952 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 8401 Fallbrook Avenue ADDRESS: 8401 Fallbrook Avenue Canoga Park, CA 91304 LAT/LONG: 34.2216 / -118.6235	CLIENT: Hillmann Environmental Co. CONTACT: Kristi Hill INQUIRY#: 3468067.4 RESEARCH DATE: 12/03/2012

8401 Fallbrook Avenue
8401 Fallbrook Avenue
Canoga Park, CA 91304

Inquiry Number: 3468067.3
December 03, 2012

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

12/03/12

Site Name:
8401 Fallbrook Avenue
8401 Fallbrook Avenue
Canoga Park, CA 91304

Client Name:
Hillmann Environmental Co.
4510 E. Pacific Coast Hwy
Long Beach, CA 90804

EDR Inquiry # 3468067.3

Contact: Kristi Hill

EDR® Environmental Data Resources Inc

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Hillmann Environmental Co. were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: 8401 Fallbrook Avenue
Address: 8401 Fallbrook Avenue
City, State, Zip: Canoga Park, CA 91304
Cross Street:
P.O. # NA
Project: C3-5451
Certification # 5B38-4209-9ACD

Sanborn® Library search results
Certification # 5B38-4209-9ACD

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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8401 Fallbrook Avenue
8401 Fallbrook Avenue
Canoga Park, CA 91304

Inquiry Number: 3468067.6
December 03, 2012

The EDR-City Directory Abstract

Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2012. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2012	Cole Information Services	X	X	X	-
2007	Cole Information Services	X	X	X	-
2006	Haines Company	-	-	-	-
2004	Haines Company	X	X	X	-
2003	Haines & Company	-	-	-	-
2001	Haines & Company, Inc.	-	-	-	-
2000	Haines & Company	-	-	-	-
1999	Haines Company	-	-	-	-
1996	GTE	-	-	-	-
1995	Pacific Bell	-	X	X	-
1992	PACIFIC BELL WHITE PAGES	-	-	-	-
1991	Pacific Bell	-	X	X	-
1990	Pacific Bell	-	X	X	-
1986	Pacific Bell	-	X	X	-
1985	Pacific Bell	-	X	X	-
1981	Pacific Telephone	-	X	X	-
1980	Pacific Telephone	-	X	X	-
1976	Pacific Telephone	-	X	X	-
1975	Pacific Telephone	-	X	X	-
1972	R. L. Polk & Co.	-	-	-	-
1971	Pacific Telephone	-	-	-	-
1970	Pacific Telephone	-	X	X	-
1969	Pacific Telephone	-	-	-	-
1967	Pacific Telephone	-	X	X	-
1966	Pacific Telephone	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1965	Pacific Telephone	-	X	X	-
1964	Pacific Telephone	-	-	-	-
1963	Pacific Telephone	-	-	-	-
1962	Pacific Telephone	-	X	X	-
1961	Luskey Brothers & Co	-	-	-	-
1960	General Telephone Company Publishers	-	-	-	-
1958	Pacific Telephone	-	-	-	-
1957	Pacific Telephone	-	-	-	-
1956	General Telephone Company Publishers	-	-	-	-
1955	Home Directory Service	-	-	-	-
1954	R. L. Polk & Co.	-	-	-	-
1952	Los Angeles Directory Co.	-	-	-	-
1951	Los Angeles Directory Co Publishers	-	-	-	-
1950	Pacific Telephone	-	-	-	-
1949	Los Angeles Directory Co.	-	-	-	-
1948	Associated Telephone Company, Ltd.	-	-	-	-
1947	Los Angeles Directory Co.	-	-	-	-
1946	Southern California Telephone Co	-	-	-	-
1945	R. L. Polk & Co.	-	-	-	-
1944	R. L. Polk & Co.	-	-	-	-
1942	Los Angeles Directory Co.	-	-	-	-
1940	Los Angeles Directory Co.	-	-	-	-
1939	Los Angeles Directory Co.	-	-	-	-
1938	Los Angeles Directory Co.	-	-	-	-
1937	Los Angeles Directory Co.	-	-	-	-
1936	Los Angeles Directory Co.	-	-	-	-
1935	Los Angeles Directory Co.	-	-	-	-
1934	Los Angeles Directory Co.	-	-	-	-
1933	Los Angeles Directory Co.	-	-	-	-
1932	Los Angeles Directory Co.	-	-	-	-
1931	TRIBUNE-NEWS PUBLISHING CO.	-	-	-	-
1930	Los Angeles Directory Co.	-	-	-	-
1929	Los Angeles Directory Co.	-	-	-	-
1928	Los Angeles Directory Co.	-	-	-	-
1927	Kaasen Directory Company Publishers	-	-	-	-
1926	Los Angeles Directory Co.	-	-	-	-
1925	Los Angeles Directory Co.	-	-	-	-
1924	Los Angeles Directory Co.	-	-	-	-
1923	Los Angeles Directory Co.	-	-	-	-
1921	Los Angeles Directory Co.	-	-	-	-
1920	Los Angeles Directory Co.	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

8401 Fallbrook Avenue
Canoga Park, CA 91304

FINDINGS DETAIL

Target Property research detail.

FALLBROOK AVE

8401 FALLBROOK AVE

Year	*Uses*	*Source*
2012	QUEST DIAGNOSTICS	Cole Information Services
2007	QUEST DIAGNOSTICS	Cole Information Services
	QUEST DIAGNOSTICS 6833014	Cole Information Services
2004	no info	Haines Company

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

ECCLES ST

22700 ECCLES ST

Year	Uses	Source
2007	DILLARD C DEIDRA	Cole Information Services
2004	BOWENDwight	Haines Company
1995	Bowen Dwight	Pacific Bell
1985	Winstead M	Pacific Bell
	Christiansen L	Pacific Bell
1965	OZERGMAN NAL TER	Pacific Telephone

22710 ECCLES ST

Year	Uses	Source
2004	BOWENRoss	Haines Company
1991	Bowen Ross	Pacific Bell
1985	Bowen Ross	Pacific Bell
1975	Murphy Ray	Pacific Telephone

22711 ECCLES ST

Year	Uses	Source
2004	AGUIAR Esmeralda	Haines Company
1975	Mc Donald John S	Pacific Telephone

22721 ECCLES ST

Year	Uses	Source
1995	Henderson James & Catherine	Pacific Bell
1991	Henderson M	Pacific Bell
	Henderson James & Catherine	Pacific Bell
1965	BURROWS LLDYC JR	Pacific Telephone

22726 ECCLES ST

Year	Uses	Source
2004	FRAZBen	Haines Company
1991	Janis M	Pacific Bell
	Janis Jack M	Pacific Bell
1985	Janis Jack M	Pacific Bell

FINDINGS

Year	Uses	Source
1985	Janis Julie	Pacific Bell
1975	Janis Jack M	Pacific Telephone
1965	LALONTAINE RURERT J	Pacific Telephone

22731 ECCLES ST

Year	Uses	Source
2004	ZHAOYulmn	Haines Company
1995	Hammerstrom John E	Pacific Bell
1985	Hammerstrom John E	Pacific Bell
	Hammerton M F	Pacific Bell
1975	Hammerstrom John E	Pacific Telephone
1965	STASSINJS JAS	Pacific Telephone

22734 ECCLES ST

Year	Uses	Source
2004	THOMPSON End	Haines Company
	THOMPSON M	Haines Company
	THOMPSON Meln	Haines Company
1995	Thompson Melvin & Enid	Pacific Bell
1991	Thompson Alan	Pacific Bell
	Thompson Merrill	Pacific Bell
	Thompson Melvin & Enid	Pacific Bell
1985	Thompson Alan	Pacific Bell
1975	Ryave Louis	Pacific Telephone
1965	AHIDER FRANK	Pacific Telephone

22741 ECCLES ST

Year	Uses	Source
2004	CASEYRobt J	Haines Company
1995	Casey Robt J	Pacific Bell
1991	Casey Robt J	Pacific Bell
1985	Casey Robt J	Pacific Bell
1965	SULLIVAN BARRY	Pacific Telephone

22742 ECCLES ST

Year	Uses	Source
2004	OMCCARTY Richard	Haines Company

FINDINGS

22750 ECCLES ST

Year	Uses	Source
2004	STEVENS Dauglas	Haines Company
	TUSOBovery	Haines Company
1975	Koerner Ralph	Pacific Telephone
1965	(ORKOARNER RALPH	Pacific Telephone

22751 ECCLES ST

Year	Uses	Source
2004	ONOGUERA Caroline	Haines Company
	PASTORES Augustlus	Haines Company
1985	Conyers Thos M	Pacific Bell

22758 ECCLES ST

Year	Uses	Source
2004	MICHALSKI Ed	Haines Company
1991	Vickery BL	Pacific Bell
	Vickery Bob & Jacquie Lk Vw Ter	Pacific Bell
1985	Vickery Bl L	Pacific Bell
1975	Vickery Bl L	Pacific Telephone
1965	BERNAT(H LOUIS	Pacific Telephone

22761 ECCLES ST

Year	Uses	Source
2004	AMON Antonia	Haines Company
1995	Amon Antonio Nuestro	Pacific Bell
1991	Foster BD	Pacific Bell
	Foster BS	Pacific Bell
1985	Foster Bl D	Pacific Bell
	Foster Bl J	Pacific Bell
	Foster Barry	Pacific Bell
	Foster Bl S	Pacific Bell
1975	Foster Bl D	Pacific Telephone
1965	FO S TER B	Pacific Telephone

FALLBROOK

8433 FALLBROOK

Year	Uses	Source
1967	BUNKER RAMO CORP THE Teleregister Products & Services	Pacific Telephone

Year	Uses	Source
1962	TRW COMPUTERS A DIV OF THOMPSON RAMO WOOLDRIDGE INC	Pacific Telephone
	Commercial Electronics Div	Pacific Telephone
	THOMPSON RAMO WOOLDRIDGE INC	Pacific Telephone
	Microwave Div	Pacific Telephone
	TRW Div	Pacific Telephone
	THOMPSON RAMO WOOLDRIDGE INC	Pacific Telephone
	THOMPSON RAMO WOOLDRIDGE INC West Coast Executive Ofc	Pacific Telephone
	TRW ELECTRONICS A SUBSIDIARY OF THOMPSON RAMO WOOLDRIDGE INC	Pacific Telephone
	Microwave Div	Pacific Telephone
	TRW Computers Div	Pacific Telephone
	TRW Internatl Div	Pacific Telephone
	RW DIV OF THOMPSON RAMO WOOLDRIDGE INC	Pacific Telephone
	MICROWAVE A DIV OF THOMPSON RAMO WOOLDRIDGE INC	Pacific Telephone

FALLBROOK AVE

8350 FALLBROOK AVE

Year	Uses	Source
2004	ABANILLAAlberto	Haines Company
1970	HENNESY HUGH P MRS	Pacific Telephone
	HENNESY HUGH P MRS	Pacific Telephone
1962	HENNESY HUGH P MRS	Pacific Telephone
	DE FORCE JAS L MRS	Pacific Telephone

8356 FALLBROOK AVE

Year	Uses	Source
2004	PFLEGER Robert	Haines Company
1962	BERG ROBT S	Pacific Telephone

8362 FALLBROOK AVE

Year	Uses	Source
2004	HARMON Robert	Haines Company
1962	LAMAN GEO M	Pacific Telephone

8370 FALLBROOK AVE

Year	Uses	Source
2004	SOITOCarl	Haines Company

FINDINGS

Year	Uses	Source
1995	ORourke Donald P	Pacific Bell
1991	ORourke Donald P	Pacific Bell
1985	ORourke Donald P	Pacific Bell
1980	OROURKE DONALD P CANOGA PARK	Pacific Telephone
1962	STONSKAS JOS J	Pacific Telephone

8378 FALLBROOK AVE

Year	Uses	Source
2004	DUNN Constance	Haines Company
1970	SENSENBAUGH N D	Pacific Telephone
	SENSENBAUGH N D	Pacific Telephone
1962	LEFEVRE RAYMOND	Pacific Telephone

8384 FALLBROOK AVE

Year	Uses	Source
1970	MCCORMICK R J CANOGA PARK	Pacific Telephone
	MCCORMICK R J CANOGA PARK	Pacific Telephone
1962	LAMPTON ROBT L	Pacific Telephone

8394 FALLBROOK AVE

Year	Uses	Source
2004	NAPA Mariano	Haines Company

8407 FALLBROOK AVE

Year	Uses	Source
2012	QBE FIRST	Cole Information Services
	WEST INSURANCE ANGENCY	Cole Information Services
2007	WESTWOOD INSURANCE AGENCY	Cole Information Services
	WELLPOINT PHARMACY MANAGEMENT	Cole Information Services
2004	WESTINSURANCE	Haines Company
	ANGENCY	Haines Company

8411 FALLBROOK AVE

Year	Uses	Source
2012	TRLMANA RESTAURANT	Cole Information Services
2007	SODEXHO INC	Cole Information Services

8412 FALLBROOK AVE

Year	Uses	Source
2004	GULARIANL	Haines Company

FINDINGS

Year	Uses	Source
1970	CONRAD ARCHIE S	Pacific Telephone
	CONRAD ARCHIE S	Pacific Telephone
1962	CONRAD ARCHE S	Pacific Telephone

8413 FALLBROOK AVE

Year	Uses	Source
2012	TRAMMELL CROW SO CAL INC	Cole Information Services
2007	E Z BUY E Z SELL RECYCLER CORP	Cole Information Services
	TRAMMELL CROW CO	Cole Information Services
	RECYCLER CLASSIFIED	Cole Information Services
2004	ANGENCY	Haines Company
	TRAMMELLCROWSO	Haines Company

8415 FALLBROOK AVE

Year	Uses	Source
2004	no info	Haines Company

8420 FALLBROOK AVE

Year	Uses	Source
2004	MOVER qary O	Haines Company
	MOVER Gary D	Haines Company
1995	Moyer Gary D	Pacific Bell
1991	Moyer Gary D	Pacific Bell
1985	Moyer Gary D	Pacific Bell
1980	MOYER GARY D	Pacific Telephone
1970	VAN DUINWYK GEO	Pacific Telephone
	VAN DUINWYK GEO	Pacific Telephone

8430 FALLBROOK AVE

Year	Uses	Source
2004	BLAIR Franklin	Haines Company
1980	WILLIS WAYNE A	Pacific Telephone
1970	WILLIS WAYNE A	Pacific Telephone
	WILLIS WAYNE A	Pacific Telephone
1962	GIBBONS G M	Pacific Telephone

8433 FALLBROOK AVE

Year	Uses	Source
2007	TOOLEY	Cole Information Services
	SODEXHO	Cole Information Services

FINDINGS

Year	Uses	Source
2004	SODEXHO MARRIOTT	Haines Company
	SERVICES	Haines Company
1995	I Missile Systems Group	Pacific Bell
	Hughes Aircraft Co	Pacific Bell
1991	Hughes Aircraft Co Canoga Park Missile Systems Group	Pacific Bell
	Hughes Aircraft Co Canoga Park Missae Systems Group	Pacific Bell
	Hughes Microelectronics Center	Pacific Bell
1990	HUGHES AIRCRAFT CO	Pacific Bell
1986	HUGHES AIRCRAFT CO CANOGA PARK MISSILE SYSTEMS GROUP CANOGA PARK	Pacific Bell
1985	Mc Alpine & Salyer Const Inc	Pacific Bell
	HUGHES AIRCRAFT CO	Pacific Bell
	HUGHES AIRCRAFT CO	Pacific Bell
	Me Alpine & Salyer Construction Inc	Pacific Bell
	Missile Systems Group	Pacific Bell
	Village Electric	Pacific Bell
1981	HUGHES AIRCRAFT CO	Pacific Telephone
1980	HUGHES AIRCRAFT CO	Pacific Telephone
	AMELCO ELECTRIC CO	Pacific Telephone
	HUGHES AIRCRAFT CO CORPORATE OFFICES	Pacific Telephone
	Missile Systems Group	Pacific Telephone
	HUGHES AIRCRAFT CO	Pacific Telephone
1976	Aerospace Group Systems Div	Pacific Telephone
	Hughes Internatl Centinela Av & Teale CC	Pacific Telephone
1975	Systems Div	Pacific Telephone
	HUGHES AIRCRAFT CO AEROSPACE GROUP	Pacific Telephone
1970	BUNKER-RAMO CORP THE AMPHENOL CONNECTOR DIV	Pacific Telephone
	BUNKER-RAMO CORP THE DEFENSE SYSTEMS DIV	Pacific Telephone
	HUGHES AIRCRAFT CO AEROSPACE GROUP	Pacific Telephone
	BUNKER-RAMO CORP THE AMPHENOL CONNECTOR DIV	Pacific Telephone
	BUNKER-RAMO CORP THE DEFENSE SYSTEMS DIV	Pacific Telephone
	HUGHES AIRCRAFT CO AEROSPACE GROUP	Pacific Telephone

FINDINGS

Year	Uses	Source
1962	EDUCATIONAL ELECTRONICS A DIV OF THOMPSON RAMO WOOLDRIDGE INC	Pacific Telephone
	MICROWAVE A DIV OF THOMPSON RAMO WOOLDRIDGE INC	Pacific Telephone
	R W DIVISION OF THOMPSON RAMO WOOLDRIDGE INC	Pacific Telephone
	TRW COMPUTERS A DIV OF THOMPSON RAMO WOOLDRIDGE INC	Pacific Telephone
	THOMPSON RAMO WOOLDRIDGE ING	Pacific Telephone
	THOMPSON RAMO WOOLDRIDGE ING	Pacific Telephone
	THOMPSON RAMO WOOLDRIDGE ING	Pacific Telephone
	THOMPSON RAMO WOOLDRIDGE ING	Pacific Telephone
	THOMPSON RAMO WOOLDRIDGE ING	Pacific Telephone
	THOMPSON RAMO WOOLDRIDGE ING	Pacific Telephone
	THOMPSON RAMO WOOLDRIDGE ING	Pacific Telephone
	SPACE TECHNOLOGY LABORATORIES INC	Pacific Telephone

8438 FALLBROOK AVE

Year	Uses	Source
2004	MATTILAKelly	Haines Company
1985	Clark Bud & Bea	Pacific Bell
	Clark Bruce A	Pacific Bell
	Clark Brian & Randy	Pacific Bell
1980	GHERARDI TERESA M	Pacific Telephone
1962	HAMMES JOHN	Pacific Telephone

8448 FALLBROOK AVE

Year	Uses	Source
2004	WALCZAK Thomas	Haines Company
1995	Richards Cuyler	Pacific Bell

8501 FALLBROOK AVE

Year	Uses	Source
2012	S1 CORPORATION	Cole Information Services
	XEROX	Cole Information Services
	COUNTRYWIDE HOME LOANS	Cole Information Services
	MEPT WEST HILLS LLC	Cole Information Services
	ONE CALL MEDICAL	Cole Information Services
2007	COUNTRYWIDE HOME LOANS	Cole Information Services
	51 CORP 0501 FALIBROOK AV	Cole Information Services

Year	Uses	Source
2007	S1 CORP	Cole Information Services

8511 FALLBROOK AVE

Year	Uses	Source
2012	CA	Cole Information Services
2007	COUNTRYWIDE HOME LOANS INC	Cole Information Services
	QUEST DIAGNOSTICS	Cole Information Services

8521 FALLBROOK AVE

Year	Uses	Source
2012	CB RICHARD ELLIS	Cole Information Services
	COMPUTRITION	Cole Information Services
	SERVICON	Cole Information Services
2007	AMERICAS WHOLESALE LENDER	Cole Information Services
	COUNTRYWIDE HOME LOANS	Cole Information Services
	COUNTRYWIDE	Cole Information Services
	INTERNATIONAL BUS MACHINES CORP	Cole Information Services

8531 FALLBROOK AVE

Year	Uses	Source
2012	BOEING IDS DIRECTED ENERGY SYSTEMS	Cole Information Services
2007	BOEING CO	Cole Information Services

FALLBROOK LN

8350 FALLBROOK LN

Year	Uses	Source
1970	DE FORCE JAS L MRS	Pacific Telephone
	DE FORCE JAS L MRS	Pacific Telephone

8433 FALLBROOK LN

Year	Uses	Source
1970	BUNKER-RAMO CORP THE	Pacific Telephone
	HUGHES AIRCRAFT C&	Pacific Telephone
	BUNKER-RAMO CORP THE	Pacific Telephone
1962	THOMPSON RANO WOOLORIDGE INC	Pacific Telephone

FINDINGS

MAYNARD AVE

8356 MAYNARD AVE

Year	Uses	Source
2004	NELSON Edwin C	Haines Company
1995	Nelson Ed	Pacific Bell
1991	Nelson Ed	Pacific Bell

8357 MAYNARD AVE

Year	Uses	Source
2007	UNIVERSITY HEALTH PROFESSIONALS	Cole Information Services
2004	CERRATO Cheryl	Haines Company
1995	Doran Earl R	Pacific Bell
1991	Doran Earl R	Pacific Bell
	Doran J	Pacific Bell
	Doran Greg & Lisa	Pacific Bell
1985	Doran Earl R	Pacific Bell

8362 MAYNARD AVE

Year	Uses	Source
2007	MLJ ENTERPRISES	Cole Information Services
2004	CATESDarold	Haines Company

8363 MAYNARD AVE

Year	Uses	Source
2004	DEER Tina	Haines Company

8368 MAYNARD AVE

Year	Uses	Source
2004	MOORE Kenne Uth	Haines Company
1965	STERNDALE HENRY	Pacific Telephone

8369 MAYNARD AVE

Year	Uses	Source
2004	SBULMANBryan	Haines Company
1985	Sirody Sol	Pacific Bell
1980	SIRODY SOL	Pacific Telephone
1965	SROOY SOL	Pacific Telephone

FINDINGS

8374 MAYNARD AVE

Year	Uses	Source
2004	KAKOSMary	Haines Company
1985	Olson Carl & Lucille Cambridge Counselor Independent	Pacific Bell
	Olson Carl & Lucille	Pacific Bell
1980	OLSON CARL B	Pacific Telephone
1975	Canoga Park	Pacific Telephone
1965	EOLSON CARL	Pacific Telephone

8375 MAYNARD AVE

Year	Uses	Source
2004	APPLEJoseph	Haines Company
1995	Apple Jos S	Pacific Bell
1991	Apple Limousine & Car Service	Pacific Bell
	Apple Jos S	Pacific Bell
1985	Automated Logic Systems Inc	Pacific Bell
	Apple Marijane	Pacific Bell
	Apple Limousine & Car Service	Pacific Bell
	Apple Jos S	Pacific Bell
1980	APPLE JOS S	Pacific Telephone
	APPLE JOS S	Pacific Telephone
1965	APPLE JOS	Pacific Telephone

8380 MAYNARD AVE

Year	Uses	Source
2004	BARBELLO Petler	Haines Company
1995	Imel Lester	Pacific Bell
1991	Imera D Sytr	Pacific Bell
	Imel Timothy	Pacific Bell
	Imendorf RL	Pacific Bell
	Imel Lester	Pacific Bell
1985	Imendorf R L	Pacific Bell
	Imel Timothy	Pacific Bell
	Imel Lester	Pacific Bell
1980	IMEL LESTER	Pacific Telephone
1965	OHKOSTER ROBT	Pacific Telephone

8381 MAYNARD AVE

Year	Uses	Source
2004	OSTEWARTWalter	Haines Company

Year	Uses	Source
1991	Rashbaum Dean & Lynn	Pacific Bell
	Rashe Myer O PCty	Pacific Bell
	Rashedi D	Pacific Bell
	Rasheed Habeeb	Pacific Bell
1985	Rashbaum Dean & Lynn	Pacific Bell
1980	BORGMAN ROBT W	Pacific Telephone
1970	BORGMAN ROBT W	Pacific Telephone
	BORGMAN ROBT W	Pacific Telephone
1965	BRORGMAN ROBT	Pacific Telephone
1962	BORGMAN ROBT W	Pacific Telephone

8386 MAYNARD AVE

Year	Uses	Source
2004	no info	Haines Company
1995	Holmes T	Pacific Bell
1991	Holmes Tamara	Pacific Bell
	Holmes T	Pacific Bell
1965	WEBB ERNE ST	Pacific Telephone

MAYNARD DR

8356 MAYNARD DR

Year	Uses	Source
1970	COWDEN EARL ROLAND	Pacific Telephone
	COWDEN EARL ROLAND	Pacific Telephone
1962	MORLEY FRANKLYN J	Pacific Telephone

8357 MAYNARD DR

Year	Uses	Source
1970	DORAN EARL R	Pacific Telephone
	DORAN EARL R	Pacific Telephone
1962	GOTTLIEB ARTHUR	Pacific Telephone

8362 MAYNARD DR

Year	Uses	Source
1962	KING ROBT Q	Pacific Telephone

8368 MAYNARD DR

Year	Uses	Source
1962	MINERVA VITO P	Pacific Telephone

FINDINGS

8369 MAYNARD DR

Year	Uses	Source
1970	SIRODY SOL	Pacific Telephone
	SIRODY SOL	Pacific Telephone

8374 MAYNARD DR

Year	Uses	Source
1970	OLSON CARL B	Pacific Telephone
	OLSON CARL B	Pacific Telephone
1962	OLSON CARL B	Pacific Telephone

8375 MAYNARD DR

Year	Uses	Source
1970	APPLE JOS S	Pacific Telephone
	APPLE JOS S	Pacific Telephone
1962	APPLE JOS S	Pacific Telephone

8380 MAYNARD DR

Year	Uses	Source
1970	KOSTER ROBT A	Pacific Telephone
	KOSTER ROBT A	Pacific Telephone
1962	KOSTER ROBT A	Pacific Telephone

8386 MAYNARD DR

Year	Uses	Source
1970	WEBB ERNEST	Pacific Telephone
	WEBB ERNEST	Pacific Telephone
1962	WEBB ERNEST	Pacific Telephone

MAYNARD ST

8369 MAYNARD ST

Year	Uses	Source
1962	SIRODY SOL	Pacific Telephone

PONCE

8381 PONCE

Year	Uses	Source
1975	Apkenas V P	Pacific Telephone

FINDINGS

8386 PONCE

Year	Uses	Source
1975	Ives Geo M	Pacific Telephone

8400 PONCE

Year	Uses	Source
1975	Silver Paul	Pacific Telephone
	Walcott Don	Pacific Telephone

8418 PONCE

Year	Uses	Source
1975	Belyea Keith	Pacific Telephone

8428 PONCE

Year	Uses	Source
1975	Rehm Wm E	Pacific Telephone

8438 PONCE

Year	Uses	Source
1975	Hunting John	Pacific Telephone

8446 PONCE

Year	Uses	Source
1975	Smith Chas W	Pacific Telephone

PONCE AVE

8380 PONCE AVE

Year	Uses	Source
1985	Nadybal Douglas	Pacific Bell
1980	NADYBAL DOUG	Pacific Telephone
1965	CAPLIN JACK	Pacific Telephone

8381 PONCE AVE

Year	Uses	Source
2004	GRAY Carrie	Haines Company
	GRAYJohn	Haines Company
1985	Fickett Robt V	Pacific Bell
1980	APKENAS V P	Pacific Telephone
1975	APCOMAS	Pacific Telephone
	Viviane Woodard Cosmetics Esther Apkenas distr	Pacific Telephone

FINDINGS

Year	Uses	Source
1970	APKENAS V P	Pacific Telephone
	APKENAS V P	Pacific Telephone
1965	APKENAS V	Pacific Telephone
1962	APKENAS V P	Pacific Telephone

8386 PONCE AVE

Year	Uses	Source
1995	Ives Geo M	Pacific Bell
1991	Ives Geo M	Pacific Bell
1985	Ives Geo M	Pacific Bell
1980	IVES GEO M	Pacific Telephone
1970	IVES GEO M	Pacific Telephone
	IVES GEO M	Pacific Telephone
1965	LAVES GEO	Pacific Telephone
1962	IVES GEO M	Pacific Telephone

8388 PONCE AVE

Year	Uses	Source
2004	OSCATTAGLIATnfone	Haines Company

8389 PONCE AVE

Year	Uses	Source
2004	0 KLEAJohn	Haines Company

8400 PONCE AVE

Year	Uses	Source
2004	SOBEL Karen	Haines Company
1985	Walcutt J L	Pacific Bell
	Walcott Sylvia	Pacific Bell
	Walcott Mark	Pacific Bell
1980	WALCOTT SYLVIA	Pacific Telephone
1965	HOM FREEMAN	Pacific Telephone
1962	HOM FREEMAN M	Pacific Telephone

8410 PONCE AVE

Year	Uses	Source
2004	LEPIRE Stephen	Haines Company
1970	KANNE SHERMAN L	Pacific Telephone
	KANNE SHERMAN L	Pacific Telephone
1965	K ANNE SHFRMAN	Pacific Telephone

FINDINGS

Year	Uses	Source
1962	KANNE SHERMAN L	Pacific Telephone

8418 PONCE AVE

Year	Uses	Source
2004	MILLER Ralph	Haines Company
1991	Doering Vern	Pacific Bell
1985	Doering Vern	Pacific Bell
1980	DOERING VERN	Pacific Telephone
1970	HANSEN RAY E REV	Pacific Telephone
	HANSEN RAY E REV	Pacific Telephone
1965	HANSEN R E REV	Pacific Telephone
1962	BUECHLER VICKI	Pacific Telephone
	BUECHLER JOE A	Pacific Telephone

8428 PONCE AVE

Year	Uses	Source
2004	SCHMt DTBERGER L	Haines Company
	SCHMIOTBERGER G	Haines Company
1980	REHM WM E	Pacific Telephone
1970	REHM WM E	Pacific Telephone
	REHM WM E	Pacific Telephone
1965	REHM WM	Pacific Telephone
1962	REHM WM E	Pacific Telephone

8438 PONCE AVE

Year	Uses	Source
2004	SHUNTINGJohn	Haines Company
1995	i Ointing John	Pacific Bell
	Hunting Creek Farm	Pacific Bell
1991	Hunting John	Pacific Bell
1980	HUNTING JOHN	Pacific Telephone
1970	MOORE RALPH R	Pacific Telephone
	MOORE RALPH R	Pacific Telephone
1965	MEARS FRANK	Pacific Telephone
1962	SAX ROBT L	Pacific Telephone

8446 PONCE AVE

Year	Uses	Source
2004	SMITH Chas W	Haines Company
1995	Smith Chas W	Pacific Bell

Year	Uses	Source
1991	Smith Chas W	Pacific Bell
1985	Smith G & L	Pacific Bell
	Smith Chas W	Pacific Bell
1980	SMITH CHAS W	Pacific Telephone
1970	SMITH CHAS W	Pacific Telephone
	SMITH CHAS W	Pacific Telephone
1962	MCVOY PAT	Pacific Telephone

RODAX ST

22700 RODAX ST

Year	Uses	Source
2012	LE CHER HEATING & AIR INC	Cole Information Services
2007	LE CHER HEATING & AIR INC	Cole Information Services
2004	LECHER HEATING & 81813 8 L	Haines Company
1965	HABIT HELEN	Pacific Telephone

22701 RODAX ST

Year	Uses	Source
2004	OMEZA David	Haines Company
	LAFONTAINEJeryl	Haines Company
1980	JOHNSON ALVIN E	Pacific Telephone
1975	Johnson Alvin E	Pacific Telephone
1970	JOHNSON ALVIN E	Pacific Telephone
	JOHNSON ALVIN E	Pacific Telephone
1965	JAHNSON ALVIN	Pacific Telephone
1962	JOHNSON ALVIN E	Pacific Telephone

22708 RODAX ST

Year	Uses	Source
2004	SHERST Rick	Haines Company
1991	Schwesinger Dennis W	Pacific Bell
	Schwesinger Dennjs W	Pacific Bell
	Schwesinger Dyonette	Pacific Bell
1975	Grodell Donald	Pacific Telephone
1970	BUTTERS DONALD W	Pacific Telephone
	BUTTERS DONALD W	Pacific Telephone
1965	SATTERTHWAITE GARL	Pacific Telephone

FINDINGS

22709 RODAX ST

Year	Uses	Source
2004	BARRETT Emest	Haines Company
1995	Barrett Ernest	Pacific Bell
1991	Barrett Ernest	Pacific Bell
1985	Barrett Ernest	Pacific Bell
1980	BARRETT ERNEST	Pacific Telephone
1975	Barrett Ernest	Pacific Telephone
1970	BARRETT ERNEST	Pacific Telephone
	BARRETT ERNEST	Pacific Telephone
1965	HMC NARY RO8T	Pacific Telephone
1962	MCNARY ROBT D	Pacific Telephone

22718 RODAX ST

Year	Uses	Source
2004	WEBBWm H	Haines Company
1995	Webb Wm H	Pacific Bell
1985	Webb Wm H	Pacific Bell
1975	Webb Wm H	Pacific Telephone
1970	WHITESELL RICHARD D	Pacific Telephone
	WHITESELL RICHARD D	Pacific Telephone
1965	PIISPANEN VILHO	Pacific Telephone
1962	WILFONG DONALD C	Pacific Telephone

22719 RODAX ST

Year	Uses	Source
2004	SOUSOURESJas G	Haines Company
1995	Sousoures Jas G	Pacific Bell
1985	Sousoures Jas G	Pacific Bell
1980	SOUSOURES JAS G CANOGA PARK	Pacific Telephone
1975	Sousoures Jas G	Pacific Telephone
1970	SOUSOURES JAS G	Pacific Telephone
	SOUSOURES JAS G	Pacific Telephone
1965	SOUSUURES JAS	Pacific Telephone
1962	SOUSOURES JAS G	Pacific Telephone

22726 RODAX ST

Year	Uses	Source
2004	PIISPANENVilho A	Haines Company
1995	Piispanen Vilho A	Pacific Bell

FINDINGS

Year	Uses	Source
1985	Piispanen Vilho A	Pacific Bell
1980	PIISPANEN VILHO A	Pacific Telephone
1975	Piispanen Vilho A	Pacific Telephone
1970	PIISPANEN VILHO A	Pacific Telephone
	PIISPANEN VILHO A	Pacific Telephone
1962	CONNICK ARDEN D	Pacific Telephone

22727 RODAX ST

Year	Uses	Source
2004	no info	Haines Company
1995	Vincent tarry W & Lorraine I	Pacific Bell
1991	Vincent Larry W & Lorraine M	Pacific Bell
1985	Vincent Valerie M	Pacific Bell
	Vincent Steven W	Pacific Bell
	Vincent Larry W & Lorraine M	Pacific Bell
1980	VINCENT LARRY W & LORRAINE M	Pacific Telephone
1975	Vincent L W	Pacific Telephone
1970	VINCENT LARRY W	Pacific Telephone
	VINCENT LARRY W	Pacific Telephone
1965	RANU WILLEM	Pacific Telephone
1962	BRAND WILLEM	Pacific Telephone
	BRAND GERTRUD	Pacific Telephone

22730 RODAX ST

Year	Uses	Source
2004	WINDOMJulie	Haines Company
1985	Electronics Plus Of So Calif	Pacific Bell
1980	FLANNERY RICHARD	Pacific Telephone
1975	Flannery Richard	Pacific Telephone
1970	SELLERS KEITH	Pacific Telephone
	SELLERS KEITH	Pacific Telephone
1965	SELLERS KEITH	Pacific Telephone
1962	SELLERS KEITH	Pacific Telephone

22735 RODAX ST

Year	Uses	Source
2004	PENAMario	Haines Company
1995	Kuzmin Michael	Pacific Bell
1985	Doctor Bart	Pacific Bell

FINDINGS

Year	Uses	Source
1985	Doctor Bart	Pacific Bell
	Doctor	Pacific Bell
	Docterman Ray	Pacific Bell
1980	JADAON MOSE M	Pacific Telephone
1970	JOHNSON LUTHER J	Pacific Telephone
	JOHNSON LUTHER J	Pacific Telephone
1965	NJOHNSON LUTHER	Pacific Telephone
1962	JOHNSON LUTHER J	Pacific Telephone

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
8401 Fallbrook Avenue	2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
22700 ECCLES ST	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22700 ECCLES ST	2012, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22700 RODAX ST	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22700 RODAX ST	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22701 RODAX ST	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22708 RODAX ST	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22709 RODAX ST	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
22710 ECCLES ST	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22711 ECCLES ST	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22718 RODAX ST	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22719 RODAX ST	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22721 ECCLES ST	2012, 2007, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22726 ECCLES ST	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22726 RODAX ST	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22727 RODAX ST	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22730 RODAX ST	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22731 ECCLES ST	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22734 ECCLES ST	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
22735 RODAX ST	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22741 ECCLES ST	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22742 ECCLES ST	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22750 ECCLES ST	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22751 ECCLES ST	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22758 ECCLES ST	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22761 ECCLES ST	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8350 FALLBROOK AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8350 FALLBROOK LN	2012, 2007, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8356 FALLBROOK AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8356 MAYNARD AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
8356 MAYNARD DR	2012, 2007, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8357 MAYNARD AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8357 MAYNARD AVE	2012, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8357 MAYNARD DR	2012, 2007, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8362 FALLBROOK AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8362 MAYNARD AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8362 MAYNARD AVE	2012, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8362 MAYNARD DR	2012, 2007, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8363 MAYNARD AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8368 MAYNARD AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8368 MAYNARD DR	2012, 2007, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
8369 MAYNARD AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8369 MAYNARD DR	2012, 2007, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8369 MAYNARD ST	2012, 2007, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8370 FALLBROOK AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8374 MAYNARD AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8374 MAYNARD DR	2012, 2007, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8375 MAYNARD AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8375 MAYNARD DR	2012, 2007, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8378 FALLBROOK AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8380 MAYNARD AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8380 MAYNARD DR	2012, 2007, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
8380 PONCE AVE	2012, 2007, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8381 MAYNARD AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8381 PONCE	2012, 2007, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8381 PONCE AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8384 FALLBROOK AVE	2012, 2007, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8386 MAYNARD AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8386 MAYNARD DR	2012, 2007, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8386 PONCE	2012, 2007, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8386 PONCE AVE	2012, 2007, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8388 PONCE AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8389 PONCE AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
8394 FALLBROOK AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8400 PONCE	2012, 2007, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8400 PONCE AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8407 FALLBROOK AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8407 FALLBROOK AVE	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8410 PONCE AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8411 FALLBROOK AVE	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8412 FALLBROOK AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8413 FALLBROOK AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8413 FALLBROOK AVE	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8415 FALLBROOK AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
8418 PONCE	2012, 2007, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8418 PONCE AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8420 FALLBROOK AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8428 PONCE	2012, 2007, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8428 PONCE AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8430 FALLBROOK AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8433 FALLBROOK	2012, 2007, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8433 FALLBROOK AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8433 FALLBROOK AVE	2012, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8433 FALLBROOK LN	2012, 2007, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8438 FALLBROOK AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
8438 PONCE	2012, 2007, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8438 PONCE AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8446 PONCE	2012, 2007, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8446 PONCE AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8448 FALLBROOK AVE	2012, 2007, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8501 FALLBROOK AVE	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8511 FALLBROOK AVE	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8521 FALLBROOK AVE	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
8531 FALLBROOK AVE	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

APPENDIX D

REFERENCE DOCUMENTATION / LABORATORY RESULTS (if applicable)

California Regional Water Quality Control Board

Los Angeles Region

Linda S. Adams
Cal/EPA Secretary

320 W. 4th Street, Suite 200, Los Angeles, California 90013
Phone (213) 576-6600 FAX (213) 576-6640 - Internet Address: http://www.waterboards.ca.gov/losangeles

Arnold Schwarzenegger
Governor

October 30, 2009

Mr. Daniel S. Samorano
Raytheon Company
1151 East Hermans Road
TU, Bldg 826
Tucson, AZ 85706

NO FURTHER ACTION FOR RADIOACTIVITY ANALYSES IN GROUNDWATER PURSUANT TO CALIFORNIA WATER CODE SECTION 13267 ORDER – RAYTHEON COMPANY (FORMER HUGHES MISSILE SYSTEMS COMPANY), 8433 FALLBROOK AVENUE, CANOGA PARK, CALIFORNIA 91304
(SCP NO. 0693, SITE ID NO. 2043T00)

Dear Mr. Samorano:

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) is the State regulatory agency responsible for protecting water quality in Los Angeles and Ventura Counties. To accomplish this, the Regional Board issues investigative orders authorized by the Porter-Cologne Water Quality Control Act (California Water Code [CWC], Division 7).

At the request of the Regional Board, Raytheon's predecessor, Hughes Missile Systems, Inc., conducted eight groundwater sampling events between March 1990 and December 1991 to determine radioactivity levels in groundwater at the site. The results were submitted to the Regional Board in 1992 and indicated that a subset of the well samples had radiological parameters exceeding California Maximum Contaminant Levels (MCLs), but that the concentrations were naturally occurring based on the relative abundances of the individual uranium isotopes.

In response to public concerns regarding radioactivity sampling results from the on-site groundwater monitoring wells, the Regional Board issued a CWC section 13267 Order on March 5, 2008, requiring submittal of a work plan for a site-wide groundwater investigation to verify current radioactivity conditions. The revised work plan was reviewed and conditionally approved by the Regional Board on January 29, 2009. Subsequently, Regional Board staff have received and reviewed the *Groundwater Investigation Report to Verify Current Radioactivity Conditions* (Report), dated August 2009, prepared by Oneida Total Integrated Enterprises (OTIE) on behalf of Raytheon Company for the referenced site.

The Report presents the results of the groundwater sampling from 11 site wells for radioactivity analyses in May 2009. Gross alpha particle activity, uranium, combined radium - 226+228, and gross beta particle activity were detected up to 61.12 pCi/L, 126.5 pCi/L, 18.62 pCi/L, and 54.77 pCi/L, respectively, which exceeded their California MCLs of 15 pCi/L, 20 pCi/L, 5 pCi/L, and 50pCi/L, respectively.

The data produced during 2009 groundwater investigation are consistent with previous results collected in 1990 and 1991. This current investigation and the 1990/1991 investigation work have demonstrated that the levels of radiological isotopes detected in groundwater at the former Raytheon facility are attributable to naturally occurring sources in the underlying aquifer matrix and geochemical system. OTIE recommends no further action for radioactivity analyses in groundwater at the site.

Based on review of the submitted information and radionuclides related documentation, Regional Board staff have the following findings:

1. **No Suspected Releases of Radioisotopes from Historical Operations at the Site**

   The Regional Board has jurisdiction for the investigation and remediation of groundwater contamination at the former Raytheon site, while the Department of Toxic Substances Control (DTSC) has jurisdiction to address environmental contamination in soil as a result of historic operations. On March 4, 2009, DTSC issued the following responses to public comments:

   > "DTSC has obtained records submitted by Raytheon which includes information on the types radioisotopes used at the site, and the buildings in which the radioisotopes were used. The records indicate that only small amounts of radioactive materials were present, primarily in measurement devices, and that licenses were properly terminated and materials were properly disposed of more than twenty (20) years ago."

   Regional Board staff has also reviewed the *Supporting Documentation for the Radioactive Materials Investigation at Hughes Aircraft Company-MSG-CP*, dated May 1992, documenting the information on radioactive materials being used at the site approximately from 1964 to 1992. Based on review of the information provided, Regional Board staff concurs with DTSC's statement. Following further consultation with DTSC, Regional Board staff concludes that there is no evidence suggesting that releases of radionuclides resulted from the historical operations at the former Raytheon facility.

2. **Naturally Occurring Uranium and Radium**

   During the 2009 groundwater investigation, isotopic uranium analyses were conducted to calculate the relative mass ratios in order to determine if the origin of the uranium was man-made (enriched or depleted) or was consistent with naturally occurring sources. The results of the 2009 groundwater investigation were compared to the published values of typical isotopic abundances. These values were obtained from both the United States Department of Energy's *Guide of Good Practices for Occupational Radiological Protection in Uranium Facilities* (USDOE, 2004) and the United States Environmental Protection Agency's *Depleted Uranium Technical Brief* (USEPA, 2006).

The isotopic analysis of uranium demonstrates that the isotopic mass percentages for the 2009 groundwater samples with elevated uranium levels fall within the range expected for naturally occurring uranium as shown in the table below. The same calculations were previously performed for the October 1991 and December 1991 analytical results and yielded similar ratios. The 2009 groundwater data strongly support the statement that naturally occurring uranium is encountered in groundwater at the site.

Relative Abundance of Uranium Isotopes

Isotope	**U-238**	**U-235**	**U-234**
Natural Abundance (%)	99.27	0.72	0.0055
October 1991 Sampling Results	99.10 to 99.42	0.57 to 0.88	0.0053 to 0.0067
December 1991 Sampling Results	99.14 to 99.55	0.44 to 0.84	0.0051 to 0.0064
May 2009 Sampling Results	99.13 to 99.50	0.48 to 0.85	0.0050 to 0.0062

Based on the information obtained from the USEPA website at: http://www.epa.gov/radiation/radionuclides/index.html, uranium and radium occur naturally in the environment. They are present in virtually all rock, soil, and water. Uranium, radium and their compounds are soluble in water. As a result, groundwater in areas where concentrations of uranium and radium are high in aquifer materials and in surrounding bedrock typically has relatively high uranium and radium content.

Based upon the information provided to the Regional Board, and with the provision that the information was accurate and representative of site conditions, the Regional Board finds that the May 2009 groundwater investigation for radioactivity analyses carried out at the site is in compliance with the requirements of the CWC section 13267 Order issued to Raytheon Company on March 5, 2008 and that no further action for radioactivity analyses in groundwater is required at the site at this time. However, if new information indicates potential releases of radionuclides from the former Raytheon facility, the Regional Board may require groundwater monitoring for radioactivity analyses at the site.

If you have any questions, please contact Dr. Ann Chang at (213) 620-6070 or nchang@waterboards.ca.gov.

Sincerely,

Samuel Unger AEO for

Tracy J. Egoscue
Executive Officer

cc: Mr. Stefan Cajina, California Department of Public Health
Mr. Chris Nagler, Watermaster, California Department of Water Resources
Mr. Bernard Franklin, Los Angeles County, Department of Public Health
Mr. Hoover Ng, Water Replenishment District- Southern California
Mr. Rod Collins, Department of Toxic Substances Control
Mr. Jacques Marcillac, Oneida Total Integrated Enterprises
Mr. Kenneth Katich, Trammell Crow Company
Mr. William Preston Bowling, Aerospace Cancer Museum and Education
Ms. Christina Walsh, Cleanuprocketdyne.org
Ms. Bonnie Klea
Ms. Chris Rowe
Mr. Daniel Wiseman

HILLMANN
CONSULTING

December 3, 2012

State of California
Regional Water Quality Control Board- Los Angeles Region (4)
Underground Storage Tank (UST) File Review Division
320 West 4th Street, Suite #200
Los Angeles, CA 90013
Phone (213) 576-6600
Fax (213) 576-6707

RE: Environmental Files

8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue
Los Angeles, CA 91304

Dear Sir/Madam:

I would like to know if you have any environmental records for the above referenced property. Please call/fax me and let me know whether or not you locate any records. If you locate any records for the properties, I would like to either obtain copies or schedule a file review. My office number is 714-634-9500.

Sincerely,

Kristi Hill
Administrative Assistant
Hillmann Consulting, LLC

HILLMANN
CONSULTING

December 3, 2012

County of Los Angeles Fire Department
East Region Industry
15660 Stafford Street
Industry, CA 91361
Phone (626) 336-6950
Fax (626) 961-2305

RE: Underground Storage Tank Files:

8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue
Los Angeles, CA 91304

Dear Sir/Madam:

I am currently conducting a Phase I Environmental Site Assessment (ESA) at the above referenced property and would like to know if you have any fire prevention records on file for the above referenced property. If you locate any records for the property, I would like to either obtain copies or schedule a file review. My office number is (714) 634-9500.

Sincerely,

Kristi Hill
Administrative Assistant
Hillmann Consulting, LLC

HILLMANN
CONSULTING

December 3, 2012

City of Los Angeles Fire Department
Underground Storage Tank File Review Division
221 North Figueroa Street, 15th Floor, Suite #1500
Los Angeles, CA 90012
Phone (213) 482-7115
Fax (213) 482-6511

RE: Underground Storage Tank Files:

8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue
Los Angeles, CA 91304

Dear Sir/Madam:

I am currently conducting a Phase I Environmental Site Assessment (ESA) at the above referenced property and would like to know if you have any records of underground storage tanks (USTs) on file for the above referenced property. If you locate any records for the property, I would like to either obtain copies or schedule a file review. My office number is (714) 634-9500.

Sincerely,

Kristi Hill
Administrative Assistant
Hillmann Consulting, LLC

HILLMANN
CONSULTING

December 3, 2012

County of Los Angeles Department of Public Works
Environmental Programs Division
900 South Fremont Avenue
Alhambra, CA 91803
Phone (626) 458-5100
Fax (626) 458-3569

RE: Underground Storage Tank Files:

8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue
Los Angeles, CA 91304

Dear Sir/Madam:

I am currently conducting a Phase I Environmental Site Assessment (ESA) at the above referenced property and would like to know if you have any records of underground storage tanks (USTs) or industrial waste discharges on file for the above referenced property. If you locate any records for the property, I would like to either obtain copies or schedule a file review. My office number is 714-634-9500.

Sincerely,

Kristi Hill

Kristi Hill
Administrative Assistant
Hillmann Consulting, LLC

HILLMANN
CONSULTING

December 3, 2012

Los Angeles Fire Department
East Region Cerritos
19030 Pioneer Blvd.
Cerritos, CA 90701
Phone (562) 860-8014
Fax (562) 403-1452

RE: Fire Prevention Files:

8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue
Los Angeles, CA 91304

Dear Sir/Madam:

I am currently conducting a Phase I Environmental Site Assessment (ESA) at the above referenced properties and would like to know if you have any fire prevention records on file for the above referenced properties. If you locate any records for the properties, I would like to either obtain copies or schedule a file review. My office number is (562) 986-5000.

Sincerely,

Kristi Hill
Administrative Assistant
Hillmann Environmental Group, LLC

HILLMANN
CONSULTING

December 3, 2012

State of California
Department of Toxic Substances Control
Region 4 – Cypress Regional Office
5796 Corporate Avenue
Cypress, CA 90630-4732
Phone (714) 484-5337
Fax (714) 484-5318

RE: DTSC Files:

8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue
Los Angeles, CA 91304

Dear Sir/Madam:

I would like to know if you have any records of violations or environmental concerns on file for the above referenced properties. Please call me and let me know whether or not you locate any records. If you locate any records for the properties, I would like to either obtain copies or schedule a file review. My office number is 714-634-9500.

Sincerely,

Kristi Hill
Administrative Assistant
Hillmann Consulting, LLC

California Regional Water Quality Control Board
Los Angeles Region

320 W. 4th Street, Suite 200, Los Angeles, California 90013
Phone (213) 576-6600 FAX (213) 576-6640 - Internet Address: http://www.waterboards.ca.gov/losangeles

Linda S. Adams
Agency Secretary

Arnold Schwarzenegger
Governor

September 16, 2010

Mr. Daniel S. Samorano
Raytheon Company
1151 East Hermans Road
TU, Bldg 826
Tucson, AZ85706

Dear Mr. Samorano:

FINAL ORDER - TERMINATION OF WASTE DISCHARGE REQUIREMENTS FOR FORMER HUGHES MISSILE SYSTEMS COMPANY, 8433 FALLBROOK AVENUE, CANOGA PARK, CALIFORNIA (ORDER NO. R4-2010-0162, CI-7483)

Our letter of July 14, 2010, transmitted a revised tentative order to terminate Waste Discharge Requirements (WDR), Order No. 95-012 for discharge of treated groundwater at former Hughes Missile Systems Company located at 8433 Fallbrook Avenue, Canoga Park.

Pursuant to Division 7 of the California Water Code, this Regional Board at a public meeting held on September 2, 2010 reviewed the tentative order, considered all factors in the case, and adopted Order No. R4-2010-0162 (a copy is enclosed) relative to the termination of the WDR. No written comments were received related to the termination of the WDR.

If you have any questions or need additional information, please call Project Manager, Ms. Dionisia Rodriguez at (213) 620-6122 or me at (213) 576-6618.

Sincerely,

Rebecca Chou, Ph.D., P.E.
Chief of Groundwater Permitting and Land Disposal Section

Enclosure: See List of Enclosure

Cc: See Mailing List

List of Enclosures:

Order No. R4-2010-0162

Mailing List

Ms. Sutida Bergquist, California Department of Public Health
Mr. Chris Nagler, Watermaster, California Department of Water Resources
Mr. Bernard Franklin, Los Angeles County, Department of Public Health
Mr. Hoover Ng, Water Replenishment District-Southern California
Mr. Rod Collins, Department of Toxic Substances Control
Mr. Jacques Marcillac, Oneida Total Integrated Enterprises
Mr. Kenneth Katich, Trammell Crow Company
Mr. William Preston Bowling, Aerospace Cancer Museum and Education
Ms. Christina Walsh, Cleanuprocketdyne.org
Ms. Bonnie Klea
Ms. Chris Rowe
Mr. Daniel Wiseman

State of California
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, LOS ANGELES REGION

ORDER NO. R4-2010-0162

TERMINATION OF WASTE DISCHARGE REQUIREMENTS
FOR DISCHARGES TO LAND/GROUNDWATER

The California Regional Water Quality Control Board, Los Angeles Region,(Regional Board) finds:

1. This Regional Board adopted Waste Discharge Requirements (WDR) Order No. 95-012 for Raytheon Company (Discharger) on January 23, 1995 for discharge of treated groundwater to groundwater basins in the Los Angeles Region at former Hughes Missile Systems Company located at 8433 Fallbrook Avenue, Canoga Park.,

2. On June 30, 2010, Discharger notified this Regional Board that the Discharger has ceased its discharge to groundwater basins.

3. The Board finds that the WDR Order No. 95-012 is no longer applicable and shall be terminated.

4. The Regional Board has notified the Discharger and interested agencies and persons of its intent to consider termination of Order No. 95-012 and has provided them with an opportunity to submit their written views and recommendations. The Regional Board, in a public hearing, heard and considered all comments and testimony pertinent to this matter.

IT IS HEREBY ORDERED that Waste Discharge Requirements Order No. 95-012 be terminated, except for enforcement purposes.

The Executive Officer of this Regional Board is authorized, and he is hereby directed, to certify and submit copies of this Order to the Discharger, and to such individuals and governmental agencies that request it.

I, Samuel Unger, Executive Officer, do certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Los Angeles Region on September 2, 2010.

Samuel Unger

Samuel Unger, P.E.
Executive Officer

September 2, 2010

California Regional Water Quality Control Board

Los Angeles Region

Linda S. Adams.
Cal/EPA Secretary

320 W. 4th Street, Suite 200, Los Angeles, California 90013
Phone (213) 576-6600 FAX (213) 576-6640 - Internet Address: http://www.waterboards.ca.gov/losangeles

Arnold Schwarzenegger
Governor

December 5, 2008

Kenneth A. Ehrlich, Esq.
Jeffer, Mangels, Butler & Marmaro LLP
1900 Avenue of the Stars, 7th Floor
Los Angeles, California 90067-4308

RESPONSE TO REQUEST FOR CONFIRMATION ON GROUNDWATER CLEANUP POLICY AT CORPORATE POINTE AT WEST HILLS – 8433 FALLBROOK AVENUE, CANOGA PARK, CALIFORNIA (SCP NO. 0693, SITE ID NO. 2043T00)

Dear Mr. Ehrlich:

Los Angeles Regional Water Quality Control Board (Regional Board) staff have received and reviewed your November 26, 2008 letter (attached) for the referenced site. Based on our review of the information included in your letter, we confirm that the Regional Board will apply site-specific methodologies for the protection of groundwater resources for remediation at the site.

Should you have any questions, please contact Dr. Ann Chang at (213) 620-6070, or Ms. Su Han at (213) 576-6735.

Sincerely,

Tracy J. Egoscue
Executive Officer

Attachment: JMBM letter dated November 26, 2008

cc: Mr. Stefan Cajina – California Department of Public Health
Mr. Chris Nagler, Watermaster, California Department of Water Resources
Mr. Bernard Franklin, Los Angeles County, Department of Public Health
Mr. Hoover Ng, Water Replenishment District- Southern California
Mr. James Pappas, Department of Toxic Substances Control
Mr. Rod Collins, Department of Toxic Substances Control
Mr. Jacques Marcillac, TN & Associates, Inc.
Mr. Daniel S. Samorano, Raytheon Company
Mr. William Preston Bowling, Aerospace Cancer Museum and Education
Ms. Christina Walsh, Cleanuprocketdyne.org
Ms. Bonnie Klea
Ms. Chris Rowe

JMBM | Jeffer Mangels Butler & Marmaro LLP

Kenneth A. Ehrlich
Direct: (310) 785-5395
Fax: (310) 712-3395
KEhrlich@jmbm.com

1900 Avenue of the Stars, 7th Floor
Los Angeles, California 90067-4308
(310) 203-8080 (310) 203-0567 Fax
www.jmbm.com

Ref: 61612-0317

November 26, 2008

Mr. Rodney Collins
Chatsworth Field Office
Department of Toxic Substances Control
9211 Oakdale Avenue
Chatsworth, CA 91311-6505

Ann Chang, Ph.D.
Water Resource Control Engineer
Site Cleanup I Unit
Los Angeles Regional Water Quality Control Board
320 W. 4th Street, Suite 200
Los Angeles, CA 90013

RECEIVED
2008 DEC 1 PM 1 42
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

Re: Corporate Pointe at West Hills; West Hills, CA (the "Property")

Dear Ms. Chang and Mr. Collins:

This letter follows our November 5, 2008 meeting at which we discussed issues relating to MEPT West Hills, LLC's entitlement and permitting for the redevelopment of the southern portion of the Property. This letter confirms our understanding of the DTSC and RWQCB's policies in connection with establishing remediation and/or water quality standards for the Property, and requests written confirmation of same from the agencies.

During the meeting, MEPT described certain neighbors' inaccurate claims that the proposed rezoning (from agricultural to commercial/industrial) would allow greater amounts of alleged contaminants to remain in place. As confirmed at the meeting by Department of Toxic Substance Control ("DTSC") and Los Angeles Regional Water Quality Control Board ("RWQCB") representatives, neither agency considers zoning when formulating and applying remediation or water quality standards. The neighbors' concerns in this regard have no merit whatsoever.

The DTSC considers the current and future use of a property when establishing site specific remediation levels and does not rely on zoning when determining remediation standards. The RWQCB utilizes published maximum contaminant levels (MCLs), based on the agency's Basin Plan, to measure remediation levels-- which are also independent of zoning.

Although the southern portion of the campus is zoned for agricultural uses, it has been used for commercial industrial purposes for more than 50 years. The current and future use of the site will remain commercial industrial. Remediation levels will be established by DTSC based

upon health risk analysis that reflects commercial industrial uses, while RWQCB utilizes published MCLs. This process is standard practice throughout California. Thus, any zone change for the Property will have no effect on the remediation standards that are utilized by the DTSC and RWQCB for the Corporate Pointe at West Hills campus.

At your earliest convenience, please confirm that your agency will apply the site-specific methodology specified above in connection with the Property.

Please contact us with any questions or comments.

Very truly yours,

KENNETH A. EHRLICH,
a Professional Corporation of
Jeffer, Mangels, Butler & Marmaro LLP

KAE:pjo
cc: Kevin McDonnell, Esq.

Suite Id	Tenant Name	Term	--- Rent Dates --- Start	Expire	NRA Square Footage	Monthly Base Rent	Annual Rate PSF	Monthly Cost Recovery	Expense Stop	Monthly Other Income	Cat	--- Future Rent Increases --- Date	Monthly Amount	PSF
Occupied Suites														
16601 -001	MEPT Subsidiary REIT TRS LLC	36	5/1/2010	4/30/2013	0	9,600.00		0.00						
16601 -100	High Rise Goodies Restaurant Group	25	2/1/2011	2/28/2013	8,580			0.00						
	Additional Space 16601 -101		2/1/2011	2/28/2013	268									
				Total	8,848	0.00		0.00		0.00				
16601 -150	Conference/Dining Rooms	60	6/1/2011	5/31/2016	2,173			0.00						
Total for:						9,600.00		0.00		0.00				
Corp Pointe at West Hills-8411														
			Total SF:		11,021		(4 Suites)							
			Leased SF:		11,021	100.00%	(4 Suites)							
			Vacant SF:		0	0.00%	(0 Suites)							
			Occupied SF:		11,021	100.00%	(4 Suites)							
Total Corp Pointe at West Hills-8411:						9,600.00		0.00		0.00				
			Total SF:		11,021		(4 Suites)							
			Leased SF:		11,021	100.00%	(4 Suites)							
			Vacant SF:		0	0.00%	(0 Suites)							
			Occupied SF:		11,021	100.00%	(4 Suites)							
16601														

Suite Id	Tenant Name	Term	— Rent Dates — Start	Expire	NRA Square Footage	Monthly Base Rent	Annual Rate PSF	Monthly Cost Recovery	Expense Stop	Monthly Other Income	Cat	— Future Rent Increases — Date	Monthly Amount	PSF
Occupied Suites														
16602	-100 Unilab Corporation	181	7/25/2003	7/31/2018	20,095	368,648.89	27.52	24,673.82			BRT	8/1/2013	385,405.41	28.77
											BRT	2/1/2016	410,540.54	30.65
							Effective: 1/1/2012 Estimated CAM	*14,677.07*	5.62					
							Effective: 1/1/2012 Estimated RE Tax	*9,996.75*	1.75					
	Additional Space 16602 -200		7/25/2003	7/31/2018	70,340									
	Additional Space 16602 -300		7/25/2003	7/31/2018	70,305									
				Total	160,740	368,648.89		24,673.82		0.00				
16602	-111 Unilab Service Yard	172	4/24/2004	7/31/2018	0			0.00						
16602	-Roof T-Mobile West Corporation	60	7/12/2012	7/11/2017	0			0.00		3,256.55				
Total for:						368,648.89		24,673.82		3,256.55				
Corp Pointe at West Hills-8401														
			Total SF:	160,740		(5 Suites)								
			Leased SF:	160,740	100.00%	(5 Suites)								
			Vacant SF:	0	0.00%	(0 Suites)								
			Occupied SF:	160,740	100.00%	(5 Suites)								
Total Corp Pointe at West Hills-8401:						368,648.89		24,673.82		3,256.55				
			Total SF:	160,740		(5 Suites)								
			Leased SF:	160,740	100.00%	(5 Suites)								
			Vacant SF:	0	0.00%	(0 Suites)								
			Occupied SF:	160,740	100.00%	(5 Suites)								

Suite Id	Tenant Name	Term	Rent Dates Start	Rent Dates Expire	NRA Square Footage	Monthly Base Rent	Annual Rate PSF	Monthly Cost Recovery	Expense Stop	Monthly Other Income	Cat	Future Rent Increases Date	Future Rent Increases Monthly Amount	Future Rent Increases PSF
Occupied Suites														
16603 -100	Unilab Corporation	169	7/1/2004	7/31/2018	38,795	62,072.00	19.20	22,891.18			BRT	2/1/2014	67,891.25	21.00
											BRT	8/1/2016	73,710.50	22.80
							Effective: 2/1/2012 Estimated CAM	*14,847.10*	0.00					
							Effective: 1/1/2012 Estimated RE Tax	*8,044.08*	0.00					
Total for:						62,072.00		22,891.18		0.00				
Corp Pointe at West Hills-8403														
			Total SF:	38,795		(1 Suites)								
			Leased SF:	38,795	100.00%	(1 Suites)								
			Vacant SF:	0	0.00%	(0 Suites)								
			Occupied SF:	38,795	100.00%	(1 Suites)								
Total Corp Pointe at West Hills-8403:						62,072.00		22,891.18		0.00				
			Total SF:	38,795		(1 Suites)								
			Leased SF:	38,795	100.00%	(1 Suites)								
			Vacant SF:	0	0.00%	(0 Suites)								
			Occupied SF:	38,795	100.00%	(1 Suites)								
16603														

Suite Id	Tenant Name	Term	Rent Dates Start	Rent Dates Expire	NRA Square Footage	Monthly Base Rent	Annual Rate PSF	Monthly Cost Recovery	Expense Stop	Monthly Other Income	Cat	Future Rent Increases Date	Future Rent Increases Monthly Amount	Future Rent Increases PSF
New Leases / Renewals														
16604 -150	QBE Financial Institution Risk Ser		1/1/2013	12/31/2017	8,320									
16604 -200	QBE Financial Institution Risk Ser		1/1/2013	12/31/2017	17,765									
16604 -250	QBE Financial Institution Risk Ser		1/1/2013	12/31/2017	18,351									
Vacant Suites														
16604 -100	Vacant				39,943	77,888.85	23.40							
16604 -150	Vacant				8,320	16,224.00	23.40							
16604 -250	Vacant				18,351	35,784.45	23.40							
Total Vacant Sq Ft:					66,614	129,897.30								
Occupied Suites														
16604 -200	QBE Financial Institution Risk Servic	62	11/1/2007	12/31/2012	17,765	34,641.75	23.40	2,125.55						
						Effective: 1/1/2012 Estimated CAM		*1,597.58*	8.42					
						Effective: 1/1/2012 Estimated RE Tax		*527.97*	2.11					
Total for:						34,641.75		2,125.55		0.00				
Corp Pointe at West Hills-8407														
			Total SF:	84,379		(4 Suites)								
			Leased SF:	44,436	52.66%	(3 Suites)								
			Vacant SF:	39,943	47.34%	(1 Suites)								
			Occupied SF:	17,765	21.05%	(3 Suites)								
			New Leases SF	*26,671*		*(2 Suite/s)*								
			Renewals SF:	*17,765*		*(1 Suite/s)*								
Total Corp Pointe at West Hills-8407:						34,641.75		2,125.55		0.00				
			Total SF:	84,379		(4 Suites)								
			Leased SF:	44,436	52.66%	(3 Suites)								
			Vacant SF:	39,943	47.34%	(1 Suites)								
			Occupied SF:	17,765	21.05%	(3 Suites)								
16604														
			New Leases SF	*26,671*		*(2 Suite/s)*								

Suite Id	Tenant Name	Term	— Rent Dates — Start	Expire	NRA Square Footage	Monthly Base Rent	Annual Rate PSF	Monthly Cost Recovery	Expense Stop	Monthly Other Income	Cat	— Future Rent Increases — Date	Monthly Amount	PSF
			Renewals SF:	*17,765*	*(1 Suites/s)*									

Suite Id	Tenant Name	Term	— Rent Dates — Start	Expire	NRA Square Footage	Monthly Base Rent	Annual Rate PSF	Monthly Cost Recovery	Expense Stop	Monthly Other Income	Cat	— Future Rent Increases — Date	Monthly Amount	PSF
Vacant Suites														
16605 -100	Vacant				5,149	10,040.55	23.40							
Total Vacant Sq Ft:					5,149	10,040.55								
Occupied Suites														
16605 -101	Auditorium	60	6/1/2011	5/31/2016	4,219			0.00						
16605 -200	Fiserv Solutions, Inc.	64	7/1/2012	10/31/2017	9,493			0.00			BRT	5/1/2013	15,938.91	20.15
											BRT	7/1/2013	16,429.34	20.77
											BRT	7/1/2014	16,919.77	21.39
											BRT	7/1/2015	17,410.19	22.01
											BRT	7/1/2016	17,900.62	22.63
											BRT	7/1/2017	18,472.79	23.35
	Additional Space 16605 -300		7/1/2012	10/31/2017	11,410						BRT	5/1/2013	19,161.09	20.15
											BRT	7/1/2013	19,750.66	20.77
											BRT	8/1/2013	19,161.09	20.15
											BRT	7/1/2014	20,340.23	21.39
											BRT	7/1/2015	20,929.81	22.01
											BRT	7/1/2016	21,519.38	22.63
											BRT	7/1/2017	22,207.21	23.36
				Total	20,903	0.00		0.00		0.00				
Total for:						0.00		0.00		0.00				
Corp Pointe at West Hills-8413														
			Total SF:	30,271		(4 Suites)								
			Leased SF:	25,122	82.99%	(3 Suites)								
			Vacant SF:	5,149	17.01%	(1 Suites)								
			Occupied SF:	25,122	82.99%	(3 Suites)								
Total Corp Pointe at West Hills-8413:						0.00		0.00		0.00				
			Total SF:	30,271		(4 Suites)								
			Leased SF:	25,122	82.99%	(3 Suites)								
			Vacant SF:	5,149	17.01%	(1 Suites)								
			Occupied SF:	25,122	82.99%	(3 Suites)								

Suite Id	Tenant Name	Term	— Rent Dates — Start	Expire	NRA Square Footage	Monthly Base Rent	Annual Rate PSF	Monthly Cost Recovery	Expense Stop	Monthly Other Income	Cat	— Future Rent Increases — Date	Monthly Amount	PSF

Suite Id	Tenant Name	Term	— Rent Dates — Start	Expire	NRA Square Footage	Monthly Base Rent	Annual Rate PSF	Monthly Cost Recovery	Expense Stop	Monthly Other Income	Cat	--- Future Rent Increases --- Date	Monthly Amount	PSF
Total for:						0.00		0.00		0.00				
West Hills Central Plant Association														
	Total SF:				0	(0 Suites)								
	Leased SF:				0	0.00%	(0 Suites)							
	Vacant SF:				0	0.00%	(0 Suites)							
	Occupied SF:				0	0.00%	(0 Suites)							
Total West Hills Central Plant Association						0.00		0.00		0.00				
	Total SF:				0	(0 Suites)								
	Leased SF:				0	0.00%	(0 Suites)							
	Vacant SF:				0	0.00%	(0 Suites)							
	Occupied SF:				0	0.00%	(0 Suites)							

16606

Suite Id	Tenant Name	Term	— Rent Dates — Start	Expire	NRA Square Footage	Monthly Base Rent	Annual Rate PSF	Monthly Cost Recovery	Expense Stop	Monthly Other Income	Cat	— Future Rent Increases — Date	Monthly Amount	PSF
Total for:						0.00		0.00		0.00				
Corp Pointe at West Hills-Land														
	Total SF:		0		(0 Suites)									
	Leased SF:		0	0.00%	(0 Suites)									
	Vacant SF:		0	0.00%	(0 Suites)									
	Occupied SF:		0	0.00%	(0 Suites)									
Total Corp Pointe at West Hills-Land:						0.00		0.00		0.00				
	Total SF:		0		(0 Suites)									
	Leased SF:		0	0.00%	(0 Suites)									
	Vacant SF:		0	0.00%	(0 Suites)									
	Occupied SF:		0	0.00%	(0 Suites)									

16607

Suite Id	Tenant Name	Term	Rent Dates Start	Rent Dates Expire	NRA Square Footage	Monthly Base Rent	Annual Rate PSF	Monthly Cost Recovery	Expense Stop	Monthly Other Income	Cat	Future Rent Increases Date	Future Rent Increases Monthly Amount	Future Rent Increases PSF
Vacant Suites														
16608 -225	Vacant				10,225	17,893.75	21.00							
Total Vacant Sq Ft:					10,225	17,893.75								
Occupied Suites														
16608 -200	ACI Worldwide, Inc.	120	11/1/2008	10/31/2018	24,902	64,496.18	31.08	381.70			BRT	11/1/2013	66,488.34	32.04
											BRT	11/1/2014	68,480.50	33.00
					Effective: 1/1/2012 Estimated CAM			*38.28*	9.18		BRT	11/1/2015	70,472.66	33.96
					Effective: 1/1/2012 Estimated RE Tax			*343.42*	2.31		BRT	11/1/2016	72,464.82	34.92
											BRT	11/1/2017	74,706.00	36.00
16608 -300	Bank of America, N.A.	84	6/1/2010	5/31/2017	72,544	142,379.56	23.55	2,306.54		1,925.00	BRT	6/1/2013	146,650.96	24.26
											BRT	6/1/2014	151,050.48	24.99
					Effective: 1/1/2012 Estimated CAM			*1,714.86*	8.67		BRT	6/1/2015	155,581.99	25.74
					Effective: 1/1/2012 Estimated RE Tax			*591.68*	2.38		BRT	6/1/2016	160,249.46	26.51
	Additional Space 16608 -250		6/1/2010	5/31/2017	35,833	70,328.18	23.55	1,139.21		1,925.00	BRT	6/1/2013	72,438.02	24.26
					Effective: 1/1/2012 Estimated CAM			*846.98*	*0.00*		BRT	6/1/2014	74,611.16	24.99
					Effective: 1/1/2012 Estimated RE Tax			*292.23*	*0.00*		BRT	6/1/2015	76,849.50	25.74
											BRT	6/1/2016	79,154.98	26.51
				Total	108,377	212,707.74		3,445.75		3,850.00				
16608 -G100	One Call Medical, Inc.	120	8/1/2009	7/31/2019	17,177	38,648.25	27.00	236.88			BRT	8/1/2013	39,507.10	27.60
											BRT	8/1/2014	40,365.95	28.20
					Effective: 1/1/2012 Estimated CAM			*0.00*	9.44		BRT	8/1/2015	41,224.80	28.80
					Effective: 1/1/2012 Estimated RE Tax			*236.88*	2.31		BRT	8/1/2016	42,083.65	29.40
											BRT	8/1/2017	42,942.50	30.00
											BRT	8/1/2018	43,801.35	30.60
16608 -Roof	New Cingular Wireless PCS, LLC	94	10/18/2008	7/30/2016	0			0.00		2,985.08				
Total for:						315,852.17		4,064.33		6,835.08				

Corp Pointe at West Hills-8501

Total SF:	160,681		(6 Suites)
Leased SF:	150,456	93.64%	(5 Suites)
Vacant SF:	10,225	6.36%	(1 Suites)
Occupied SF:	150,456	93.64%	(5 Suites)

Suite Id	Tenant Name	Term	— Rent Dates — Start	Expire	NRA Square Footage	Monthly Base Rent	Annual Rate PSF	Monthly Cost Recovery	Expense Stop	Monthly Other Income	Cat	--- Future Rent Increases — Date	Monthly Amount	PSF
Total Corp Pointe at West Hills-8501:						315,852.17		4,064.33		6,835.08				

Total SF:	160,681		(6 Suites)
Leased SF:	150,456	93.64%	(5 Suites)
Vacant SF:	10,225	6.36%	(1 Suites)
Occupied SF:	150,456	93.64%	(5 Suites)

16608

Suite Id	Tenant Name	Term	— Rent Dates — Start	Expire	NRA Square Footage	Monthly Base Rent	Annual Rate PSF	Monthly Cost Recovery	Expense Stop	Monthly Other Income	Cat	— Future Rent Increases — Date	Monthly Amount	PSF
Vacant Suites														
16609 -100	Vacant				30,522	59,517.90	23.40							
16609 -200	Vacant				35,614	69,447.30	23.40							
16609 -300	Vacant				35,614	69,447.30	23.40							
16609 -400	Vacant				34,706	67,676.70	23.40							
Total Vacant Sq Ft:					136,456	266,089.20								
Occupied Suites														
16609 -ROOF	Clear Wireless LLC	60	10/25/2010	10/24/2015	0			0.00		2,864.43				
Total for:						0.00		0.00		2,864.43				
Corp Pointe at West Hills-8511														
	Total SF:	136,456		(5 Suites)										
	Leased SF:	0	0.00%	(1 Suites)										
	Vacant SF:	136,456	100.00%	(4 Suites)										
	Occupied SF:	0	0.00%	(1 Suites)										
Total Corp Pointe at West Hills-8511:						0.00		0.00		2,864.43				
	Total SF:	136,456		(5 Suites)										
	Leased SF:	0	0.00%	(1 Suites)										
	Vacant SF:	136,456	100.00%	(4 Suites)										
	Occupied SF:	0	0.00%	(1 Suites)										

16609

Suite Id	Tenant Name	Term	— Rent Dates — Start	Expire	NRA Square Footage	Monthly Base Rent	Annual Rate PSF	Monthly Cost Recovery	Expense Stop	Monthly Other Income	Cat	— Future Rent Increases — Date	Monthly Amount	PSF
Vacant Suites														
16610 -300	Vacant				72,544	134,206.40	22.20							
Total Vacant Sq Ft:					72,544	134,206.40								
Occupied Suites														
16610 -100	Computrition, Inc.	85	10/28/2011	10/31/2018	10,022	10,064.59	12.05	0.00			BRT	11/1/2013	20,733.06	24.83
											BRT	11/1/2014	21,355.05	25.57
											BRT	11/1/2015	21,995.71	26.34
											BRT	11/1/2016	22,655.58	27.13
											BRT	11/1/2017	23,335.25	27.94
											FRT	11/1/2013	-10,366.53	-12.41
											FRT	11/1/2014	-10,677.53	-12.78
											FRT	11/1/2015	-10,997.86	-13.17
16610 -150	CBRE Inc. (MTM)	1	1/1/2009	1/31/2009	3,000	8,103.00	32.41	0.00			BRT	7/1/2013	8,346.00	33.38
	Additional Space 16610 -175		1/1/2009	1/31/2009	3,884									
				Total	6,884	8,103.00		0.00		0.00				
16610 -275	Bank of America, N.A.	84	6/1/2010	5/31/2017	31,893	62,595.28	23.55	436.20		1,925.00	BRT	6/1/2013	64,473.13	24.26
											BRT	6/1/2014	66,407.33	24.99
							Effective: 1/1/2012 Estimated CAM	*204.94*	6.98		BRT	6/1/2015	68,399.55	25.74
							Effective: 1/1/2012 Estimated RE Tax	*231.26*	2.38		BRT	6/1/2016	70,451.53	26.51
	Additional Space 16610 -200		6/1/2010	5/31/2017	39,155	76,848.15	23.55	535.64		1,925.00	BRT	6/1/2013	79,153.59	24.26
							Effective: 1/1/2012 Estimated CAM	*251.66*	*0.00*		BRT	6/1/2014	81,528.20	24.99
							Effective: 1/1/2012 Estimated RE Tax	*283.98*	*0.00*		BRT	6/1/2015	83,974.05	25.74
											BRT	6/1/2016	86,493.27	26.51
				Total	71,048	139,443.43		971.84		3,850.00				
Total for:						157,611.02		971.84		3,850.00				

Corp Pointe at West Hills-8521

Total SF:	160,498		(6 Suites)
Leased SF:	87,954	54.80%	(5 Suites)
Vacant SF:	72,544	45.20%	(1 Suites)
Occupied SF:	87,954	54.80%	(5 Suites)

Suite Id	Tenant Name	Term	--- Rent Dates --- Start	Expire	NRA Square Footage	Monthly Base Rent	Annual Rate PSF	Monthly Cost Recovery	Expense Stop	Monthly Other Income	Cat	--- Future Rent Increases --- Date	Monthly Amount	PSF
Total Corp Pointe at West Hills-8521:						157,611.02		971.84		3,850.00				

Total SF:	160,498		(6 Suites)
Leased SF:	87,954	54.80%	(5 Suites)
Vacant SF:	72,544	45.20%	(1 Suites)
Occupied SF:	87,954	54.80%	(5 Suites)

16610

Suite Id	Tenant Name	Term	— Rent Dates — Start	Expire	NRA Square Footage	Monthly Base Rent	Annual Rate PSF	Monthly Cost Recovery	Expense Stop	Monthly Other Income	Cat	— Future Rent Increases — Date	Monthly Amount	PSF
Vacant Suites														
16611 -100	Vacant				48,275	94,136.25	23.40							
16611 -200	Vacant				50,122	97,737.90	23.40							
Total Vacant Sq Ft:					98,397	191,874.15								
Total for:						0.00		0.00		0.00				
Corp Pointe at West Hills-8531														
			Total SF:	98,397		(2 Suites)								
			Leased SF:	0	0.00%	(0 Suites)								
			Vacant SF:	98,397	100.00%	(2 Suites)								
			Occupied SF:	0	0.00%	(0 Suites)								
Total Corp Pointe at West Hills-8531:						0.00		0.00		0.00				
			Total SF:	98,397		(2 Suites)								
			Leased SF:	0	0.00%	(0 Suites)								
			Vacant SF:	98,397	100.00%	(2 Suites)								
			Occupied SF:	0	0.00%	(0 Suites)								

Suite Id	Tenant Name	Term	--- Rent Dates --- Start	Expire	NRA Square Footage	Monthly Base Rent	Annual Rate PSF	Monthly Cost Recovery	Expense Stop	Monthly Other Income	Cat	— Future Rent Increases — Date	Monthly Amount	PSF
Total for:						0.00		0.00		0.00				
TRS - West Hills														
			Total SF:		0	(0 Suites)								
			Leased SF:		0	0.00% (0 Suites)								
			Vacant SF:		0	0.00% (0 Suites)								
			Occupied SF:		0	0.00% (0 Suites)								
Total TRS - West Hills:						0.00		0.00		0.00				
			Total SF:		0	(0 Suites)								
			Leased SF:		0	0.00% (0 Suites)								
			Vacant SF:		0	0.00% (0 Suites)								
			Occupied SF:		0	0.00% (0 Suites)								
16699														
Grand Total:						948,425.83		54,726.72		16,806.06				
			Total SF:		881,238	(37 Suites)								
			Leased SF:		518,524	58.84% (27 Suites)								
			Vacant SF:		362,714	41.16% (10 Suites)								
			Occupied SF:		491,853	55.81% (27 Suites)								
			New Leases SF		*26,671*	*(2 Suite/s)*								
			Renewals SF:		*17,765*	*(1 Suite/s)*								

Linda S. Adams
Secretary for
Environmental Protection

Department of Toxic Substances Control

Maureen F. Gorsen, Director
9211 Oakdale Avenue
Chatsworth, California CA 91311

Arnold Schwarzenegger
Governor

February 11, 2009

Thomas L. Glick
City Planner
City of Los Angeles, Department of City Planning
6262 Van Nuys Boulevard, Room 351
Van Nuys, CA 91401

CORPORATE POINTE AT WEST HILLS, WEST HILLS, CA ("PROPERTY"), CAD0411692124; STATUS OF DTSC INVESTIGATION AND REMEDIATION

Dear Mr. Glick:

DTSC understands that the City of Los Angeles ("City") is in the process of completing its environmental review and other permitting associated with the application of the owner, MEPT West Hills LLC ("MEPT"), for a general plan amendment, zone change, conditional use for commercial corner development, and site plan review. This letter updates the City on DTSC's continuing oversight of assessment and, as needed, remediation and monitoring at the Property.

A. Site History and Location

The subject property ("Property") encompasses approximately fifty (50) acres of the approximately eighty-five (85) acre former Hughes Missile Systems site ("Site"), now known as Corporate Pointe at West Hills. The Site, including the Property, has been under DTSC's jurisdiction to address environmental contamination in soil as a result of historic operations. The Regional Water Quality Control Board ("RWQCB") also has jurisdiction for contamination associated with groundwater at the site. MEPT proposes to build an additional 360,000 square feet of office space and a new parking structure at the Property. Trammell Crow Company will develop the structures.

The entire Site is located at the northwest corner of Fallbrook Avenue and Roscoe Boulevard in West Hills, California. From 1959 until 1966, Bunker-Ramo, an electrical component design and testing company, developed and used the Site as an industrial park. From approximately 1966 to 1976, Hughes Missiles Systems shared occupancy of the Site with Rocketdyne and Bunker-Ramo. Hughes later purchased the Site and occupied the entire facility as an aerospace research and development facility. Following a merger with Hughes in 1997, Raytheon assumed management of all environmental investigation and remediation activities at

the 85-acre facility, including the Property.

In May 1995, Hughes sold the Site and the land use changed to commercial office space. In 1997, the northern portion of the Site was sold to Regent Properties. Certain parcels within the southern portion of the site were subsequently purchased by DeVry Incorporated, the City of Los Angeles (Police Department), and MEPT. MEPT acquired the remaining portions of the Site, excluding the 5-acre City portion, in 2002.

While the Site was used as a design and testing facility prior to 1995, the DTSC permitted the use of two hazardous waste units on site: a hazardous waste storage area and an underground waste oil/solvent tank. Both of these units were located along the northern Site boundary and are not located within the Property. In or about 1997, Raytheon removed all on-site hazardous waste units and certain affected soil with DTSC oversight. Since then, Raytheon, DTSC and the RWQCB have been working to finalize Site closure.

B. DTSC's Continuing Role and Site Specific Remediation Goals

1. DTSC Role

For sites where a historic release or threatened release of hazardous substances into the environment has occurred, California law requires DTSC approval of a "remedial action plan" or similar decision document to certify that the remedy selection process was completed in accordance with all applicable laws and regulations. This process also provides a public source of information about the history, characteristics, and risks posed by a particular site, as well as a summary of the cleanup alternatives considered, their evaluation, and the rationale supporting the selected remedy. DTSC must determine whether the selected cleanup levels and remedies meet all legal requirements and protect public health and the environment. Upon the completion of the environmental cleanup process, DTSC has the statutory responsibility for certifying that the necessary remediation has been completed and that no further remedial action is necessary. See, Cal. Health & Safety Code, Chapter 6.5, 6.8 and DTSC's Land Use Covenant Agreements Fact Sheet, Oct. 2000.

2. Development and Implementation of Site Specific Remediation Goals

DTSC's remedy selection requirements mandate the evaluation of reasonably anticipated future land uses which affect exposure pathways. For the Property, the City serves as the source of information and permitting authority for land uses. Selection of cleanup levels must be based on consideration of public health and environmental risks, technical and costs limitations, and the performance and risk uncertainties inherent in all waste remediation efforts. Cleanup levels at industrial or recreational sites are generally less stringent than more intensive uses because of shorter human exposure duration and limited exposure pathways.

When selecting a remedy for a site, California law requires, and DTSC insists that:

a. The chosen remedy must protect public health and the environment for the reasonably anticipated future land use;

b. Engineering controls must be used for low-level threats;

c. Institutional controls must be used to supplement engineering controls;

d. The use of innovative technology must be considered with preference given to permanent remedies;

e. Usable groundwater must be returned to beneficial use; and

f. The selected remedy must comply with the California Environmental Quality Act ("CEQA").

Here, the City has assumed the role of lead agency for CEQA purposes for MEPT's proposed project. To the extent that any future unanticipated environmental contamination at the site triggers CEQA, a separate CEQA process will be initiated.

DTSC considers the current and future use of a site when establishing site-specific remediation levels and does not reply upon zoning when determining remediation standards. RWQCB utilizes published maximum contaminant levels ("MCLs") to measure remediation levels in groundwater, which are also independent of zoning.

Here, the Property is currently zoned for agricultural uses, but has been used for commercial industrial purposes for more than 50 years. The current and future use of the site will remain commercial industrial. Therefore, DTSC will establish remediation levels based upon health risk analysis that reflects commercial industrial uses, while the RWQCB will utilize published MCLs. This process follows standard practice throughout California.

Any zone change for the Property will have no effect on the remediation standards utilized by either DTSC or RWQCB for the Property.

C. Environmental Investigation and Remediation

From 1988 through 2000, Hughes and Raytheon conducted numerous environmental investigations aimed at identifying the extent of soil and groundwater impact associated with the permitted units and identified Areas of Concern ("AOC") and Solid Waste Management Units ("SWMU's"). Environmental remediation has continued at the Site since approximately 1995. The DTSC and RWQCB's primary common objective remains remediation of soil and groundwater to facilitate Site closure.

In May 2008, Raytheon submitted to DTSC a Resource Conservation & Recovery Act Facility Assessment ("RFA") questionnaire response. The document outlines all historical data and completed remediation efforts to date. The DTSC is presently finalizing the RFA, which will evaluate if additional investigation and/or remediation is necessary.

D. Next Steps

The RFA will determine the future site assessment and remediation that will be necessary. There are no restrictions on development in those areas of the Property not identified as AOCs or SWMUs as previously noted in DTSC's August 5, 2008 letter to Mr. Hadar Plafkin of the City Planning Department. The January 30, 2008 Draft RCRA Facility Assessment, Hughes Missiles Systems Company, Canoga Park facility (Raytheon) EPA ID-CAD041162124 identifies all AOCs and SWMUs for the entire site, including the Property.

Pending closure of an AOC or a SWMU area where development is to occur, DTSC requires the use of a Soil Management Plan ("SMP") detailing the required sampling and monitoring to be implemented. DTSC has approved an SMP for the Property and MEPT has implemented same. Specific appendices to the SMP are required to be created for any AOC or SMU where ground disturbance activities are to occur, until such time as those AOCs/SWMUs receive final closure.

E. Specific Documentation for the Site

Additional documentation relating to the entire site, including the Property is available at www.envirostor.dtsc.ca.gov\public.

Please contact the undersigned or Susan Callery, DTSC's Public Participation Specialist for this project (818/ 717-6567) with questions or comments.

Sincerely,

Rodney Collins

Rodney Collins
Project Manager
Brownfields and Environmental Restoration Program

cc: Mr. Allan Plaza, Unit Chief (via email)
Brownfields and Environmental Restoration Program
Department of Toxic Substances Control
aplaza@dtsc.ca.gov

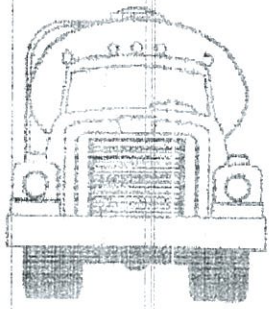
Ms. Susan Callery, Public Participation Specialist (via email)
Public Participation Program
Department of Toxic Substances Control
scallery@dtsc.ca.gov

Ms. Ann Chang, Ph.D. (via email)
Water Resources Control Engineer
Los Angeles Regional Water Quality Control Board
nchang@waterboards.ca.gov

Mr. Neal Holdridge (via email)
Environmental Manager
Trammel Crow Company
nholdridge@trammellcrow.com

Mr. Kenneth J. Katich (via email)
Development & Investment
Trammel Crow Company
kkatich@trammellcrow.com

Ms. Bonnie Klea (via email)
8369 Ponce Avenue
West Hills, CA 91304
bonniel@dslextreme.com



Alpha Pumping, Inc.

1-877-PUMP-090 • (818) 373-9282

Restaurant Used Grease Pick-Up
Grease Trap Pumping

NON-HAZARDOUS WASTE MANIFEST

Generator Name: TRIMANA		Date: 12-7-2012	
Address: 941 FALBROOK AVE		Phone Number	
City, State, Zip Code: WEST HILLS, CA 91304			
Waste Type: Grease Trap / Non-Industrial	X	Industrial / Special	

Generator Certification:

I certify that the waste material provided by the above named generator does not contain any radioactive, flammable, explosive, toxic or hazardous material ("Excluded Waste"). The term "Hazardous Material" is defined as any one or more pollutant, toxic substance, hazardous substance, solvent or oil as defined in or pursuant to the Resource Conservation and Recovery Act, the Comprehensive Enviornmental Response Compensation and Liability Act, the Federal Clean Water Act, or any other federal, state or local enviornmental law, regulation, ordanance, or rule, whether existing as of the date of this agreement or subsequently enacted. I also acknowledge that the Generator shall be responsible for any costs incurred by the Transporter or Disposal Facility in handling or proper disposal of any hazardous waste and that the Generator expressly agrees to defend, indemify and hold harmless the transporter from and against any and all damages, costs, fines and liabilities resulting from or arising out of any such hazardous waste.

Generator Rep. Name (Please Print)	JOSEPH	Generator Rep. Signature	

Transporter Name:	Alpha Pumping, Inc.	Phone Number	(877) 786-7090 (818) 373-9282
Address:	5632 Van Nuys Blvd., #306		
City, State, Zip Code:	Van Nuys, CA 91401		

Waste Quantity Removed (Gallons)	2,000 gallons	Date: 12-7-12	Time: 8:00 A.M.

I certify that the information above is accurate, and that only the waste certified for removal by the Generator is contained in the servicing vehicle. I am aware that falsification of this manifest may result in prosecution.

Driver Name (Please Print)	GEORGE	Driver Signature	

Disposal Facility: Address:	CO-WEST COMMODITIES 1389 W. Mill St., San Bernardino, CA 92410		
Waste Quantity Received (Gallons)		Date	Time
Facility Rep. Name (Please Print)		Facility Rep. Signature	

SIZE 2,500 gal.

Tel: 714.899.8900
Free: 888.743.0998
Fax: 714.899.7098
http://www.patriotlab.com
7271 Garden Grove Blvd., Suite A Garden Grove, CA 92841 Patriot Environmental Laboratory Services, Inc.

December 8, 2011

Stephanie Singletary
MEPT West Hills
8521 Fallbrook Ave. Suite 150
West Hills, CA 91304

Re: **Limited Asbestos Inspection**
8521 Fallbrook Ave Property
8521 Fallbrook Ave.
West Hills, CA 91304

Claim No: N/A

Project No: 40380

Dear Ms. Singletary,

On November 16, 29 & 30, 2011, California DOSH Certified Site Surveillance Technician, Mr. Gary Brockway (CSST 06-4120) of Patriot Environmental Laboratory Services, Inc. (Patriot) performed a limited asbestos inspection at the above subject property located in West Hills, California. **The purpose of the inspection was to determine if asbestos is present in any of the building materials as specified for a renovation at the subject property.**

Summary of Findings
The following asbestos containing materials were identified:

Note: The Quantities Provided Below Are Estimates. Actual Quantities Must Be Field Verified By Contractors Prior To Submitting Bids For Abatement.

Samples Collected November 16, 2011:

Material Description	Sample Number	Material Location	Material Condition	Estimated Percent Damaged	Approximate Quantity	Percent & Type of Asbestos
Pipe Covering Insulation & Water Stops	6,8,12 14	Bldg 8501 & Bldg 8521 Roof at Pipe Runs,	Damaged	4%	Approx. 3260 LF 8 ea. per bldg (water stops)	8-15% Chrysotile

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		Water Stops				
Pipe Elbows	4,7,11,13	Bldg 8501 & Bldg 8521 Roof at Pipe Elbows	Damaged	4%	362 Elbows	8-15% Chrysotile

*see attached drawing

Samples Collected November 29 & 30, 2011:

Material Description	Sample Number	Material Location	Material Condition	Estimated Percent Damaged	Approximate Quantity	Percent & Type of Asbestos
Pipe Covering Insulation & Water Stops	27,28,29,31, 38, 40,53 62,70,72,78, 80, 93,95	Bldg. 8501 & Bldg. 8521 Roof at Water Pipe Runs & Water Stops	Damaged	4%	Approx. 3260 LF 8 ea. per bldg (water stops)	15-20% Chrysotile
Pipe Elbows	23,24, 34,39, 47, 53,63,65, 71, 76,82, 83,87,89	Bldg. 8501 & Bldg. 8521 Roof at Pipe Elbows	Damaged	4%	362 Elbows	15-25% Chrysotile
Black Mastic	45	Bldg 8521 at Roof on Pipe	Good	0%	100 LF	6% Chrysotile

*see attached drawing

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Property Description

The subject property is commercial structure. The subject buildings are three-story wood frame set on concrete slab foundations. At the time of this inspection, the identified asbestos-containing materials were in weathered/damaged condition.

Scope of Work

On November 16, 2011, Mr. Gary Brockway (CSST 06-4120) of Patriot conducted a limited asbestos inspection at the subject property. The interior and exterior of the building was visually inspected for the purpose of inventorying any suspect asbestos containing materials for a renovation project at the subject property. Once the inventory of suspect materials was created, physical bulk samples were collected of the materials from representative locations. Samples were collected in airtight containers. Upon collection, sample numbers, descriptions, and collection locations were entered on to a chain of custody for transportation to Patriot's NVLAP accredited laboratory.

Sampled Suspect Materials

Samples of the following suspect materials were collected:

Pipe Covering & Insulation	Elbow Insulation	Duct Seam Mastic
Roof Penetration Mastic	--	--

Sample Protocol/Analysis

Samples were collected in accordance with the Asbestos School Hazard Emergency Response Act (40 CFR 763 Subpart E) as mandated by Cal/OSHA (Title 8 Section 1529) and South Coast Air Quality Management District (Rule 1403).

Physical bulk samples were analyzed by Patriot. Patriot is accredited by the National Voluntary Laboratory Accreditation Program (200358-0). The method of analysis was Polarized Light Microscopy (EPA 600/M4-82-020).

Recommendations

If any of the asbestos containing materials identified in this report is scheduled to be impacted by renovation or demolition activities, an asbestos abatement contractor must remove them prior to disturbance. Asbestos abatement contractors must be registered with the Division of Occupational Safety and Health.

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Disclaimer

Limited destructive sampling was conducted at the subject property. If additional suspect materials are discovered during renovation, all work should cease until a Certified Asbestos Consultant is contracted to ascertain the possibility of asbestos content. This inspection was performed in accordance with current regulations and state of the art practices. The inventory of asbestos containing materials and determination of their condition are based upon conditions observed at the time of inspection. Patriot does not assume responsibility for future regulatory changes or changes in the condition of the building.

Enclosed is the laboratory analysis report. Please contact our office if there are any questions regarding this inspection.

Sincerely,

Chris Blake
Certified Asbestos Consultant No. 01-3027

Enclosure: Laboratory Results

Sample Location Drawing

Certificate of Analysis
PLM Asbestos Identification

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MEPT West Hills
Stephanie Singletary
8521 Fallbrook Ave Suite 150
West Hills, CA 91304

Report Number: 435865
Project Number: 40380
Project Name: 8521 Fallbrook Ave Property
Project Location: 8521 Fallbrook Ave
West Hills, 91304

Date Collected: 11/16/2011
Date Received: 11/17/2011
Date Analyzed: 11/17/2011
Date Reported: 11/17/2011

Collected By: Gary Brockway
Claim Number:
PO Number:
Number of Samples: 17

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
435865-001 1	Bldg 8501 Roof Chilled Water Supply Pipe Run AHU 1	Pipe Covering and Insulation	Gray Yellow Silver	65% Cellulose 20% Foil 15% Glass Fibers
Total Asbestos	**None Detected**			
435865-002 2	Bldg 8501 Roof AHU 3 and 4 Secondary Hot Water Stop	Pipe Covering and Insulation	White Black	92% Foam 8% Paint
Total Asbestos	**None Detected**			
435865-003 3	Bldg 8501 Roof AHU 3 and 4 Secondary Water Stop	Pipe Covering and Insulation	Silver Black Yellow	50% Binder 25% Tar 20% Glass Fibers 5% Paint
Total Asbestos	**None Detected**			
435865-004 4	Bldg 8501 Roof AHU 3 and 4 Hot Water Return Elbow	Pipe Covering and Insulation	Silver Beige	65% Sulfate 10% Glass Fibers 10% Paint
Chrysotile	15 %			
Total Asbestos	**15 %**			
435865-005 5	Bldg 8501 Roof AHU 6 Chilled Water Circuit Setter	Pipe Covering and Insulation	Silver Yellow	67% Binder 25% Paint 8% Glass Fibers
Total Asbestos	**None Detected**			

Certificate of Analysis
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Stephanie Singletary
8521 Fallbrook Ave Suite 150
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Date Reported: 11/17/2011

Collected By: Gary Brockway
Claim Number:
PO Number:
Number of Samples: 17

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
435865-006 6	Bldg 8501 Roof AHU 2 Chilled Water Stop	Pipe Covering and Insulation	Silver Yellow Black Beige	62% Sulfate 12% Tar 10% Paint 6% Glass Fibers
Chrysotile 10 %				
Total Asbestos **10 %**				
435865-007 7	Bldg 8501 Roof AHU 2 Hot Water Bypass Elbow	Pipe Covering and Insulation	Silver Black Beige	46% Sulfate 30% Binder 12% Tar
Chrysotile 12 %				
Total Asbestos **12 %**				
435865-008 8	Bldg 8501 Roof AHU 2 Chilled Water Pipe Run	Pipe Covering and Insulation	Blue Black Yellow	60% Tar 22% Glass Fibers 5% Cellulose 3% Paint
Chrysotile 10 %				
Total Asbestos **10 %**				
435865-009 9	Bldg 8501 Roof Chilled Water Pipe Run	Pipe Covering and Insulation	Black Yellow Silver	57% Tar 20% Cellulose 20% Glass Fibers 3% Paint
Total Asbestos	**None Detected**			

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Date Reported: 11/17/2011

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Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
435865-010 10	Bldg 8501 Roof Terminated Hot Water Pipe Run SF 2	Pipe Covering and Insulation	White	80% Sulfate
Amosite 20 %				
Total Asbestos 20 %				
435865-011 11	Bldg 8521 Roof SF4 Hot Water Pipe Elbow	Pipe Covering and Insulation	Yellow Beige	52% Sulfate 40% Glass Fibers
Chrysotile 8 %				
Total Asbestos 8 %				
435865-012 12	Bldg 8521 Roof SF4 Hot Water Stop	Pipe Covering and Insulation	Gray Yellow Beige	62% Sulfate 20% Glass Fibers 10% Binder
Chrysotile 8 %				
Total Asbestos 8 %				
435865-013 13	Bldg 8521 Roof SF2 Chilled Water Supply Stop	Pipe Covering and Insulation	Gray Yellow Beige	62% Sulfate 20% Glass Fibers 10% Binder
Chrysotile 8 %				
Total Asbestos 8 %				
435865-014 14	Bldg 8521 Roof SF2 Hot Water Supply Pipe Elbow	Pipe Covering and Insulation	Yellow Beige	62% Sulfate 10% Binder 20% Glass Fibers
Chrysotile 8 %				
Total Asbestos 8 %				

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Date Reported: 11/17/2011

Collected By: Gary Brockway
Claim Number:
PO Number:
Number of Samples: 17

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
435865-015 15	Bldg 8521 Roof Support for Water Supply	Penetration Mastic	Black	90% Tar 10% Cellulose
Total Asbestos	**None Detected**			
435865-016 16	Bldg 8521 Roof Support for Water Supply	Penetration Mastic	Black	90% Tar 10% Cellulose
Total Asbestos	**None Detected**			
435865-017 17	Bldg 8521 Roof Expansion Tank Support	Penetration Mastic	Black	90% Tar 10% Cellulose
Total Asbestos	**None Detected**			

Bulk sample(s) submitted was (were) analyzed in accordance with the procedure outlined in the US Federal Register 40 CFR 763, Subpart F, Appendix A; EPA-600/R-93/116 (Method for Determination of Asbestos in Building Materials), and EPA-600/M4-82-020 (US EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples).Samples were analyzed using Calibrated Visual Estimations (CVES); therefore, results may not be reliable for samples of low asbestos concentration levels. Samples of wall systems containing discrete and separable layers are analyzed separately and reported as composite unless specifically requested by the customer to report analytical results for individual layers. This report applies only to the items tested. Results are representative of the samples submitted and may not represent the entire material from which the samples were collected. "None Detected" means that no asbestos was observed in the sample. "<1%" (less than one percent) means that asbestos was observed in the sample but the concentration is below the quantifiable level of 1%.

Elaine Wai - Analyst

David Espique - Approved By

This report was issued by a NIST/NVLAP (Lab Code 200358-0) and CADOHS- ELAP (Cert. No. 2540) accredited laboratory and may not be reproduced without the expressed written consent of Patriot Environmental Laboratory Services, Inc. This report may not be used to claim product certification, approval or endorsement by NIST, NVLAP, ELAP or any government agency.

435865

PATRIOT

FIELD BULK SAMPLE COC

REQUESTED LAB TAT:

PROJECT NAME: 8521 Fallbrook Ave. Property

PROJECT ADDRESS: 8521 Fallbrook Ave, West Hills CITY: ZIP: 91304

PROJECT NUMBER: 40380 | X | MH

Sample ID	Sample Location	Material Type	F	NF	Condition	Notes
1	Bldg 8501, Roof; Chilled water supply pipe run AHU1	Pipe covering and insulation	X		Damaged	500 l.ft. each bldg
2	Bldg 8501, Roof, AHU 3+4 secondary hot water stop		X			8 each bldg
3	Bldg 8501, Roof, AHU 3+4 secondary water stop		X			8 each bldg
4	Bldg 8501, Roof, AHU 3+4 Hot water return elbow		X			96 each bldg
5	Bldg 8501, Roof, AHU6, chilled water circut setter		X			
6	Bldg 8501, Roof, AHU2 chilled water stop		X			8 each bldg
7	Bldg 8501, Roof, AHU2 Hot water bypass elbow		X			96 each bldg
8	Bldg 8501, Roof, AHU2 chilled water pipe run		X			500 l.ft each bldg
9	Bldg 8501, Roof chilled water pipe run		X			
10	Bldg 8501, Roof, terminated hot water pipe run; SF2		X			
11	Bldg 8521, Roof, SF4, hot water pipe elbow		X			96 each bldg
12	Bldg 8521, Roof, SF4 Hot water stop		X			8 each bldg
13	Bldg 8521, Roof; SF2, chilled water supply pipe elbow		X			96 each bldg
14	Bldg 8521, Roof, SF2, hot water supply stop		X			8 each bldg
15	Bldg 8521, Roof, Support for water supply	Black Penetration mastic		X	Good	100 sq ft each bldg
16	Bldg 8521, Roof			X		
17	Bldg 8521, Roof; Expansion Tank Support			X		

Samples relinquished by: _____ Date/Time: 11-16-11, 4:30, FedEx

Samples received by: Stephanie Soden Date/Time: 11/17/11 @8:00 FedEx

7271 Garden Grove Blvd. Suite A, Garden Grove, CA 92841 Tel: 888/743-0998 Tel: 714/899/8900 Fax: 714/899-7098

Will follow shop.

Certificate of Analysis
PLM Asbestos Identification

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MEPT West Hills
Stephanie Singletary
8521 Fallbrook Ave Suite 150
West Hills, CA 91304

Report Number: 437094
Project Number: 40380
Project Name: 8521 Fallbrook Ave Property
Project Location: 8521 Fallbrook Ave
West Hills, 91304

Date Collected: 11/30/2011
Date Received: 11/30/2011
Date Analyzed: 12/1/2011
Date Reported: 12/2/2011

Collected By: Gary Brockway
Claim Number:
PO Number:
Number of Samples: 96

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
437094-001 1	Bldg 8413 Mechan Room Chill Water Return Bypass	Pipe Insulation and Wrap	Black White	60% Foam 20% Cellulose 15% Glass Fibers 3% Paint 2% Foil
Total Asbestos	**None Detected**			
437094-002 2	Bldg 8413 Mechanical Room Chilled Water Supply Run	Pipe Insulation and Wrap	Beige Yellow	75% Glass Fibers 20% Cellulose 3% Paint 2% Foil
Total Asbestos	**None Detected**			
437094-003 3	Bldg 8413 Mechan Room Chilled Water Return Run	Pipe Insulation and Wrap	Yellow White	70% Glass Fibers 28% Cellulose 2% Foil
Total Asbestos	**None Detected**			
437094-004 4	Bldg 8413 Mechan Room Chilled Water Supply Valve	Pipe Insulation and Wrap	Yellow White	90% Glass Fibers 10% Paint
Total Asbestos	**None Detected**			
437094-005 5	Bldg 8413 Temporary Storage Hot Water Supply Pipe T	Pipe Insulation and Wrap	Yellow Silver	97% Glass Fibers 3% Foil
Total Asbestos	**None Detected**			

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Date Analyzed: 12/1/2011
Date Reported: 12/2/2011

Collected By: Gary Brockway
Claim Number:
PO Number:
Number of Samples: 96

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
437094-006 6	Bldg 8413 3rd Floor Hot Water Supply Run	Pipe Insulation and Wrap	Yellow Silver	83% Glass Fibers 15% Cellulose 2% Foil
Total Asbestos	**None Detected**			
437094-007 7	Bldg 8407 Chilled Water Supply Pipe T Mechan Room 2nd Floor	Pipe Insulation and Wrap	Yellow White	70% Glass Fibers 18% Paint 10% Cellulose 2% Foil
Total Asbestos	**None Detected**			
437094-008 8	Bldg 8407 2nd Floor Roof Abandoned Hot Water Elbow	Pipe Insulation and Wrap	Yellow Silver	90% Glass Fibers 5% Cellulose 5% Foil
Total Asbestos	**None Detected**			
437094-009 9	Bldg 8407 2nd Floor Roof Chilled Water Elbow After Hrs Unit	Pipe Insulation and Wrap	Yellow White	100% Glass Fibers
Total Asbestos	**None Detected**			
437094-010 10	Bldg 8407 2nd Floor Roof Hot Water Line Run	Pipe Insulation and Wrap	Yellow Silver	90% Glass Fibers 5% Cellulose 5% Foil
Total Asbestos	**None Detected**			

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Date Reported: 12/2/2011

Collected By: Gary Brockway
Claim Number:
P.O Number:
Number of Samples: 96

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
437094-011 11	Bldg 8407 2nd Floor Mech Roof Chilled Water Stop	Pipe Insulation and Wrap	Black Silver	90% Foam 10% Paint
Total Asbestos	**None Detected**			
437094-012 12	Bldg 8407 1st Floor Mech Room Chilled Water Supply Run	Pipe Insulation and Wrap	Black Yellow	60% Foam 20% Cellulose 15% Glass Fibers 5% Foil
Total Asbestos	**None Detected**			
437094-013 13	Bldg 8407 1st Floor AHR Chilled Water Supply Valve	Pipe Insulation and Wrap	White	97% Binder 3% Paint
Total Asbestos	**None Detected**			
437094-014 14	Bldg 8531 Roof Chilled Water Supply Run	Pipe Insulation and Wrap	Yellow Silver	75% Glass Fibers 20% Cellulose 5% Foil
Total Asbestos	**None Detected**			
437094-015 15	Bldg 8531 Roof Hot Water Supply Run AH4	Pipe Insulation and Wrap	Yellow Silver	75% Glass Fibers 20% Foil 5% Cellulose
Total Asbestos	**None Detected**			
437094-016 16	Bldg 8531 Roof Chilled Water Line to Supplemental AH	Pipe Insulation and Wrap	Yellow	100% Glass Fibers
Total Asbestos	**None Detected**			

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Date Reported: 12/2/2011

Collected By: Gary Brockway
Claim Number:
PO Number:
Number of Samples: 96

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
437094-017 17	Bldg 8531 Roof Chilled Water Line To AH3	Pipe Insulation and Wrap	Yellow Silver	85% Glass Fibers 10% Cellulose 5% Foil
Total Asbestos	**None Detected**			
437094-018 18	Bldg 8521 Roof Chilled Water Run to AH1	Pipe Insulation and Wrap	Yellow Silver	85% Glass Fibers 10% Cellulose 5% Foil
Total Asbestos	**None Detected**			
437094-019 19	Bldg 8521 Roof Chilled H2O Return AH1	Pipe Insulation and Wrap	Yellow Silver	90% Glass Fibers 5% Cellulose 5% Foil
Total Asbestos	**None Detected**			
437094-020 20	Bldg 8521 Roof Drain Pipe for AH1	Mastic	Black	92% Tar 8% Cellulose
Total Asbestos	**None Detected**			
437094-021 21	Bldg 8521 Roof Chilled Water Stop SF3	Pipe Insulation and Wrap	Yellow Silver	75% Glass Fibers 20% Carbonate 5% Paint
Total Asbestos	**None Detected**			

Certificate of Analysis
PLM Asbestos Identification

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7271 Garden Grove Blvd., Suite A Garden Grove, CA 92841

MEPT West Hills
Stephanie Singletary
8521 Fallbrook Ave Suite 150
West Hills, CA 91304

Report Number: 437094
Project Number: 40380
Project Name: 8521 Fallbrook Ave Property
Project Location: 8521 Fallbrook Ave
West Hills, 91304

Date Collected: 11/30/2011
Date Received: 11/30/2011
Date Analyzed: 12/1/2011
Date Reported: 12/2/2011

Collected By: Gary Brockway
Claim Number:
PO Number:
Number of Samples: 96

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
437094-022 22	Bldg 8521 Roof Chilled Water Elbow SF3	Pipe Insulation and Wrap	Grey	73% Carbonate 20% Binder 5% Glass Fibers 2% Paint
Total Asbestos	**None Detected**			
437094-023 23	Bldg 8521 Roof Hot Water Elbow SF3	Pipe Insulation and Wrap	Grey White	45% Carbonate 20% Binder 10% Synthetic Fibers 5% Glass Fibers
Chrysotile	20 %			
Total Asbestos	**20 %**			
437094-024 24	Bldg 8521 Roof Chilled Water Elbow SF3	Pipe Insulation and Wrap	Grey	45% Carbonate 20% Binder 10% Mineral Wool 5% Glass Fibers
Chrysotile	20 %			
Total Asbestos	**20 %**			
437094-025 25	Bldg 8521 Chilled Water Run SF3	Pipe Insulation and Wrap	Yellow Silver	90% Glass Fibers 7% Cellulose 3% Foil
Total Asbestos	**None Detected**			

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Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
437094-026 26	Bldg 8521 Roof SF3	Duct Seam Mastic	Grey	60% Carbonate 40% Vinyl Binder
Total Asbestos	**None Detected**			
437094-027 27	Bldg 8521 Chilled Water Run SF4 Roof	Pipe Insulation and Wrap	Grey	45% Carbonate 20% Binder 10% Mineral Wool 5% Synthetic Fibers
Chrysotile	20 %			
Total Asbestos	**20 %**			
437094-028 28	Bldg 8521 Hot Water Run SF4 Roof	Pipe Insulation and Wrap	Grey Yellow	45% Carbonate 25% Binder 5% Glass Fibers 5% Synthetic Fibers
Chrysotile	20 %			
Total Asbestos	**20 %**			
437094-029 29	Bldg 8521 Hot Water Elbow SF4 Roof	Pipe Insulation and Wrap	Grey	55% Carbonate 20% Binder 5% Synthetic Fibers
Chrysotile	20 %			
Total Asbestos	**20 %**			

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Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
437094-030 30	Bldg 8521 Chilled Water Strainer Roof SF4	Pipe Insulation and Wrap	Yellow Silver	85% Glass Fibers 13% Binder 2% Foil
Total Asbestos	**None Detected**			
437094-031 31	Bldg 8521 Hot Water Strainer Roof SF4 Roof	Pipe Insulation and Wrap	Grey Yellow	40% Carbonate 15% Glass Fibers 20% Binder 2% Mineral Wool 3% Foil
Chrysotile	20 %			
Total Asbestos	**20 %**			
437094-032 32	Bldg 8521 SF4 Roof	Duct Seam Mastic	Grey	60% Carbonate 40% Vinyl Binder
Total Asbestos	**None Detected**			
437094-033 33	Bldg 8521 Chilled H2O Elbow SF4 Roof	Pipe Insulation and Wrap	Grey	90% Carbonate 5% Binder 5% Glass Fibers
Total Asbestos	**None Detected**			

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Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
437094-034 34	Bldg 8521 Hot Water Elbow SF4 Roof	Pipe Insulation and Wrap	Grey Yellow	45% Carbonate 25% Binder 5% Glass Fibers 5% Cellulose
Chrysotile	20 %			
Total Asbestos	**20 %**			
437094-035 35	Bldg 8521 Chill H2O Elbow SF6 Roof	Pipe Insulation and Wrap	Yellow White	100% Glass Fibers
Total Asbestos	**None Detected**			
437094-036 36	Bldg 8521 Chill H2O Run SF6 Roof	Pipe Insulation and Wrap	Grey	90% Carbonate 7% Glass Fibers 3% Binder
Total Asbestos	**None Detected**			
437094-037 37	Bldg 8521 Chill Water Elbow SF6 Roof	Pipe Insulation and Wrap	Grey	90% Carbonate 7% Glass Fibers 3% Binder
Total Asbestos	**None Detected**			
437094-038 38	Bldg 8521 Hot Water Strainer SF6 Roof	Pipe Insulation and Wrap	Black Grey	45% Binder 30% Carbonate 5% Glass Fibers
Chrysotile	20 %			
Total Asbestos	**20 %**			

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Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
437094-039 39	Bldg 8521 Hot Water Elbow SF6 Roof	Pipe Insulation and Wrap	Grey	45% Binder 30% Carbonate 5% Glass Fibers
Chrysotile 20 %				
Total Asbestos **20 %**				
437094-040 40	Bldg 8521 Hot Water Run SF6 Roof	Pipe Insulation and Wrap	Black Grey Yellow	55% Tar 15% Binder 10% Glass Fibers 5% Cellulose
Chrysotile 15 %				
Total Asbestos **15 %**				
437094-041 41	Bldg 8521 Cold Water Elbow SF5 Roof	Pipe Insulation and Wrap	Yellow Grey	45% Binder 35% Glass Fibers 20% Carbonate
Total Asbestos	**None Detected**			
437094-042 42	Bldg 8521 Hot Water Run SF5 Roof	Pipe Insulation and Wrap	Yellow Black	50% Tar 45% Glass Fibers 5% Cellulose
Total Asbestos	**None Detected**			
437094-043 43	Bldg 8521 Hot Water Run SF5 Roof	Pipe Insulation and Wrap	Grey White	57% Carbonate 40% Vinyl Binder 3% Paint
Total Asbestos	**None Detected**			

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Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
437094-044 44	Bldg 8521 SF5 Roof	Duct Seam Mastic	Yellow White	80% Glass Fibers 18% Cellulose 2% Foil
Total Asbestos	**None Detected**			
437094-045 45	Bldg 8521 SF6 Blow Down Pipe Roof	Mastic	Black Silver	87% Tar 5% Paint 2% Carbonate
Chrysotile	6 %			
Total Asbestos	**6 %**			
437094-046 46	Bldg 8521 Chill Water Run SF1 Roof	Pipe Insulation and Wrap	Black Yellow	60% Glass Fibers 35% Tar 5% Cellulose
Total Asbestos	**None Detected**			
437094-047 47	Bldg 8521 Chill Water Elbow SF1 Roof	Pipe Insulation and Wrap	Grey	83% Carbonate 2% Mineral Wool
Chrysotile	15 %			
Total Asbestos	**15 %**			
437094-048 48	Bldg 8521 Hot Water Elbow SF1 Roof	Pipe Insulation and Wrap	Yellow Grey	80% Carbonate 20% Glass Fibers
Total Asbestos	**None Detected**			

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Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
437094-049 49	Bldg 8521 Chill Water Check Valve SF2 Roof	Pipe Insulation and Wrap	Black Yellow Silver	78% Tar 10% Glass Fibers 5% Carbonate 5% Foil 2% Cellulose
Total Asbestos	**None Detected**			
437094-050 50	Bldg 8521 Hot Water Run SF2 Roof	Pipe Insulation and Wrap	Yellow Black White	50% Tar 40% Glass Fibers 10% Cellulose
Total Asbestos	**None Detected**			
437094-051 51	Bldg 8521 SF2 Roof	Duct Seam Mastic	Grey White	57% Carbonate 40% Vinyl Binder 3% Paint
Total Asbestos	**None Detected**			
437094-052 52	Bldg 8521 SF2 Expansion Tank Pipe	Mastic	Black	100% Tar
Total Asbestos	**None Detected**			
437094-053 53	Bldg 8521 Expansion Tank Pipe Elbow by SF2	Pipe Insulation and Wrap	Yellow Grey	35% Tar 30% Glass Fibers 10% Carbonate 5% Paint
Chrysotile	20 %			
Total Asbestos	**20 %**			

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Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
437094-054 54	Bldg 8521 Expansion Tank Run by SF2 Roof	Pipe Insulation and Wrap	Yellow Black White	67% Tar 20% Glass Fibers 10% Cellulose 3% Paint
Total Asbestos	**None Detected**			
437094-055 55	Bldg 8501 Chilled Water Run AH1 Roof	Pipe Insulation and Wrap	Yellow Silver	88% Glass Fibers 10% Cellulose 2% Foil
Total Asbestos	**None Detected**			
437094-056 56	Bldg 8501 Chilled Water Elbow AH1 Roof	Pipe Insulation and Wrap	Yellow	100% Glass Fibers
Total Asbestos	**None Detected**			
437094-057 57	Bldg 8501 AH1 Roof	Duct Seam Mastic	Grey	60% Carbonate 40% Vinyl Binder
Total Asbestos	**None Detected**			
437094-058 58	Bldg 8501 SF3 Hot Water Run Roof	Pipe Insulation and Wrap	Yellow White Silver	97% Glass Fibers 3% Paint
Total Asbestos	**None Detected**			
437094-059 59	Bldg 8501 SF3 Hot Water Pipe End Roof	Pipe Insulation and Wrap	Yellow	100% Glass Fibers
Total Asbestos	**None Detected**			

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Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
437094-060 60	Bldg 8501 Chill H2O Elbow SF3 Roof	Pipe Insulation and Wrap	Yellow	100% Glass Fibers
Total Asbestos	**None Detected**			
437094-061 61	Bldg 8501 SF3 Roof	Duct Seam Mastic	Grey	60% Carbonate 40% Vinyl Binder
Total Asbestos	**None Detected**			
437094-062 62	Bldg 8501 Chill Water Valve SF4	Pipe Insulation and Wrap	Yellow White	60% Carbonate 15% Glass Fibers 5% Paint
Chrysotile	20 %			
Total Asbestos	**20 %**			
437094-063 63	Bldg 8501 Hot Water Elbow SF4 Roof	Pipe Insulation and Wrap	Black Grey	60% Tar 12% Carbonate 10% Cellulose 3% Paint
Chrysotile	15 %			
Total Asbestos	**15 %**			
437094-064 64	Bldg 8501 Chill Water Run SF4 Roof	Pipe Insulation and Wrap	Yellow White	85% Binder 10% Foil 5% Glass Fibers
Total Asbestos	**None Detected**			

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Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
437094-065 65	Bldg 8501 Hot Water Main for SF3 and SF4 Elbow	Pipe Insulation and Wrap	Black Grey	35% Carbonate 35% Binder 7% Tar 3% Mineral Wool
Chrysotile	20 %			
Total Asbestos	**20 %**			
437094-066 66	Bldg 8501 SF6 Roof	Duct Seam Mastic	Grey White	60% Carbonate 40% Vinyl Binder
Total Asbestos	**None Detected**			
437094-067 67	Bldg 8501 Hot Water Run SF6 Roof	Pipe Insulation and Wrap	Yellow Silver	85% Glass Fibers 12% Cellulose 3% Foil
Total Asbestos	**None Detected**			
437094-068 68	Bldg 8501 Hot Water Elbow SF6 Roof	Pipe Insulation and Wrap	Yellow Silver	85% Glass Fibers 12% Cellulose 3% Foil
Total Asbestos	**None Detected**			
437094-069 69	Bldg 8501 Roof Elevated Distribution Hot Water Supply Run	Pipe Insulation and Wrap	Black Yellow	42% Tar 40% Glass Fibers 15% Cellulose 3% Paint
Total Asbestos	**None Detected**			

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Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
437094-070 70	Bldg 8501 Chill Water Run SF6 Roof	Pipe Insulation and Wrap	Yellow Black Silver	40% Glass Fibers 25% Tar 5% Foil 7% Cellulose 3% Paint
Chrysotile 20 %				
Total Asbestos **20 %**				
437094-071 71	Bldg 8501 Chill Water Elbow SF6 Roof	Pipe Insulation and Wrap	Grey	42% Carbonate 20% Tar 10% Cellulose 10% Glass Fibers 3% Paint
Chrysotile 15 %				
Total Asbestos **15 %**				
437094-072 72	Bldg 8501 Chill Water Stop Strainer for SF6 and SF5	Pipe Insulation and Wrap	Black Grey	42% Carbonate 30% Tar 10% Glass Fibers 3% Paint
Chrysotile 15 %				
Total Asbestos **15 %**				
437094-073 73	Bldg 8501 Roof SF6	Duct Seam Mastic	Black	100% Tar
Total Asbestos	**None Detected**			

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Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
437094-074 74	Bldg 8501 Roof Electrical Pipe for EF5	Mastic	Black	100% Tar
Total Asbestos	**None Detected**			
437094-075 75	Bldg 8501 Roof Drain Pipe for SF6	Mastic	Black	95% Tar 5% Glass Fibers
Total Asbestos	**None Detected**			
437094-076 76	Bldg 8501 Roof Hot Water Elbow for SF5	Pipe Insulation and Wrap	Beige	45% Carbonate 25% Binder 5% Glass Fibers 5% Cellulose
Chrysotile	20 %			
Total Asbestos	**20 %**			
437094-077 77	Bldg 8501 Roof Hot Water Run SF5	Pipe Insulation and Wrap	Black Yellow	50% Tar 5% Foil 25% Glass Fibers 20% Cellulose
Total Asbestos	**None Detected**			
437094-078 78	Bldg 8501 Roof Chill Water 45 Degrees	Pipe Insulation and Wrap	Beige	45% Carbonate 25% Binder 5% Glass Fibers 5% Cellulose
Chrysotile	20 %			
Total Asbestos	**20 %**			

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Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
437094-079 79	Bldg 8501 Roof Hot H2O Elbow SF5 Past Control Valve	Pipe Insulation and Wrap	Yellow	100% Glass Fibers
Total Asbestos	**None Detected**			
437094-080 80	Bldg 8501 Roof Chill H2O Airator SF5	Pipe Insulation and Wrap	Beige	45% Carbonate 25% Binder 5% Glass Fibers 5% Cellulose
Chrysotile	20 %			
Total Asbestos	**20 %**			
437094-081 81	Bldg 8501 Chill H2O Inlet for SF5 Roof	Pipe Insulation and Wrap	Yellow Silver	10% Foil 70% Glass Fibers 20% Cellulose
Total Asbestos	**None Detected**			
437094-082 82	Bldg 8501 Roof Hot H2O Elbow SF1	Pipe Insulation and Wrap	Beige Yellow	45% Carbonate 25% Binder 5% Glass Fibers 5% Cellulose
Chrysotile	20 %			
Total Asbestos	**20 %**			

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Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
437094-083 83	Bldg 8501 Roof Chill H2O Elbow SF1	Pipe Insulation and Wrap	Beige	50% Carbonate 15% Binder 5% Mineral Wool 5% Cellulose
Chrysotile 25 %				
Total Asbestos 25 %				
437094-084 84	Bldg 8501 Roof Chill H2O Run SF1	Pipe Insulation and Wrap	Brown Black	5% Foil 25% Tar 50% Glass Fibers 20% Cellulose
Total Asbestos	**None Detected**			
437094-085 85	Bldg 8501 Roof Chill H2O Elbow Past Control Valve SF1	Pipe Insulation and Wrap	Yellow	100% Glass Fibers
Total Asbestos	**None Detected**			
437094-086 86	Bldg 8501 Roof SF1	Duct Seam Mastic	Grey	100% Binder
Total Asbestos	**None Detected**			
437094-087 87	Bldg 8501 Roof Hot H2O Elbow SF2	Pipe Insulation and Wrap	Beige	45% Carbonate 25% Binder 5% Glass Fibers 5% Cellulose
Chrysotile 20 %				
Total Asbestos 20 %				

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Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
437094-088 88	Bldg 8501 Roof Chill H2O Run SF2	Pipe Insulation and Wrap	Yellow Black	5% Foil 25% Tar 50% Glass Fibers 20% Cellulose
Total Asbestos	**None Detected**			
437094-089 89	Bldg 8501 Roof Chill H2O Elbow SF2	Pipe Insulation and Wrap	Beige Yellow	45% Carbonate 20% Binder 10% Mineral Wool 5% Glass Fibers
Chrysotile	20 %			
Total Asbestos	**20 %**			
437094-090 90	Bldg 8501 Roof Chill H2O Run Past Stop Valve SF2	Pipe Insulation and Wrap	Yellow	20% Cellulose 10% Foil 70% Glass Fibers
Total Asbestos	**None Detected**			
437094-091 91	Bldg 8501 Roof H2O Hot Mud Leg Past Stop Valve SF2	Pipe Insulation and Wrap	Yellow White	85% Glass Fibers 15% Binder
Total Asbestos	**None Detected**			
437094-092 92	Bldg 8501 Roof Hot H2O Elbow SF2 Past Stop Valve	Pipe Insulation and Wrap	Yellow	100% Glass Fibers
Total Asbestos	**None Detected**			

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7271 Garden Grove Blvd., Suite A Garden Grove, CA 92841

MEPT West Hills
Stephanie Singletary
8521 Fallbrook Ave Suite 150
West Hills, CA 91304

Report Number: 437094
Project Number: 40380
Project Name: 8521 Fallbrook Ave Property
Project Location: 8521 Fallbrook Ave
West Hills, 91304

Date Collected: 11/30/2011
Date Received: 11/30/2011
Date Analyzed: 12/1/2011
Date Reported: 12/2/2011

Collected By: Gary Brockway
Claim Number:
PO Number:
Number of Samples: 96

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
437094-093 93	Bldg 8501 Chill Hot Water RiserRoom Chill 10 Inches 45 Degrees	Pipe Insulation and Wrap	Yellow Beige	45% Carbonate 20% Binder 10% Mineral Wool 5% Glass Fibers
Chrysotile 20 %				
Total Asbestos **20 %**				
437094-094 94	Bldg 8501 Chill Hot Water Riser Room Chill 10 Inches Run	Pipe Insulation and Wrap	Yellow Black	10% Tar 15% Cellulose 10% Foil 65% Glass Fibers
Total Asbestos **None Detected**				
437094-095 95	Bldg 8501 Chill Hot Water Riser Room 45 Degrees Offset from Inlet 6 Inches	Pipe Insulation and Wrap	Beige	45% Carbonate 30% Cellulose
Chrysotile 25 %				
Total Asbestos **25 %**				
437094-096 96	Bldg 8501 Chill Hot Water Riser Room 6 Inches Run	Pipe Insulation and Wrap	Yellow Beige	60% Cellulose 40% Glass Fibers
Total Asbestos **None Detected**				

Certificate of Analysis
PLM Asbestos Identification

Tel: 714.899.8900
Free: 888.743.0998
Fax: 714.899.7098
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Bulk sample(s) submitted was (were) analyzed in accordance with the procedure outlined in the US Federal Register 40 CFR 763, Subpart F, Appendix A; EPA-600/R-93/116 (Method for Determination of Asbestos in Building Materials), and EPA-600/M4-82-020 (US EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples).Samples were analyzed using Calibrated Visual Estimations (CVES); therefore, results may not be reliable for samples of low asbestos concentration levels. Samples of wall systems containing discrete and separable layers are analyzed separately and reported as composite unless specifically requested by the customer to report analytical results for individual layers. This report applies only to the items tested. Results are representative of the samples submitted and may not represent the entire material from which the samples were collected. "None Detected" means that no asbestos was observed in the sample. "<1%" (less than one percent) means that asbestos was observed in the sample but the concentration is below the quantifiable level of 1%.

Lyn Terry - Analyst

Ian Reyes - Approved By

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437094

PATRIOT

FIELD BULK SAMPLE COC

REQUESTED LAB TAT:

PROJECT NAME: 8521 Fallbrook Ave. Property

PROJECT ADDRESS: 8521 Fallbrook Ave., West Hills CITY: ZIP: 91304

PROJECT NUMBER: 40380 MH

Sample ID	Sample Location	Material Type	F	N F	Condition	Notes
1	Bldg 8413, Mechan Room, Chill Water Return Bypass	Pipe insulation and Wrap		X	Good	
2	Bldg 8413, Mechanical RM Chilled Water Supply Run	↓		X	↓	
3	Bldg 8413, Mechan Room, Chilled Water Return Run	↓		X	↓	
4	Bldg 8413, Mechan Room Chilled Water Supply Valve	↓		X	↓	
5	Bldg 8413, Temporary Storage, Hot Water Supply Pipe T	↓		X	↓	
6	Bldg 8413, 3rd Floor, Hot Water Supply Run	↓		X	Damaged	
7	Bldg 8407, Chille Water 2nd Supply Pipe T, Mechan RM, Floor	↓		X	Good	
8	Bldg 8407, 2nd Floor Roof, Abandoned Hot Water Elbow	↓		X	Damaged	
9	Bldg 8407, 2nd Floor Roof, Chilled Water Elbow, After hrs. Unit	↓		X	↓	
10	Bldg 8407, 2nd Floor Roof Hot Water Line Run, White	↓		X	↓	
11	Bldg 8407, 2nd Floor Mech Roof Chilled Water Stop	↓		X	Good	
12	Bldg 8407, 1st Floor, Mech RM Chilled Water Supply Run	↓		X	↓	
13	Bldg 8407, 1st Floor AHR Chilled Water Supply Valve	↓		X	↓	
14	Bldg 8531 Roof, Chilled Water Supply Run	↓		X	Good	
15	Bldg 8531, Roof, Hot Water supply run AH4			X		
16	Bldg 8531, Roof, Chilled Water line to supplemental AH			X		
17	Bldg 8531, Roof, Chilled Water Line to AH3	↓		X		
18	Bldg 8521 Roof, Chilled Water Run to AH-1	↓		X	↓	
19	Bldg 8521, Roof, Chilled H_2O Return AH-1	↓		X		NLV 30 2:55PM
20	Bldg 8521, Roof, Drain Pipe for AH-1	Black Mastic		X	↓	
21	Bldg 8521, Roof, Chilled Water Stop SF-3	Pipe, insulation and Wrap		X	Damaged	
22	Bldg 8521, Roof Chilled Water Elbow SF-3	↓		X		
23	Bldg 8521, Roof, Hot Water Elbow SF-3	↓		X	↓	
24	Bldg 8521, Roof, Chilled Water Elbow SF-3	↓		X	↓	

Samples relinquished by: _____ Date/Time: 11-30-11

Samples received by: _____ Date/Time: 11/30 @ 3:30

7271 Garden Grove Blvd. Suite A, Garden Grove, CA 92841 Tel: 888/743-0998 Tel: 714/899/8900 Fax: 714/899-7098

437094

PATRIOT

FIELD BULK SAMPLE COC

REQUESTED LAB TAT:

PROJECT NAME: 8521 Fallbrook Ave. Property

PROJECT ADDRESS: 8521 Fallbrook Ave., West Hills CITY: ZIP: 91304

PROJECT NUMBER: 40380 MH

Sample ID	Sample Location	Material Type	F	N F	Condition	Notes
25	Bldg 8521, Chilled Water Run SF-3	Pipe Insulation and wrap		F	Damaged	
26	Bldg 8521, Roof, SF-3	Duct Seam Mastic, Gray		N		
27	Bldg 8521, Chilled Water Run SF-4, Roof	Pipe Insulation and Wrap		N		
28	Bldg 8521, Hot Water Run SF-4, Roof			N		
29	Bldg 8521, Hot Water Elbow SF-4 Roof			N		
30	Bldg 8521, Chilled Water Strainer, Roof SF-4			N		
31	Bldg 8521, Hot Water Strainer Roof SF-4, Roof			N		
32	Bldg 8521, SF-4, Roof	Duct Seam Mastic Gray		N		
33	Bldg 8521, Chilled H_2O Elbow, SF-4, Roof	Pipe Insulation and Wrap		N		
34	Bldg 8521, Hot Water Elbow, SF-4 Roof			N		
35	Bldg 8521, Chill H_2O Elbow SF-5, Roof			N		
36	Bldg 8521, Chill H_2O Run, SF-5 Roof			N		
37	Bldg 8521, Chill Water Elbow, SF-5, Roof			N		
38	Bldg 8521, Hot Water Strainer, SF-5, Roof			N		
39	Bldg 8521, Hot Water Elbow, SF-5, Roof			N		
40	Bldg 8521, Hot Water Run, SF-5 Roof			N		
41	Bldg 8521, Cold Water Elbow, SF-5, Roof			N		
42	Bldg 8521, Hot Water Run, SF-5, Roof			N		
43	Bldg 8521, Hot Water Run, SF-5, Roof			N		
44	Bldg 8521, SF-5, Roof	Duct Seam Mastic, Gray		N	Good	
45	Bldg 8521, SF-6, Blow Down Pipe Roof	Black Mastic		N		
46	Bldg 8521, Chill Water Run, SF-1, Roof	Pipe Insulation and Wrap		N	Damaged	
47	Bldg 8521, Chill Water Elbow, SF-1, Roof			N		
48	Bldg 8521, Hot Water Elbow, SF-1, Roof					

Samples relinquished by: _____ Date/Time: 11-30-11

Samples received by: _____ Date/Time: 11/30 @3:30

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437094

PATRIOT

FIELD BULK SAMPLE COC

REQUESTED LAB TAT:

PROJECT NAME: 8521 Fallbrook Ave. Property

PROJECT ADDRESS: 8521 Fallbrook Ave., West Hills

CITY:

ZIP: 91304

PROJECT NUMBER: 40380

MH

Sample ID	Sample Location	Material Type	F	N F	Condition	Notes
49	Bldg 8521, Chill Water Check Valve, SF-2, Roof	Pipe insulation and wrap		X	Damaged	
50	Bldg 8521, Hot Water Run, SF-2, Roof	↓		X	↓	
51	Bldg 8521, SF-2 Roof	Duct Seam Mastic Gray		X	Good	
52	Bldg 8521, SF-2, Expansion Tank Pipe	Black Mastic		X	↓	
53	Bldg 8521, Expansion Tank Pipe Elbow by SF-2	Pipe insulation and wrap		X	Damaged	
54	Bldg 8521, Expansion Tank Run by SF-2, Roof	↓		X	↓	
55	Bldg 8501, Chilled Water Run AH-1, Roof	↓		X	↓	
56	Bldg 8501, Chilled Water Elbow, AH-1, Roof	↓		X	Good	
57	Bldg 8501, AH-1, Roof	Duct Seam Mastic, Gray		X	↓	
58	Bldg 8501, SF-3, Hot Water Run, Roof	Pipe insulation and wrap		X	Damaged	
59	Bldg 8501, SF-3, Hot Water Pipe End, Roof	↓		X	Good	
60	Bldg 8501, ~~Hot~~ Chill H2O Elbow, SF-3, Roof	↓		X	Damaged	
61	Bldg 8501, SF-3, Roof	Duct Seam Mastic, Gray		X	Good	
62	Bldg 8501, Chill Water Valve, SF-4	Pipe Insulation and Wrap		X	Damaged	
63	Bldg 8501, Hot Water Elbow, SF-4, Roof	↓		X	↓	
64	Bldg 8501, Chill Water Run SF-4, Roof	↓		X	Good	
65	Bldg 8501 Hot Water Main for SF-3 and SF-4, Elbow	↓		X	Good	
66	Bldg 8501, SF-6, Roof	Duct Seam Mastic, Gray		X	Good	
67	Bldg 8501, Hot Water Run SF-6, Roof	Pipe Insulation and wrap		X	↓	
68	Bldg 8501, Hot Water Elbow SF-6, Roof	↓		X	↓	
69	Bldg 8501, Roof, Elevated Distribution Hot Water Supply Run	↓		X	Good	
70	Bldg 8501, Chill Water Run SF-6, Roof	↓		X	↓	
71	Bldg 8501, Chill Water Elbow, SF-6, Roof	↓		X	↓	
72	Bldg 8501, Chill Water Strainer for SF-6 and SF-5	↓		X	↓	

Samples relinquished by: _____ Date/Time: 11-30-11

Samples received by: _____ Date/Time: 11/30 @ 3:30

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437094

PATRIOT

FIELD BULK SAMPLE COC

REQUESTED LAB TAT:

PROJECT NAME: 8521 Fallbrook Ave. Property

PROJECT ADDRESS: 8521 Fallbrook Ave, West Hills CITY: ZIP: 91304

PROJECT NUMBER: 40380 MH

Sample ID	Sample Location	Material Type	F	NF	Condition	Notes
73	Bldg 8501, Roof, SF-6	Duct Seam Mastic Gray		✓	Good	
74	Bldg 8501, Roof, Electrical Pipe for EF-5	Black Mastic		✓	↓	
75	Bldg 8501, Roof, Drain Pipe for SF-6	↓		✓	↓	
76	Bldg 8501, Roof, Hot Water Elbow for SF-5	Pipe Insulation and Wrap		✓	Damaged	
77	Bldg 8501, Roof, Hot Water Run SF-5			✓	Good	
78	Bldg 8501, Roof, Chill Water 45°			✓	Damaged	
79	Bldg 8501, Roof, Hot H_2O Elbow, SF-5, Past Control Valve			✓	Good	
80	Bldg 8501, Roof, Chill H_2O Airator, SF-5			✓	↓	
81	Bldg 8501, Chill H_2O Inlet for SF-5, Roof			✓		
82	Bldg 8501, Roof, Hot H_2O Elbow, SF-1			✓		
83	Bldg 8501, Roof, Chill H_2O Elbow, SF-1			✓	↓	
84	Bldg 8501, Roof, Chill H_2O Run, SF-1			✓	Good	
85	Bldg 8501, Roof, Chill H_2O Elbow Past Control Valve, SF-1			✓	Good	
86	Bldg 8501, Roof, SF-1	Duct Seam Mastic, Gray		✓	Good	
87	Bldg 8501, Roof, Hot H_2O Elbow, SF-2	Pipe Insulation and Wrap		✓	Damaged	
88	Bldg 8501, Roof, Chill H_2O Run, SF-2			✓	Good	
89	Bldg 8501, Roof, Chill H_2O Elbow SF-2			✓	Damaged	
90	Bldg 8501, Roof, Chill H_2O Run Past Stop Valve, SF-2			✓	Good	
91	Bldg 8501, Roof, H_2O Hot Mixed Leg Past Stop Valve, SF-2			✓		
92	Bldg 8501, Roof, Hot H_2O Elbow, SF-2, Past Stop Valve			✓	↓	
93	Bldg 8501, Chill/Hot Water Riser RM, Chill 10" 45°			✓		
94	Bldg 8501, Chill/Hot Water Riser Room, Chill 10" Run			✓		
95	Bldg 8501 Chill/Hot Water Riser Room, 45° offset from inlet, 6"			✓		
96	Bldg 8501 Chill/Hot Water Riser Room 6" Run			✓	↓	

Samples relinquished by: [signature] Date/Time: 11-30-11

Samples received by: [signature] Date/Time: 11/30 @ 3:30

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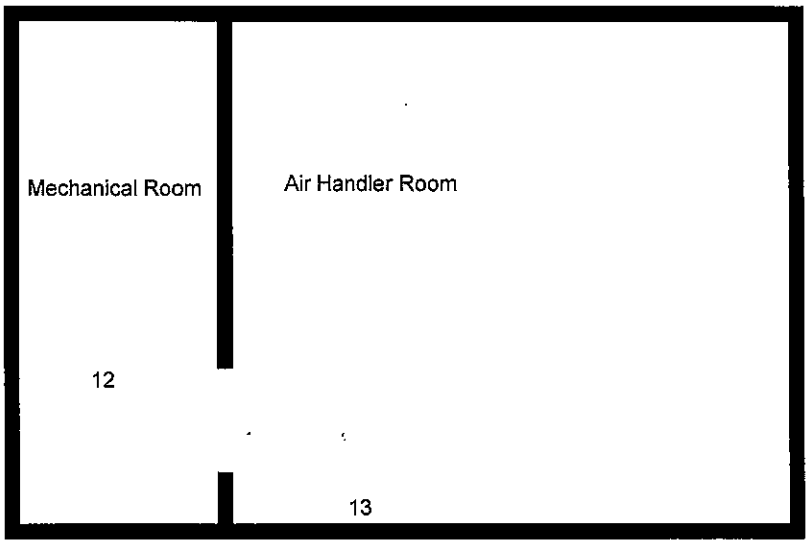
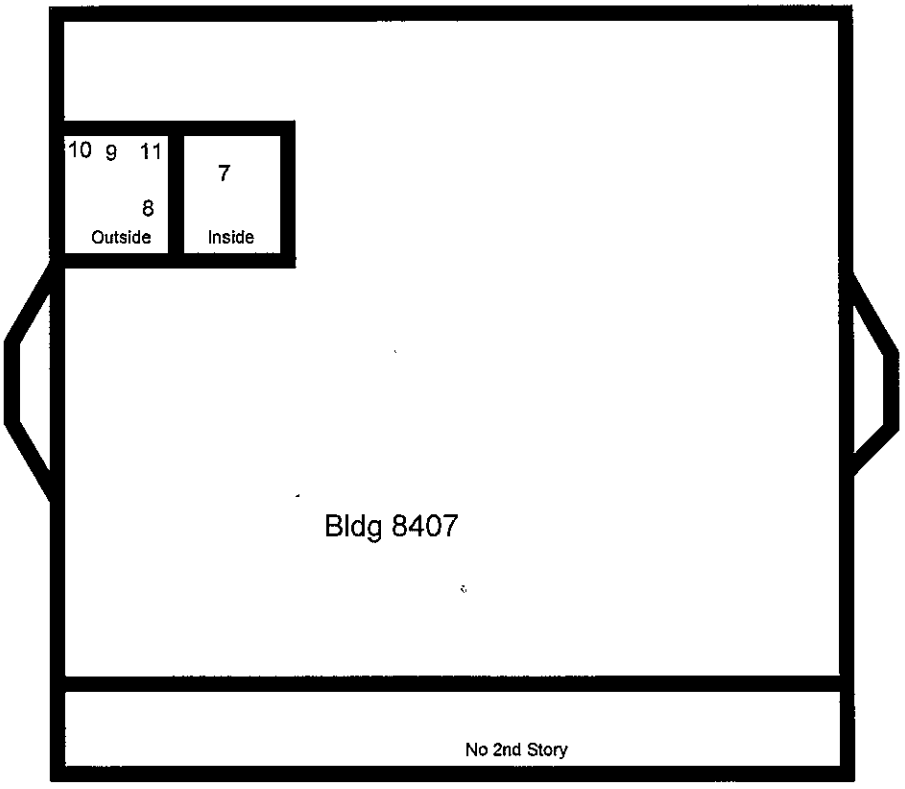
8521 Fallbrook Ave Property
8521 Fallbrook Ave
West Hills, CA 91304

Project No: 40380

1st Story

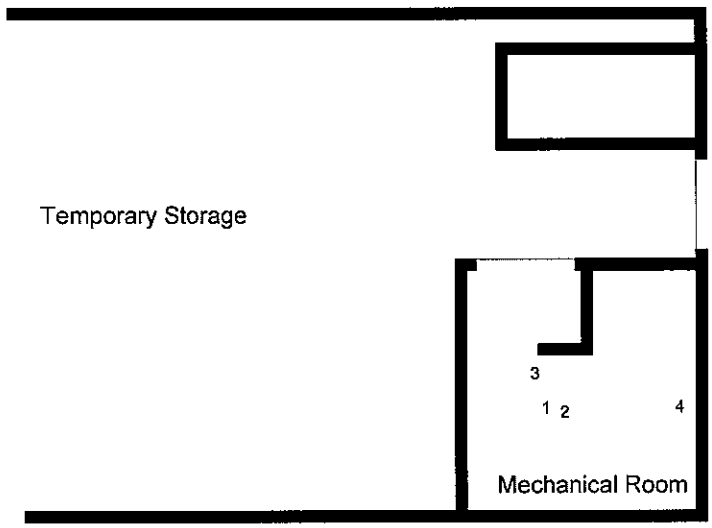


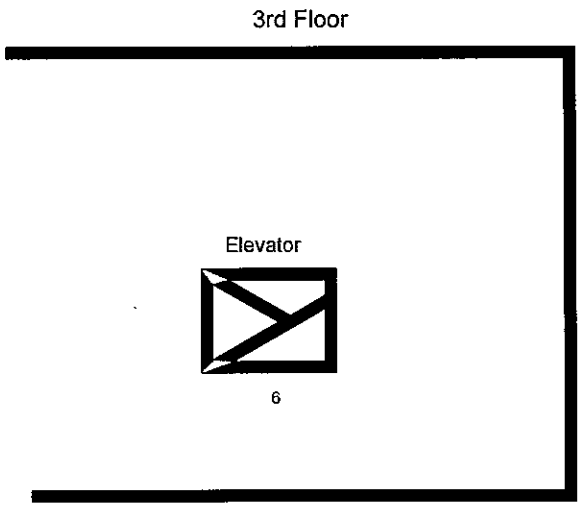
2nd Story



8521 Fallbrook Ave Property
8521 Fallbrook Ave
West Hills, CA 91304

Project No: 40380

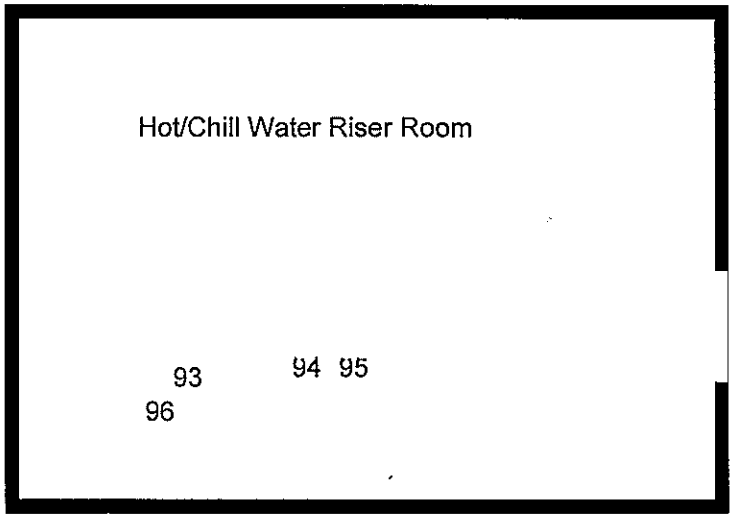


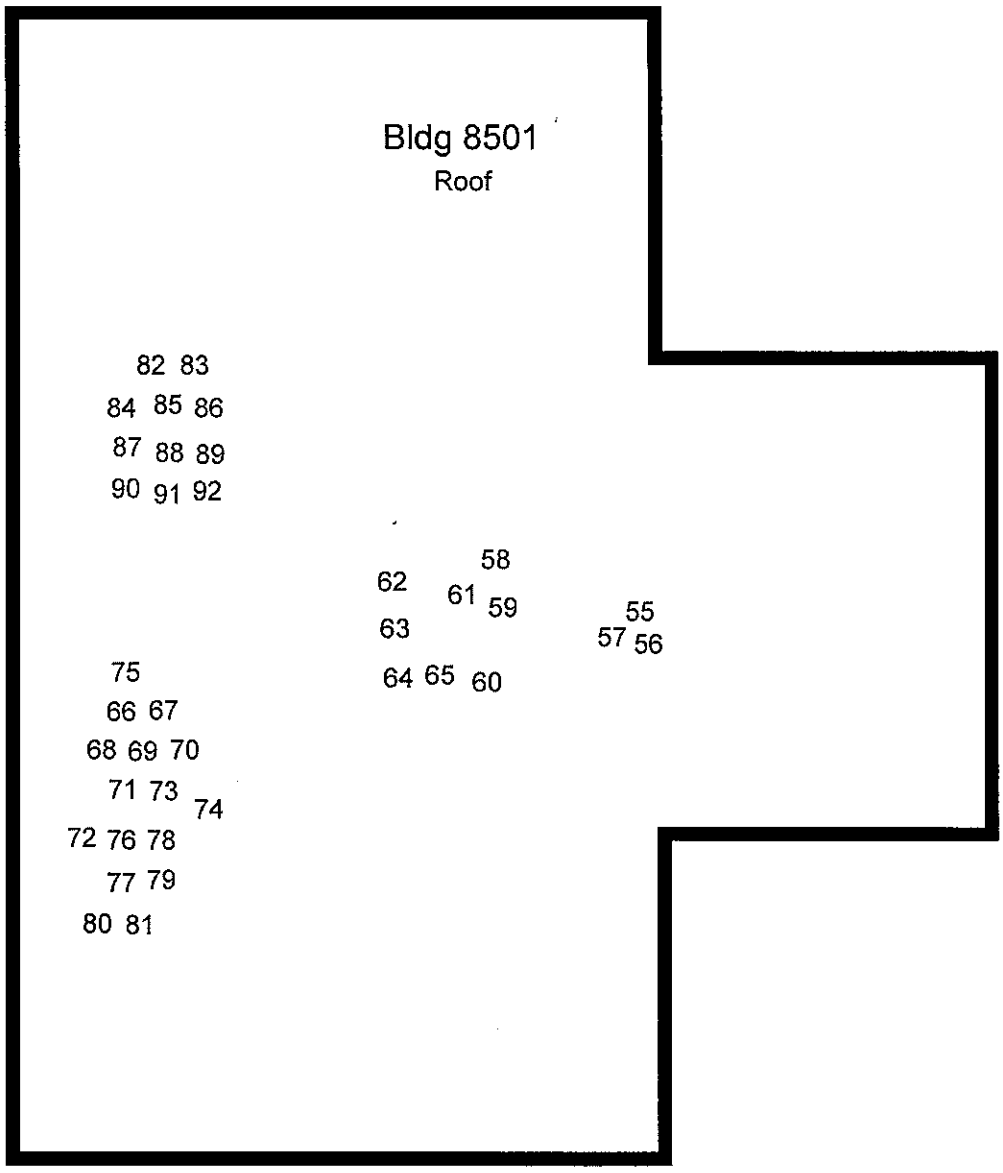


8521 Fallbrook Ave Property
8521 Fallbrook Ave
West Hills, CA 91304

Project No: 40380

1st Floor

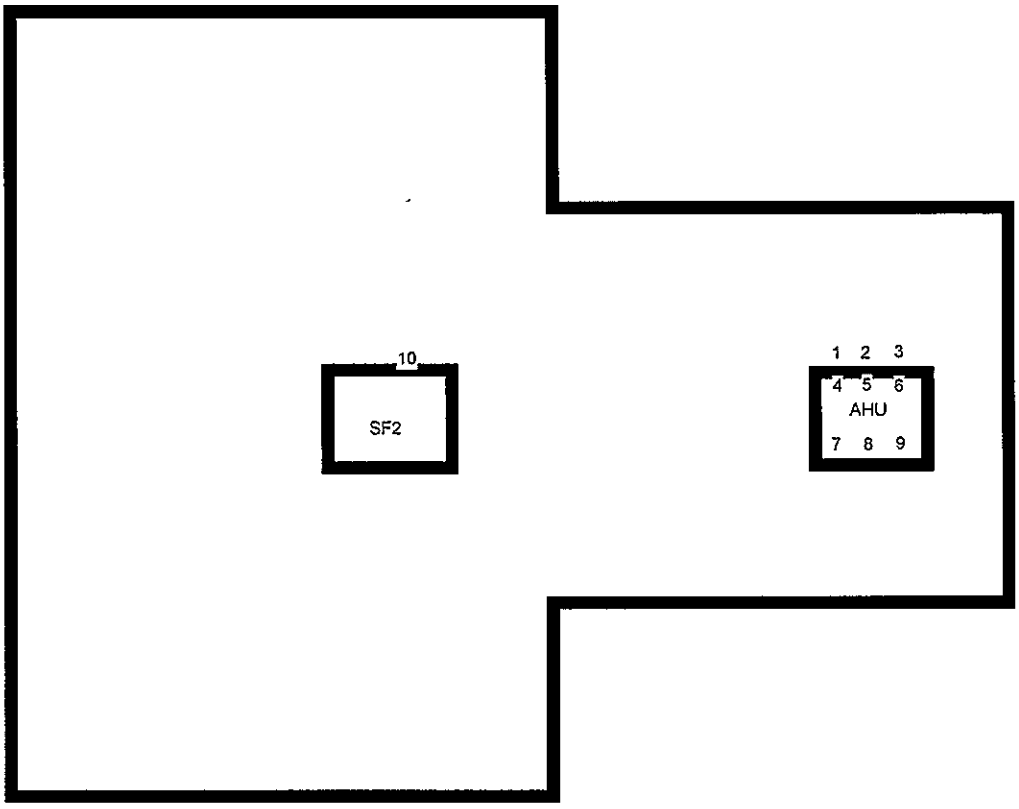




8521 Fallbrook Ave Property
8521 Fallbrook Ave
West Hills, CA 91304

Project No: 40380

Bldg 8501- Samples 11.16.11



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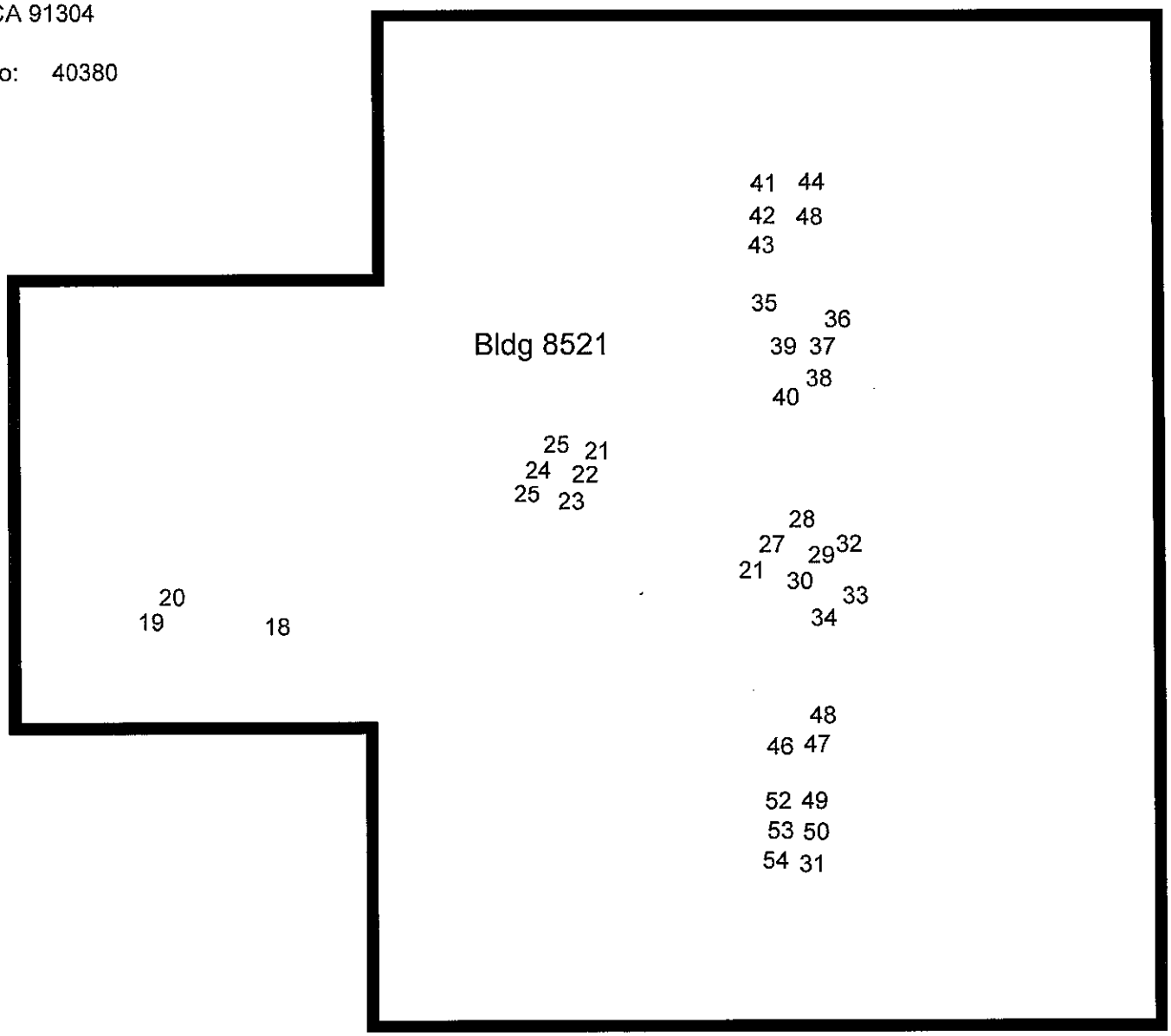
West Hills, CA 91304

Project No: 40380



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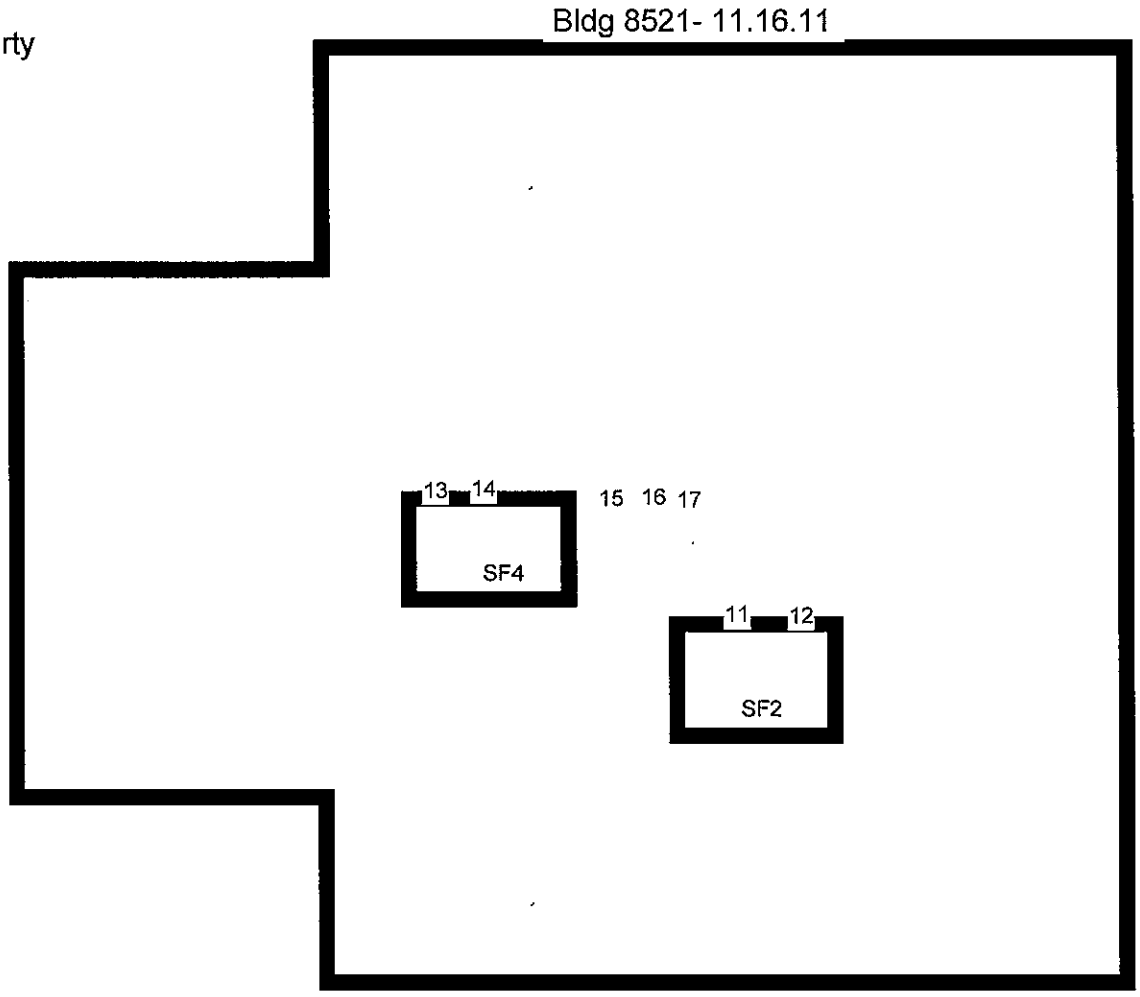
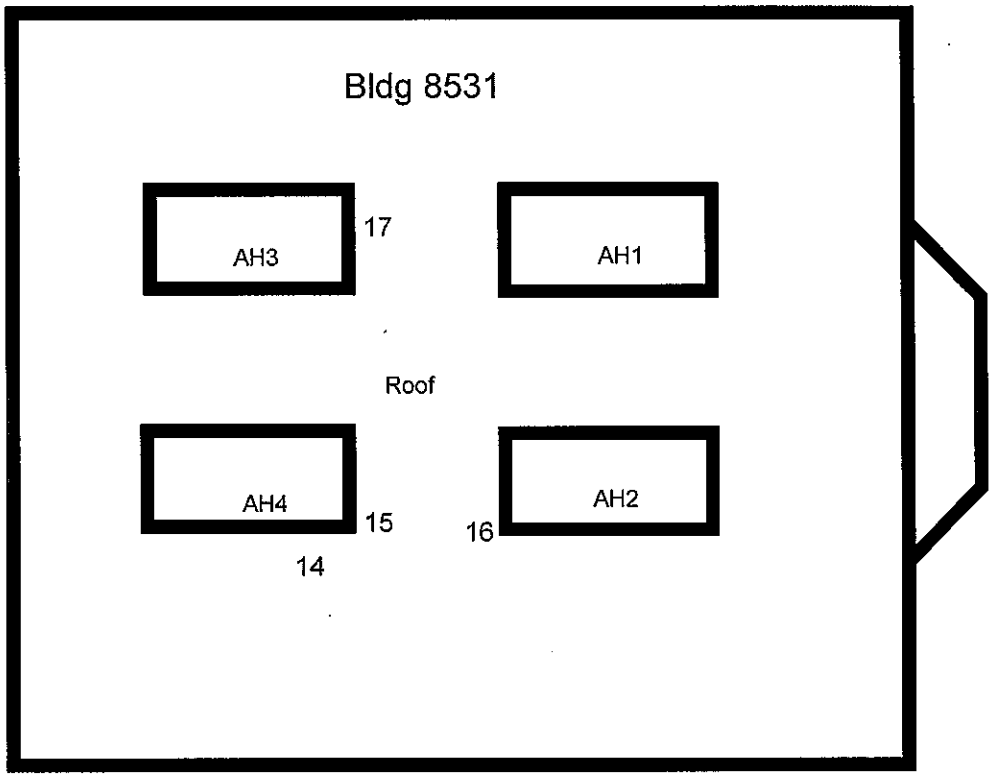
Project No: 40380



8521 Fallbrook Ave Property
8521 Fallbrook Ave
West Hills, CA 91304

Project No: 40380



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Drive, Diamond Bar, CA 91765

Permit No.
G15984
A/N 527171

PERMIT TO OPERATE

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership.
If the billing for the annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

ID 169046

Legal Owner
or Operator: MEPT WEST HILLS, LLC
8521 FALLBROOK AVE
WEST HILLS, CA 91304

RECEIVED
MAR 19 2012
By

Equipment Location: 8531 FALLBROOK AVE, WEST HILLS, CA 91304

Equipment Description :

INTERNAL COMBUSTION ENGINE, JOHN DEERE, MODEL NO. 6068T (123 KW), SERIAL NO. TD6068T820014, 165 BHP, DIESEL-FUELED, NON-ROAD, 6 CYLINDERS, FOUR CYCLES, TURBOCHARGED, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

Conditions :

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.

3. THIS ENGINE SHALL NOT OPERATE MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 50 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.

4. THE OPERATION OF THE ENGINE BEYOND THE 50 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.

5. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.

6. THIS ENGINE SHALL NOT BE USED AS PART OF A DEMAND RESPONSE PROGRAM USING INTERRUPTIBLE SERVICE CONTRACT IN WHICH A FACILITY RECEIVES A PAYMENT OR REDUCED RATES IN RETURN FOR REDUCING ITS ELECTRIC LOAD ON THE GRID WHEN REQUESTED TO SO BY THE UTILITY OR THE GRID OPERATOR.

ORIGINAL

500 Gallon Fuel Tank

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Drive, Diamond Bar, CA 91765

Permit No.
G15983
A/N 527173

PERMIT TO OPERATE

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership.
If the billing for the annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

ID 169048

Legal Owner
or Operator: MEPT WEST HILLS, LLC
8521 FALLBROOK AVE
WEST HILLS, CA 91304

RECEIVED
MAR 19 2012
By

Equipment Location: 8511 FALLBROOK AVE, WEST HILLS, CA 91304

Equipment Description :

INTERNAL COMBUSTION ENGINE, DETROIT DIESEL, 6 CYLINDERS, TURBOCHARGED, AFTERCOOLED, MODEL NO. 6063-TK35 (310 KW), SERIAL NO. 101173, 415 BHP, DIESEL-FUELED, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

Conditions :

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
3. A TIMER SHALL BE MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
4. THE OPERATING TIME OF THIS ENGINE SHALL NOT EXCEED 199 HOURS IN ANY ONE YEAR.
5. AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION, THE ELAPSED TIME IN HOURS, AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF TWO YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
6. SULFUR CONTENT OF FUEL SUPPLIED TO THE ENGINE SHALL NOT EXCEED 0.05% BY WEIGHT.

ORIGINAL

250 Gallon Fuel Tank

ENHANCED *IN SITU* BIOREMEDIATION AND *IN SITU* CHEMICAL REDUCTION PROGRESS REPORT THIRD QUARTER 2012

Former Canoga Park Facility
8433 Fallbrook Avenue
Canoga Park, California

Waste Discharge Requirement
Permit No. R4-2007-0019 (Series No. 092)
Monitoring and Reporting Program No. CI-8947

November 15, 2012

Prepared for:
Information Technology Unit
Los Angeles Regional Water Quality Control Board
320 W. 4th Street, Suite 200
Los Angeles, California 90013

Prepared by:

317 E. Main Street
Ventura, California 93001
805.585.2110

Project No. 2009025

ENHANCED *IN SITU* BIOREMEDIATION AND *IN SITU* CHEMICAL REDUCTION PROGRESS REPORT THIRD QUARTER 2012

Former Canoga Park Facility
8433 Fallbrook Avenue
Canoga Park, California

Waste Discharge Requirement
Permit No. R4-2007-0019 (Series No. 092)
Monitoring and Reporting Program No. CI-8947

November 15, 2012

Prepared for:
Information Technology Unit
Los Angeles Regional Water Quality Control Board
320 W. 4th Street, Suite 200
Los Angeles, California 90013

OTIE
Oneida Total Integrated Enterprises
317 E. Main Street
Ventura, California 93001

Project No. 2009025

Prepared by:

Kim Sawyer, PG
Senior Geologist

Reviewed by:

PROFESSIONAL GEOLOGIST
JACQUES MARCILLAC No. 902 CERTIFIED HYDROGEOLOGIST
STATE OF CALIFORNIA

Jacques Marcillac, CHG
Project Manager

EXECUTIVE SUMMARY

On behalf of Raytheon Company (Raytheon), Oneida Total Integrated Enterprises, LLC (OTIE) has prepared this Enhanced *In Situ* Bioremediation (EISB) and *In Situ* Chemical Reduction (ISCR) Progress Report for the Third Quarter of 2012 to document the progress of the EISB and ISCR programs implemented to treat groundwater and saturated soil that contain chlorinated ethenes and hexavalent chromium [Cr(VI)], at the Former Canoga Park Facility (the Site) located at 8433 Fallbrook Avenue in Canoga Park, California (Figure 1). This report was prepared in accordance with the Waste Discharge Requirements (WDR) Order No. R4-2007-0019 (Series No. 092) and the Monitoring and Reporting Program (M&RP) No. CI-8947 issued by the Los Angeles Regional Water Quality Control Board (LARWQCB).

The Site operated as an industrial park from 1959 through 1994, and chemical use and storage activities on site likely caused impacts to soil and groundwater. The chemical of concern (COC) in groundwater at the Site is 1,1-dichloroethene (1,1-DCE) as defined in the Corrective Action Plan (CAP) (Hughes Missile Systems Company [Hughes], 1992). The groundwater impacts are generally limited to the upper 25 feet of shallow groundwater in the northwest portion of the Site, which occurs from 25 to 50 feet below ground surface. One additional area of impacted shallow groundwater at the Site is a small isolated area with hexavalent chromium [Cr(VI)] in groundwater underlying a Former Hazardous Waste Storage Area (HWSA), which was also located in the northern portion of the site.

A groundwater remediation program has been underway at the Site since 1995 to progress towards achieving cleanup criteria established in the CAP for the Site (60 micrograms per liter [µg/L] for 1,1-DCE). The LARWQCB is the lead oversight agency for the remediation activities at the Site (LARWQCB File No. 94-45). Remediation techniques used at the Site have included remedial excavation, a groundwater recovery and treatment system, a soil vapor extraction system, and an air sparge system. In May 2002, the LARWQCB approved an EISB pilot test as proposed in CAP Addendum #1 (T N & Associates, Inc.[TN&A], 2002) to evaluate the ability of EISB to reduce chlorinated ethenes in saturated soil and groundwater to below CAP goals. Based on the successful results of the pilot test, the full application of EISB was implemented in 2005 by injecting an emulsified soybean oil mixture into the groundwater per CAP Addendum #2 (TN&A, 2005). The full-scale EISB activities at the Site were divided into three phases. Phases I and II refer to October 2005 and May 2006 injection activities in the vicinity of Former Tank T3 area and a downgradient area west of Former Tank T3, respectively. Phase III, refers to a separate treatment area in the eastern portion of the Site where injections were completed in December 2006.

Once the effects of Phases I through III were properly evaluated, CAP Addendum #3 (TN&A, 2008b) was prepared, which proposed additional EISB activities as well as voluntarily addressing the Cr(VI) concentrations in residual soil and groundwater at the Former HWSA. ISCR technology was proposed for the treatment of Cr(VI), which involved the injection of calcium polysulfide into the groundwater. The approval and permitting process for CAP Addendum #3 was completed in September 2009.

The CAP Addendum #3 activities are also being completed in phases, referenced as Phases IV, V, VI and VII, with injections in separate areas followed by a comprehensive groundwater

monitoring program for each phase. The objective of the CAP Addendum #3 EISB program is to accelerate the degradation of 1,1-DCE to concentrations below the cleanup goal of 60 µg/L. The objective of the ISCR activities is to reduce the Cr(VI) in groundwater to the less mobile and much less toxic form, trivalent chromium [Cr(III)]. As there is no promulgated maximum contaminant level (MCL) specific to Cr(VI) in groundwater, the cleanup target level is 50 µg/L, which is the MCL for total chromium [the total of Cr(III) and Cr(VI)]. The following summarizes the CAP Addendum #3 activities through the Third Quarter of 2012.

PHASE IV EISB SUMMARY – NORTHWEST AREA

In October 2009, the Phase IV EISB injections were implemented in the "Northwest Area" of the Site. A total of four remedial progress monitoring (RPM) wells were included in the M&RP for CI-8947, and eight post-injection monitoring events have been completed since the injections. No EISB-related activities were performed in the Northwest Area during the third quarter of 2012.

The next scheduled EISB monitoring event (month #36) for the Northwest Area will be in December 2012, concurrent with the second semiannual 2012 event per the M&RP.

PHASE V ISCR SUMMARY – FORMER HWSA

In June 2010, the Phase V ISCR injections were implemented in the former HWSA. A total of six RPM wells were included in the M&RP for CI-8947 and seven post-injection monitoring events have been completed. No ISCR-related activities were performed at the Former HWSA during the third quarter of 2012.

The next sampling event, month #30 for Phase V, will be in December 2012, concurrent with the second semiannual 2012 event per the M&RP.

PHASE VI EISB SUMMARY – FORMER BLDG 269 AREA

In May 2011, the Phase VI EISB injections were implemented in the Former Bldg 269 Area of the Site. A total of three RPM wells were included in the M&RP for CI-8947 and five post-injection monitoring events have been completed since the injections. No EISB-related activities were performed in the Former Bldg 269 Area during the third quarter of 2012.

The next sampling event, month #30 for Phase V, will be in December 2012, concurrent with the second semiannual 2012 event per the M&RP.

PHASE VII EISB SUMMARY – FORMER TANK T3 AREA

In September 2012, the Phase VII EISB injections were implemented in the Former Tank T3 Area of the Site. A total of three RPM wells were included in the M&RP for CI-8947 and one monitoring event was completed prior to the injections. EISB-related activities performed at the Former Tank T3 Area during the third quarter of 2012 are summarized below:

- Injection wells (IP-02 through IP-06) were installed and developed in September 2012.

- The baseline groundwater sampling event was conducted prior to the start of the injections in accordance with the M&RP. Groundwater levels were gauged and samples collected on September 18, 2012.
- Static depth to water measurements were 25.62 feet btoc (RW-11) and 27.82 feet btoc (RW-14) on September 18, 2012.
- TCE was detected in upgradient well RW-15 at a concentration of 7.7 µg/L and in treatment are well RW-14 at 2.8 µg/L.
- 1,1-DCE concentrations were ranged from 41 µg/L (upgradient RW-15) to 190 µg/L at well RW-14 in the treatment area.
- VC was detected in injection area well RW-14 at a concentration of 54 µg/L. The VC concentrations are an intermediate daughter product, resulting from the EISB dechlorination process and are anticipated to eventually dissipate as further treatment is completed.
- VFAs were not detected in any well during the baseline event.
- Methane was detected in all three RPM wells at concentrations ranging from 17 µg/L in well RW-11 to 465 µg/L in well RW-14.
- CO_2 concentrations ranged from 35.3 mg/L (well RW-15) to 59.3 mg/L (well RW-14).
- No ethane or ethene was detected in RPM wells above the reporting limit of 1.0 µg/L during the baseline.
- Subsurface injections of emulsified vegetable oil (EVO) were performed using a portable injection system between September 24 and 27, 2012.
- A combined total of 550 gallons of EVO substrate and 10,840 gallons of treated groundwater were injected in the Former Tank T3 area via the five new injection wells and two sparge wells in September 2012.

The month #1 and month #3 RPM sampling events for Phase VII are scheduled for October and December 2012, respectively. The December event will be conducted concurrent with the second semiannual 2012 groundwater monitoring event per the M&RP.

Results for the December 2012 remedial progress sampling events for all four phases (IV, V, VI, and VII) will be reported in the Fourth Quarter 2012 and 2012 Annual EISB/ISCR summary report to be submitted by February 15, 2013.

TABLE OF CONTENTS

1.0 INTRODUCTION 1
1.1 SITE OWNERSHIP AND REDEVELOPMENT HISTORY 1
1.2 REMEDIATION OVERVIEW 2

2.0 *IN SITU* REMEDIATION ACTIVITIES 4
2.1 PROJECT TREATMENT AREAS 4
2.2 EISB - PHASE IV – NORTHWEST AREA 5
2.3 ISCR - PHASE V – FORMER HWSA 5
2.4 EISB - PHASE VI – FORMER BLDG 269 AREA 5
2.5 EISB - PHASE VII – FORMER TANK T3 AREA 6
2.5.1 Substrate Selection and Dosage 6
2.5.2 Substrate Delivery Program 6

3.0 REMEDIAL PROGRESS MONITORING PROGRAM 7
3.1 EISB PHASE IV MONITORING PROGRAM - NORTHWEST AREA 7
3.2 ISCR PHASE V MONITORING PROGRAM – FORMER HWSA 7
3.3 EISB PHASE VI MONITORING PROGRAM – FORMER BLDG 269 AREA 8
3.4 EISB PHASE VII MONITORING PROGRAM – FORMER TANK T3 AREA 8
3.5 GROUNDWATER GAUGING ACTIVITIES 9
3.6 GROUNDWATER PURGING AND SAMPLING ACTIVITIES 9

4.0 REMEDIAL PROGRESS RESULTS 10
4.1 PHASE IV – NORTHWEST AREA 10
4.2 PHASE V – FORMER HWSA 10
4.3 PHASE VI – FORMER BLDG 269 AREA 10
4.4 PHASE VII – FORMER TANK T3 AREA 10
4.4.1 Baseline Sampling Event 10
4.4.2 Groundwater Gauging Results 10
4.4.3 Groundwater Monitoring Results 11
4.4.4 Groundwater Monitoring Results, Baseline 11

5.0 QA/QC SAMPLE RESULTS 12

6.0 WASTE MANAGEMENT 13

7.0 SUMMARY 14
7.1 PHASE IV EISB SUMMARY – NORTHWEST AREA 14
7.2 PHASE V ISCR SUMMARY – FORMER HWSA 14
7.3 PHASE VI EISB SUMMARY – FORMER BLDG 269 AREA 14
7.4 PHASE VII EISB – FORMER TANK T3 AREA 14

8.0 REFERENCES 16

FIGURES

Figure 1 Site Vicinity Map

Figure 2 Site Plan Showing Remedial Treatment Areas in Northern Portion of Site

Figure 3 Site Plan Showing Groundwater Gradient – May 29, 2012

Figure 4 Selected Groundwater Monitoring Results – Former Tank T3 Area

Figure 5 Selected Geochemical Parameters – Former Tank T3 Area

TABLES

Table 1 EISB/ISCR Program Overview

Table 2 Well Construction and Survey Data

Table 3 EISB Phase VII Substrate Injection Data - Former Tank T3 Area

Table 4 Selected Groundwater Monitoring Results – Former Tank T3 Area

APPENDICES (on CD-ROM)

Appendix A Well Installation Memo

Appendix B Historical Select Analytical Results

Appendix C Purge Logs and Field Forms

Appendix D Laboratory Reports

Appendix E Raytheon Company, Certification Statement Letter

ACRONYMS AND ABBREVIATIONS

1,1-DCA	1,1-dichloroethane
1,1-DCE	1,1-dichloroethene
1,2-DCA	1,2-dichloroethane
AS	air sparge
Bldg	building
btoc	below top of casing
cis-1,2-DCE	*cis*-1,2-dichloroethene
CAP	Corrective Action Plan
CO_2	carbon dioxide
COC	chemicals of concern
Cr(III)	trivalent chromium
Cr(VI)	hexavalent chromium
DO	dissolved oxygen
DTSC	Department of Toxic Substances Control
EISB	enhanced *in situ* bioremediation
EVO	emulsified vegetable oil
GRTS	groundwater recovery and treatment system
Hughes	Hughes Missile Systems Company
HWSA	hazardous waste storage area
ISCR	*in situ* chemical reduction
LARWQCB	Los Angeles Regional Water Quality Control Board
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
MCL	maximum contaminant level
µg/L	microgram per liter
mg/L	milligram per liter
M&RP	Monitoring and Reporting Program
MS	matrix spike
MSD	matrix spike duplicate
mV	millivolts
ORP	oxidation-reduction potential
OTIE	Oneida Total Integrated Enterprises, LLC
PCE	tetrachloroethene
PDS	post-digestion spike
PDSD	post-digestion spike duplicate
QA/QC	quality assurance and quality control
Raytheon	Raytheon Company
RPD	relative percent difference
RPM	remedial progress monitoring
SVE	soil vapor extraction
TCE	trichloroethene
TDS	total dissolved solids
TN&A	T N & Associates, Inc.
TOC	total organic carbon
VC	vinyl chloride
VFA	volatile fatty acid
VOC	volatile organic compound
WDR	Waste Discharge Requirements

1.0 INTRODUCTION

On behalf of Raytheon Company (Raytheon), Oneida Total Integrated Enterprises, LLC (OTIE) has prepared this Enhanced *In Situ* Bioremediation (EISB) and *In Situ* Chemical Reduction (ISCR) Progress Report for the Third Quarter of 2012 to document the progress of the EISB and ISCR programs implemented to treat groundwater and saturated soil that contain chlorinated ethenes and hexavalent chromium [Cr(VI)], at the Former Canoga Park Facility (the Site) located at 8433 Fallbrook Avenue in Canoga Park, California (Figure 1). This report was prepared in accordance with the Waste Discharge Requirements (WDR) Order No. R4-2007-0019 (Series No. 092) and the Monitoring and Reporting Program (M&RP) No. CI-8947 issued by the Los Angeles Regional Water Quality Control Board (LARWQCB). The Site Cleanup Program number is 0693, the Site ID number is 2043T00, and the file number is 94-45.

The remedial activities at the former Raytheon Facility are under the coordination of:

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1.1 SITE OWNERSHIP AND REDEVELOPMENT HISTORY

In 1959, the 8433 Fallbrook Avenue property was developed as an industrial park by Bunker-Ramo, an electrical component design and testing company. Bunker-Ramo was the sole occupant of the facility from 1959 until 1966. From 1966 to 1976, Hughes Missile Systems Company (Hughes) was a co-occupant with Rocketdyne, a division of Rockwell International, and Bunker-Ramo. Hughes purchased the entire Site in the mid-1970s and became the sole occupant, operating as an aerospace research and development facility. The former Raytheon Facility was purchased from Hughes by Coast Federal Bank in May 1995. Parcels were subsequently purchased by DeVry and the Los Angeles Metropolitan Police Department. The northern portion of the Site was sold to Regent Properties, Inc. in 1997. Regent Properties, Inc.

sold its portion of the property to Shamrock Holdings, Inc. in 2001, who subsequently, sold the property to MEPT West Hills, LLC in June 2002. MEPT West Hills, LLC is the current property owner; however, CB Richard Ellis is the current property manager and is the primary contact for Site logistical issues. Through a merger with Hughes in 1997, Raytheon assumed management of the environmental investigations and remediation activities at the Site.

1.2 REMEDIATION OVERVIEW

Investigation activities at the Site have been ongoing since 1988 and a groundwater remediation program has been underway at the Site since 1995 to achieve cleanup criteria established in the original Corrective Action Plan (CAP) (Hughes, 1992) for the site-specific chemicals of concern (COCs) which include chlorinated ethenes. Clean up goals for the volatile organic compounds (VOCs) are summarized below:

Chemical of Concern	CAP Goal (micrograms per liter [µg/L])
Tetrachloroethene (PCE)	50
Trichloroethene (TCE)	50
cis-1,2-Dichloroethene (*cis*-1,2-DCE)	60
1,1- Dichloroethene (1,1-DCE)	60
1,1-Dichloroethane (1,1-DCA)	50
1,2-Dichloroethane (1,2-DCA)	5

The LARWQCB is the lead oversight agency for the remediation activities at the Site. Remediation techniques used at the Site have included a groundwater recovery and treatment system (GRTS), soil vapor extraction (SVE), and an air sparge (AS) system. In May 2002, the LARWQCB approved an EISB pilot test to evaluate the ability of EISB to reduce chlorinated ethenes in saturated soil and groundwater below CAP goals. Based on the successful results of the pilot test, a full-scale EISB application was approved by the LARWQCB and three separate phases (Phase I through Phase III) were implemented between October 2005 and November 2008 to remediate COCs in treatment areas “A” through “D”. As a result, the AS/SVE systems and GRTS were phased out and currently serve as contingency options if EISB is not a successful remedial action.

In addition to the remediation progress monitoring related to the injection activities, routine Site-wide groundwater monitoring has been conducted since 1991. The current site-wide groundwater monitoring and sampling program is performed in accordance with M&RP No. CI-7483 issued by the California LARWQCB, File No. 94-45 as modified by August 26, 1997, and January 22, 2007, LARWQCB letters.

One other remedial effort at the Site involved a small isolated area of Cr(VI) concentrations underlying the Former Hazardous Waste Storage Area (HWSA). A remedial excavation was performed at the Former HWSA in 1998. As a follow-up to the remedial excavation, eight wells (wells MW-32S, MW-32D, VW-122, MW-33, MW-34S, MW-34D, MW-35S and MW-35D) were installed and monitored to delineate residual concentrations of Cr(VI) in groundwater. This work was performed under the direction of the Department of Toxic Substances Control (DTSC).

Currently, there is no promulgated maximum contaminant level (MCL) specific to Cr(VI) in groundwater; however, the current MCL for total chromium, which is the total of trivalent chromium [Cr(III)] and Cr(VI), is 50 µg/L, which is the target cleanup level for the HWSA groundwater. Ten groundwater monitoring events of wells within and surrounding the Former HWSA were performed between 2000 and 2008 on a voluntary basis by Raytheon, as there was no regulatory directive for chromium monitoring by the DTSC. In 2008, Raytheon proposed *in situ* remedial actions for chromium in groundwater in the CAP Addendum #3, (TN&A, 2008b) which was approved by the LARWQCB in September 2009. Current monitoring of the wells in the HWSA is conducted in accordance with the WDR Order No. R4-2007-0019 (Series No. 092) and the M&RP No. CI-8947 related to the proposed remedial actions.

2.0 *IN SITU* REMEDIATION ACTIVITIES

In September 2003, a pilot test was performed to assess the potential for EISB to further remediate the VOC concentrations in groundwater. This pilot test included the injection of lactic acid and a subsequent remedial progress monitoring program that was completed in June 2004. Final results and data summaries were presented to the LARWQCB in April 2005. Based on the EISB pilot test results, Raytheon implemented a full-scale EISB program to accelerate degradation of chlorinated ethenes in shallow groundwater to concentrations below clean-up goals established in the CAP (Hughes, 1992). The injection events occurred in October 2005 (treatment areas "A" and "B-I"), May 2006 (treatment areas "A", "B-II", and "C"), and December 2006 (treatment area "D") under WDR Permit No. R4-2005-0030 (Table 1). The June/July 2008 monitoring event fulfilled the last of the EISB monitoring requirements for M&RP No. CI-8947.

An evaluation of the July 2008 groundwater results (TN&A, 2008a) indicated that COC concentrations were generally stable or decreasing with significant sustained decreases in the injection areas after the full-scale EISB program was implemented. The results also indicated that some areas would benefit from additional treatment and Raytheon proposed to further treat 1,1-DCE using EISB technology in the Northwest Area, the Former Building (Bldg) 269 Area, and the Former Tank T3 Area. In addition, based on the June 2008 Cr(VI) results, remedial measures using ISCR technology were also proposed to address the Cr(VI) in groundwater underlying the Former HWSA. On September 9, 2009, the LARWQCB approved T N & Associates, Inc.'s (TN&A's) *Corrective Action Plan Addendum #3: Work Plan for Additional Enhanced In Situ Bioremediation and In Situ Chemical Reduction Activities* (TN&A, 2008b) to implement additional EISB efforts in the three treatment areas and ISCR technology in the HWSA.

After the LARWQCB approved the *Corrective Action Plan Addendum #3* (TN&A, 2008b), the Phase IV injection was performed in October/November 2009 in the Northwest Area (treatment area "E"). ISCR technology was implemented at the Former HWSA (Phase V in treatment area "H") in June 2010, and Phase VI EISB was conducted at Former Bldg 269 area in May 2011 (treatment area "G"). EISB injections were implemented in Former Tank T3 area (Phase VII in Treatment Area "F") in September 2012. Figure 2 shows the remedial areas located in the northern portion of the Site.

Details for each of the phases of EISB and ISCR implementation are provided in Table 1.

2.1 PROJECT TREATMENT AREAS

Per the 2009 CAP Addendum, the additional EISB/ISCR project area is divided into the following four primary treatment areas:

- Area "E": Northwest Area (Phase IV);
- Area "F": Former Tank T3 Area (Phase VII);
- Area "G": Former Bldg 269 Area (Phase VI); and
- Area "H": Former HWSA (Phase V).

Areas "E", "F", and "G" involve EISB whereas area "H" involves ISCR.

The Northwest Area, which is approximately 200 feet by 60 feet in area, is located along the north property boundary. The injection/sparge wells (S-1 through S-5) were used as injection points (Figure 2). The injection depths, determined by screen intervals of sparge wells, were from 29 to 30 feet below ground surface (bgs), from 39 feet bgs to 40 feet bgs, and from 49 feet bgs to 50 feet bgs. A well construction summary is included as Table 2 for all site wells.

Former Tank T3 treatment area, approximately 155 ft by 60 ft, is believed to be the source zone of the DCE plume. It is located near the former Tank T3 and the Recovery Well RW-14. Five injection wells (IP-02 through IP-06) were installed and they, as well as sparge wells S-16 and S-17, were used as injection points for the September 2012 implementation of the Phase VII EISB (Figure 2). Complete well installation details are included in the separate technical memorandum included in Appendix A.

The Former Bldg 269 Area is located in the northern portion of the property. Four injection wells (IP-07 through IP-10) and a downgradient monitoring well (MW-38) were installed between April 25 and April 28, 2011 (Figure 2). The new injection wells were used as injection points for the May 2011 implementation of the Phase VI EISB. The injection depths were determined by the screened intervals of injection wells which are from approximately 40 to 60 feet bgs, as shown in Table 2. Details on the well installation and substrate injection were presented in the *Second Quarter 2011 EISB and ISCR Progress Report* (OTIE, 2011b).

The Former HWSA treatment area, approximately 1,515 square feet, is located within the immediate vicinity of the wells MW-32S and MW-32D (Figure 2), which consistently had concentrations of Cr(VI). Four 2-inch injection wells (IP-HWSA-01 through IP-HWSA-04) were installed within the footprint of the former HWSA in June 2012 to facilitate the injection of the calcium polysulfide within the immediate area of the Former HWSA. Details on the well installation and substrate injection were presented in the *Second Quarter 2010 EISB and ISCR Progress Report* (OTIE, 2010b).

2.2 EISB - PHASE IV – NORTHWEST AREA

The Phase IV EISB injections were performed in October-November 2009. Details on the substrate selection and dosage as well as the substrate delivery program for the injections are discussed in the *Enhanced In Situ Bioremediation Progress Report, Fourth Quarter 2009 and Annual 2009 Summary 2009* (OTIE, 2010a) and injection details are provided in Table 1.

2.3 ISCR - PHASE V – FORMER HWSA

The ISCR Phase V remedial actions were conducted in June 2010. Details on the substrate selection and dosage as well as the substrate delivery program for ISCR injections in the HWSA are discussed in the *Enhanced In Situ Bioremediation and In Situ Chemical Reduction Progress Report, Second Quarter 2010* (OTIE, 2010b) and injection details are provided in Table 1.

2.4 EISB - PHASE VI – FORMER BLDG 269 AREA

The Phase VI EISB injections were performed in May 2011. Details on the substrate selection and dosage as well as the substrate delivery program for the injections are discussed in the *Enhanced In Situ Bioremediation Progress Report, Second Quarter 2011* (OTIE, 2011b) and injection details are provided in Table 1.

2.5 EISB - PHASE VII – FORMER TANK T3 AREA

The Former Tank T3 Area is located just south of the northern property boundary and northwest of an existing commercial building (8511 Fallbrook Avenue). Injection wells (IP-02 through IP-06) were installed along the northern property boundary, flanking the Former Tank T3 tank pit between September 10 and 14, 2012 (Figure 2). The five injection wells, as well as sparge wells S-16 and S-17, were used as injection points for the September 2012 implementation of the Phase VII EISB (Figure 2). The injection depths were determined by the screened intervals of injection wells which are generally approximately 45 to 60 feet bgs, as shown in Table 2. Complete details of the well installation work are included in Appendix A.

2.5.1 Substrate Selection and Dosage

A variety of amendments are available to be added to EISB systems as described in CAP Addendum #3 (TN&A, 2008b). Based on a site-specific evaluation, emulsified vegetable oil (EVO) was selected for additional EISB application at the Site because it degrades less quickly than other products and, therefore, the performance period of the substrate is extended.

The calculation for determining the volumes of EVO required for the former Tank T3 area was described worksheet was provided in the *Corrective Action Plan Addendum #3 Work Plan for Additional Enhanced In Situ Bioremediation and In Situ Chemical* Reduction *Activities* (TN&A, 2008b).

2.5.2 Substrate Delivery Program

Groundwater was extracted, treated, and stored in the 21,000-gallon Baker tank located onsite prior to the start of the injections. Suction hose was connected to the outlet of the tank to a Grundfos® CRN 1-9 pump (1 phase, 1 horsepower). The pump was powered by a receptacle in the nearby 21,000-gallon tank compound.

Injections were performed using a portable injection system shown in Figure 4 of the *Second Quarter 2010 EISB and ISCR Progress Report* (OTIE, 2010b). Eleven 50-gallon drums (550 gallons) of substrate mixed with 10,840 gallons of groundwater were injected into the seven injection points (Table 3).

Substrate was injected into five newly installed injection wells (IP-02 through IP-06) with screen intervals for each well from 45 to 60 feet bgs and the sparge wells (S-16 and S-17) screened 49 to 50 feet bgs. A total of 550 gallons of EVO and approximately 10,840 gallons of treated groundwater were injected at a ratio of approximately 1:20 between September 24 and 27, 2012.

3.0 REMEDIAL PROGRESS MONITORING PROGRAM

3.1 EISB PHASE IV MONITORING PROGRAM - NORTHWEST AREA

The baseline, month #1, month #3, month #6, month #9, month #12, month #18, month #24 and month #30 sampling events for the Phase IV EISB activities were performed in accordance with the LARWQCB's second revision to M&RP No. CI-8947 dated September 9, 2009. The remedial progress monitoring (RPM) program for Phases I through III was implemented in accordance with the M&RP No. CI-8947 as modified per the LARWQCB's approval in a letter dated April 24, 2006. Due to the phased injection implementation, the RPM wells are divided into groups as described in Table 1. To evaluate geochemical changes associated with the EISB injection activity during Phase IV, the following monitoring wells were selected as RPM wells within treatment area "E":

- RW-11 – upgradient location;
- RW-01 – within treatment area location;
- RW-10 – within treatment area location; and
- RW-02 – downgradient location.

In addition to the selected RPM wells listed above, additional wells within and adjacent to the treatment areas are sampled as part of the semiannual and annual groundwater monitoring programs. To better ascertain the distribution of the injected substrate, groundwater samples were also collected from wells VW-109, VW-126, and VW-127 and analyzed for volatile fatty acids (VFAs) during the baseline and subsequent sampling events through the month #24 event in November 2011. Sampling of these three wells were has been discontinued.

The groundwater monitoring program includes collecting samples for water quality parameter measurements at the Site and off-site laboratory analyses at frequencies listed in Table 3 of the Fourth Quarter 2009 EISB Progress Report (OTIE, 2010a) and per M&RP No. CI-8947. Groundwater samples were sent to an off-site laboratory for the following analytes: VOCs, VFAs, dissolved gases, anions, ferrous iron, total dissolved solids (TDS), total organic carbon (TOC), dissolved cations, mercury, and Cr(VI) by the methods listed in M&RP No. CI-8947. Field measurements include dissolved oxygen (DO), oxygen-reduction potential (ORP), pH, specific conductivity, and temperature.

In September 2011, OTIE requested on Raytheon's behalf in their *Request for Reduction in Required Analyses Request for Waste Discharge Requirement Order No. R4-2007-0019 (Series No. 092)* (OTIE, 2011a), to remove analytes that had shown no significant concentration changes since the baseline (Oct09 to Jun11). In their letter dated November 4, 2011, LARWQCB agreed to remove the following analytes from the program: bromide, orthophosphate, arsenic, barium, cadmium, copper, lead, magnesium, manganese, mercury, potassium, selenium, sodium, and zinc (LARWQCB, 2011).

3.2 ISCR PHASE V MONITORING PROGRAM – FORMER HWSA

The baseline, month #1, month #3, month #6, month #9, month #12, month #18 and month #24 sampling events for the ISCR activities were performed in accordance with the LARWQCB's second revision to M&RP No. CI-8947 dated September 9, 2009. The following six RPM wells

were selected to monitor remediation progress at the Former HWSA during Phase V within treatment area "H" (Table 1):

- MW-35S/D – upgradient and cross-gradient locations;
- MW-32S/D – within treatment area locations;
- MW-33 – downgradient location, deep zone; and
- VW-122 – downgradient location, shallow zone.

The ISCR groundwater monitoring program includes collecting samples for water quality measurements at the Site and off-site laboratory analyses for the frequencies listed in Table 6 of the Second Quarter 2010 EISB and ISCR Progress Report (OTIE, 2010b) and per M&RP No. CI-8947. Groundwater samples are sent to an off-site laboratory for the following analyses: Cr(VI), total sulfide, anions, TDS, dissolved cations, ferrous iron, and mercury by the methods listed in M&RP No. CI-8947. Field measurements include DO, ORP, pH, specific conductivity, and temperature.

3.3 EISB PHASE VI MONITORING PROGRAM – FORMER BLDG 269 AREA

The baseline, month #1, month #3, month #6 and month #12 sampling events for the Phase VI EISB activities were performed in accordance with the LARWQCB's second revision to M&RP No. CI-8947 dated September 9, 2009. To evaluate geochemical changes associated with the EISB injection activity during Phase VI, the following monitoring wells were selected as RPM wells within treatment area "G":

- CM-16 – upgradient location;
- CM-4D – within treatment area location; and
- MW-38 – downgradient location.

The groundwater monitoring program includes collecting samples for water quality parameter measurements at the Site and off-site laboratory analyses at frequencies listed in Table 3 of the Fourth Quarter 2009 EISB Progress Report (OTIE, 2010a) and per M&RP No. CI-8947. Groundwater samples are sent to an off-site laboratory for the following analytes: VOCs, VFAs, dissolved gases, anions, ferrous iron, TDS, TOC, dissolved cations, mercury, and Cr(VI) by the methods listed in M&RP No. CI-8947. Field measurements include DO, ORP, pH, specific conductivity, and temperature.

3.4 EISB PHASE VII MONITORING PROGRAM – FORMER TANK T3 AREA

The baseline event for the Phase VII EISB activities was performed in accordance with the LARWQCB's second revision to M&RP No. CI-8947 dated September 9, 2009. To evaluate geochemical changes associated with the EISB injection activity during Phase VII, the following monitoring wells were selected as RPM wells within treatment area "F":

- RW-15 – upgradient location;
- RW-14 – within treatment area location; and
- RW-11 – downgradient location.

The groundwater monitoring program includes collecting samples for water quality parameter measurements at the Site and off-site laboratory analyses at frequencies listed in Table 3 of the Fourth Quarter 2009 EISB Progress Report (OTIE, 2010a) and per M&RP No. CI-8947. Groundwater samples are sent to an off-site laboratory for the following analytes: VOCs, VFAs, dissolved gases, anions, ferrous iron, TDS, TOC, dissolved cations, mercury, and Cr(VI) by the methods listed in M&RP No. CI-8947. Field measurements include DO, ORP, pH, specific conductivity, and temperature. Well RW-11 is a RPM point for the Northwest Area (Phase IV) and Former Tank T3 area (Phase VII). Because the parameter list for the Phase IV wells has been abbreviated per LARWQCB 2011 letter, analysis of RW-11 samples for the Phase VII monitoring events will include the full analyte list.

3.5 GROUNDWATER GAUGING ACTIVITIES

Select wells were gauged for depth to groundwater prior to groundwater purging and sampling activities in each area. An electronic interface probe, accurate to the nearest ± 0.01 feet, was used to measure the water levels in each well and for the determining presence or absence of substrate. Total well depths in selected wells were measured by lowering the weighted probe to the bottom of the well and recording the depth to the nearest 0.01 feet. Well construction details are summarized in Table 2.

3.6 GROUNDWATER PURGING AND SAMPLING ACTIVITIES

Following gauging activities, and prior to sample collection, each well was purged using the low flow purging method to minimize stress to the groundwater system by minimizing drawdown caused by pumping. The overall goal of low flow purging is to produce a drawdown of less than 10% of the saturated screened interval during purging.

During groundwater purging, water quality parameters, such as temperature, pH, electrical conductivity, DO, ORP, and turbidity, were monitored continuously in a flow-through cell with a calibrated water quality meter. Water levels and measurements of water quality parameters were recorded every three to five minutes until water quality parameters stabilized to within 10% following three consecutive measurements.

Upon stabilization of water quality parameters, groundwater samples were collected following project-specific requirements and in accordance with the OTIE Standard Operating Practice Number OTIE008F in pre-labeled sample vials or containers. Immediately following collection, the samples were placed on ice, maintained at 4°C ± 2°C and transported under appropriate chain-of-custody protocol to a California State-certified analytical laboratory, Calscience Environmental Laboratories, Inc. located in Garden Grove, California. Quality assurance/quality control (QA/QC) samples were collected during each event.

All analyses were conducted at a laboratory certified for such analyses by the State of California and NELAC and in accordance with current U.S. EPA procedures or as specified in the M&RP.

4.0 REMEDIAL PROGRESS RESULTS

4.1 PHASE IV – NORTHWEST AREA

The wells in the Northwest Area were not sampled during the Third Quarter 2012. The next sampling event, Month #36, will occur in December 2012 with results reported in the Fourth Quarter- 2012 Annual report to be submitted in February 2013.

Historical COC concentrations for monitoring wells and recovery wells are provided in Tables B1 and B2 in Appendix B.

4.2 PHASE V – FORMER HWSA

The wells in the HWSA Area were not sampled during the Third Quarter 2012. The next sampling event, Month #30, will occur in December 2012 with results reported in the Fourth Quarter- 2012 Annual report to be submitted in February 2013.

Historical COC concentrations for monitoring wells and recovery wells are provided in Tables B1 and B2 in Appendix B.

4.3 PHASE VI – FORMER BLDG 269 AREA

The wells in the Former Bldg 269 Area were not sampled during the Third Quarter 2012. The next sampling event, Month #18, will occur in December 2012 with results reported in the Fourth Quarter- 2012 Annual report to be submitted in February 2013.

Historical COC concentrations for monitoring wells and recovery wells are provided in Tables B1 and B2 in Appendix B.

4.4 PHASE VII – FORMER TANK T3 AREA

4.4.1 Baseline Sampling Event

The baseline groundwater sampling event for Phase VII was performed on September 18, 2012. The field parameters and analytical results are presented in Table 4. The baseline data are summarized in the following subsections and will be used to evaluate all future data collected as part of this M&RP.

Well purge records are provided in Appendix C. Chain of custody forms and analytical laboratory reports are provided in Appendix D.

4.4.2 Groundwater Gauging Results

Depths to water measured at wells RW-11 and RW-14 and recorded on the purge sheets. Well RW-15 is not gauged because it is obstructed with groundwater extraction conveyance hose. Static depth to water measurements were 25.62 feet below top of casing (btoc) (RW-11) and 27.82 feet btoc (RW-14) on September 18, 2012. The well casing elevations have not yet been surveyed and groundwater elevations could not be calculated for the wells.

The most recent gauging at the site was in May 2012. The groundwater elevation contours and flow directions for the northern portion of the Site are shown in Figure 3. As shown, the gradient slopes to the west and southwest in the Former Tank T3 area.

4.4.3 Groundwater Monitoring Results

Groundwater samples were collected from three RPM wells on September 18, 2012 for all analytes listed in Table 4 to establish baseline values. An exception was the TOC sample from well RW-11. The TOC sample container was broken before reaching the laboratory and was collected again on September 19, 2012. The baseline results are presented below.

Selected groundwater monitoring results for COC and dissolved gases are shown in Figure 4 and substrate distribution results and selected field parameters are shown in Figure 5.

4.4.4 Groundwater Monitoring Results, Baseline

Groundwater samples for the Phase VII baseline event were collected in accordance with M&RP No. CI-8947. The following presents the results for the baseline samples collected from the RPM wells on September 18, 2012:

- The only CVOC result that exceeded a CAP goal was for 1,1-DCE in well RW-14 at a concentration of 190 µg/L.
- Vinyl chloride (VC) was detected in injection area well RW-14 at a concentration of 54 µg/L. VC is an intermediate daughter product, resulting from the EISB dechlorination process and concentrations are anticipated to eventually dissipate as further treatment is completed.
- VFAs were not detected in any RPM well.
- Methane was detected in all three RPM wells at concentrations ranging from 17 µg/L in well RW-11 to 465 µg/L in well RW-14.
- Carbon dioxide (CO_2) concentrations ranged from 35.3 milligrams per liter (mg/L) (well RW-15) to 59.3 mg/L (well RW-14).
- No ethane or ethene was detected in RPM wells above the reporting limit of 1.0 µg/L during the baseline.
- TDS concentrations ranged from 1,200 mg/L in RW-15 to 2,100 mg/L in well RW-11.
- TOC concentrations ranged from 34 mg/L (well RW-11) to 40 mg/L (well RW-14).
- Nitrate concentrations were detected in RW-14 at 0.7 mg/L and in RW-11 at 84 mg/L. Sulfate concentrations ranged from 210 mg/L (RW-14) to 560 mg/L in well RW-11. Ferrous iron was detected only in well RW-14 at a concentration of 2.82 mg/L.
- pH levels in the three RPM wells ranged from 7.14 to 7.26 in September 2012. DO concentrations ranged from 0.21 mg/L to 1.54 mg/L and ORP levels ranged from (-)80 millivolts (mV) to (+)132 mV.

5.0 QA/QC SAMPLE RESULTS

For the Phase VII Baseline sampling event, one field duplicate and one trip blank were collected. The duplicate groundwater sample labeled DUP5-9-18-12 was collected from well RW-14. The trip blank was labeled as TB1-9-18-12. Both QA/QC samples were analyzed only for VOCs. The purpose of a duplicate sample is to assess the accuracy and consistency of the sampling program. The relative percent differences (RPDs) between positive detections for the primary and duplicate samples were within the specified range for the sampling program (<30%) for all detected analytes except for 1,2-DCA: both the primary and duplicate 1,2-DCA results were flagged with a "J."

Trip blanks are used to evaluate representativeness by identifying any VOCs that may have been introduced to the samples' environment during shipment, handling, or storage on site and at the laboratory. The laboratory-supplied trip blank was placed in the cooler with other groundwater samples for shipment to the laboratory by courier. All VOCs were non-detect for the trip blank.

All groundwater samples were shipped under appropriate chain of custody protocol at the method-specified temperature limit (4°C ± 2°C). All sample analyses were completed within the prescribed holding time.

Laboratory QA/QC procedures were carried out in accordance with U.S. EPA method specifications and the data was accepted based on the QA/QC criteria established by the U.S. EPA. Laboratory QA/QC samples included method blanks, laboratory control samples (LCS), LCS duplicates (LCSD), matrix spike samples (MS), MS duplicate (MSD) samples, post-digestion spike (PDS), and post-digestion spike duplicate (PDSD).

All laboratory quality control samples (method blanks, spike/spike duplicate, PDS/PDSD, and LCS/LCSD) were within their respective control limits with the following exceptions:

- Zinc and boron in spike/spike duplicate sample RW-14 were outside of their control limits due to matrix interference. As a result, zinc and boron detects in sample RW-14 were "J" flagged.

6.0 WASTE MANAGEMENT

Purge water generated during groundwater monitoring activities from the Former Tank T3 Area wells was treated by the GRTS and stored for use as mixing water for the EISB injections.

7.0 SUMMARY

7.1 PHASE IV EISB SUMMARY – NORTHWEST AREA

In October 2009, the Phase IV EISB injections were implemented in the "Northwest Area" of the Site. A total of four RPM wells were included in the M&RP for CI-8947, and eight post-injection monitoring events have been completed since the injections. No EISB-related activities were performed in the Northwest Area during the third quarter of 2012.

The next scheduled EISB monitoring event (month #36) for the Northwest Area will be in December 2012, concurrent with the second semiannual 2012 event per the M&RP.

7.2 PHASE V ISCR SUMMARY – FORMER HWSA

In June 2010, the Phase V ISCR injections were implemented in the former HWSA. A total of six RPM wells were included in the M&RP for CI-8947 and seven post-injection monitoring events have been completed. No ISCR-related activities were performed at the Former HWSA during the third quarter of 2012.

The next sampling event, month #30 for Phase V, will be in December 2012, concurrent with the second semiannual 2012 event per the M&RP.

7.3 PHASE VI EISB SUMMARY – FORMER BLDG 269 AREA

In May 2011, the Phase VI EISB injections were implemented in the Former Bldg 269 Area of the Site. A total of three RPM wells were included in the M&RP for CI-8947 and five post-injection monitoring events have been completed since the injections. No EISB-related activities were performed in the Former Bldg 269 Area during the third quarter of 2012.

The next sampling event, month #30 for Phase V, will be in December 2012, concurrent with the second semiannual 2012 event per the M&RP.

7.4 PHASE VII EISB – FORMER TANK T3 AREA

In September 2012, the Phase VII EISB injections were implemented in the Former Tank T3 Area of the Site. A total of three RPM wells were included in the M&RP for CI-8947 and one monitoring event was completed prior to the injections. EISB-related activities performed at the Former Tank T3 Area during the third quarter of 2012 are summarized below:

- Injection wells (IP-02 through IP-06) were installed and developed in September 2012.
- The baseline groundwater sampling event was conducted prior to the start of the injections in accordance with the M&RP. Groundwater levels were gauged and samples collected on September 18, 2012.
- Static depth to water measurements were 25.62 feet btoc (RW-11) and 27.82 feet btoc (RW-14) on September 18, 2012.
- TCE was detected in upgradient well RW-15 at a concentration of 7.7 µg/L and in treatment are well RW-14 at 2.8 µg/L.
- 1,1-DCE concentrations were ranged from 41 µg/L (upgradient RW-15) to 190 µg/L at well RW-14 in the treatment area.
- VC was detected in injection area well RW-14 at a concentration of 54 µg/L. The VC concentrations are an intermediate daughter product, resulting from the EISB

dechlorination process and are anticipated to eventually dissipate as further treatment is completed.

- VFAs were not detected in any well during the baseline event.
- Methane was detected in all three RPM wells at concentrations ranging from 17 µg/L in well RW-11 to 465 µg/L in well RW-14.
- CO_2 concentrations ranged from 35.3 mg/L (well RW-15) to 59.3 mg/L (well RW-14).
- No ethane or ethene was detected in RPM wells above the reporting limit of 1.0 µg/L during the baseline.
- Subsurface injections of EVO were performed using a portable injection system between September 24 and 27, 2012.
- A combined total of 550 gallons of EVO substrate and 10,840 gallons of treated groundwater were injected in the Former Tank T3 area via the five new injection wells and two sparge wells in September 2012.

The next scheduled EISB monitoring events (Month #01 and Month #03) for the Former Tank T3 Area are scheduled for October 2012 and December 2012, respectively. The December sampling will be concurrent with the second semiannual 2012 sampling event conducted per the M&RP.

Results for the December 2012 remedial progress sampling events for all four phases (IV, V, VI, and VII) will be reported in the Fourth Quarter 2012 and 2012 Annual EISB/ISCR summary report to be submitted by February 15, 2013.

8.0 REFERENCES

Hughes. 1992. *Corrective Action Plan for Hughes Missile Systems Company, Canoga Park, California*. November 13.

OTIE. 2010a. *Enhanced In Situ Bioremediation Progress Report, Fourth Quarter 2009 and Annual Summary 2009. Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California*. February.

_____. 2010b. *Enhanced In Situ Bioremediation and In Situ Chemical Reduction Progress Report, Second Quarter 2010. Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park,* California. August.

_____. 2011a. *Request for Reduction in Required Analyses Request for Waste Discharge Requirement Order No. R4-2007-0019 (Series No. 092).* September 23.

_____. 2011b. *Enhanced In Situ Bioremediation and In Situ Chemical Reduction Progress Report, Second Quarter 2011. Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park,* California. August.

Regional Water Quality Control Board, Los Angeles Region (LARWQCB), 2011. *Revised Monitoring And Reporting Program No. CI-8947 – Raytheon Company (Former Hughes Missile Systems Company), 8433 Fallbrook Avenue, Canoga Park, California (Order No. R4-2007-0019, Series No. 092, CI-8947)*, November 4.

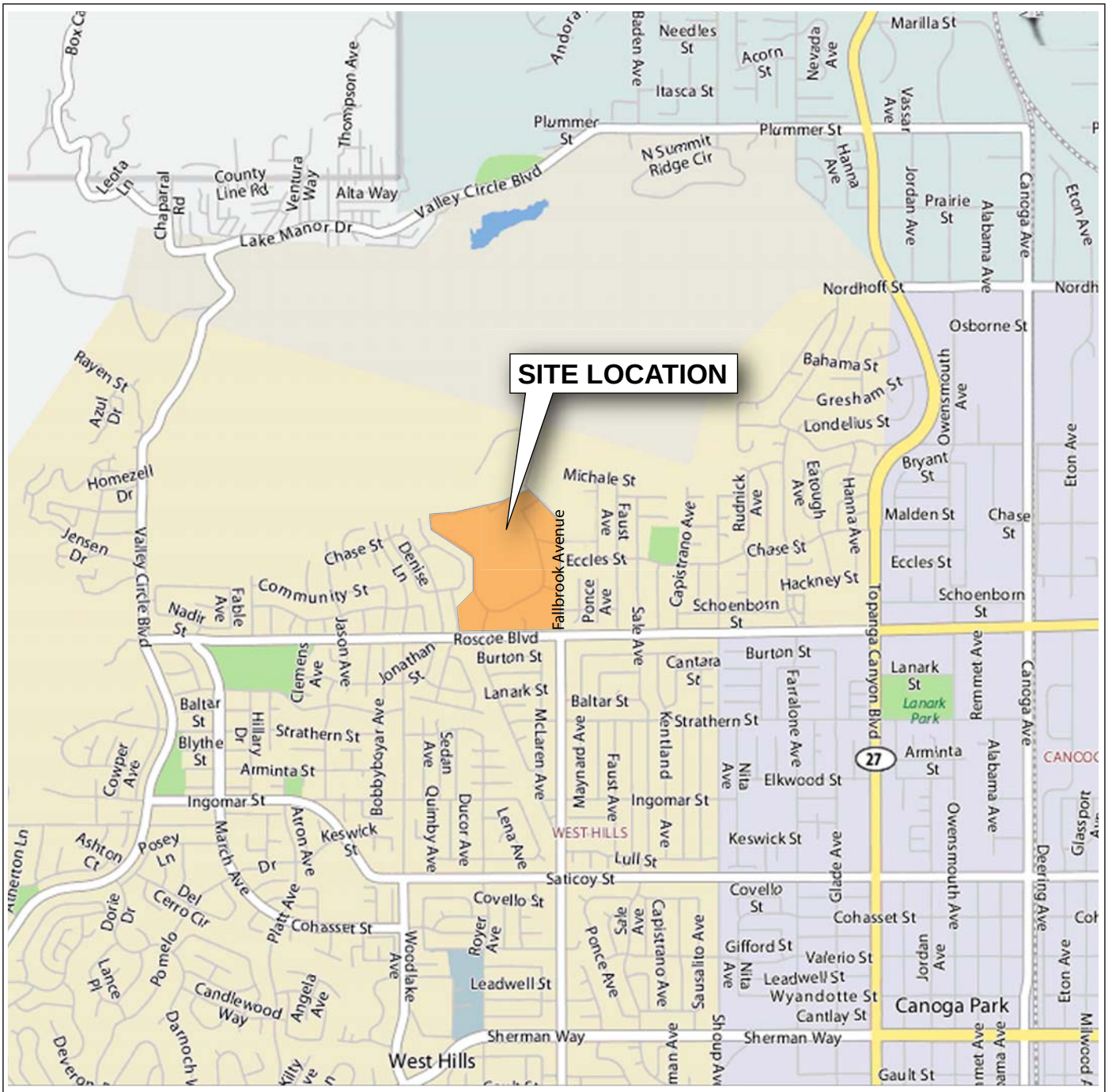
TN&A. 2002. *Addendum to Corrective Action Plan (CAP), Enhanced In-Situ Bioremediation Pilot Test Work Plan, Raytheon Company, Former Hughes Facility, 8433 Fallbrook Avenue, Canoga Park, California.* May 14.

_____. 2005. *Remedial Action Plan Addendum, Enhanced In-Situ Bioremediation Work Plan, Raytheon Company, Former Hughes Facility, 8433 Fallbrook Avenue, Canoga Park, California.* March.

_____. 2008a. *First Semiannual 2008 Groundwater Monitoring, Groundwater Remediation System, and Enhanced In Situ Bioremediation Progress Report, Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California.* September.

_____. 2008b. *Corrective Action Plan Addendum #3 – Work Plan for Additional Enhanced In Situ Bioremediation and In Situ Chemical Reduction Activities, Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California*. September.

Figures



Source: Map data from Yahoo, Inc./NAVTEO 2009



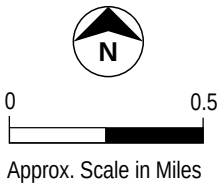
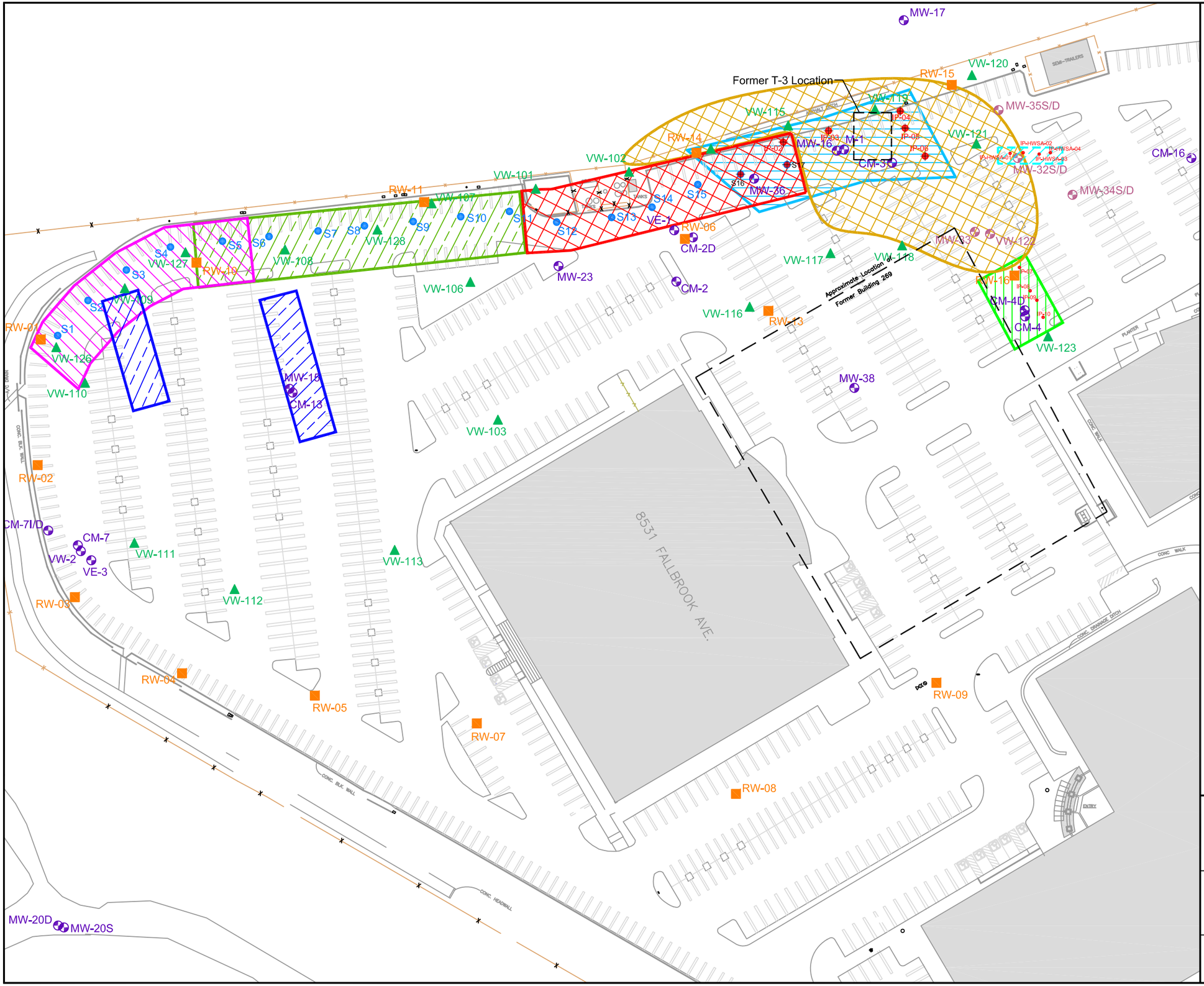


FIGURE 1

Site Vicinity Map

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

OTIE
Oneida Total Integrated Enterprises



Legend

- MW-# / CM-# — Groundwater Monitoring Well
- RW-# — Groundwater Recovery Well
- VW-# — Vapor Extraction Well
- MW-# — Former Hazardous Waste Storage Area Monitoring Well
- SW/VW-# — Air Sparge/Vapor Extraction Well
- S# — Triple Nested Sparge Well
- IP-# — Injection Well
- IP-# — Phase VII Injection Well (Estimated location)

Treatment Areas

- Treatment Area "A" October 2005 — Phase I
- Treatment Area "B-I" October 2005 — Phase I
- Treatment Area "B-II" May 2006 — Phase II
- Treatment Area "C" May 2006 — Phase II
- Treatment Area "E" November 2009 — Phase IV
- Treatment Area "H" June 2010 — Phase V
- Treatment Area "G" May 2011 — Phase VI
- Treatment Area "F" September 2012 — Phase VII

Notes

1) Treatment Area "D", located in the central portion of the site not shown on this figure, was treated as part of Phase III.
2) Treatment Area "H" (Phase V) employed ISCR .
3) EISB = enhanced *in situ* bioremediation
4) ISCR = *in situ* chemical remediation

N W E S

Approximate Scale in Feet

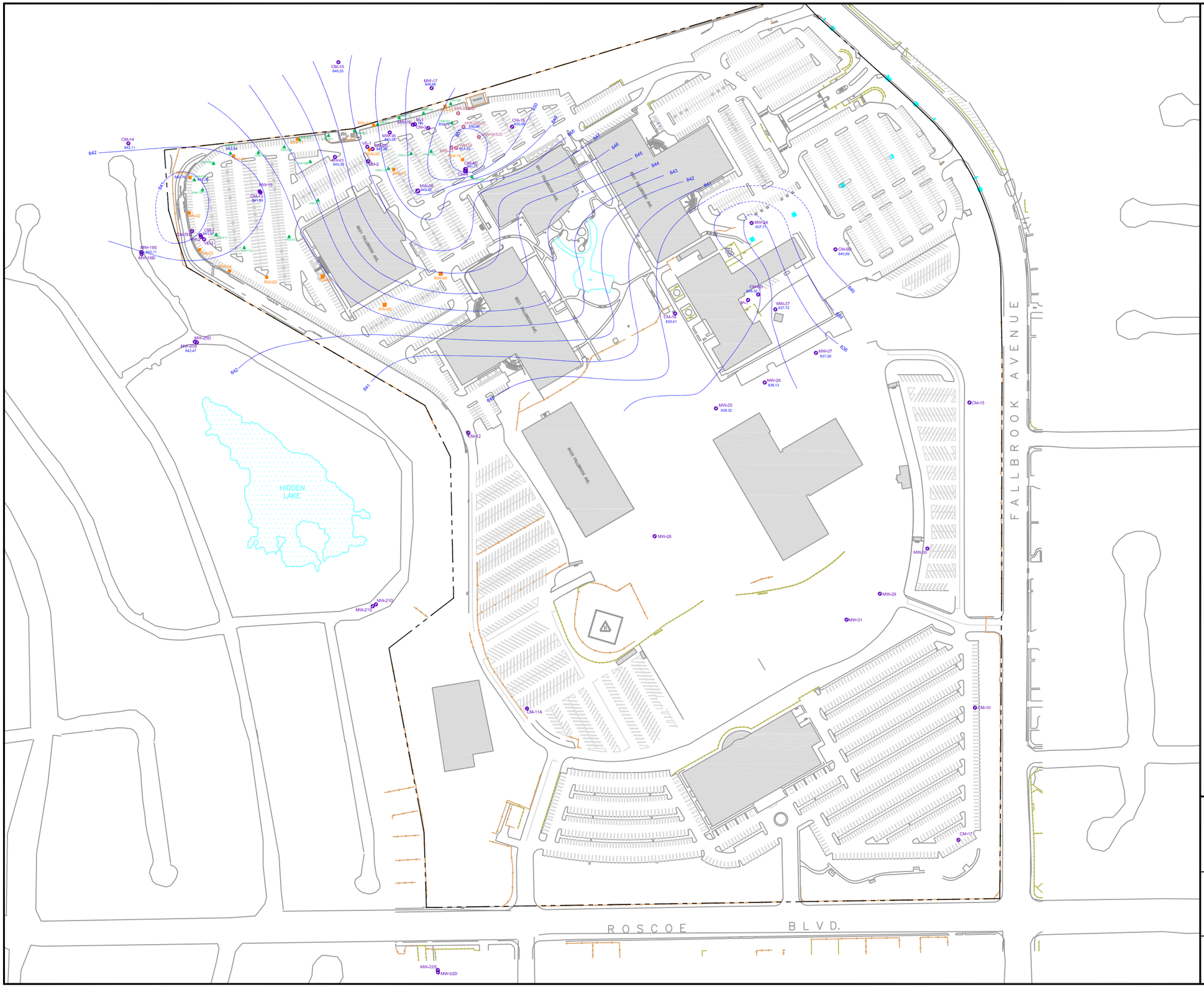
0 70 140

Figure 2
Site Plan Showing Remedial Treatment Areas in Northern Portion of Site

Former Canoga Park Facility
8433 Fallbrook Ave, Canoga Park, California

OTIE Onesda Total Integrated Enterprises

Date: August 3, 2011
File: Canoga_EISB.dwg



Legend

- MW-# / CM-# — Groundwater Monitoring Well
- RW-# — Groundwater Recovery Well
- VW-# — Vapor Extraction Well
- MW-# — Former Hazardous Waste Storage Area Monitoring Well
- SW/VW-# — Air Sparge/Vapor Extraction Well
- S# — Triple Nested Sparge Well
- 851.85 — Groundwater Elevation (feet above mean sea level)
- 852.0 — Groundwater Contour (dashed where estimated)
- 0.010 Ft/Ft — Apparent Groundwater Flow Direction and Gradient

Notes

1) Contour Interval is 1 foot.
2) Contours represent approximate elevations above mean sea level
3) "*" = Some wells are screened in the deeper zones and therefore were not used in this shallow groundwater elevation map.

N
W E
S

Approximate Scale in Feet

0 250 500

Figure 3
Groundwater Gradient Map
May 29, 2012

Former Canoga Park Facility
8433 Fallbrook Avenue, Canoga Park, California

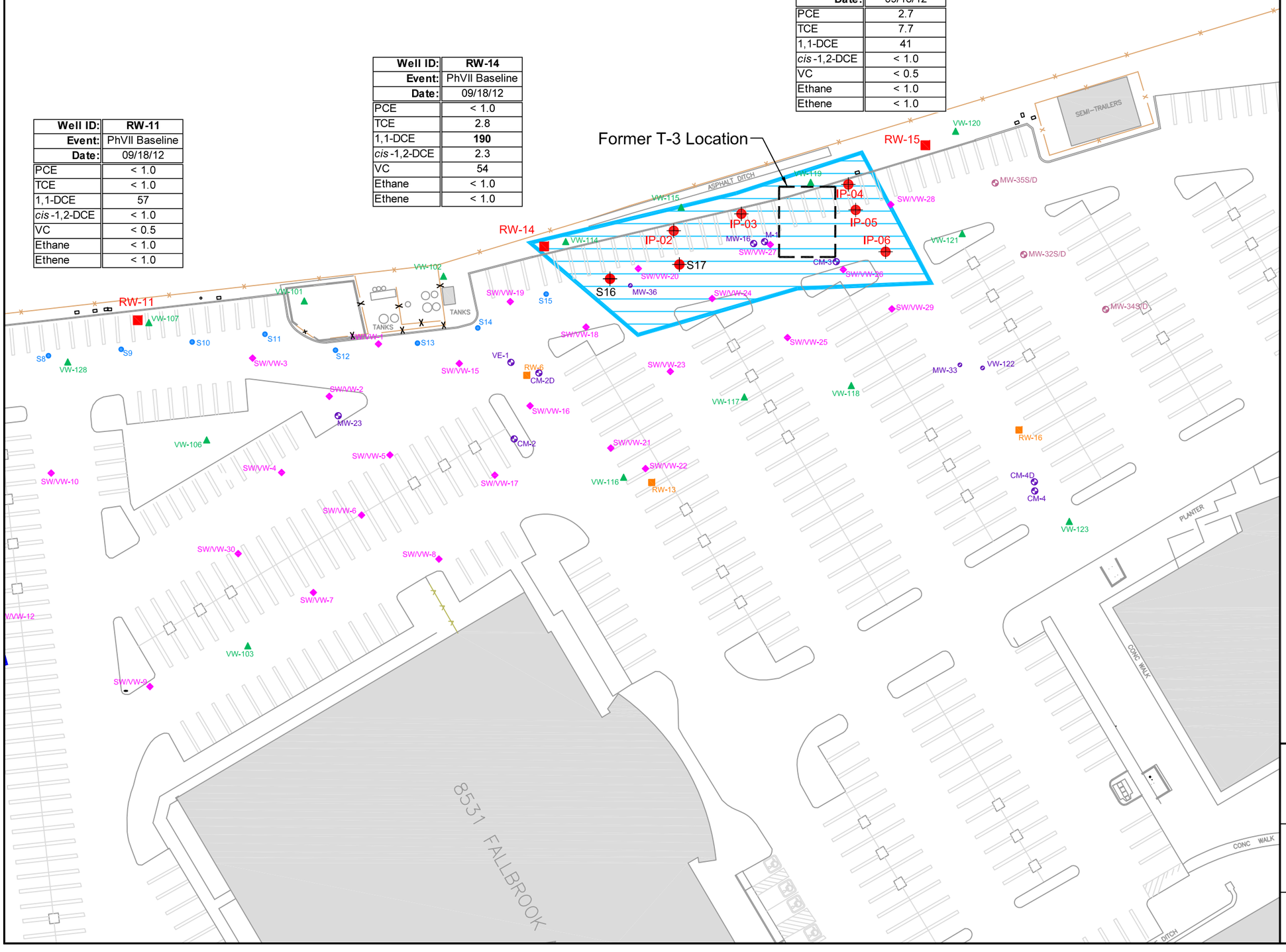
OTIE
Oneida Total Integrated Enterprises

Date: June 20, 2012
File: RayCan GWE 052912.dwg

Well ID:	RW-11
Event:	PhVII Baseline
Date:	09/18/12
PCE	< 1.0
TCE	< 1.0
1,1-DCE	57
cis-1,2-DCE	< 1.0
VC	< 0.5
Ethane	< 1.0
Ethene	< 1.0

Well ID:	RW-14
Event:	PhVII Baseline
Date:	09/18/12
PCE	< 1.0
TCE	2.8
1,1-DCE	**190**
cis-1,2-DCE	2.3
VC	54
Ethane	< 1.0
Ethene	< 1.0

Well ID:	RW-15
Event:	PhVII Baseline
Date:	09/18/12
PCE	2.7
TCE	7.7
1,1-DCE	41
cis-1,2-DCE	< 1.0
VC	< 0.5
Ethane	< 1.0
Ethene	< 1.0



Legend

- MW-# / CM-# — Groundwater Monitoring Well
- RW-# — Groundwater Recovery Well
- VW-# — Vapor Extraction Well
- MW-# — Former Hazardous Waste Storage Area Monitoring Well
- SW/VW-# — Air Sparge/Vapor Extraction Well
- S# — Triple Nested Sparge Well
- IP-# — Phase VII Injection Well (Estimated location)
- Treatment Area "F", September 2012
- Remedial Progress Monitoring Well

Notes

1) All results are in micrograms per liter (µg/L).
2) **Bold** results indicate a CAP Exceedence. See report for details.
3) < 1.0 = not detected above stated reporting limit.
4) PhVII = Phase VII
   PCE = Tetrachloroethene
   TCE = Trichloroethene
   1,1-DCE = 1,1-Dichloroethene
   cis-1,2-DCE = *cis*-1,2-dichloroethene
   VC = Vinyl chloride
   CAP = Corrective Action Plan
   "–" = not applicable or not analyzed for
5) For wells with duplicate pairs, the highest concentrations are shown here

N
W E
S

Approximate Scale in Feet

0 50 100

Figure 4
Selected Groundwater Monitoring Results - Former Tank T3 Area

Former Canoga Park Facility
8433 Fallbrook Ave, Canoga Park, California

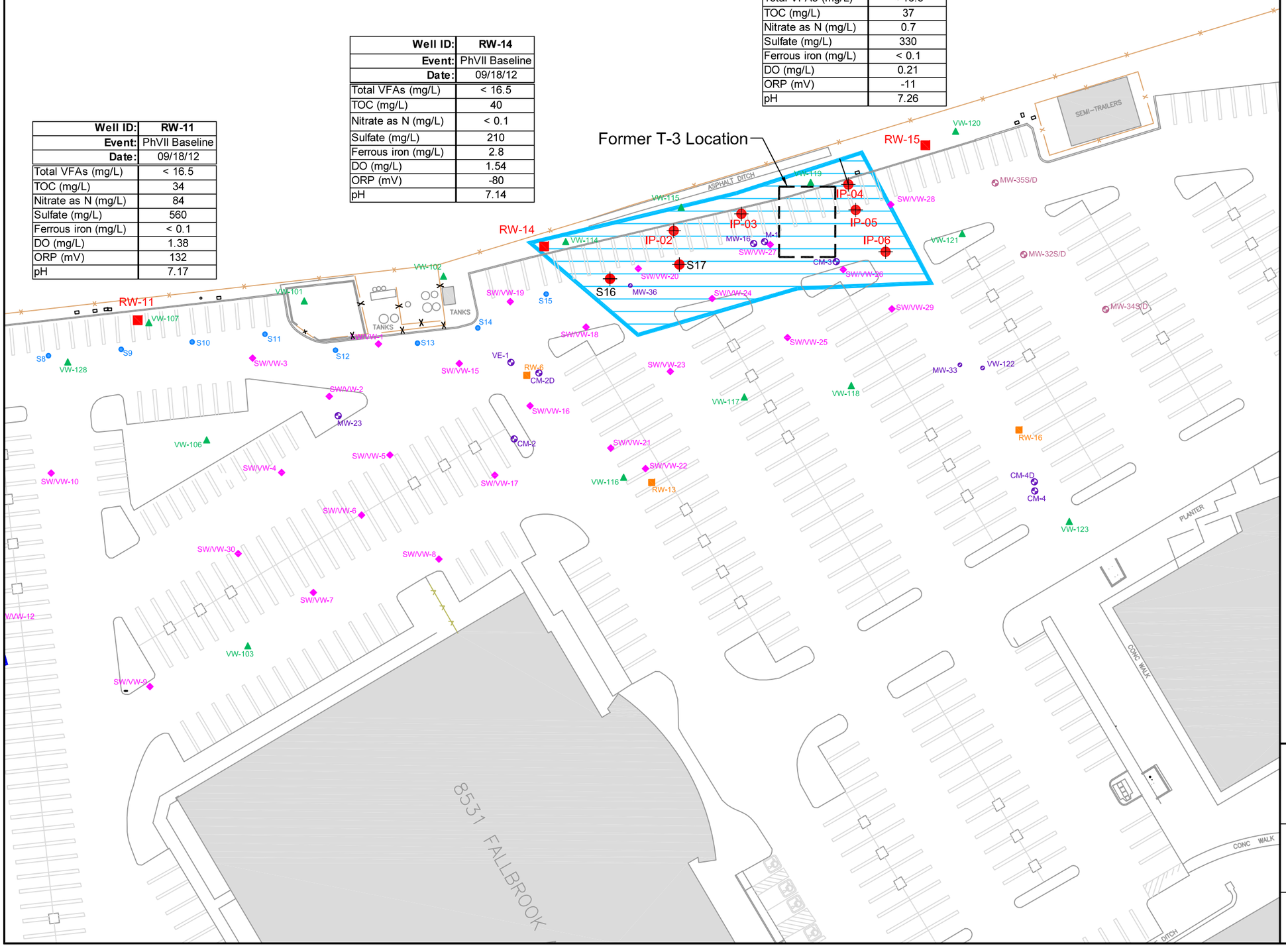
OTIE
Oneida Total Integrated Enterprises

Date: October 19, 2012
File: Canoga_EISB.dwg

Well ID:	RW-11
Event:	PhVII Baseline
Date:	09/18/12
Total VFAs (mg/L)	< 16.5
TOC (mg/L)	34
Nitrate as N (mg/L)	84
Sulfate (mg/L)	560
Ferrous iron (mg/L)	< 0.1
DO (mg/L)	1.38
ORP (mV)	132
pH	7.17

Well ID:	RW-14
Event:	PhVII Baseline
Date:	09/18/12
Total VFAs (mg/L)	< 16.5
TOC (mg/L)	40
Nitrate as N (mg/L)	< 0.1
Sulfate (mg/L)	210
Ferrous iron (mg/L)	2.8
DO (mg/L)	1.54
ORP (mV)	-80
pH	7.14

Well ID:	RW-15
Event:	PhVII Baseline
Date:	09/18/12
Total VFAs (mg/L)	< 16.5
TOC (mg/L)	37
Nitrate as N (mg/L)	0.7
Sulfate (mg/L)	330
Ferrous iron (mg/L)	< 0.1
DO (mg/L)	0.21
ORP (mV)	-11
pH	7.26



Legend

- MW-# / CM-# — Groundwater Monitoring Well
- RW-# — Groundwater Recovery Well
- VW-# — Vapor Extraction Well
- MW-# — Former Hazardous Waste Storage Area Monitoring Well
- SW/VW-# — Air Sparge/Vapor Extraction Well
- S# — Triple Nested Sparge Well
- IP-# — Phase VII Injection Well (Estimated location)
- Remedial Progress Monitoring Well
- Treatment Area "F", September 2012

Notes

1) < 0.1 = not detected above stated reporting limit.
2) PhVII = Phase VII
   TOC = total organic carbon
   DO = dissolved oxygen
   ORP = oxidation-reduction potential
   VFAs = volatile fatty acids
   mg/L = milligrams per liter
   mV = millivolts

N
W E
S

Approximate Scale in Feet

0 50 100

Figure 5
Selected Geochemical Parameters -
Former Tank T3 Area

Former Canoga Park Facility
8433 Fallbrook Ave, Canoga Park, California

OTIE
Oneida Total Integrated Enterprises

Date: October 19, 2012

File: Canoga_EISB.dwg

Tables

Table 1
EISB/ISCR Program Overview
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California

Injection Phase:	**EISB Phase I**		**EISB Phase II**			**EISB Phase III**	**EISB Phase IV**	**ISCR Phase V**	**EISB Phase VI**	**EISB Phase VII**
Treatment Area:	Area "A"	Area "B-I"	Area "A"	Area "B-II"	Area "C"	Area "D"	Area "E"	Area "H"	Area "G"	Area "F"
Injection points:	DPT points	S-12 through S-17	SW/VW-27	S-5 through S-11	DPT points	IP1	S-1 through S-5	Injection wells	IP-07 through IP-10	IP-02 through IP-06, S-16, S-17
No. of injection points:	27	18	1	21	14	1	15	4	4	7
No.of attempted injection points:	28	18	1	21	14	1	15	4	4	7
Injection depths (feet bgs):	30 - 50	34 - 50	50 - 55	29 - 50	30 - 52	50 - 70	29 - 50	30 - 50	40 - 60	45 - 60
Substrate injections:	10/3-7/05	10/6-8/05	05/24/06	5/23-24/06	5/22-23/06	12/28/06	10/26/09 - 11/3/09	6/16-17/10	5/9-11/11	9/24-27/12
Summary Reference	*Enhanced In Situ Bioremediation Progress Report, Fourth Quarter 2005* TN&A Jan 2006		*Enhanced In Situ Bioremediation Progress Report, Second Quarter 2006* TN&A Jul 2006			*Enhanced In Situ Bioremediation Progress Report, Fourth Quarter 2006* TN&A Jan 2007	*Enhanced In Situ Bioremediation Progress Report, Fourth Quarter 2009 and Annual Summary 2009* OTIE Feb 2010	*Enhanced In Situ Bioremediation and In Situ Chemical Reduction Progress Report, Second Quarter 2010* OTIE Aug 2010	*Enhanced In Situ Bioremediation and In Situ Chemical Reduction Progress Report, Second Quarter 2011* OTIE Aug 2011	*Enhanced In Situ Bioremediation and In Situ Chemical Reduction Progress Report, Third Quarter 2012* OTIE Nov 2012
EISB/ISCR RPM Events										
Baseline	10/02/05		4/23/06			12/28/06	10/23-26/09	6/8/10	5/5/11	09/18/12
Month #1	11/13/05		--			--	11/30/09 - 12/3/09	7/7/10	6/16/11	October 2012
Month #2	--		7/15-06/06			2/18/07	--	--	--	--
Month #3	1/21-22/06		--			--	2/2/10	9/16/10	9/22/11	December 2012
Month #6	4/23/06		11/04-05/06			5/14/07	6/9/10	12/21/10	11/30/11	March 2013
Month #9	7/15-16/06		2/18/07			8/24/07	9/15/10	3/15/11	3/27/12	June 2013
Month #12	11/04-05/06		5/13-14/07			11/4/07	12/20/10	6/8/11	5/31/12	September 2013
Month #18	5/13/07		11/04/07			6/30/08 - 7/2/08	6/9/11	12/7/11	December 2012	December 2013 (Month #15)
Month #24	NA		NA			NA	11/29/11	6/4/12	June 2013	June 2014 (M #21)
Month #30	NA		NA			NA	5/30/12	December 2012	December 2013	December 2014
Month #36	NA		NA			NA	December 2012	June 2013	June 2014	June 2015

Notes:
1) feet bgs = feet below ground surface
2) EISB = enhanced *in situ* bioremediation
3) ISCR = *in situ* chemical reduction
4) RPM = remedial progress monitoring
5) Blue indicates a future monitoring event
6) "Summary Reference" refers to the document which presents the details for each of the injection events.

Table 2
Well Construction and Survey Data
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California

Well Identification	Type	Date Installed	Drilling Method	Depth Zone/ Formation Screened	Northing or Latitude	Easting or Longitude	Top of Casing Elevation	Vault Cover Elevation	Casing Diameter (inches) & Type	Screen Interval (feet bgs)	Screen Slot Size (inches) & Type	Filter Pack Material	Constructed Total Depth (feet bgs)	Borehole Diameter (inches)
SITEWIDE MONITORING WELLS														
M-1	Monitoring Well	12/09/88	Air-rotary	Modelo	--	--	882.42	--	4, PVC	50-70	0.030, PVC	No. 3 Sand	70	10
CM-2	Monitoring Well	06/29/85	HSA	Modelo	--	--	879.15*	--	2, PVC	8.5-13.5	0.030, PVC	No. 3 Sand	13.5	9
CM-2D	Monitoring Well	07/17/90	HSA	Modelo	1037.507	762.816	876.50	--	4, SS	20-60	0.020, Wire-Wrap SS	No. 3 Sand	60	12
CM-3	Monitoring Well	06/29/85	HSA	Modelo	--	--	883.88*	--	2, PVC	8.8-13.8	0.030, PVC	No. 3 Sand	13.8	9
CM-4	Monitoring Well	06/29/85	HSA	Modelo	--	--	883.41*	--	2, PVC	5.8-9.0	0.030, PVC	No. 3 Sand	9	9
CM-4D	Monitoring Well	08/09/90	Mud rotary	Modelo	907.386	980.709	887.46	--	4, SS	20-60	0.020, Wire-Wrap SS	No. 3 Sand	60	12
CM-5	Monitoring Well	06/29/85	HSA	Alluvium	792.282	1008.736	884.90	--	2, PVC	27.1-37.1	0.030, PVC	No. 3 Sand	37.1	9
CM-6D	Monitoring Well	07/26/90	HSA	Modelo	652.125	738.150	876.55	--	4, SS	30-70	0.020, Wire-Wrap SS	No. 3 Sand	70	12
CM-7	Monitoring Well	06/30/85	HSA	Alluvium	958.807	261.382	859.88	--	2, PVC	19-39	0.030, PVC	No. 3 Sand	39	9
CM-7I	Monitoring Well	12/14/92	HSA	Alluvium	971.037	239.806			3, PVC	52-62	0.030, PVC	No. 3 Sand	62	14
CM-7D	Monitoring Well	12/14/92	HSA	Modelo	971.037	239.806	859.79	--	3, PVC	70-75	0.020, PVC	--	75	14
CM-8	Monitoring Well	06/30/85	HSA	Modelo	--	--	885.35*	--	2, PVC	8.5-13.5	0.030, PVC	No. 3 Sand	13.5	9
CM-8D	Monitoring Well	06/19/90	HSA	Modelo	358.921	1620.624	885.52	--	4, SS	30-70	0.020, Wire-Wrap SS	No. 3 Sand	70	12
CM-9	Monitoring Well	06/28/85	HSA	Modelo	--	--	873.22*	--	2, PVC	17.7-27.7	0.030, PVC	No. 3 Sand	27.7	9
CM-9D	Monitoring Well	07/30/90	Mud rotary	Modelo	--	--	873.29	--	4, SS	20-60	0.020, Wire-Wrap SS	No. 3 Sand	60	12
CM-10	Monitoring Well	06/28/85	HSA	Modelo	-860.722	1836.996	850.78	--	2, PVC	32-52	0.030, PVC	No. 3 Sand	52	9
CM-11	Monitoring Well	11/16/88	HSA	Alluvium	-531.596	500.084	--	--	--	--	--	--	--	--
CM-11A	Monitoring Well	--	--	Alluvium	34.221	118.628	862.59	863.04	4, PVC	43-73	0.020, PVC	--	73	10
CM-12	Monitoring Well	11/18/88	HSA	Alluvium	34.223	118.629	875.80	876.08	4, PVC	46-66	0.030, PVC	No. 3 Sand	65.5	10
CM-13	Monitoring Well	11/21/88	HSA	Alluvium	1015.209	443.494	868.39	--	4, PVC	39-74	0.030, PVC	No. 3 Sand	74	10
CM-14	Monitoring Well	11/10/88	HSA	Alluvium	1263.516	55.511	858.65	--	4, PVC	18-33	0.030, PVC	No. 3 Sand	33	10
CM-15	Monitoring Well	09/24/91	HSA	Modelo	34.223	118.624	852.46	852.80	4, SS	40-70	0.020, Wire-Wrap SS	2/12 Sand	70	10
CM-16	Monitoring Well	09/26/91	HSA	Modelo	34.225	118.628	892.41	892.68	4, SS	40-70	0.020, Wire-Wrap SS	2/12 Sand	70	10
CM-17	Monitoring Well	09/27/91	HSA	Alluvium	34.220	118.624	846.26	846.77	4, SS	45-75	0.020, Wire-Wrap SS	2/12 Sand	75	10
CM-18	Monitoring Well	09/30/91	HSA	Modelo	34.224	118.626	887.89	888.66	4, SS	41-72	0.020, Wire-Wrap SS	2/12 Sand	70	10
CM-19	Monitoring Well	--	--	Alluvium	1326.088	687.961	908.17	--	4, PVC	69-99	0.020, PVC	--	99	10
MW-15	Monitoring Well	08/03/90	Mud rotary	Modelo	1018.556	442.350	868.23	--	4, SS	92-101.5	0.020, Wire-Wrap SS	No. 3 Sand	101.5	10
MW-16	Monitoring Well	07/20/90	Mud rotary	Modelo	1067.147	883.391	882.19	--	4, SS	100-120	0.020, Wire-Wrap SS	No. 3 Sand	120	10
MW-17	Monitoring Well	07/10/90	HSA	Alluvium	1143.878	960.388	883.52	--	2, SS	37-47	0.020, Wire-Wrap SS	No. 3 Sand	47	10
MW-19S	Monitoring Well	06/20/90	HSA	Alluvium	963.068	93.078	860.66	--	2, SS	20-30	0.020, Wire-Wrap SS	No. 3 Sand	30	10
MW-19D	Monitoring Well	06/20/90	HSA	Alluvium	958.817	92.700	860.38	--	2, SS	80-100	0.020, Wire-Wrap SS	No. 3 Sand	100	10
MW-20S	Monitoring Well	06/15/90	HSA	Alluvium	690.555	160.819	858.03	--	2, SS	30-40	0.020, Wire-Wrap SS	No. 3 Sand	40	10
MW-20D	Monitoring Well	06/18/90	HSA	Alluvium	693.120	157.087	858.35	--	2, SS	60-80	0.020, Wire-Wrap SS	No. 3 Sand	80	10
MW-21S	Monitoring Well	07/10/90	HSA	Alluvium	-119.072	394.180	849.95	--	2, SS	20-40	0.020, Wire-Wrap SS	No. 3 Sand	40	10
MW-21D	Monitoring Well	06/27/90	HSA	Modelo	-117.094	403.712	849.93	--	2, SS	70-80	0.020, Wire-Wrap SS	No. 3 Sand	80	10
MW-22S	Monitoring Well	06/13/90	HSA	Alluvium	--	--	840.49	--	2, SS	30-40	0.020, Wire-Wrap SS	No. 3 Sand	40	10
MW-22D	Monitoring Well	06/12/90	HSA	Alluvium	--	--	840.23	--	2, SS	70-90	0.020, Wire-Wrap SS	No. 3 Sand	90	10
MW-23	Monitoring Well	09/25/91	HSA	Modelo	34.225	118.629	873.66	874.22	4, SS	25-55	0.020, Wire-Wrap SS	2/12 Sand	55	10
MW-24	Monitoring Well	08/25/93	HSA	Modelo	34.224	118.626	877.29	877.66	4, PVC	35-65	0.020, PVC	2/12 Sand	65	10
MW-25	Monitoring Well	08/23/93	HSA	Modelo	34.223	118.626	890.28	890.72	4, PVC	40-70	0.020, PVC	2/12 Sand	70	10
MW-26	Monitoring Well	08/23/93	HSA	Modelo	130.661	1566.226	885.50	--	4, PVC	40-70	0.020, PVC	2/12 Sand	70	10
MW-27	Monitoring Well	08/24/93	HSA	Modelo	164.493	1719.764	877.51	--	4, PVC	35-65	0.020, PVC	2/12 Sand	65	10
MW-28	Monitoring Well	08/25/93	HSA	Modelo	-169.463	1164.285	890.90	--	4, PVC	43-73	0.020, PVC	2/12 Sand	73	10
MW-29	Monitoring Well	08/27/93	HSA	Modelo	-496.477	1687.823	867.36	--	4, PVC	35-65	0.020, PVC	2/12 Sand	65	10
MW-30	Monitoring Well	08/27/93	HSA	Modelo	-419.821	1844.456	858.11	--	4, PVC	28-58	0.020, PVC	2/12 Sand	58	10
MW-31	Monitoring Well	--	--	Modelo	--	--	864.70	--	--	--	--	--	--	--
MW-36	Monitoring Well	12/01/01	--	Modelo	34.2251010	118.6290094	879.28	879.65	4, PVC	30-40	0.010, PVC	--	40	--
MW-37	Monitoring Well	12/18/06	HSA	Shallow	34.2238322	118.6256113	889.34	889.73	4, PVC	50-60	0.010, PVC	2/16 Sand	60	12
MW-38	Monitoring Well	04/25/11	HSA	Shallow	1904740.79	6371600.78	881.91	882.18	4, PVC	40.8-60.2	0.010, PVC	2/16 Sand	60.7	10.5

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FORMER HAZARDOUS WASTE STORAGE AREA MONITORING WELLS														
MW-32S	Monitoring Well - HWSA	06/01/02	HSA	Shallow	1021.581	1010.198	887.10	887.53	2, PVC	35-45	0.02	No. 3 Sand	45	10
MW-32D	Monitoring Well - HWSA	06/01/02	HSA	Deep	1021.699	1010.422	887.05	887.53	2, PVC	50-55	0.02	No. 3 Sand	55	10
VW-122	Monitoring Well - HWSA	06/01/02	HSA	Shallow	973.799	972.572	885.43	--	3, PVC	25-40	0.02	No. 3 Sand	40	10
MW-33	Monitoring Well - HWSA	06/01/02	HSA	Deep	978.450	963.839	885.40	885.71	2, PVC	49-59	0.02	No. 3 Sand	59	10
MW-34S	Monitoring Well - HWSA	06/01/02	HSA	Shallow	983.403	1041.036	888.85	889.22	2, PVC	35-45	0.02	No. 3 Sand	45	10
MW-34D	Monitoring Well - HWSA	06/01/02	HSA	Deep	983.399	1041.338	888.88	889.22	2, PVC	50-55	0.02	No. 3 Sand	55	10
MW-35S	Monitoring Well - HWSA	06/01/02	HSA	Shallow	1059.600	1007.238	887.35	887.70	2, PVC	35-45	0.02	No. 3 Sand	45	10
MW-35D	Monitoring Well - HWSA	06/01/02	HSA	Deep	1059.679	1007.493	887.34	887.70	2, PVC	50-55	0.02	No. 3 Sand	55	10
GROUNDWATER RECOVERY WELLS														
RW-01	Recovery Well	01/04/93	HSA	Alluvium	34.225	118.631	860.71	861.56	6	10-50	0.020, PVC	No. 3 Sand	50	14
RW-02	Recovery Well	12/21/92	HSA	Alluvium	1018.904	248.292	--	--	4	10-50	0.020, Wire-Wrap SS	No. 3 Sand	50	14
RW-03	Recovery Well	12/21/92	HSA	Alluvium	919.747	243.929	--	--	6	10-50	0.020, PVC	No. 3 Sand	50	14
RW-04	Recovery Well	12/22/92	HSA	Alluvium	840.980	302.030	--	--	6	10-50	0.020, PVC	No. 3 Sand	50	14
RW-05	Recovery Well	01/04/93	HSA	Alluvium	804.119	401.320	--	--	6	10-50	0.020, PVC	No. 3 Sand	50	14
RW-06	Recovery Well	03/25/93	HSA	Modelo	1037.890	758.983	--	--	5, PVC	19-69	0.020, PVC	No. 3 Sand	70	12
RW-07	Recovery Well	--	HSA	Modelo	755.186	533.602	--	--	5	20-60	0.020 V-Wrap	--	65	--
RW-08	Recovery Well	--	HSA	Modelo	633.459	668.750	--	--	5	25-65	0.020 V-Wrap	--	70	--
RW-09	Recovery Well	--	HSA	Modelo	668.127	835.536	--	--	5	25-65	0.020 V-Wrap	--	70	--
RW-10	Recovery Well	--	HSA	Modelo	1129.300	405.545	--	--	5	15-55	0.020 V-Wrap	--	60	--
RW-11	Recovery Well	--	HSA	Modelo	1120.710	580.560	--	--	5	25-65	0.020 V-Wrap	--	70	--
RW-12	Recovery Well	Abandoned	HSA	Modelo	919.251	599.028	--	--	5	20-60	0.020 V-Wrap	--	60	--
RW-13	Recovery Well	--	HSA	Modelo	968.807	798.410	--	--	5	25-65	0.020 V-Wrap	--	70	--
RW-14	Recovery Well	--	HSA	Modelo	1095.944	785.611	--	--	5	15-55	0.020 V-Wrap	--	60	--
RW-15	Recovery Well	--	HSA	Modelo	1089.803	979.441	--	--	5	29-69	0.020 V-Wrap	--	74	--
RW-16	Recovery Well	--	HSA	Modelo	940.407	981.779	--	--	5	25-65	0.020 V-Wrap	--	70	--
RW-17	Recovery Well	Abandoned	HSA	Modelo	792.545	1016.686	--	--	5	25-65	0.020 V-Wrap	--	70	--
VAPOR EXTRACTION WELLS AND AIR SPARGE/INJECTION WELLS														
IP-01	Injection Well	12/28/06	HSA		35.223900	118.625852	886.62	886.93	2, PVC	50 - 70	0.020, PVC	2/16 Sand	70	
IP-02	Injection Well	09/10/12	HSA	--	--	--	--	--	2, PVC	45.3-59.9	0.020, PVC	#2/12 Sand	60.3	8.5
IP-03	Injection Well	09/11/12	HSA	--	--	--	--	--	2, PVC	45.9-60.3	0.020, PVC	#2/12 Sand	60.8	8.5
IP-04	Injection Well	09/12/12	HSA	--	--	--	--	--	2, PVC	46.7-61.3	0.020, PVC	#2/12 Sand	61.7	8.5
IP-05	Injection Well	09/12/12	HSA	--	--	--	--	--	2, PVC	46.0-60.5	0.020, PVC	#2/12 Sand	61.0	8.5
IP-06	Injection Well	09/13/12	HSA	--	--	--	--	--	2, PVC	46.0-60.5	0.020, PVC	#2/12 Sand	61.0	8.5
IP-07	Injection Well	04/26/11	HSA	--	1904830.53	6371723.53	887.23	887.55	2, PVC	40.7-60.2	0.020, PVC	2/12 Sand	60.7	8.5
IP-08	Injection Well	04/27/11	HSA	--	1904812.74	6371731.43	887.76	888.04	2, PVC	40.9-60.4	0.020, PVC	2/12 Sand	60.9	8.5
IP-09	Injection Well	04/27/11	HSA	--	1904805.74	6371736.45	888.07	888.39	2, PVC	40.8-60.2	0.020, PVC	2/12 Sand	60.6	8.5
IP-10	Injection Well	04/28/11	HSA	--	1904793.08	6371741.11	888.45	888.67	2, PVC	40.9-60.4	0.020, PVC	2/12 Sand	60.9	8.5
IP-HWSA-01	Injection Well	06/04/10	HSA	--	1904914.47	6371718.62	887.04	--	2, CPVC	33.5-52.8	0.020, CPVC	2/12 Sand	53.2	8
IP-HWSA-02	Injection Well	06/04/10	HSA	--	1904914.96	6371728.34	887.45	--	2, CPVC	34.8-54.0	0.020, CPVC	2/12 Sand	54.5	8
IP-HWSA-03	Injection Well	06/03/10	HSA	--	1904913.91	6371740.22	888.00	--	2, CPVC	33.3-52.5	0.020, CPVC	2/12 Sand	53.0	8
IP-HWSA-04	Injection Well	06/03/10	HSA	--	1904915.02	6371748.57	888.28	--	2, CPVC	34.8-54.0	0.020, CPVC	2/12 Sand	54.5	8
VE-1	Extraction/Injection Well	03/29/93	HSA	Vadose/Shallow	1046.448	750.162	--	--	4, PVC	20-50	0.020, PVC	2/12 Sand	50	10
VE-2	Extraction/Injection Well	03/24/93	HSA	Vadose/Shallow	34.224	118.631	--	--	4, PVC	10-30	0.020, PVC	2/12 Sand	30	10
VE-3	Extraction/Injection Well	03/24/93	HSA	Vadose/Shallow	940.523	263.689	--	--	4, PVC	10-30	0.020, PVC	2/12 Sand	30	10
VP-1	Extraction/Injection Well	03/30/93	HSA	Vadose/Shallow	--	--	--	--	2, PVC	19-21', 29-31', 39-41'	0.020, PVC	2/12 Sand	42	8
AS-1	Extraction/Injection Well	03/24/93	HSA	Vadose/Shallow	--	--	--	--	2, PVC	55-60'	0.020, PVC	2/12 Sand	60	8
VW-101	Vapor Extraction	--	--	Vadose/Shallow	1107.971	660.632	--	--	3, PVC	20-35	0.020 V-Wrap	--	35	--
VW-102	Vapor Extraction	--	--	Vadose/Shallow	--	--	--	--	3, PVC	20-35	0.020 V-Wrap	--	35	--
VW-103	Vapor Extraction	--	--	Vadose/Shallow	950.633	583.547	--	--	3, PVC	19-34	0.020 V-Wrap	--	35	--
VW-104	Vapor Extraction	--	--	Vadose/Shallow	931.870	662.512	--	--	3, PVC	20-35	0.020 V-Wrap	--	35	--
VW-105	Vapor Extraction	--	--	Vadose/Shallow	935.929	696.421	--	--	3, PVC	20-35	0.020 V-Wrap	--	35	--
VW-106	Vapor Extraction	--	--	Vadose/Shallow	1054.484	595.583	--	--	3, PVC	19-34	0.020 V-Wrap	--	35	--
VW-107	Vapor Extraction	--	--	Vadose/Shallow	1117.316	585.559	--	--	3, PVC	20-35	0.020 V-Wrap	--	35	--
VW-108	Vapor Extraction	--	--	Vadose/Shallow	1119.029	469.482	--	--	3, PVC	13-28	0.020 V-Wrap	--	30	--
VW-109	Vapor Extraction	--	--	Vadose/Shallow	1126.484	347.122	--	--	3, PVC	12-27	0.020 V-Wrap	--	29	--
VW-110	Vapor Extraction	--	--	Vadose/Shallow	1067.342	299.870	--	--	3, PVC	10.5-25.5	0.020 V-Wrap	--	27.5	--
VW-111	Vapor Extraction	--	--	Vadose/Shallow	941.324	299.160	--	--	3, PVC	12.5-27.5	0.020 V-Wrap	--	30	--
VW-112	Vapor Extraction	--	--	Vadose/Shallow	890.339	359.142	--	--	3, PVC	12-27	0.020 V-Wrap	--	30	--
VW-113	Vapor Extraction	--	--	Vadose/Shallow	881.044	481.224	--	--	3, PVC	14.5-29.5	0.020 V-Wrap	--	30	--

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VW-114	Vapor Extraction	--	--	Vadose/Shallow	--	--	--	--	3, PVC	20-35	0.020 V-Wrap	--	35	--
VW-115	Vapor Extraction	--	--	Vadose/Shallow	1094.711	856.022	--	--	3, PVC	20-35	0.020 V-Wrap	--	35	--
VW-116	Vapor Extraction	--	--	Vadose/Shallow	973.772	785.667	--	--	3, PVC	26-41	0.020 V-Wrap	--	41	--
VW-117	Vapor Extraction	--	--	Vadose/Shallow	994.906	857.937	--	--	3, PVC	20-35	0.020 V-Wrap	--	35	--
VW-118	Vapor Extraction	--	--	Vadose/Shallow	996.309	912.496	--	--	3, PVC	20-35	0.020 V-Wrap	--	37	--
VW-119	Vapor Extraction	--	--	Vadose/Shallow	1086.950	918.102	879.89	885.04	3, PVC	25-40	0.020 V-Wrap	--	41	--
VW-120	Vapor Extraction	--	--	Vadose/Shallow	1090.059	995.265	--	--	3, PVC	31-46	0.020 V-Wrap	--	46	--
VW-121	Vapor Extraction	--	--	Vadose/Shallow	1041.959	984.418	883.44	887.05	3, PVC	28-43	0.020 V-Wrap	--	44	--
VW-122	Vapor Extraction	--	--	Vadose/Shallow	973.858	972.665	885.43	--	3, PVC	25-40	0.020 V-Wrap	--	40	--
VW-123	Vapor Extraction	--	--	Vadose/Shallow	887.435	994.429	--	--	3, PVC	25-40	0.020 V-Wrap	--	40	--
VW-124	Vapor Extraction	--	--	Vadose/Shallow	806.454	1011.436	--	--	3, PVC	25-40	0.020 V-Wrap	--	40	--
VW-126	Vent	12/01/01	--	Vadose/Shallow	34.225	118.631	862.08	862.59	2, PVC	15-30	0.020, PVC	--	30	--
VW-127	Vent	12/01/01	--	Vadose/Shallow	34.225	118.630	864.79	865.48	2, PVC	15-30	0.020, PVC	--	30	--
VW-128	Vent	12/01/01	--	Vadose/Shallow	34.225	118.630	869.99	870.39	2, PVC	15-30	0.020, PVC	--	30	--
SW/VW-1	Dual Completion:								--	--	--			
	Sparge	--	--	--	--	--	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	--	--	--	--	3, PVC	15-30	0.020	--	--	--
SW/VW-2	Dual Completion:								--	--	--	--	--	--
	Sparge	--	--	--	--	--	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	--	--	--	--	3, PVC	15-30	0.020	--	--	--
SW/VW-3	Dual Completion:								--	--	--	--	--	--
	Sparge	--	--	--	1087.427	628.322	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	1087.427	628.322	--	--	3, PVC	15-30	0.020	--	--	--
SW/VW-4	Dual Completion:								--	--	--	--	--	--
	Sparge	--	--	--	1026.403	625.314	--	--	2, PVC	520-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	1026.403	625.314	--	--	3, PVC	15-30	0.020	--	--	--
SW/VW-5	Dual Completion:								--	--	--	--	--	--
	Sparge	--	--	--	1020.702	678.838	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	1020.702	678.838	--	--	3, PVC	20-35	0.020	--	--	--
SW/VW-6	Dual Completion:								--	--	--	--	--	--
	Sparge	--	--	--	995.453	656.112	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	995.453	656.112	--	--	3, PVC	20-35	0.020	--	--	--
SW/VW-7	Dual Completion:								--	--	--	--	--	--
	Sparge	--	--	--	965.973	623.700	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	965.673	623.700	--	--	3, PVC	15-30	0.020	--	--	--
SW/VW-8	Dual Completion:								--	--	--	--	--	--
	Sparge	--	--	--	963.381	687.862	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	963.381	687.862	--	--	3, PVC	20-35	0.020	--	--	--
SW/VW-9	Dual Completion:								--	--	--	--	--	--
	Sparge	--	--	--	944.586	529.993	--	--	2, PVC	50.5-55.5	0.015 V-Wrap	--	55.5	--
	Vapor Extraction	--	--	--	944.586	529.993	--	--	3, PVC	15-30	0.020	--	--	--
SW-VW-10	Dual Completion:								--	--	--	--	--	--
	Sparge	--	--	--	1062.099	515.378	--	--	2, PVC	50-55	0.015 V-Wrap	--	5	--
	Vapor Extraction	--	--	--	1062.099	515.378	--	--	3, PVC	15-30	0.020	--	--	--
SW/VW-11	Dual Completion:								--	--	--	--	--	--
	Sparge	--	--	--	1065.597	406.187	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	1065.597	406.187	--	--	3, PVC	15-30	0.020	--	--	--
SW/VW-12	Dual Completion:								--	--	--	--	--	--
	Sparge	--	--	--	1004.128	469.309	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	1004.128	469.309	--	--	3, PVC	15-30	0.020	--	--	--
SW/VW-13	Dual Completion:								--	--	--	--	--	--
	Sparge	--	--	--	1004.785	354.984	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	1004.785	354.984	--	--	3, PVC	156-30	0.020	--	--	--
SW/VW-14	Dual Completion:								--	--	--	--	--	--
	Sparge	--	--	--	1005.684	468.159	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	1005.684	468.159	--	--	3, PVC	15-35	0.020	--	--	--
SWVW-15	Dual Completion:								--	--	--	--	--	--
	Sparge	--	--	--	1054.597	725.825	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	1054.597	725.825	--	--	3, PVC	20-35	0.020	--	--	--
SW/VW-16	Dual Completion:								--	--	--	--	--	--
	Sparge	--	--	--	1024.616	753.671	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	1024.616	753.671	--	--	3, PVC	20-35	0.020	--	--	--

Table 2
Well Construction and Survey Data
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California

Well Identification	Type	Date Installed	Drilling Method	Depth Zone/ Formation Screened	Northing or Latitude	Easting or Longitude	Top of Casing Elevation	Vault Cover Elevation	Casing Diameter (inches) & Type	Screen Interval (feet bgs)	Screen Slot Size (inches) & Type	Filter Pack Material	Constructed Total Depth (feet bgs)	Borehole Diameter (inches)
	Dual Completion:								--	--	--	--	--	--
SW/VW-17	Sparge	--	--	--	994.563	724.966	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	994.563	724.966	--	--	3, PVC	20-35	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-18	Sparge	--	--	--	1051.697	792.978	--	--	2, PVC	55-60	0.015 V-Wrap	--	60	--
	Vapor Extraction	--	--	--	1051.697	792.978	--	--	3, PVC	20-35	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-19	Sparge	--	--	--	1074.749	760.619	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	1074.749	760.619	--	--	3, PVC	20-35	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-20	Sparge	--	--	--	1072.712	824.592	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	1072.712	824.592	--	--	3, PVC	20-35	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-21	Sparge	--	--	--	990.478	783.488	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	990.478	783.488	--	--	3, PVC	20-35	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-22	Sparge	--	--	--	975.336	797.490	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	975.336	797.490	--	--	3, PVC	20-35	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-23	Sparge	--	--	--	1018.799	825.091	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	1018.799	825.091	--	--	3, PVC	20-35	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-24	Sparge	--	--	--	--	--	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	--	--	--	--	3, PVC	20-35	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-25	Sparge	--	--	--	1017.353	884.375	--	--	2, PVC	55-60	0.015 V-Wrap	--	60	--
	Vapor Extraction	--	--	--	1017.353	884.375	--	--	3, PVC	23-38	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-26	Sparge	--	--	--	1043.431	922.923	--	--	2, PVC	55-60	0.015 V-Wrap	--	60	--
	Vapor Extraction	--	--	--	1043.431	922.923	--	--	3, PVC	25-40	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-27	Sparge	--	--	--	1063.559	892.836	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	1063.559	892.830	--	--	3, PVC	20-35	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-28	Sparge	--	--	--	--	--	--	--	2, PVC	55-60	0.015 V-Wrap	--	60	--
	Vapor Extraction	--	--	--	--	--	--	--	3, PVC	25-40	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-29	Sparge	--	--	--	1013.645	939.760	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--	1013.645	939.760	--	--	3, PVC	20-35	0.020	--	--	--
	Dual Completion:								--	--	--	--	--	--
SW/VW-30	Sparge	--	--	--	995.435	591.630	--	--	2, PVC	50-55	0.015 V-Wrap	--	55	--
	Vapor Extraction	--	--	--			--	--	3, PVC	15-30	0.020	--	--	--
				Shallow	34.2247756	118.6307196	--	862.73	1	29 - 30	0.01	--	30	--
S-1	Sparge	12/01/01	--	Mid	34.2247756	118.6307196	--	862.73	1	39 - 40	0.01	--	40	--
				Deep	34.2247756	118.6307196	--	862.73	1	49 - 50	0.01	--	50	--
				Shallow	34.2248475	118.6306458	--	863.44	1	29 - 30	0.01	--	30	--
S-2	Sparge	12/01/01	--	Mid	34.2248475	118.6306458	--	863.44	1	39 - 40	0.01	--	40	--
				Deep	34.2248475	118.6306458	--	863.44	1	49 - 50	0.01	--	50	--
				Shallow	34.2249103	118.6305517	--	864.24	1	29 - 30	0.01	--	30	--
S-3	Sparge	12/01/01	--	Mid	34.2249103	118.6305517	--	864.24	1	39 - 40	0.01	--	40	--
				Deep	34.2249103	118.6305517	--	864.24	1	49 - 50	0.01	--	50	--
				Shallow	34.2249580	118.6304437	--	865.14	1	29 - 30	0.01	--	30	--
S-4	Sparge	12/01/01	--	Mid	34.2249580	118.6304437	--	865.14	1	39 - 40	0.01	--	40	--
				Deep	34.2249580	118.6304437	--	865.14	1	49 - 50	0.01	--	50	--
				Shallow	34.2249696	118.6303154	--	866.48	1	29 - 30	0.01	--	30	--
S-5	Sparge	12/01/01	--	Mid	34.2249696	118.6303154	--	866.48	1	39 - 40	0.01	--	40	--
				Deep	34.2249696	118.6303154	--	866.48	1	49 - 50	0.01	--	50	--
				Shallow	34.2249811	118.6302014	--	867.84	1	29 - 30	0.01	--	30	--
S-6	Sparge	12/01/01	--	Mid	34.2249811	118.6302014	--	867.84	1	39 - 40	0.01	--	40	--
				Deep	34.2249811	118.6302014	--	867.84	1	49 - 50	0.01	--	50	--

Table 2
Well Construction and Survey Data
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California

Well Identification	Type	Date Installed	Drilling Method	Depth Zone/ Formation Screened	Northing or Latitude	Easting or Longitude	Top of Casing Elevation	Vault Cover Elevation	Casing Diameter (inches) & Type	Screen Interval (feet bgs)	Screen Slot Size (inches) & Type	Filter Pack Material	Constructed Total Depth (feet bgs)	Borehole Diameter (inches)
S-7	Sparge	12/01/01	--	Shallow	34.2249925	118.6300808	--	869.14	1	29 - 30	0.01	--	30	--
				Mid	34.2249925	118.6300808	--	869.14	1	39 - 40	0.01	--	40	--
				Deep	34.2249925	118.6300808	--	869.14	1	49 - 50	0.01	--	50	--
S-8	Sparge	12/01/01	--	Shallow	34.2250038	118.6299665	--	870.13	1	29 - 30	0.01	--	30	--
				Mid	34.2250038	118.6299665	--	870.13	1	39 - 40	0.01	--	40	--
				Deep	34.2250038	118.6299665	--	870.13	1	49 - 50	0.01	--	50	--
S-9	Sparge	12/01/01	--	Shallow	34.2250135	118.6298469	--	871.31	1	29 - 30	0.01	--	30	--
				Mid	34.2250135	118.6298469	--	871.31	1	39 - 40	0.01	--	40	--
				Deep	34.2250135	118.6298469	--	871.31	1	49 - 50	0.01	--	50	--
S-10	Sparge	12/01/01	--	Shallow	34.2250236	118.6297300	--	872.23	1	29 - 30	0.01	--	30	--
				Mid	34.2250236	118.6297300	--	872.23	1	39 - 40	0.01	--	40	--
				Deep	34.2250236	118.6297300	--	872.23	1	49 - 50	0.01	--	50	--
S-11	Sparge	12/01/01	--	Shallow	34.2250373	118.6296110	--	873.09	1	34 - 35	0.01	--	35	--
				Mid	34.2250373	118.6296110	--	873.09	1	42 - 43	0.01	--	43	--
				Deep	34.2250373	118.6296110	--	873.09	1	49 - 50	0.01	--	50	--
S-12	Sparge	12/01/01	--	Shallow	34.2250152	118.6294952	--	873.71	1	34 - 35	0.01	--	35	--
				Mid	34.2250152	118.6294952	--	873.71	1	42 - 43	0.01	--	43	--
				Deep	34.2250152	118.6294952	--	873.71	1	49 - 50	0.01	--	50	--
S-13	Sparge	12/01/01	--	Shallow	34.2250241	118.6293603	--	874.93	1	34 - 35	0.01	--	35	--
				Mid	34.2250241	118.6293603	--	874.93	1	42 - 43	0.01	--	43	--
				Deep	34.2250241	118.6293603	--	874.93	1	49 - 50	0.01	--	50	--
S-14	Sparge	12/01/01	--	Shallow	34.2250449	118.6292618	--	875.79	1	34 - 35	0.01	--	35	--
				Mid	34.2250449	118.6292618	--	875.79	1	42 - 43	0.01	--	43	--
				Deep	34.2250449	118.6292618	--	875.79	1	49 - 50	0.01	--	50	--
S-15	Sparge	12/01/01	--	Shallow	34.2250907	118.6291483	--	877.63	1	34 - 35	0.01	--	35	--
				Mid	34.2250907	118.6291483	--	877.63	1	42 - 43	0.01	--	43	--
				Deep	34.2250907	118.6291483	--	877.63	1	49 - 50	0.01	--	50	--
S-16	Sparge	12/01/01	--	Shallow	34.2251132	118.6290422	--	879.22	1	34 - 35	0.01	--	35	--
				Mid	34.2251132	118.6290422	--	879.22	1	42 - 43	0.01	--	43	--
				Deep	34.2251132	118.6290422	--	879.22	1	49 - 50	0.01	--	50	--
S-17	Sparge	12/01/01	--	Shallow	34.2251333	118.6289268	--	880.98	1	34 - 35	0.01	--	35	--
				Mid	34.2251333	118.6289268	--	880.98	1	42 - 43	0.01	--	43	--
				Deep	34.2251333	118.6289268	--	880.98	1	49 - 50	0.01	--	50	--

Notes:
1) bgs = below ground surface; HAS = hollow stem auger; PVC = poly vinyl chloride; SS = stainless steel; CPVC = chlorinated poly vinyl chloride
2) '--' = not available.
3) Latitude/longitude in decimal degree format.
4) Only recently-installed wells surveyed using latitude/longitude. All other wells surveyed in State of California Plane Coordinate System Zone 5 (NAD83) using NGVD029 for a vertical datum; or surveyed using an arbitraty onsite datum. City of Los Angeles Benchmark 06-04499 (elevation 839.288 feet above mean sea level) used for most surveying activities.
5) " * " = Top of casing elevation at the time of installtion. Not necessarily current.

Table 3
EISB Phase VII Substrate Injection Data - Former Tank T3 Area
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California

Injection Well ID	Injection Depth Interval (feet bgs)	Injection Date	Volume of EVO Substrate Injected (gallons)	Volume of Water Injected (gallons)	Average Injection Pressure (psi)	Flow Rate Range (gpm)	Average Flow Rate (gpm)	Comments
Former Tank T3 Treatment Area								
IP-02	45.3 - 59.9	09/27/12	78.6	1,550	24	8.0 - 14	10.0	No influence noted.
IP-03	45.9 - 60.3	09/27/12	78.6	1,540	24	2.0 - 10.1	8.5	No influence observed in MW-16 (screened 100 – 120 ft bgs); bailed clear water with no product
IP-04	46.7 - 61.3	09/25/12	78.6	1,550	20	2.0 - 10.1	8.5	Influenece observed in IP-05 during injections into IP-04. (5+ psi); no influence seen in IP-06
IP-05	46 - 60.5	09/24/12	78.6	1,550	23	4.1 - 12.9	8.0	Influence observed in IP-04 (water with cloudy/milky substrate flowed to top of casing). No influence observed in SW/VW-28 (no product or water in vault).
IP-06	46 - 60.5	09/26/12	78.6	1,550	20	7.8 - 9.9	9.0	Influence observed in IP-05 (2.5 – 5 psi).
S-16	49 - 50	09/25/12	78.6	1,550	56	6.2 - 7.2	6.5	Influence observed in MW-36 (bailed water with cloudy/milky substrate).
S-17	49 - 50	09/26/12	78.6	1,550	55	6.7 - 7.7	7.0	Influence observed in IP-03 (bailed water with cloudy/milky substrate). ROI observed up to approximately 40 feet between S-17 and IP-03.
Totals:	--	--	**550**	**10,840**	--	--	--	

Notes:

feet bgs = feet below ground surface
psi = pounds per square inch
gpm = gallons per minute
EISB = enhanced *in situ* bioremediation
ROI = radius of influence
"--" = not recorded or calculated
EVO = emulsified vegetable oil

Table 4
Selected Groundwater Monitoring Results – Former Tank T3 Area
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California

		Well Identification:	RW-11	RW-14		RW-15
		Sample Type:	N	N	FD	N
		Sample Date:	09/18/12	09/18/12	09/18/12	09/18/12
		Sampling Event:	PhVII Baseline	PhVII Baseline	PhVII Baseline	PhVII Baseline
Parameter	**Method**	**Units**				
Primary Chemicals of Concern						
Tetrachloroethene	EPA 8260B	µg/L	< 1.0	< 1.0	< 1.0	**2.7**
Trichloroethene	EPA 8260B	µg/L	< 1.0	**2.2**	**2.8**	**7.7**
cis-1,2-Dichloroethene	EPA 8260B	µg/L	< 1.0	**1.9**	**2.3**	< 1.0
1,1-Dichloroethene	EPA 8260B	µg/L	**57**	**160**	**190**	**41**
1,2-Dichloroethane	EPA 8260B	µg/L	< 0.5	**1.2 J**	**1.8 J**	< 0.5
1,1-Dichloroethane	EPA 8260B	µg/L	< 1.0	**2.8**	**3.5**	< 1.0
Vinyl chloride	EPA 8260B	µg/L	< 0.5	**44**	**54**	< 0.5
Volatile Fatty Acids						
Acetic acid	HPCL/UV	mg/L	< 4.0	< 4.0	--	< 4.0
Butyric acid	HPCL/UV	mg/L	< 4.0	< 4.0	--	< 4.0
Lactic acid	HPCL/UV	mg/L	< 4.0	< 4.0	--	< 4.0
Propionic acid	HPCL/UV	mg/L	< 4.0	< 4.0	--	< 4.0
Pyruvic Acid	HPCL/UV	mg/L	< 0.5	< 0.5	--	< 0.5
Dissolved Gases						
Ethane	RSK 175M	µg/L	< 1.0	< 1.0	--	< 1.0
Ethene	RSK 175M	µg/L	< 1.0	< 1.0	--	< 1.0
Methane	RSK 175M	µg/L	**17**	**465**	--	**85.4**
Carbon dioxide	RSK 175M	mg/L	**37**	**59.3**	--	**35.3**
Inorganic Parameters						
Total dissolved solids	EPA 160.1	mg/L	**2,100**	**1,340**	--	**1,200**
Total organic carbon	SM5310D	mg/L	**34**	**40**	--	**37**
Bromide	EPA 300.0	mg/L	**1.1**	**1.3**	--	**0.48**
Chloride	EPA 300.0	mg/L	**410**	**430**	--	**160**
Nitrate as N	EPA 300.0	mg/L	**84**	< 0.1	--	**0.7**
Nitrite as N	EPA 300.0	mg/L	< 0.1	< 0.1	--	< 0.1
Orthophosphate	EPA 300.0	mg/L	< 0.1	< 0.1	--	< 0.1
Sulfate	EPA 300.0	mg/L	**560**	**210**	--	**330**
Ferrous Iron	SM3500	mg/L	< 0.1	**2.82**	--	< 0.1
Field Measurements						
DO	Field	mg/L	**1.38**	**1.54**	--	**0.21**
ORP	Field	mV	**132**	**-80**	--	**-11**
pH	Field	pH units	**7.17**	**7.14**	--	**7.26**
Specific Conductivity	Field	mS/cm	**3.25**	**2.41**	--	**2.03**
Temperature	Field	^{o}C	**23.5**	**23.7**	--	**23.69**
Turbidity	Field	NTU	**29.2**	**61.2**	--	**68.9**
Major Cations						
Hexavalent Chromium	SW7199	µg/L	<1.0	<1.0	--	<1.0
Arsenic	EPA 200.8	mg/L	**0.0171**	**0.0158**	--	**0.0214**
Barium	EPA 200.8	mg/L	**0.0838**	**0.0971**	--	**0.0951**
Boron	EPA 200.8	mg/L	**1.2**	**0.387 J**	--	**0.471**
Cadmium	EPA 200.8	mg/L	< 0.001	< 0.001	--	**0.0012**
Calcium	EPA 200.8	mg/L	**277**	**246**	--	**186**
Chromium	EPA 200.8	mg/L	< 0.001	< 0.001	--	**0.0097**
Copper	EPA 200.8	mg/L	**0.00681**	**0.00163**	--	**0.00734**
Iron	EPA 200.8	mg/L	< 0.05	**3.63**	--	**0.277**
Lead	EPA 200.8	mg/L	< 0.001	< 0.001	--	**0.00121**
Magnesium	EPA 200.8	mg/L	**182**	**87.7**	--	**88.7**
Manganese	EPA 200.8	mg/L	**0.543**	**0.609**	--	**0.968**
Potassium	EPA 200.8	mg/L	**3.32**	**2.26**	--	**2.34**
Selenium	EPA 200.8	mg/L	**0.00151**	< 0.001	--	**0.00623**
Sodium	EPA 200.8	mg/L	**195**	**99.6**	--	**71.7**
Zinc	EPA 200.8	mg/L	**0.0299**	**0.0273 J**	--	**0.0841**
Mercury	EPA 245.1	mg/L	< 0.0002	< 0.0002	--	< 0.0002

Notes:

1) EISB = enhanced *in situ* bioremediation; DO = dissolved oxygen; ORP= oxidation-reduction potential; µg/L = micrograms per liter; mg/L = milligrams per liter; mV = millivolts; oC = degrees Celsius; mS/cm = milliSiemens per centimeter
2) " < " = Analyte was not detected above the stated reporting limit; "J" - quantitative estimate
3) "--" = Not applicable or not analyzed for
4) ▭ - Shaded in gray and **bolded** are concentrations exceeding 1,1-dichloroethene Corrective Action Plan goal of 60 µg/L.

Appendices

Appendix A	Well Installation Report
Appendix B	Historical Select Analytical Results
Appendix C	Purge Logs and Field Forms
Appendix D	Laboratory Reports
Appendix E	Raytheon Company Certification Statement Letter

Appendix A

Well Installation Report

TECHNICAL MEMORANDUM

Date: November 15, 2012

Prepared for: Ann Chang, Ph.D
California Regional Water Quality Control Board
Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, CA 90013

Prepared by: Oneida Total Integrated Enterprises, LLC
Lucas E. Budny, PG, Project Geologist
Jacques Marcillac, CHG, CEG, Project Manager

Re: Well Installation Report
Former Tank T3 Area, Former Canoga Park Facility
8433 Fallbrook Avenue, Canoga Park, California
WDR #R4-2007-0019 Series 092
Compliance File No. CI-8947

Dear Dr. Chang:

Oneida Total Integrated Enterprises, LLC (OTIE) has prepared this technical memorandum on behalf of Raytheon Company documenting the installation of five injection wells within the immediate vicinity of the Former Tank T3 Area. Wells were installed for remedial purposes at Raytheon's Former Canoga Park Facility located at 8433 Fallbrook Avenue, Canoga Park, California (Figure 1). The Former Tank T3 Area remedial action is Phase VII of continuing groundwater remediation at the site.

In the *Corrective Action Plan Addendum #3, Work Plan for Additional Enhanced In Situ Bioremediation (EISB) and In Situ Chemical Reduction Activities*, dated September 2008, OTIE proposed installing five groundwater injection wells in the Former Tank T3 Area. The request was approved by the Los Angeles Regional Water Quality Control Board in a letter dated February 23, 2009 (provided in Attachment A).

Injection wells IP-02, IP-03, IP-04, IP-05, and IP-06 were installed in the vicinity of the Former Tank T3 Area between September 10 and 14, 2012. Well development of the recently installed injection wells occurred between September 17 and 18, 2012. The injection wells were installed to implement an EISB program to accelerate the degradation of 1,1-dichloroethene (1,1-DCE) within in the vicinity of the Former Tank T3 Area.

Activities described herein include:

- Pre-field activities, including obtaining required permits and notifying Underground Service Alert of Southern California;
- Performing a geophysical survey to identify and locate utilities and other subsurface anomalies;
- Installation of the new remedial wells;
- Well development;

- Surveying of the well locations; and
- Disposal of investigation-derived waste.

Pre-Field Activities

Following approval to execute work in the Former Tank T3 Area, a well installation permit number 890438-13-17 was obtained from the County of Environmental Health Division of Los Angeles County (provided in Attachment A). A site-specific safety and health plan was prepared in advance and implemented during well installation and development activities.

Underground Service Alert of Southern California was notified of the intent to drill and issued the following ticket number: A22491348-00A. A geophysical line locator (Spectrum Geophysics of Los Angeles, California) was contracted to clear the drilling locations of subsurface utilities under the direction of an OTIE representative on September 6, 2012.

Installation of Wells

Injection wells IP-02, IP-03, IP-04, IP-05, and IP-06 were installed using a CME 95 hollow stem auger rig operated by Gregg Drilling and Testing, Inc. (Gregg) of Signal Hill, California, between September 10 and 14, 2012. All site activities were conducted under the direction of an experienced OTIE geologist. The locations of the new wells are presented on Figure 2. Prior to drilling, boreholes were cleared to depths between 6.5 and 10.5 feet below ground surface (bgs) using a hand auger because of known utilities within the immediate area of the proposed boring locations.

Borings were advanced with 8.5-inch diameter augers. Two well locations (IP-02 and IP-04) were continuously sampled to total depth with successive discrete sample using either a 1.5-inch by 18-inch or 1.5-inch by 24-inch standard penetration test sampler for soil logging purposes. All borehole geology was logged from soil samples by an experienced OTIE field geologist using the Unified Soil Classification System (USCS) and knowledge of the site geology. Each sample interval was field-screened for volatile organic compounds (VOCs) using a calibrated photoionization detector (PID). The soil cuttings from the non-cored borings were also field-screened for VOCs using a PID. All USCS descriptions, PID readings, and well construction details are included on the boring logs provided in Attachment B.

No significant VOC concentrations, odors, or staining were observed during drilling activities at any of the borings. Lithologies observed in borings IP-02 and IP-04 were generally consistent with other borings within the vicinity of Former Tank T3 Area as described below:

- 0.0 feet bgs to 0.8 feet bgs: Pavement;
- 0.8 feet bgs to 5.5 feet bgs: Fill; and
- 5.5 feet bgs to total depths (60 to 65 feet bgs): Weathered siltstone.

Boring logs for wells IP-02, IP-04, and as-built diagrams of wells IP-03, IP-05, and IP-06 Attachment B.

Borings for the wells were advanced to depths between approximately 60.3 and 65.0 feet bgs. Note that the boring for well IP-02 was advanced to approximately 65 feet bgs, but was backfilled with bentonite pellets, hydrated in discrete lifts to approximately 62 feet bgs before setting the well. Injection wells were constructed of 2-inch diameter schedule 40 polyvinyl chloride (PVC) with 0.020-inch-slotted PVC well screens. Wells were each constructed with a 15-foot screened interval between approximately 45 feet and 60 feet bgs. Total depth of wells ranged from 60.3 to 61.0 feet bgs. A coarse-sand filter pack (Monterey #2/12) was placed within the annular space between the well screen and formation to a minimum of three feet above the top of the well screen. Above the filter pack, approximately one foot of fine silica transition sand (#0/30) was followed by approximately three feet of 3/8-inch bentonite chips or pellets, hydrated in 6-inch lifts. Portland cement bentonite grout consisting of 5% solids was pumped into the annular space using a tremie pipe from the top of the bentonite chips to near ground surface. Wells were completed with flush-mounted, traffic-rated, 12-inch diameter well vaults. Complete well construction details are provided in Table 1 and on the drilling logs. All generated soil cuttings were placed in a roll-off bin, which was labeled and stored on site pending characterization and disposal.

Development of Wells

The recently installed wells were developed between September 17 and 18, 2012, by Gregg using a Smeal development rig under the direct supervision of experienced OTIE field personnel. A total of approximately 540 gallons of water was removed using a bailer and a submersible pump from all five wells during well development. All downhole equipment was cleaned using a steam cleaner prior to beginning development activities and between each well. A surge block, bailer, and submersible pump were used to surge, bail, and pump the well, respectively. Well development continued in each well until it was either bailed dry twice or extracted water was relatively clear by visual inspection. Well development records are provided in Attachment B.

Well Surveying

All wells will be surveyed by a California-licensed survey during the fourth quarter 2012, and data provided in the subsequent report.

Investigation-Derived Waste

All soil cuttings, development water, and water used for equipment cleaning were considered investigation-derived waste (IDW).

- Well development and equipment cleaning water generated during field work were temporarily stored in 10 labeled 55-gallon drums. These drums containing IDW water were treated through the on-site groundwater treatment system and stored on site for use in the EISB injections.
- Soil cuttings were temporarily stored in a label, secured, roll-off bin. IDW will be profiled, transported off site, and properly disposed of during the fourth quarter 2012. Laboratory reports, waste profile, and waste disposal manifests will be provided in the subsequent report.

Please feel free to contact the undersigned at (805) 585-2110 with any questions.

Sincerely,

FOR:

Lucas E. Budny, PG
Project Geologist

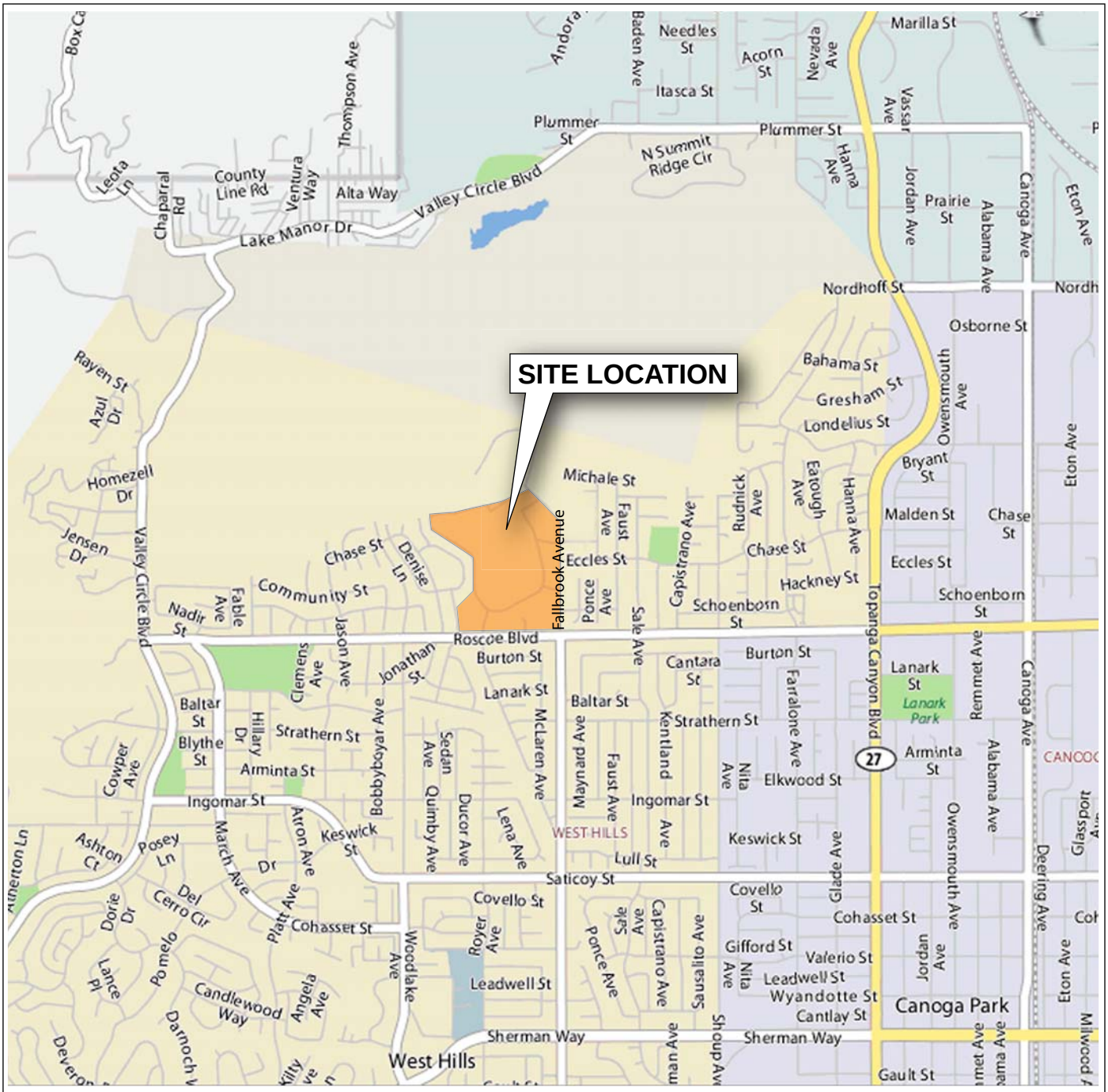
Jacques Marcillac, CHG, CEG
Project Manager

cc: Daniel S. Samorano, P.E. (Raytheon)

Attachments:

Figure 1	Site Vicinity Map
Figure 2	Locations of Injection Wells, Former Tank T3 Area
Table 1	Well Construction Data
Attachment A	Correspondence and Permit
Attachment B	Boring Log and Well Development Records

FIGURES



Source: Map data from Yahoo, Inc./NAVTEO 2009



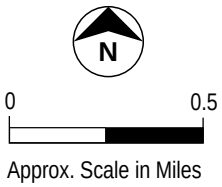
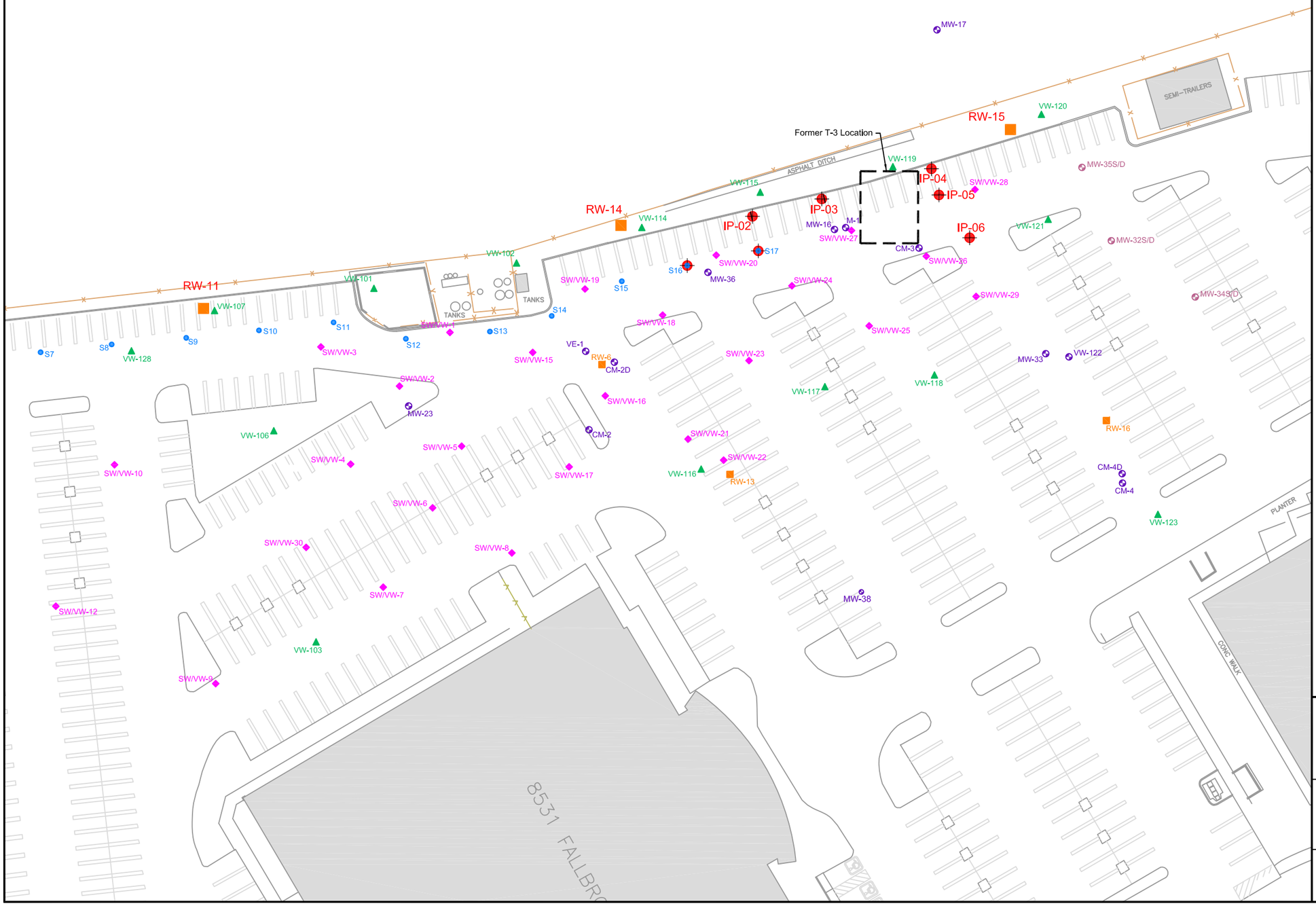


FIGURE 1

Site Vicinity Map

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

OTIE
Oneida Total Integrated Enterprises



Legend

IP-#	New Injection Well (Estimated location)
MW-# CM-#	Groundwater Monitoring Well
RW-#	Groundwater Recovery Well
VW-#	Vapor Extraction Well
MW-#	Former Hazardous Waste Storage Area Monitoring Well
SW/VW-#	Air Sparge/Vapor Extraction Well
S#	Triple Nested Sparge Well

Notes

1.) Locations of recently installed injection wells (IP-02 through IP-06) are based on in-field measurements. The injection wells will be surveyed in the fourth quarter 2012 and results reported in the next report.

N
W E
S

Approximate Scale in Feet

0 50 100

Figure 2
Injection Wells,
Former Tank T3 Area

Former Raytheon Facility
Canoga Park, California

OTIE
Oneida Total Integrated Enterprises

Date: October 27, 2012

File: 2012INJWELLS.dwg

TABLE

Table 1
Well Construction Data
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California

Well Identification	Type	Date Installed	Drilling Method	Northing or Latitude	Easting or Longitude	Top of Casing Elevation (amsl)	Vault Cover Elevation (amsl)	Casing Diameter (inches) & Type	Screen Interval (feet bgs)	Screen Slot Size (inches) & Type	Filter Pack Material	Constructed Total Depth (feet bgs)	Borehole Diameter (inches)
IP-02	Injection Well	9/10/2012	HSA	--	--	--	--	2, PVC	45.3 - 59.9	0.020, PVC	#2/12 Sand	60.3	8.5
IP-03	Injection Well	9/11/2012	HSA	--	--	--	--	2, PVC	45.9 - 60.3	0.020, PVC	#2/12 Sand	60.8	8.5
IP-04	Injection Well	9/12/2012	HSA	--	--	--	--	2, PVC	46.7 - 61.3	0.020, PVC	#2/12 Sand	61.7	8.5
IP-05	Injection Well	9/12/2012	HSA	--	--	--	--	2, PVC	46.0 - 60.5	0.020, PVC	#2/12 Sand	61.0	8.5
IP-06	Injection Well	9/13/2012	HSA	--	--	--	--	2, PVC	46.0 - 60.5	0.020, PVC	#2/12 Sand	61.0	8.5

Notes:

1) "amsl" = above mean sea level; "bgs" = below ground surface; "PVC" = polyvinyl chloride; "HSA" = hollow stem auger

2) All wells will be surveyed during the fourth quarter 2012, and data provided in the subsequent report.

ATTACHMENT A

Correspondence and Permit

California Regional Water Quality Control Board

Los Angeles Region

320 W. 4th Street, Suite 200, Los Angeles, California 90013
Phone (213) 576-6600 FAX (213) 576-6640 - Internet Address: http://www.waterboards.ca.gov/losangeles

Linda S. Adams
Cal/EPA Secretary

Arnold Schwarzenegger
Governor

February 23, 2009

Mr. Daniel S. Samorano, P.E.
Project Manager
Raytheon Company
1151 East Hermans Road
TU, Bldg 826
Tucson, AZ 85706

CONDITIONAL APPROVAL OF CORRECTIVE ACTION PLAN ADDENDUM #3 WORK PLAN FOR ADDITIONAL ENHANCED IN SITU BIOREMEDIATION AND IN SITU CHEMICAL REDUCTION ACTIVITIES – FORMER RAYTHEON FACILITY (HUGHES MISSILE SYSTEM COMPANY), 8433 FALLBROOK AVENUE, CANOGA PARK, CALIFORNIA (SCP NO. 0693, SITE ID NO. 2043T00)

Dear Mr. Samorano:

Los Angeles Regional Water Quality Control Board (Regional Board) staff received and reviewed the *Corrective Action Plan Addendum #3 Work Plan for Additional Enhanced In Situ Bioremediation and In Situ Chemical Reduction Activities* (Work Plan), dated September 2008, prepared by TN & Associates, Inc. for the referenced site. The Work Plan proposes to implement an additional Enhanced In Situ Bioremediation (EISB) program to reduce volatile organic compounds (VOCs) concentrations and to implement In Situ Chemical Reduction (ISCR) technology for the reduction of hexavalent chromium (Cr^{+6}) concentrations.

A pilot test was performed to evaluate the ability of EISB to reduce chlorinated ethenes in groundwater between September 2003 and June 2004. Based on the successful results of the pilot test, a full-scale EISB program was implemented to accelerate degradation of chlorinated ethenes, particularly 1,1-dichloroethene (DCE), in shallow groundwater between October 2005 and July 2008.

To further treat DCE and trichloroethene (TCE) in shallow groundwater, the additional EISB program is proposed for three separate treatment areas referred to herein as: 1) Northwest Area, 2) Former Tank T3 Area, and 3) Former Bldg 269 Area. The target remediation depths for each area vary, but are generally between depths of 30 to 60 feet (ft) below ground surface (bgs). The EISB program will involve the injection of a carbon source/electron donor in these areas, which should induce sulfate reduction, reduce the dissolved oxygen (DO), and oxidation-reduction potential (ORP), and enhance the rate of anaerobic dechlorination of DCE and TCE in groundwater.

In addition to the VOC concentrations in groundwater at the site, there is a small area with elevated concentrations of Cr^{+6} in the immediate vicinity of the former hazardous waste storage area (Former HWSA), located in the northwest portion of the site. The ISCR technology is proposed to reduce Cr^{+6} concentrations in groundwater by injecting a reducing agent, calcium polysulfide, into the saturated zone between 35 and 55 ft bgs in the Former HWSA footprint. The reducing agent should transform the Cr^{+6} to the less toxic and less mobile trivalent chromium (Cr^{+3}).

The Work Plan is approved with the following conditions:

1. A site-specific Health and Safety Plan shall be available at the site and implemented during all field activities.

2. Prior to start of work, all necessary permits shall be obtained from appropriate agencies. Copies of the agency-approved permits must be included in the final report submitted to the Regional Board.

3. Contaminated soil and water generated, if any, during drilling and sampling shall be managed in accordance with appropriate regulations.

4. Properly manifest and dispose of all wastes generated during field activities in conformation with the State and Federal regulations. Copies of the manifest for waste disposal shall be included in the final report submitted to the Regional Board.

5. Notify Regional Board staff at least 1 week before you start the proposed fieldwork.

6. The well installation report shall be submitted to the Regional Board within 60 days following the completion of the construction and development of the injection wells and groundwater monitoring wells.

7. A final report, providing the results of the proposed Work Plan, shall be submitted to the Regional Board within 90 days after completion of the Work Plan implementation. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the technology application, conclusions regarding the effectiveness of the technology, and groundwater remediation activities.

Please note that existing General Waste Discharge Requirements (WDR) Order No. R4-2005-0030 and Monitoring and Reporting Program (MRP) No. CI-8947, that was issued to you on September 20, 2005, was for implementation of a previous full-scale EISB application on site. Therefore, the implementation of this additional EISB and ISCR at the site requires a revision of general WDR Order No. R4-2005-0030 and MRP No. CI-8947 from this Regional Board. Please submit a complete Application/Report of Waste Discharge (Form 200) for Regional Board review and approval. An electronic copy of Form 200 can be found on the Internet at: http://www.waterboards.ca.gov/sbforms/docs/form200.pdf.

On March 1, 2007, the Regional Board adopted the general WDR Order No. R4-2007-0019 for groundwater remediation at petroleum hydrocarbon fuel, volatile organic compound and/or hexavalent chromium impacted sites which supersedes WDR Order No. R4-2005-0030. The coverage under general WDR Order No. R4-2007-0019 will be issued to you in a separate letter. Requirements for the monitoring and sampling parameters, frequency, and reporting periods will be stated in the revised MRP No. CI-8947 when the revised general WDR is issued. Please note that the revised MRP No. CI-8947 may be different from your proposed sampling and reporting plan. In addition, the EISB and ISCR injection activities shall not occur at the site prior to the approval date of the revised general WDR coverage by this Regional Board.

Should you have any questions, please contact me at (213) 620-6070.

Sincerely,

Ann Chang

Ann Chang, Ph.D.
Water Resource Control Engineer
Site Cleanup Unit I

cc: Mr. Stefan Cajina, California Department of Public Health
Mr. Chris Nagler, Watermaster, California Department of Water Resources
Mr. Bernard Franklin, Los Angeles County, Department of Public Health
Mr. Hoover Ng, Water Replenishment District- Southern California
Mr. James Pappas, Department of Toxic Substances Control
Mr. Rod Collins, Department of Toxic Substances Control
Mr. Jacques Marcillac, TN & Associates, Inc.
Mr. William Preston Bowling, Aerospace Cancer Museum and Education
Ms. Christina Walsh, Cleanuprocketdyne.org
Ms. Bonnie Klea
Ms. Chris Rowe

DRINKING WATER PROGRAM - ENVIRONMENTAL HEALTH DIVISION
5050 COMMERCE DRIVE, BALDWIN PARK, CA 91706 TELE (626) 430-5420 FAX (626) 813-3016

DATE: August 27, 2012

☐ NEW WELL CONSTRUCTION ☐ RECONSTRUCTION OR RENOVATION ☐ DECOMMISSIONING ☐ OTHER:
☐ MONITORING ☐ CATHODIC ☒ INJECTION ☐ EXTRACTION ☐ HEAT EXCHANGE
☐ HYDROPUNCH ☐ C.P.T. (For Ground Water Sampling) ☐ OTHER:

WELL LOCATION

Site Address	City	Zip Code
8433 Fallbrook Ave., Canoga Park, CA 91304		

Nearest Intersection	Thomas Guide Map Book Page/Grid	Number of Wells in Each Parcel
Fallbrook Ave. & Eccles St.	529/G	5

WELL STRUCTURE

Total Depth of Well	Depth of Well Casing	Sanitary / Annular Sealing Material
60 feet	60 feet	5% bentonite-portland cement grout

Depth of Sanitary / Annular Seal	Conductor Casing Seal
36 feet	NA

OWNER INFORMATION

Owner's Name	Telephone Number
Raytheon Company (Daniel S. Samorano), Telephone: 520-794-9026	

Address	City	Zip Code
1151 E. Hermans Rd., Bldg. 845, Tuscon, AZ 85706		

DRILLER INFORMATION

Driller's Name	Telephone Number	C-57 License Number
Gregg Drilling and Testing, Inc., 562-427-6899, C-57 # 485165		

Address	City	Zip Code
2726 Walnut Ave, Signal Hill, CA 90755		

WELL DECOMMISSIONING INFORMATION

Well Depth ☐ log/records	Method of Well Assessment	Depth and Number of Perforations

Type and Amount of Sealant	Type of Perforator	Size of Perforations	Method of Upper Seal Pressure Application

CONSULTANT INFORMATION

Company			
Oneida Total Integrated Enterprises (OTIE), LLC			
Address	**City**	**State**	**Zip Code**
317 East Main Street, Ventura, California 93001			
Project Manager	**Telephone Number**	**Fax Number**	
Jacques Marcillac	805-585-6382	805-585-2111	

ATTENTION: WORK PLAN MODIFICATIONS MAY BE REQUIRED IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED AT THE SITE INSPECTION ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THIS DEPARTMENT.

I hereby agree to comply in every respect with all the regulations of the County Environmental Health Division and with all ordinances and laws of the County of Los Angeles and the State of California pertaining to well construction, reconstruction, and decommissioning data deemed necessary by the County Environmental Health Division Of Los Angeles County.

Signature of Applicant: _____ Printed Name: Lucas Buda

THIS PERMIT IS NOT COMPLETE UNTIL ALL OF THE FOLLOWING REQUIREMENTS ARE SIGNED BY THE DEPUTY HEALTH OFFICER. WELL CONSTRUCTION OR DECOMMISSIONING CANNOT BE STARTED WITHOUT A WORK PLAN APPROVAL FROM THIS DEPARTMENT.

**********(DEPARTMENT USE ONLY)**********

WORK PLAN APPROVAL (Date approved is valid for 180 Days)	REHS Arnaldo Juarez REHS NO. DATE 09/05/12
Conditions: Permit # 890438 13~17 Observe work plan submitted. All field work must be conducted by a lic professional geologist in the state of Calif. Please notify 48hrs. prior to start field work	ajuarez@ph.lacounty.gov
FINAL INSPECTION (Upon completion of the project, it must be inspected by a Deputy Health Officer or the Well Unit Staff. Contact the Department to schedule an appointment.)	REHS DATE

NOTICE

This well permit approval is limited to compliance with the California Well Standards and the Los Angeles County Code and does not grant any rights to construct, reconstruct, or decommission any well. The applicant is responsible for securing all other necessary permits.

ATTACHMENT B

Boring Logs and
Well Development Records

Boring Logs

BORING LOG

Former Canoga Park Facility
Canoga Park, California

OTIE
Oneida Total Integrated Enterprises

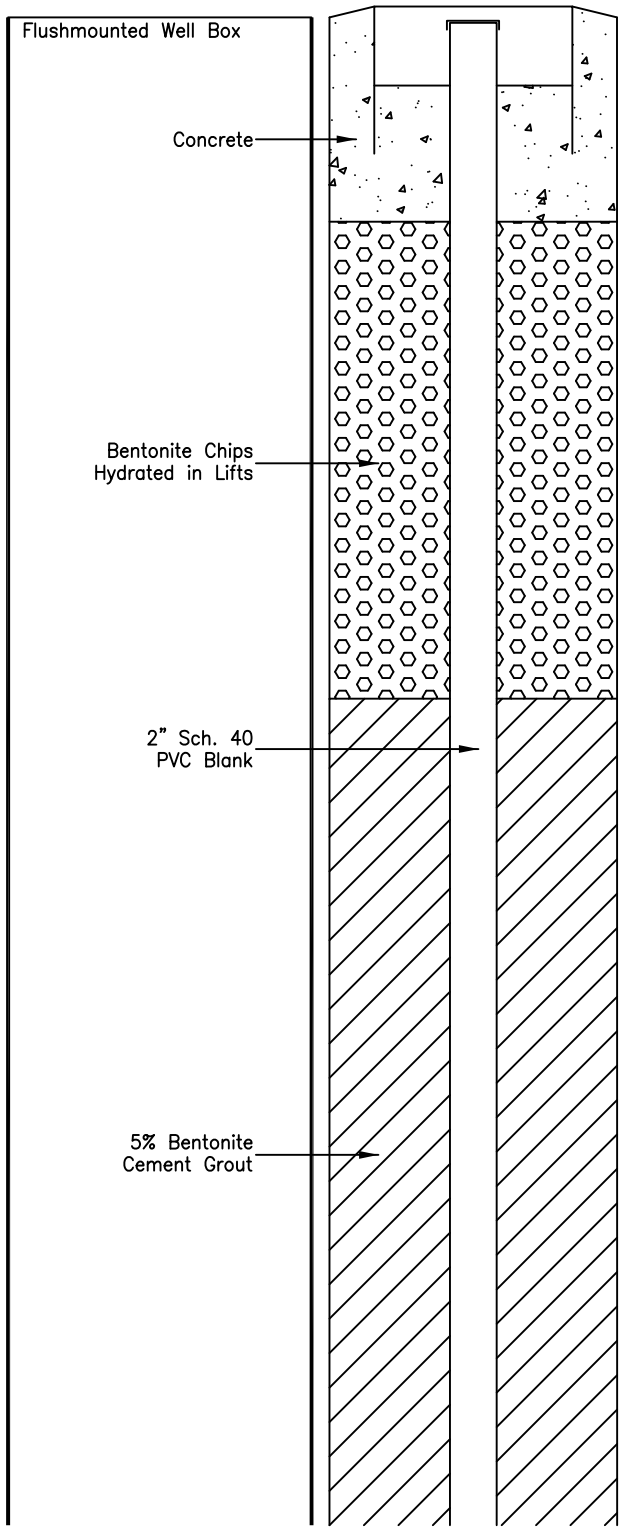
PROJECT No.: 2009025
TOP OF CASING: TBD
DRILLER: Juan Sifuentes
DATE BEGAN: 09/10/12
DRILLING METHOD: HSA, 8-inch auger
CONTRACTOR: Gregg Drilling & Testing

LOCATION: 4' S of parking lot curb, 120' E of compound
PAGE: 1 of 3
DATE COMPLETED: 09/10/12
GWL DATE/TIME: 09/18/12
DRILL EQUIPMENT: CME 95

BORING No.: IP-02

LOGGED BY: Lucas Budny
GWL DEPTH: 34.25' TOC
GWL EQUIPMENT: Water Level meter
CHECKED BY: Lucas Budny, P.G. #8933

DEPTH (feet)	BLOW COUNT (blows/6")	PID (ppm)	RECOVERY	GRAPHIC	USCS	DESCRIPTION ALL LITHOLOGIC PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE NOTED.	GW ELEVATION	REMARKS HAND AUGERED TO 6.5' BGS LOGGED BY A 1.5" x 18" SAMPLER AND A 1.5" x 24" SAMPLER PID IS A MINIRAE 2000, CALIBRATED TO 100-PPM ISOBUTYLENE
0						3" Asphalt 4" Concrete		
						SANDY SILT (ML): 85% fines, 15% fine to medium sand, trace fine gravel; brownish yellow (10YR6/6); low plasticity, low toughness, slow dilatency. [fill]		
		1.0			ML			
						4'–5'; dark bluish gray (GLEY2,4/1); faint hydrocarbon odor		
		1.1						
5		0.9						
						SANDY SILT (ML): 60% fines, 40% fine to coarse sand, trace fine gravel; dark olive brown (2.5Y,3/3); low plasticity, low toughness, firm consistency, slow dilatency. [weathered siltstone]		
	3							
	6							
	5	1.5						
	4							
	9							
	11					9'; 85% fines, 15% fine sand; light gray (10YR,7/2) mottling.		
	15							
10	7	1.9			ML			
	10					10.5'; 70% fines, 30% fine to coarse sand; dark yellowish brown (10YR,4/6); soft consistency, rapid dilatency		
	11							
	7	1.8						
	7							
	14					12.5'; light olive brown (2.5Y,5/4).		
	5	1.1						
	8							
	12							
	12	2.3						
15	8							
	10				SP	15.5'–16.0'; POORLY GRADED SAND (SP); 100% fine sand; light gray (10YR,7/1).		
	15	2.6						
	9							
	14							
	19					17.5'; 5% reddish brown (5YR,5/4) mottling.		
	9							
	16	1.0				18.5'; Fracture plane, heavy iron oxide mineralized on fracture surfaces.		
	20				ML			
	23					19.5'; 65% fines, 35% fine to medium sand; firm consistency, slow dilatency.		
20	7							
	9							
	11	1.2						
	6							



OTIE
Oneida Total Integrated Enterprises

BORING LOG

Former Canoga Park Facility
Canoga Park, California

PROJECT No.: 2009025
DATE COMPLETED: 09/10/12

LOCATION: 4' S of parking lot curb, 120' E of compound
PAGE: 2 of 3

BORING No.: IP-02

DEPTH (feet)	BLOW COUNT (blows/6")	PID (ppm)	SAMPLE	GRAPHIC	USCS	DESCRIPTION ALL LITHOLOGIC PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE NOTED.	GW ELEVATION	REMARKS LOGGED BY 1.5" x 18" SAMPLER AND A 1.5" x 24" SAMPLER	WELL CONSTRUCTION
	11								
	14								
	7	2.2							
	9								
	9					24'; end reddish brown (5YR,5/4) mottling.			
	9								
25	11	1.0				25.5'; laminated, yellowish brown (10YR,5/4)			
	13							5% Bentonite Cement Grout	
	17								
	9								
	13								
	16	1.4							
	13								
	16								
	19	1.2							
30	22								
	6								
	7								
	11	2.3				31'; grayish green (GLEY1,5/1); laminated in shades of green, hard consistency.			
	17								
	43								
								2" Sch. 40 PVC Blank	
	5								
	8	3.6							
	10				ML	34'; light yellowish brown (10YR,6/4); laminated in browns, firm consistency.	▼	34.25' btoc on 9/18/12	
	13								
35	8	2.1							
	10								
	14					36.25'; fracture plane, calcerous mineralization on surfaces of fractures.			
	8								
	13	1.6				37'; light gray (10YR,7/2); some lamination.			
	31							Slough	
	11								
	14					38.5'; light olive brown (2.5Y,5/3); no lamination.		Hydrated Bentonite Chips	
	23	3.0							
	27					39.5'; light yellowish brown (2.5Y,6/4); significant reddish brown (5YR,5/4) laminations.			
40	10								
	13							#0/30 Monterey Transition Sand	
	16	3.5							
	11								
	9	3.1				42'; light olive brown (2.5Y,5/6); no to limited lamination.			
	12								
	7							#2/12 Monterey Filter Sand	
	9								
	14	3.1							
	19								
45	8								
	19							2" Sch. 40 PVC Screen (0.020 slot)	
		3.4							

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BORING LOG

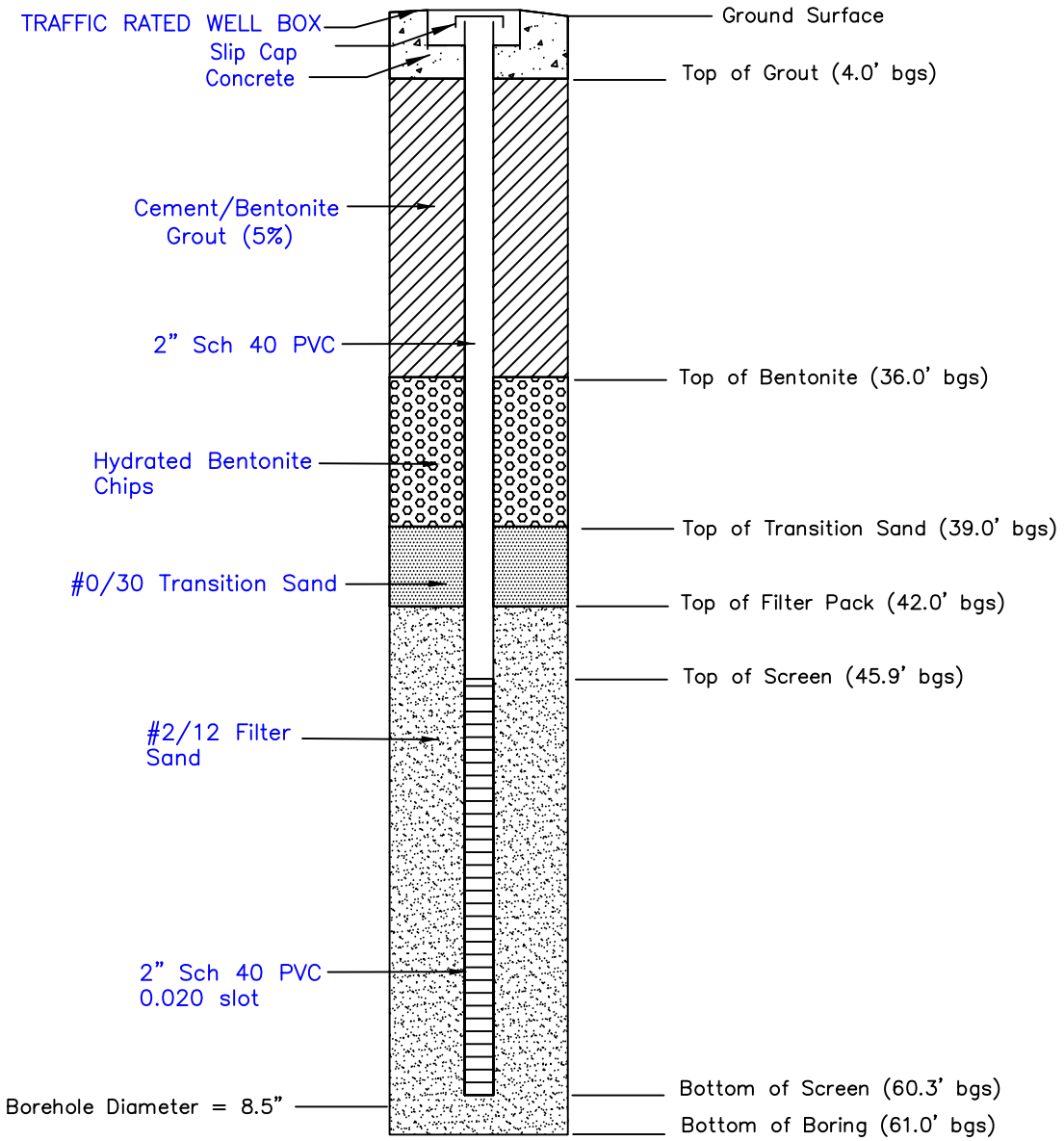
Former Canoga Park Facility
Canoga Park, California

PROJECT No.: 2009025
DATE COMPLETED: 09/10/12

LOCATION: 4' S of parking lot curb, 120' E of compound
PAGE: 3 of 3

BORING No.: IP-02

DEPTH (feet)	BLOW COUNT (blows/6")	PID (ppm)	SAMPLE	GRAPHIC	USCS	DESCRIPTION ALL LITHOLOGIC PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE NOTED.	GW ELEVATION	REMARKS LOGGED BY 1.5" x 18" SAMPLER AND A 1.5" x 24" SAMPLER	WELL CONSTRUCTION
50	23, 7, 12, 18, 7, 18, 22, 23, 6, 8, 12, 5, 8, 12, 7, 8, 12, 18	3.2			ML	46'; greenish gray (GLEY2,5/1) lamination, significant. 47'; Wet. 52.5'; end lamination.	During Drilling	#2/12 Monterey Filter Sand 2" Sch. 40 PVC Screen (0.020 slot)	
55	7, 7, 11, 11				SM	SILTY SAND (SM): 55% fine to medium sand, 35% low plastic fines, 10% sub-rounded to rounded gravel; light olive brown (2.5Y,5/6); wet. [logged from slough in 56.5 to 58 ft sample]		No recovery between 55 and 56.5 ft bgs. Driller reports "soft drilling."	
60	15, 22, 22, 28, 34, 43, 38, 42, 48, 50, 50				ML	57.5'; 80% fines, 20% fine sand; brown (7.5YR,4/3), some lamination, slow dilatency, very hard consistency.		2" Sch. 40 PVC End Cap Bentonite Pellets	
65						END OF BORING: 09/10/12. Boring over-drilled and reamed to 65' for well installation.			Boring Diameter = 8.5"
70									



LOCATION: 159' E of treatment compound, 3' S of parking lot curb, T3 Area

DATE COMPLETED: 09/11/12

TOP OF CASING: TBD

GWL DEPTH: 34.55 ft btoc on 9/18/12

CHECKED BY: Lucas Budny, P.G. #8933

NOT TO SCALE

OTIE
Oneida Total Integrated Enterprises

LEGEND:

PVC = POLYVINYL CHLORIDE
btoc = below top of casing

DATE:	FILE NAME:	SOURCE:
10/03/2012	IP-3.DWG	

WELL CONSTRCUTION
IP-03

Former Canoga Park Facility
Canoga Park, California

OTIE
Oneida Total Integrated Enterprises

BORING LOG

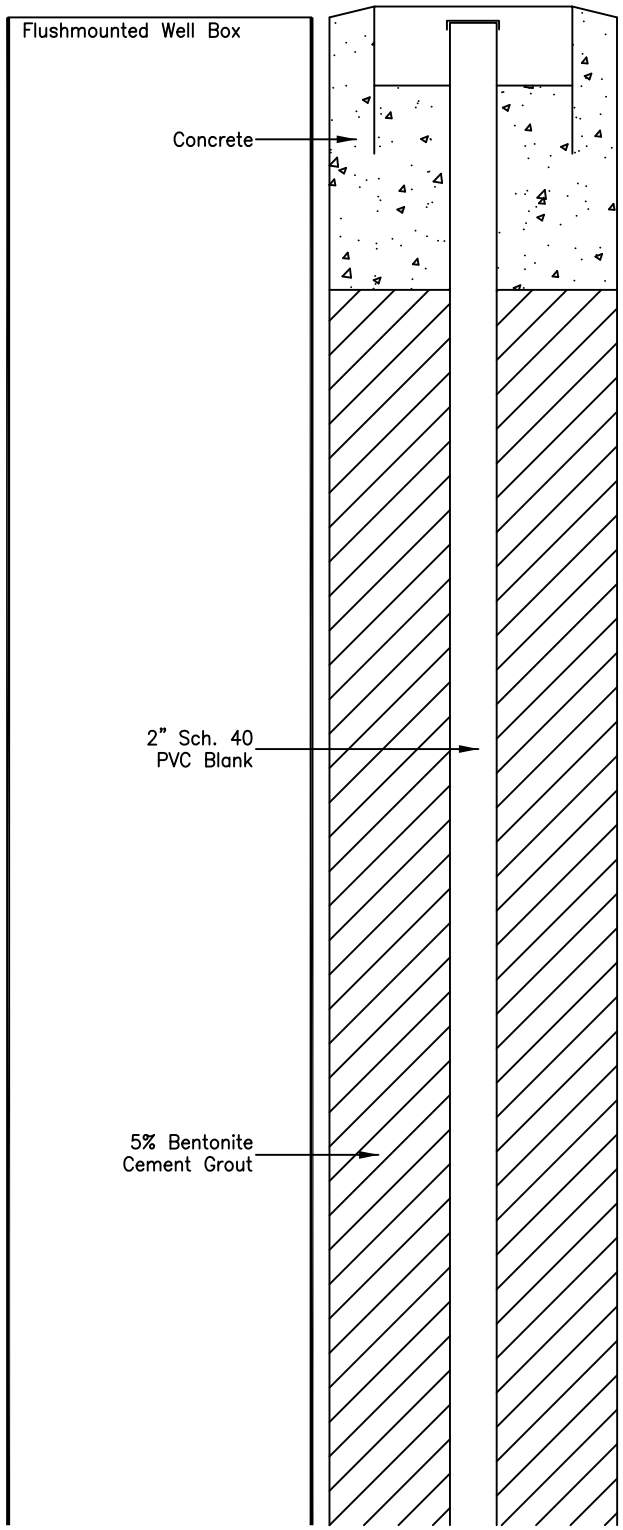
Former Canoga Park Facility
Canoga Park, California

PROJECT No.: 2009025
TOP OF CASING: TBD
DRILLER: Juan Sifuentes
DATE BEGAN: 09/12/12
DRILLING METHOD: HSA, 8-inch auger
CONTRACTOR: Gregg Drilling & Testing

LOCATION: 3' S of parking lot curb, 212' E of compound
PAGE: 1 of 3
DATE COMPLETED: 09/12/12
GWL DATE/TIME: 09/17/12
DRILL EQUIPMENT: CME 95

BORING No.: IP-04
LOGGED BY: Lucas Budny
GWL DEPTH: 37.35' TOC
GWL EQUIPMENT: NA
CHECKED BY: Lucas Budny, P.G. #8933

DEPTH (feet)	BLOW COUNT (blows/6")	PID (ppm)	RECOVERY	GRAPHIC	USCS	DESCRIPTION ALL LITHOLOGIC PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE NOTED.	GW ELEVATION	REMARKS HAND AUGERED TO 10.5' BGS LOGGED BY A 1.5" x 18" SAMPLER AND A 1.5" x 24" SAMPLER PID IS A MINIRAE 2000, CALIBRATED TO 100-PPM ISOBUTYLENE
0						9" Asphalt		
		2.5				SANDY SILT (ML): 80% fines, 20% fine to coarse sand, trace fine gravel; light olive gray (5Y,6/2); low plasticity, low toughness, slow dilatency. [fill]		
		1.0			ML			
5		2.7				SANDY SILT (ML): 80% fines, 20% fine to medium sand; dark yellowish brown (10YR,4/4); low plasticity, low toughness, firm consistency, slow dilatency. [weathered Modelo Fm]		
		3.0						
10	6	3.5				10'; 65% fines, 35% fine to coarse sand; very pale brown (10YR,7/3).		
	8							
	5	2.5				12'; 75% fines, 25% fine to medium sand; light yellowish brown (2.5Y,6/3); vertical fractures with mineralization, whitish to reddish brown.		
	7				ML			
	10							
	7					14'; end vertical fractures; reddish brown (2.5YR,4/3) mottling.		
	9							
15	11	1.8				15.5'; light yellowish brown (10YR,6/4)		
	14							
	9							
	11	2.9						
	14							
	6							
	9					17.5'; trace lamination		
	11	2.9						
	5					18.5'; end mottling		
	9							
	11							
	17							
20	6	1.4						
	9							
	12					21.0'; significant lamination		
	9	3.3						



OTIE
Oneida Total Integrated Enterprises

BORING LOG

Former Canoga Park Facility
Canoga Park, California

PROJECT No.: 2009025
DATE COMPLETED: 09/12/12

LOCATION: 3' S of parking lot curb, 212' E of compound
PAGE: 2 of 3

BORING No.: IP-04

DEPTH (feet)	BLOW COUNT (blows/6")	PID (ppm)	SAMPLE	GRAPHIC	USCS	DESCRIPTION (ALL LITHOLOGIC PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE NOTED.)	GW ELEVATION	REMARKS (LOGGED BY 1.5" x 18" SAMPLER AND A 1.5" x 24" SAMPLER)	WELL CONSTRUCTION
	12					22'; 85% fines, 15% fine sand; yellowish brown (10YR,5/4).			
	18								
	4								
	7								
	9	2.1				24'; fracture plane with weak red (2.5YR,4/2) mineralization.			
25	14								
	4					25.5'; some lamination.			
	6							5% Bentonite Cement Grout	
	6								
	5								
	7								
	11								
	6								
	7								
	11	1.3				29'; fracture plane with weak red (2.5YR,4/2) deposits.		2" Sch. 40 PVC Blank	
30	17								
	7								
	12								
	19					31'; 65% fines, 35% fine to coarse sand.			
	17								
	50							No recovery, caliche in cutting shoe	
	22								
	50								
					ML				
35									
	6								
	10							No obvious signs of groundwater noted during drilling.	
	15	2.5				36'; light olive brown (2.5Y,5/4).			
	7								
	9					37'; fracture plane with reddish brown mineralization.		37.35' btoc on 9/17/12	
	9								
	6								
	9							Hydrated Bentonite Chips	
	11					39'; 90% fines, 10% fine sand; sparse mottling, no lamination, slow dilatency, low–medium plasticity, firm consistency.			
	14								
40	7	11.5							
	10							#0/30 Monterey Transition Sand	
	12								
	5								
	7				SP–SM	42.5' (2"); POORLY GRADED SAND WITH SILT (SP–SM); 90% fine sand, 10% low plastic fines.			
	9								
	4							#2/12 Monterey Filter Sand	
	6								
	8					44'; some lamination.			
	9								
45	4	10.5							
	7								

OTIE
Oneida Total Integrated Enterprises

BORING LOG

Former Canoga Park Facility
Canoga Park, California

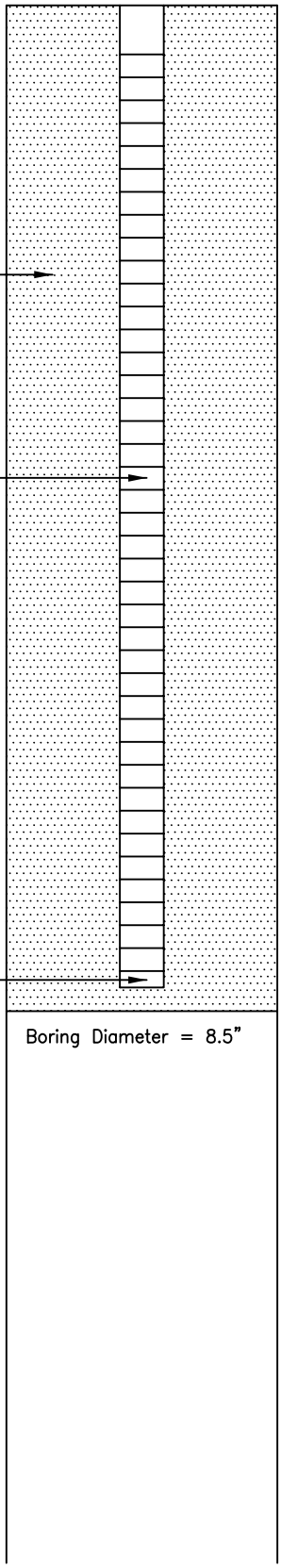
PROJECT No.: 2009025
DATE COMPLETED: 09/12/12

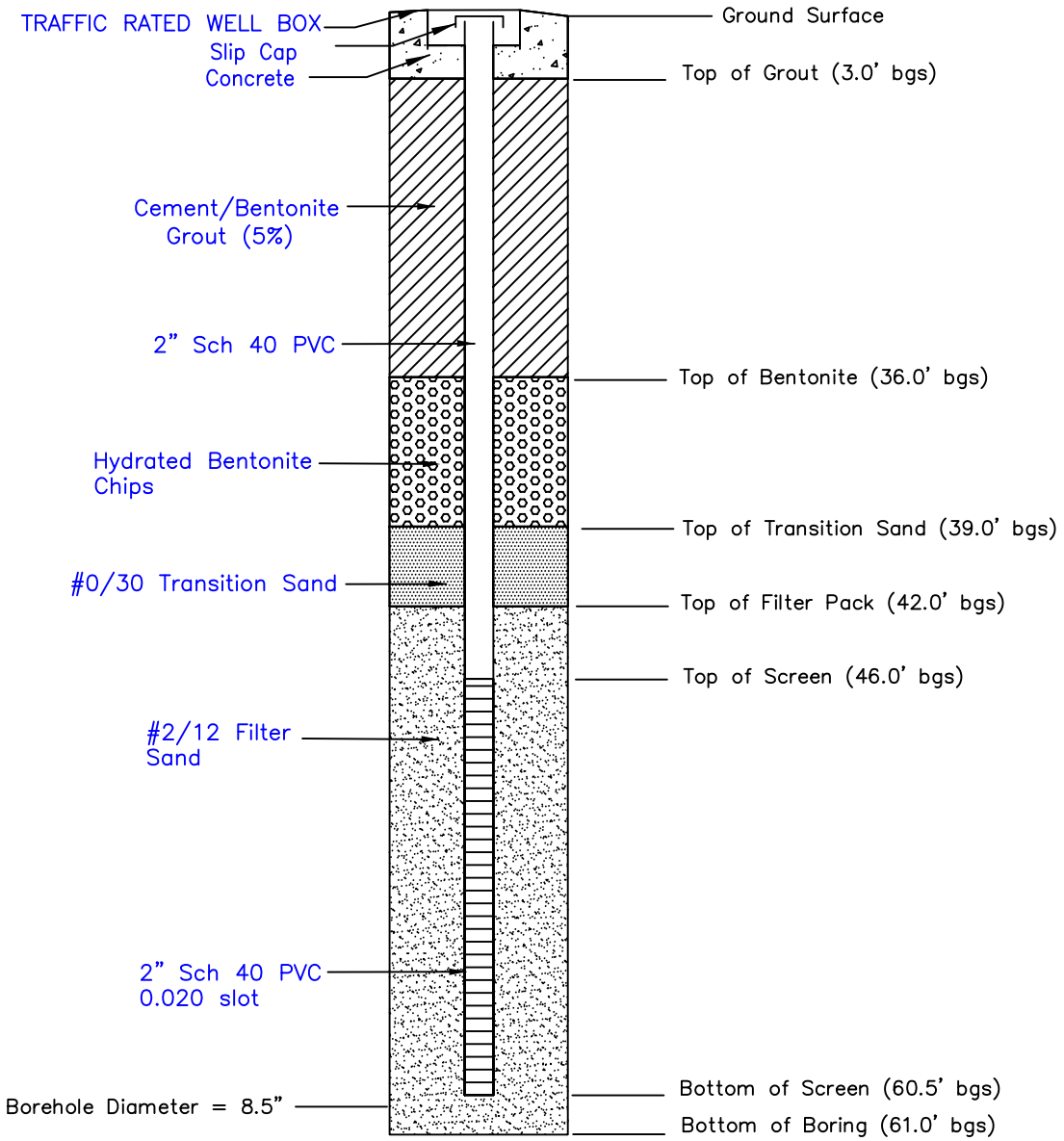
LOCATION: 3' S of parking lot curb, 212' E of compound
PAGE: 3 of 3

BORING No.: IP-04

DEPTH (feet)	BLOW COUNT (blows/6")	PID (ppm)	USCS	DESCRIPTION (ALL LITHOLOGIC PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE NOTED.)
	9			46'; fracture plane with calcarous laminations.
	7			
	7		SP	47' (2"); POORLY GRADED SAND (SP); 95% fine to coarse sand, 10% fines; reddish brown (5YR,5/4).
	11			
	11			48.5'; 85% fines, 15% fine to medium sand.
	13			
	16			
	19			
50	10	10.6	ML	
	12			51'; 80% fines, 20% fine to medium sand.
	15			
	6			
	9			52.5'; light olive brown (2.5Y, 5/6).
	9			
	9			
	12			
	15			
	18			
55	25	5.5		
	30			
	50	3.8		56'; dark gray (2.5Y,4/1); very hard consistency.
	9			
	16			
	31	3.7		
	25			
	50			
60	50			
			ML	
				END OF BORING: 09/12/12.
65				
70				

GW ELEVATION	REMARKS (LOGGED BY 1.5" x 18" SAMPLER AND A 1.5" x 24" SAMPLER)
	#2/12 Monterey Filter Sand
	2" Sch. 40 PVC Screen (0.020 slot)
	2" Sch. 40 PVC End Cap





LOCATION: 212' E of treatment compound, 3' S of parking lot curb, T3 Area

DATE COMPLETED: 09/11/12

TOP OF CASING: TBD

GWL DEPTH: 35.92 ft btoc on 9/17/12

CHECKED BY: Lucas Budny, P.G. #8933

NOT TO SCALE

OTIE
Oneida Total Integrated Enterprises

LEGEND:

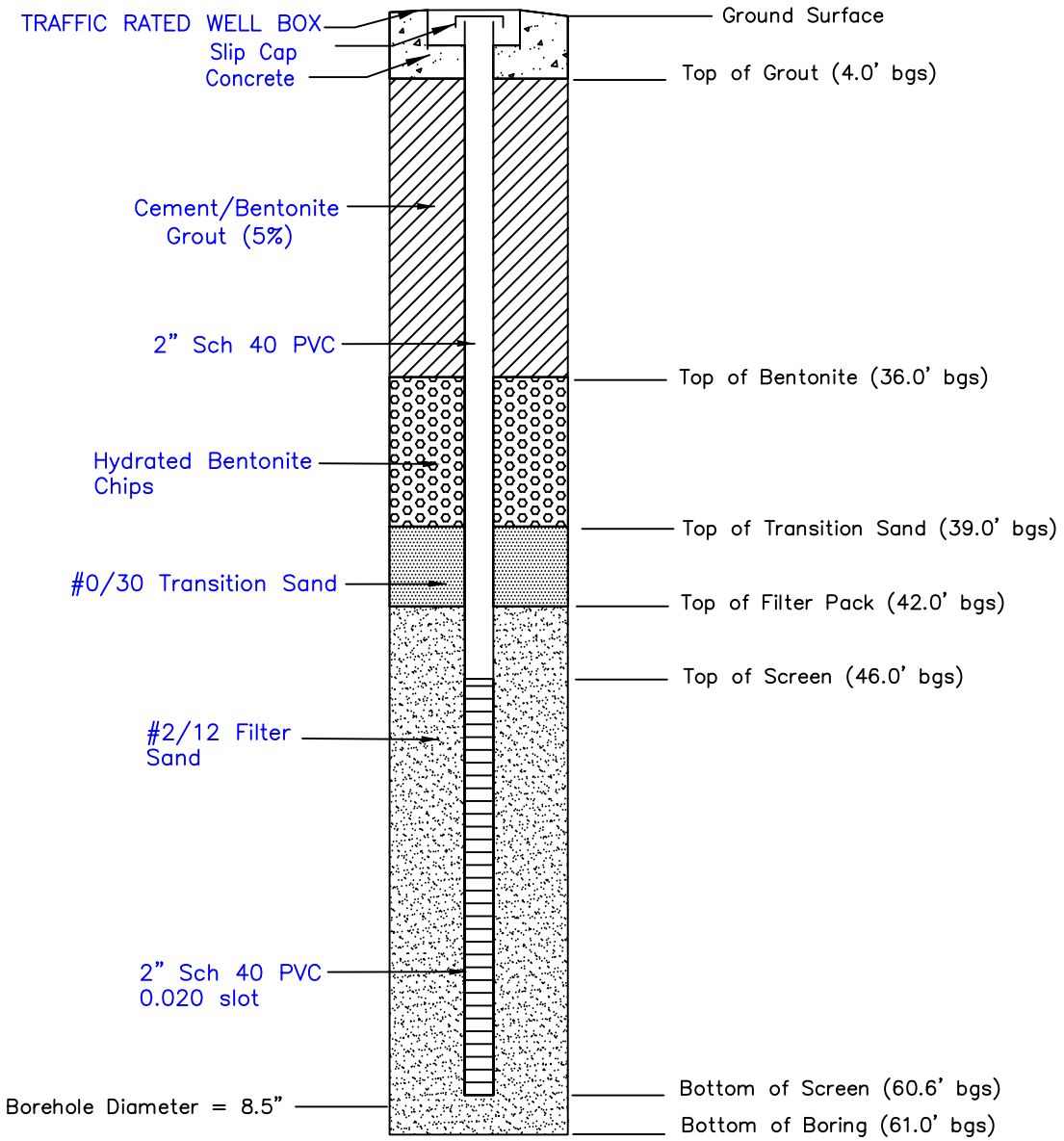
PVC = POLYVINYL CHLORIDE

btoc = below top of casing

DATE:	FILE NAME:	SOURCE:
10/03/2012	IP-5.DWG	

WELL CONSTRCUTION
IP-05

Former Canoga Park Facility
Canoga Park, California



LOCATION: 223' E of treatment compound, 3' S of parking lot curb, T3 Area

DATE COMPLETED: 09/13/12

TOP OF CASING: TBD

GWL DEPTH: 35.95 ft btoc on 9/17/12

CHECKED BY: Lucas Budny, P.G. #8933

NOT TO SCALE

OTIE
Oneida Total Integrated Enterprises

LEGEND:

PVC = POLYVINYL CHLORIDE
btoc = below top of casing

DATE:	FILE NAME:	SOURCE:
10/03/2012	IP-6.DWG	

WELL CONSTRCUTION IP-06

Former Canoga Park Facility
Canoga Park, California

Well Development Records

OTIE
Oneida Total Integrated Enterprises

WELL DEVELOPMENT RECORD

Project Name: RAYTHEON CANOGA
Date: 9-18-12
Well ID: IP-02
Project and Task No.: 2009025
Developed By: GREGG DRILLING - DAVID CRUZ
Equipment: GREGG DEV. RIG DV-5

Initial Depth to Water: 34.25
Total Depth of Well per As-built: 60.3 bgs
Total Depth of Well Before Development: 59.1 (TOC) SOFT BOTTOM
Total Depth of Well After Development:
Well Diameter: 2"
1 Casing Volume: 4.2 GAL
Total Casing Volumes Removed:

Date/ Time	Development Activity (see note 1)	Cum. Vol. (gal.)	Temp. (°C)	pH (units)	Specific Electrical Conductance (µS/cm)	Remarks (color, turbidity, and sediment)	(TOC) DTW
1010	INITIAL BAIL	~~7~~				FIRST BAIL: LOTS OF SILTY SEDIMENT	34.25
1022-1037	SURGE						
1038-1054	BAIL	20					35.1
~~1054~~							
1055	BEGIN PURGE →				COND, D.O. ORP	TURB (WATER IS THE USUAL GREYISH GREEN, MURKY)	
			22.9	8.25	2.12 7.50 61	>999 2.5 GPM	45.1
1110		55	22.9	9.98	2.10 7.47 91	499	48.05
1125		85	23.3	7.0	2.06 7.48 97	>999 2.15 GPM -	48.90
1140		105	22.9	7.31	2.04 7.50 92	>999	
1155			23.0	8.90	2.04 7.48 80	>999	49.91
1210		150	23.0	7.87	2.04 7.84 79	770	
	FINISH DEVELOPMENT -						
1220	PUMP WELL			IP-4	DRY	FOR SECOND TIME (APPROX 5 GAL)	
1230	"	"		IP-15	DRY	" " " "	

Notes:

Note 1: Example Bailing, Surging, Pumping (provide pumping rate and drawdown), Brushing.

OTIE
Oneida Total Integrated Enterprises

WELL DEVELOPMENT RECORD

Project Name: RAYTHEON CANOGA
Date: 9-18-12
Well ID: ID-03
Project and Task No.: 2009025-
Developed By: GREGG DRILLING / DAVID CRUZ
Equipment: GREGG: DEV. RIG DV5
~~GREGG UNIT DV5~~

Initial Depth to Water: 34.55 TOC
Total Depth of Well per As-built: 60.8 bgs
Total Depth of Well Before Development: 59.10 (HARD BOTTOM TOC)
Total Depth of Well After Development: _____
Well Diameter: 2"
1 Casing Volume: 4.17GAL
Total Casing Volumes Removed: _____

Date/ Time	Development Activity (see note 1)	Cum. Vol. (gal.)	Temp. (°C)	pH (units)	Specific Electrical Conductance (µS/cm) mS/cm				Remarks (color, turbidity, and sediment)	DTW
					COND	DO	ORP	TURB		
7:20	INITIAL BAIL	10							FIRST BAIL: SOME SAND, FISH ODOR	34.55
7:33	SURGE									
7:45-8:00	BAIL	20								
0835	BEGIN PURGE								2.0 GPM - WATER IS GREEN GREY, MURKY	
0840	"								(5GAL / 1.5 MIN) 3.3 GPM	
0842	"		22.2	3.14	1.74	7.80	193	999		57.3
0848		55	22.5	7.0	1.58	7.61	105	999		
0858		75	22.7	7.0	1.57	7.58	65	338	2.2 GPM (AVG)	
0908		95	22.7	7.0	1.58	7.57	58	200		
0918		115	22.8	7.0	1.60	7.53	48	411		56.8
0928		125	22.9	7.0	1.60	7.51	43	54		57.1
0938		150	22.9	7.89	1.60	7.49	48	82		57.5
0948		160	23.1	7.89	1.63	7.47	34	33		
	END WELL DEVELOPMENT									

Notes:

Sept 18 07:36 : IP04 DTW = 37.1'
" IP05 " 36.25
" IP06 " 36.20

Note 1: Example Bailing, Surging, Pumping (provide pumping rate and drawdown), Brushing.

OTIE
Oneida Total Integrated Enterprises

WELL DEVELOPMENT RECORD

Project Name: RAYTHEON CANOGA
Date: 9-17-12
Well ID: IP-04 (IP-04)
Project and Task No.: 2009025
Developed By: GREGG D.C. / DAVID CRUZ
Equipment: GREGG WELL DEV. RIG DV5

Initial Depth to Water: 37.35 TOC
Total Depth of Well per As-built: 61.7
Total Depth of Well Before Development: 61.1 (HARD BOTTOM) TOC
Total Depth of Well After Development:
Well Diameter: 2"
1 Casing Volume: 4.03 GAL
Total Casing Volumes Removed:

Date/ Time	Development Activity (see note 1)	Cum. Vol. (gal.)	Temp. (°C)	pH (units)	Specific Electrical Conductance (µS/cm)	Remarks (color, turbidity, and sediment)	(TOC) DTW
					COND. DO ORP TURB		37.35
Sept 17, 12 1415	INITIAL BAIL	10				DARK GREY-GREEN – NO SEDIMENT	
1430	SURGE						
1445							
1445-1500	BAIL	20				A FEW FINES, THEN NOTHING	
1507	BEGIN PURGE →		23.7	6.5	2.95 7.94 211 >999	1.25 GPM →	48.00
1510							50.50
1515							53.6
1525			24.5	6.93	2.87 7.81 155 >999	.8 GPM -- STILL MURKY GREY GREEN	
1540		45	24.2	6.15	2.84 7.83 107 > "	" "	57.57
1555		50	24.3	5.23	2.71 7.84 83 > "	± .45 GPM " "	57.88
1610		55	24.4	4.95	2.64 7.78 88 >999		57.75
1617							56.5
1630	→		24.5	5.46	2.57 7.73 98 >999	→	56.30
1642	→	70				→	56.5
	– END OF WELL DEVELOPMENT –						
Sept 18 0730							37.1
1220	PUMP WELL DRY -- NO PARAMETERS TAKEN – APPROX 5 GAL						

Notes:

Note 1: Example Bailing, Surging, Pumping (provide pumping rate and drawdown), Brushing.

OTIE
Oneida Total Integrated Enterprises

WELL DEVELOPMENT RECORD

Project Name: RAYTHEON CANOGA
Date: 9-17-12
Well ID: IP-05
Project and Task No.: 20090005
Developed By: GREGG DRILLING - DAN CRUZ
Equipment: GREGG DEV. RIG DV5

Initial Depth to Water: 35.92 TOC
Total Depth of Well per As-built: 61.0
Total Depth of Well Before Development: TOC 59.79 (HARD BOTTOM)
Total Depth of Well After Development: TOC 59.90 "
Well Diameter: 2"
1 Casing Volume: 4.25 GAL x10 = 42.5
Total Casing Volumes Removed:

Date/ Time	Development Activity (see note 1)	Cum. Vol. (gal.)	Temp. (°C)	pH (units)	Specific Electrical Conductance (µS/cm)	Remarks (color, turbidity, and sediment)	DTW
Sept 17, '12 1157	INITIAL BAIL	(START W/ 15 GAL IN DRUM) 10				[redacted]	35.92
1205	SURGE						
1220	BAIL	20				{SOME FINES, 'TRANSITION' SAND... WENT AWAY —	
1240							52.7
1250	BEGIN PUMPING					.5 GPM WATER VERY GREEN-GREY OPAQUE ↵	
1255					COND / DO / ORP / TURB.		55.6
1257			25.4		2.55 / 7.46 / 202 / >999	FLOW IS REDUCED TO A TRICKLE	56.70
1301							56.95
1315			29.7	5.46	2.92 / 6.19 / 197 / >999	.25 GPM - LESS TURBIDITY	57.05
1330		[redacted]	30.0	5.97	2.82 / 6.17 / 214 / >999	.20 "	57.30
1345		[redacted]	30.3	5.57	2.34 / 6.06 / 207 / >999	"	57.50
40-15=25 GAL 1400	END WELL DEV.	25	29.5	5.67	2.94 / 6.09 / 203 / >999	(1.33 gpm / 2 min 50 sec)	
						AVG. FLOW: .35 GPM	
1430							54.1
1644							45.23
18 Sept 0730							36.23
1230	PUMPED WELL DRY — NO PARAMETERS —					Approx. 5 GAL	

Notes:

Note 1: Example Bailing, Surging, Pumping (provide pumping rate and drawdown), Brushing.

OTIE
Oneida Total Integrated Enterprises

WELL DEVELOPMENT RECORD

Project Name: RAYTHEON CANOGA
Date: 9-17-12
Well ID: IP-06
Project and Task No.: 2009025
Developed By: GREGG - DAVID CRUZ
Equipment: GREGG DEV RIG DV-5

Initial Depth to Water: 35.95
Total Depth of Well per As-built: 61.0' bgs
Total Depth of Well Before Development: 60.35'
Total Depth of Well After Development:
Well Diameter: 2"
1 Casing Volume: 4.25 x 10 = 42.5 GAL / 10 VOL.
Total Casing Volumes Removed:

Date/ Time	Development Activity (see note 1)	Cum. Vol. (gal.)	Temp. (°C)	pH (units)	Specific Electrical Conductance ~~(µS/cm)~~ mS/cm				Remarks (color, turbidity, and sediment)		
									TURB.	DTW 35.95	
9-17-12 0755	INIT. BAIL ~~SURGE~~	5									
0805	SURGE										
0820	BAIL								- GW DARK GREY, SILTY		
0830	"								- LESS SILTY		
0842	FINISH BAIL	20							- FINES MOSTLY GONE		42.5
0857	BEGIN PUMPING *				COND	DO	ORP		1.5 GPM - OPAQUE, GREY GREEN		
0903	"	30	22.3	5.67	1.72	8.24	[illegible]	999	1.0 GPM - "		45.55
0915	"	38	23.2	6.39	1.63	8.33	162	"	" CLEARING UP A BIT		46.82
0930	"	50	23.4	6.83	1.52	8.18	176	"	0.9 " "		47.65
0945	"	60	23.4	7.90	1.52	8.14	181	"	1.0 GPM		47.72
1000	"		23.5	7.94	1.47	8.13	183	"	0.95 " CLEARING		47.70
1015	"		23.5	7.75	1.95	8.13	190	644	"		47.80
START GW PUMPS → 1030	"	100	23.7	7.45	1.96	8.03	182	400			47.84
1045	"	110	23.7	7.83	1.44	8.08	184	437	"		47.70
1106	"	125	23.7	5.33	1.42	8.04	186	39 !	AVG. .8 GPM		47.77
~~1110~~	END DEVELOPMENT										
1338											36.46
1648											36.41

~~Notes:~~

Sept 18, 0730 → DTW (NEXT DAY) 36.20

* PUMP IS 1' OFF BOTTOM

4 5 6 7

P-18 to 'AU to -

Note 1: Example Bailing, Surging, Pumping (provide pumping rate and drawdown), Brushing.

Appendix B

Historical Select Analytical Results

Table B1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
M-1	03/08/95	<10	**30**	<10	**2,000**	<10	<10	<10	**26**	**30**	<10	--
	05/12/98	<5.0	<5.0	<5.0	**180**	<5.0	<5.0	<5.0	<5.0	**5.9**	<5.0	--
	11/12/98	<2.0	**5.9**	**2.3**	**710**	<2.0	**2.0**	<2.0	**3.8**	**18**	<5.0	--
	06/25/99	<5.0	<5.0	<5.0	**19**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	08/04/99	<0.5	**7.1**	<5.0	**780**	<5.0	**7.6**	<5.0	<5.0	**29**	<5.0	--
	12/29/99	<5.0	**7**	<5.0	**970**	<5.0	**8.0**	<5.0	<5.0	**36**	<5.0	--
	12/05/00	<0.5	**4.7**	**0.87**	**1,000**	<0.5	**5.0**	<0.5	**1.4**	**21**	**1.3**	--
	11/06/01	<5.0	**5.0**	<5.0	**680**	<5.0	<5.0	<5.0	<5.0	**20**	<5.0	--
	11/10/02	<0.5	**3.9**	<0.5	**810**	<0.5	**9.4**	<0.5	**1.1**	**39**	**2.9**	--
	11/09/03	<0.5	**4.0**	<0.5	**620**	<0.5	**6.9**	<0.5	**0.9**	**26**	<0.5	--
	10/25/04	<1.0	**2.9**	<1.0	**450**	<1.0	**9.4**	<1.0	<1.0	**2.3**	<1.0	--
	11/14/05	<2.5	**3.4**	<2.5	**470**	<2.5	**5.0**	<2.5	**5.0**	**22**	<2.5	--
	04/23/06	<0.5	**2.7**	<0.5	**370**	<1.0	**5.9**	<1.0	**3.5**	**20**	<10	<0.5
	07/15/06	<0.5	<1.0	<0.5	**47**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<2.5
	11/08/06	Not sampled due to the Presence of Substrate in the well										
	05/13/07	Not sampled due to the Presence of Substrate in the well										
	11/05/07	<0.5	<1.0	<0.5	**27**	**2.0**	<1.0	<1.0	<1.0	<1.0	<10	**90**
	11/18/08	<2.5	<5.0	<2.5	**15**	<5.0	<5.0	<5.0	<5.0	<5.0	<50	**70**
	12/03/09	<0.5	<1.0	<0.5	**22**	**2.3**	<1.0	<1.0	<1.0	**1.3**	<10	**64**
	12/28/10	<1.0	<2.0	<1.0	**11**	<2.0	<2.0	<2.0	<2.0	<2.0	<20	**33**
	12/08/11	**1.2**	<2.0	<1.0	**5.8**	<2.0	<2.0	<2.0	<2.0	<2.0	<20	**17**
CM-2D	03/08/95	**290**	<10	<10	**22**	<10	<10	**630**	<10	<10	<10	--
	05/12/98	<5.0	<5.0	<5.0	**69**	<5.0	<5.0	<5.0	<5.0	**5.5**	<5.0	--
	12/29/99	<5.0	<5.0	<5.0	**47**	<5.0	<5.0	<5.0	<5.0	**17**	<5.0	--
	12/05/00	<0.5	<0.5	<0.5	**42**	<0.5	**2.6**	<0.5	<0.5	**13**	<0.5	--
	11/06/01	<0.5	**0.55**	<0.5	**110**	<0.5	**5.7**	<0.5	<0.5	**23**	<0.5	--
	11/10/02	<0.5	<0.5	<0.5	**30**	**0.66**	**4.0**	<0.5	<0.5	**15**	<0.5	--
	11/10/03	<0.5	<0.5	<0.5	**64**	<0.5	**6.2**	<0.5	<0.5	**23**	<0.5	--
	10/24/04	<0.5	<0.5	<0.5	**19**	<0.5	**4.1**	<0.5	<0.5	**9.5**	<0.5	--
	11/13/05	<0.5	**0.61**	<0.5	**89**	<0.5	**3.3**	<0.5	<0.5	**12**	<0.5	--
	04/23/06	<0.5	<1.0	<0.5	**51**	<1.0	**2.6**	<1.0	<1.0	**7.9**	<10	**0.9**
	07/15/06	<0.5	<1.0	<0.5	**100**	<1.0	**3.6**	<1.0	<1.0	**14**	<10	**5.4**
	11/04/06	<0.5	<1.0	<0.5	**90**	<1.0	**2.5**	<1.0	<1.0	**11**	<10	**4.7**
	05/13/07	<0.5	<1.0	<0.5	**63**	<1.0	**2.8**	<1.0	<1.0	**9.1**	<10	**2.8**
	11/05/07	<0.5	<1.0	<0.5	**3.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5

Table B1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
CM-2D	11/18/08	<0.5	<1.0	<0.5	**23**	<1.0	<1.0	<1.0	<1.0	**3.4**	<10	**2.9**
(cont'd)	12/01/09	**0.6**	<1.0	<0.5	**56**	**1.1**	**2.9**	**1.6**	<1.0	**12**	<10	**2.4**
	12/28/10	<0.5	<1.0	<0.5	**59**	**2.0**	**2.3**	<1.0	<1.0	**11**	<10	**8.8**
	12/08/11	<0.5	<1.0	<0.5	**71**	**2.8**	**1.8**	<1.0	<1.0	**6.9**	<10	**27**
CM-4D	03/08/95	<5.0	<5.0	<5.0	**1,400**	<5.0	**51**	<5.0	<5.0	**130**	<5.0	--
	11/12/98	<2.0	<2.0	<2.0	**220**	<2.0	**21**	<2.0	<2.0	**120**	<5.0	--
	12/05/00	<0.5	**8.1**	**5.1**	**1,300**	<0.5	**5.8**	<0.5	<0.5	**30**	<0.5	--
	11/06/01	<5.0	**6.7**	<5.0	**970**	<5.0	**8.0**	<5.0	<5.0	**45**	<5.0	--
	11/10/02	<0.5	**12**	**8.8**	**1,400**	<0.5	**6.4**	<0.5	<0.5	**75**	<0.5	--
	11/09/03	<0.5	**1.6**	**2.5**	**51**	<0.5	**1.9**	<0.5	<0.5	**12**	<0.5	--
	10/25/04	<0.5	<0.5	<0.5	**41**	<0.5	**3.5**	<0.5	<0.5	**8.4**	<0.5	--
	11/13/05	<0.5	**5.1**	**4.0**	**250**	<0.5	**9.5**	<0.5	<0.5	**70**	<0.5	--
	04/23/06	<0.5	**4.4**	**4.1**	**290**	<1.0	**7.7**	<1.0	<1.0	**56**	<10	<0.5
	07/15/06	<0.5	<1.0	**3.1**	**440**	<1.0	**8.3**	<1.0	<1.0	**59**	<10	<2.5
	11/04/06	<2.5	**5.1**	**3.9**	**440**	<5.0	**5.3**	<5.0	<5.0	**53**	<50	<2.5
	05/13/07	<2.5	<5.0	**3.3**	**420**	<5.0	**13**	<5.0	<5.0	**69**	<50	<2.5
	11/05/07	<2.5	**7.3**	**4.3**	**770**	<5.0	**11**	<5.0	<5.0	**81**	<50	<2.5
	11/18/08	<2.5	<5.0	<2.5	**450**	<5.0	**14**	<5.0	<5.0	**70**	<50	<2.5
	12/01/09	<2.5	<5.0	**3.3**	**440**	<5.0	**14**	<5.0	<5.0	**71**	<50	<2.5
	12/29/10	<1.0	**3.7**	**2.5**	**350**	**4.3**	**17**	<2.0	<2.0	**86**	<20	<1.0
	05/05/11	<1.0	**6.3**	**5.3**	**380**	<2.0	**6.7**	<2.0	<2.0	**63**	<20	<1.0
	06/16/11	<1.0	**3.2 J**	**2.7 J**	**170**	**27**	<2.0	<2.0	<2.0	**2.1 J**	<20	<1.0
	05/05/11	<1.0	**6.3**	**5.3**	**380**	<2.0	**6.7**	<2.0	<2.0	**63**	<20	<1.0
	06/16/11	<1.0	**3.2**	**2.7**	**170**	**27**	<2.0	<2.0	<2.0	**2.1**	<20	<1.0
	09/22/11	<10	<20	<10	**53**	**41**	<20	<20	<20	<20	<200	<10
	11/30/11	<0.5	<1.0	<0.5	**33**	**48**	<1.0	<1.0	<1.0	<1.0	<10	**6.6**
	03/27/12	<0.5	<1.0	**0.51**	<1.0	**1.9**	<1.0	**1.2**	<1.0	<1.0	<10	**3.6**
	05/31/12	<0.5	<1.0	**1.0**	<1.0	**1.2**	<1.0	**2.3**	<1.0	<1.0	<10	**3.2**
CM-7	03/07/95	<3.0	**9.4**	<3.0	**400**	**7.0**	<3.0	<3.0	<3.0	**9.0**	<3.0	--
	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-7D	03/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/06/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**82**	<0.5	<0.5	<0.5	--
	09/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**3.8**	<0.5	<0.5	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.62**	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--

Table B1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
CM-7D	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
(cont'd)	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/13/97	<2.0	--	--	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/17/97	<2.0	<2.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/12/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	11/12/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/28/99	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	--
	05/11/00	**0.73**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.5**	<0.5	<0.5	<0.5	--
	12/06/00	<0.5	<0.5	<0.5	**2.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/26/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/10/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/15/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/23/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	04/23/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/14/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/05/06	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	02/18/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/14/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/04/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/01/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/19/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/29/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/03/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/10/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/29/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/08/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/06/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5

Table B1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
CM-8D	03/08/95	<3.0	**14**	<3.0	**270**	<3.0	<3.0	<3.0	**5.4**	**45**	**54**	--
	06/05/95	<1.0	**6.9**	<1.0	**190**	<1.0	<1.0	**4.4**	**2.3**	**43**	**12**	--
	09/19/95	<0.5	**4.7**	<0.5	**93**	<0.5	**0.86**	<0.5	**1.7**	**41**	**8.4**	--
	12/04/95	<0.5	**5.6**	<0.5	**110**	<0.5	**0.69**	<0.5	**1.6**	**47**	**11**	--
	02/13/96	<10	**20**	<10	**440**	<10	<10	<10	<10	**64**	<25	--
	05/14/96	<10	**20**	<10	**460**	<10	<10	<10	<10	**63**	**49**	--
	08/13/96	<2.0	**4.8**	<2.0	**110**	<2.0	<2.0	<2.0	<2.0	**32**	**18**	--
	11/11/96	<2.0	**5.3**	<2.0	**100**	<2.0	<2.0	<2.0	<2.0	**31**	**17**	--
	05/12/97	<2.0	**3.8**	<2.0	**58**	<2.0	<2.0	<2.0	<2.0	**29**	**24**	--
	12/16/97	<2.0	**2.7**	<2.0	**46**	<2.0	<2.0	<2.0	<2.0	**23**	**30**	--
	05/12/98	<5.0	<5.0	<5.0	**55**	<5.0	<5.0	<5.0	<5.0	**18**	**19**	--
	11/11/98	<2.0	**3.9**	<2.0	**63**	<2.0	<2.0	<2.0	<2.0	**24**	**18**	--
	06/25/99	<5.0	**10**	<5.0	**200**	<5.0	<5.0	<5.0	<5.0	**87**	**69**	--
	10/19/99	<5.0	<5.0	<5.0	**60**	<5.0	<5.0	<5.0	<5.0	**24**	**17**	--
	12/28/99	<5.0	<5.0	<5.0	**46**	<5.0	<5.0	<5.0	<5.0	**23**	**14**	--
	05/11/00	<0.5	**5.7**	<5.0	**110**	<0.5	<5.0	<5.0	<5.0	**24**	**22**	--
	12/07/00	<0.5	**8.1**	**0.79**	**140**	<0.5	**0.85**	<0.5	**0.9**	**36**	**5.3**	--
	06/26/01	<0.5	**15**	<0.5	**230**	**1.3**	**2.6**	<0.5	**0.5**	**55**	**35**	--
	11/08/01	<0.5	**18**	**1.7**	**340**	**1.9**	**2.2**	<0.5	<0.5	**62**	**58**	--
	05/22/02	<0.5	**10**	**1.6**	**230**	**1.6**	<0.5	<0.5	<0.5	**27**	**11**	--
	11/12/02	<2.5	**18**	<2.5	**510**	<2.5	<2.5	<2.5	<2.5	**62**	**56**	--
	06/16/03	<0.5	**10**	<0.5	**200**	<0.5	<0.5	<0.5	<0.5	**31**	**14**	--
	11/10/03	<1.0	**11**	<1.0	**220**	<1.0	<1.0	<1.0	<1.0	**34**	**6.3**	--
	06/12/04	<1.0	**6.7**	<1.0	**140**	**0.54**	<1.0	<1.0	<1.0	**27**	**6.5**	--
	10/21/04	<0.5	**9.4**	**0.95**	**200**	**1.1**	**2.7**	<0.5	<0.5	**24**	**9.3**	--
	06/29/05	<0.5	**11**	**1.5**	**170**	**1.2**	<0.5	<0.5	<0.5	**42**	**10**	--
	11/14/05	<0.5	**9.9**	**1.3**	**130**	**0.98**	**0.91**	<0.5	<0.5	**34**	**7.6**	--
	07/14/06	<0.5	**9.6**	**1.1**	**130**	**1.6**	**1.1**	<1.0	<1.0	**33**	<10	<0.5
	11/08/06	<0.5	**6.9**	**1.1**	**120**	**1.1**	<1.0	<1.0	<1.0	**26**	<10	<0.5
	12/28/06	<0.5	**7.8**	**1.2**	**110**	**1.1**	<1.0	<1.0	<1.0	**28**	<10	<0.5
	02/18/07	<0.5	**3.1**	<0.5	**43**	<1.0	**0.32J**	<1.0	<1.0	**12**	**2.4J**	<0.5
	05/14/07	<0.5	**2.6**	<0.5	**45**	<1.0	<1.0	<1.0	<1.0	**12**	<10	<0.5
	11/04/07	<0.5	**2.1**	<0.5	**25**	<1.0	<1.0	<1.0	<1.0	**8.1**	<10	<0.5
	07/02/08	<0.5	**1.5**	<0.5	**20**	<1.0	<1.0	<1.0	<1.0	**7.6**	<10	<0.5
	11/20/08	<0.5	**2.1**	<0.5	**43**	<1.0	<1.0	<1.0	<1.0	**8.0**	<10	<0.5
	05/27/09	<0.5	**1.8**	<0.5	**27**	<1.0	<1.0	<1.0	<1.0	**7.2**	<10	<0.5

Table B1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
CM-8D	12/08/09	<0.5	**2.9**	<0.5	**55**	**1.2**	<1.0	<1.0	<1.0	**14**	<10	<0.5
(cont'd)	06/10/10	<0.5	**1.3**	<0.5	**23**	<1.0	<1.0	<1.0	<1.0	**5.7**	<10	<0.5
	12/28/10	<0.5	**2.0**	<0.5	**31**	<1.0	<1.0	<1.0	<1.0	**8.7**	<10	<0.5
	06/14/11	<0.5	**2.9**	**0.52 J**	**2.5 J**	<1.0	<1.0	<1.0	<1.0	**14**	<10	<0.5
	12/13/11	<0.5	<1.0 J	<0.5	**23**	<1.0	<1.0	<1.0	<1.0	**8.0**	<10	<0.5
	06/06/12	<0.5	**1.2**	<0.5	**17**	<1.0	<1.0	<1.0	<1.0	**7.4**	<10	<0.5
CM-9D	03/07/95	<0.5	**2.8**	<0.5	**22**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/15/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/98	<2.0	<2.0	<2.0	**12**	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.8**	--
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.3**	--
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/21/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.4**	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.7**	--
	11/07/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/07/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/20/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/08/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/28/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/13/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-10	03/08/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**190**	--
	06/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.58**	<0.5	<0.5	**93**	--
	09/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**100**	--
	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**120**	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<20	<2.0	**39**	--
	05/14/96	<10	<10	<10	<25	<10	<10	<10	<10	<10	**110**	--
	08/12/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**88**	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<10	<2.0	<2.0	<2.0	<2.0	**120**	--
	05/13/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**93**	--
	12/15/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**100**	--
	05/12/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**120**	--
	12/04/98	<5.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<5.0	<2.0	**110**	--
	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	08/04/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**93**	--

Table B1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
CM-10	10/19/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**74**	--
(cont'd)	12/27/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**82**	--
	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**80**	--
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**55**	--
	06/26/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**56**	--
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**55**	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**29**	--
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/16/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**56**	--
	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**47**	--
	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**40**	--
	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**40**	--
	07/14/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**27**	<0.5
	11/08/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**28**	<0.5
	11/21/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**32**	<0.5
CM-11	03/07/95	<0.5	<0.5	<0.5	**3.0**	<0.5	<0.5	<0.5	<0.5	**1.3**	<0.5	--
Well abandoned	12/17/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
CM-11A	08/11/98	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	11/12/98	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<2.0	<2.0	<2.0	<0.5	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	01/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/11/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/21/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-11A	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
(cont'd)	11/06/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/21/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-12	03/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/06/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**9.3**	<0.5	<0.5	<5.0	--
	09/19/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	--
	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--

Table B1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
CM-12	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
(cont'd)	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/26/01	<0.5	<0.5	<0.5	<0.5	<0.5	**0.58**	<0.5	<0.5	<0.5	<0.5	--
	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/10/02	<0.5	<0.5	<0.5	<0.5	**7.2**	**4.0**	<0.5	<0.5	**27**	<0.5	--
	06/15/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/15/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/06/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/02/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/19/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-13	03/08/95	**6.0**	**7.6**	<3.0	**230**	<3.0	<0.5	<0.5	<0.5	**31**	<0.5	--
	12/17/97	<2.0	**3.2**	<2.0	**94**	<2.0	<2.0	<2.0	<2.0	**9.4**	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/06/00	<0.5	**2.0**	<0.5	**75**	**1.9**	<0.5	<0.5	<0.5	**4.8**	<0.5	--
	11/07/01	**0.69**	**6.4**	**1.0**	**310**	**1.2**	**1.2**	<0.5	<0.5	**14**	<0.5	--
	11/12/02	<1.0	**4.4**	<1.0	**310**	<1.0	<1.0	<1.0	<1.0	**8.1**	<1.0	--
	11/10/03	<0.5	**4.9**	<0.5	**240**	<0.5	**0.56**	<0.5	<0.5	**7.5**	<0.5	--
	10/23/04	<0.5	**5.0**	<0.5	**250**	**0.77**	**2.4**	<0.5	<0.5	**9.3**	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	**1.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	04/23/06	<0.5	**1.3**	<0.5	**82**	<1.0	<1.0	<1.0	<1.0	**4.1**	<10	<0.5
	07/16/06	<0.5	<1.0	<0.5	**30**	<1.0	<1.0	<1.0	<1.0	**1.1 J**	<10	**0.82**
	11/04/06	<0.5	<1.0	<0.5	**6.6**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	**0.93**
	02/18/07	<0.5	<1.0	<0.5	**0.3J**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/14/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/04/07	<0.5	<1.0	<0.5	**1.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	**4.2**
	11/18/08	<0.5	<1.0	<0.5	**1.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	**9.7**
	12/03/09	<0.5	<1.0	<0.5	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/17/10	<0.5	<1.0	<0.5	**10**	**1.3**	<1.0	<1.0	<1.0	**1.0**	<10	**19**
	12/08/11	<0.5	<1.0	<0.5	**3.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	**12**

Table B1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
CM-14	06/06/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	09/19/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/12/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/29/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/05/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/24/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/06/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/06/07	<0.5	<1.0	<0.5	**2.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/22/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/01/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	**1.3**	<1.0	<1.0	<10	<0.5
	12/15/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/07/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-15	03/08/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/06/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**34**	<0.5	<0.5	<0.5	--
	09/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/15/97	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/27/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table B1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
CM-15	11/13/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
(cont'd)	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/22/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	03/08/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/13/97	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/17/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/12/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/12/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/29/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/05/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/26/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/06/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/10/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/15/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/09/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/13/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/25/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/14/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	--
	11/06/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/15/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/05/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/01/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/18/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/29/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/08/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/10/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/29/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/05/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/16/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5

Table B1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
CM-16	09/22/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
(cont'd)	11/30/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	03/27/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/31/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-17	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	11/21/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-18	03/08/95	<0.5	<0.5	<0.5	**2.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**59**	--
	11/12/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**12**	--
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**11**	--
	11/07/01	<0.5	<0.5	<0.5	**1.6**	<0.5	<0.5	<0.5	<0.5	<0.5	**2.5**	--
	11/10/02	<0.5	<0.5	<0.5	**4.4**	**1.2**	**0.91**	<0.5	<0.5	**4.5**	**5.2**	--
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**10**	--
	10/21/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.3**	--
	11/16/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**6.1**	--
	11/07/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/06/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/22/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/08/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/28/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/13/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-19	03/07/95	<0.5	--	<0.5	**6.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/06/95	<0.5	<0.5	<0.5	**7.6**	<0.5	<0.5	**5.5**	<0.5	<0.5	<0.5	--
	09/19/95	<0.5	--	<0.5	**2.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	**1.4**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/12/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--

Table B1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
CM-19	12/29/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
(cont'd)	12/05/00	<0.5	<0.5	<0.5	**5.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/08/01	<0.5	<0.5	<0.5	**5.0**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/09/03	<0.5	<0.5	<0.5	**4.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/24/04	<0.5	<0.5	<0.5	**3.0**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	**6.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/06/06	<0.5	<1.0	<0.5	**7.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/06/07	<0.5	<1.0	<0.5	**8.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/22/08	<0.5	<1.0	<0.5	**7.7**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/01/09	<0.5	<1.0	<0.5	**14**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/15/10	<0.5	<1.0	<0.5	**13**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/07/11	<0.5	<1.0	<0.5	**2.8**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-15	03/08/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/06/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.79**	<0.5	<0.5	<0.5	--
	09/19/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	**14**	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/13/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/17/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	**0.73**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.9**	<0.5	<0.5	<0.5	--
	12/06/00	<0.5	<0.5	<0.5	**4.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/26/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.95**	<0.5	<0.5	<0.5	--
	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/15/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.5**	<0.5	<0.5	<0.5	--
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/13/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/23/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.5**	<0.5	<0.5	<0.5	--
	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.70**	<0.5	<0.5	<0.5	--

Table B1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-15	07/14/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
(cont'd)	11/06/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/15/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/06/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/02/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/18/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/29/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/03/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/10/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/17/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/08/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/06/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-16	03/08/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/06/95	<0.5	<0.5	<0.5	**1.5**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	09/19/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/13/97	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/17/97	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/12/98	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/06/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/10/02	<0.5	<0.5	<0.5	**5.9**	**6.9**	**8.3**	<0.5	<0.5	**280**	<0.5	--
	06/15/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/09/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/13/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/25/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/14/06	<0.5	<1.0	<0.5	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/15/07	<0.5	<1.0	<0.5	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/05/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5

Table B1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-16	07/01/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
(cont'd)	11/18/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/27/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/01/09	**0.74**	<1.0	<0.5	<1.0	<1.0	<1.0	**2.0**	<1.0	<1.0	<10	<0.5
	06/10/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/29/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/08/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/06/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-17	03/07/95	<0.5	<0.5	<0.5	**48**	<0.5	**2.4**	<0.5	**13**	**4.4**	**0.7**	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/12/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/29/99	<5.0	<5.0	<5.0	**12**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/05/00	<0.5	<0.5	<0.5	**7.7**	<0.5	**0.71**	<0.5	<0.5	**1.1**	<0.5	--
	11/08/01	<0.5	<0.5	<0.5	**13**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	**11**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/09/03	<0.5	<0.5	<0.5	**5.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/25/04	<0.5	<0.5	<0.5	**2.6**	<0.5	**2.4**	<0.5	<0.5	**0.59**	<0.5	--
	11/13/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	04/23/06	<0.5	<1.0	<0.5	**4.6**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/17/06	<0.5	<1.0	<0.5	**4.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/05/06	<0.5	<1.0	<0.5	**5.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/13/07	<0.5	<1.0	<0.5	**2.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/06/07	<0.5	<1.0	<0.5	**4.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/22/08	<0.5	<1.0	<0.5	**1.6**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/01/09	**0.77**	<1.0	<0.5	**2.7**	<1.0	<1.0	**1.9**	<1.0	<1.0	<10	<0.5
	12/15/10	<0.5	<1.0	<0.5	**2.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/07/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19S	03/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**6.4**	<0.5	<0.5	<0.5	--
	09/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/03/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--

Table B1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-19S	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
(cont'd)	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/12/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/27/99	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/26/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/08/01	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/16/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/13/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/23/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/16/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/15/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/08/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/15/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/07/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/01/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/20/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/26/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/04/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/10/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/23/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/15/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/06/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19D	03/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**84**	<0.5	<0.5	<0.5	--
	09/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/03/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table B1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-19D	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
(cont'd)	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/27/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/16/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/13/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/23/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/16/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/15/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/08/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/15/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/07/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/01/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/20/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/26/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/04/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/10/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/23/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/15/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/06/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-20S	03/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	09/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/03/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table B1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-20S	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
(cont'd)	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/13/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/12/98	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/27/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/26/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/16/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/13/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/23/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/16/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/15/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/08/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/15/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/07/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/01/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/20/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/29/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/10/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/04/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/23/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/06/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-20D	11/20/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5

Table B1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-21S	03/07/95	<0.5	<0.5	<0.5	**0.6**	<0.5	<0.5	<0.5	<0.5	**1.0**	<0.5	--
	09/18/95	<0.5	<0.5	<0.5	**0.87**	<0.5	<0.5	<0.5	<0.5	**1.1**	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/19/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-21D	11/19/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-22S	03/07/95	<0.5	<0.5	<0.5	**1.7**	<0.5	**1.1**	<0.5	<0.5	<0.5	<0.5	--
	11/21/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-22D	11/21/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-23	03/08/95	<5.0	**61**	<5.0	**2,000**	<5.0	**14**	**5.4**	**99**	**68**	<5.0	--
	05/12/98	<5.0	<5.0	<5.0	**7.8**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/29/99	<5.0	<5.0	<5.0	**85**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/06/00	**0.64**	**1.8**	**0.64**	**63**	<0.5	<0.5	**0.63**	<0.5	**3.9**	<0.5	--
	11/08/01	<0.5	**1.2**	<0.5	**73**	<0.5	**0.97**	<0.5	<0.5	**3.8**	<0.5	--
	11/10/02	**0.74**	**0.97**	<0.5	**82**	**1.9**	<0.5	<0.5	<0.5	**2.1**	<0.5	--
	11/10/03	<0.5	**1.1**	<0.5	**60**	<0.5	**0.53**	<0.5	<0.5	**3.1**	<0.5	--
	10/23/04	<0.5	**1.2**	<0.5	**33**	<0.5	<0.5	<0.5	<0.5	**2.1**	<0.5	--
	11/13/05	**0.51**	**1.4**	**0.7**	**120**	<0.5	<0.5	<0.5	<0.5	**2.5**	<0.5	--
	04/23/06	<0.5	**1.2**	<0.5	**62**	<1.0	<1.0	<1.0	<1.0	**3.0**	<10	**9.5**
	07/15/06	<0.5	**1.6**	**0.63**	**97**	<1.0	<1.0	<1.0	<1.0	**2.8**	<10	**21**
	11/04/06	<0.5	**1.6**	**0.87**	**93**	<1.0	<1.0	<1.0	<1.0	**1.9**	<10	**31**
	05/13/07	<0.5	**1.9**	**0.76**	**2.3**	**2.2**	<1.0	<1.0	<1.0	<1.0	<10	**83**
	11/05/07	<0.5	**2.6**	**0.94**	**3.6**	**2.3**	<1.0	<1.0	<1.0	<1.0	<10	**130**
	11/18/08	<0.5	**1.5**	<0.5	<1.0	**1.1**	<1.0	<1.0	<1.0	<1.0	<10	**100**
	12/01/09	**1.0**	**1.1**	<0.5	<1.0	<1.0	<1.0	**1.7**	<1.0	<1.0	<10	**75**
	12/17/10	<0.5	**1.0**	<0.5	**1.1**	**1.5**	<1.0	<1.0	<1.0	<1.0	<10	**90**
	12/08/11	<0.5	**1.6**	**0.51**	**8.5**	**2.3**	<1.0	<1.0	<1.0	<1.0	<10	**76**
MW-24	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<5.0	<2.0	<5.0	--
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/21/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table B1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-24	11/16/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
(cont'd)	11/07/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/28/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	02/18/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/14/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/04/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/02/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/21/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/08/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/28/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/13/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-25	03/08/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/15/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<5.0	<2.0	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/21/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/16/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/06/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/22/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/04/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/28/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-26	03/07/95	<0.5	<0.5	<0.5	**0.8**	<0.5	<0.5	<0.5	**0.6**	<0.5	<0.5	--
	06/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**24**	<0.5	<0.5	<0.5	--
	09/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--

Table B1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-26	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
(cont'd)	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/02	<0.5	<0.5	<0.5	**0.64**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/16/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/07/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/22/08	**0.66**	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/04/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/28/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-27	03/07/95	<0.5	<0.5	<0.5	**1.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/06/95	<0.5	<0.5	<0.5	**1.8**	<0.5	<0.5	**2.8**	<0.5	<0.5	<0.5	--
	09/19/95	<0.5	<0.5	<0.5	**0.81**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	**0.61**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/07/00	<0.5	<0.5	<0.5	**0.54**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/08/01	<0.5	<0.5	<0.5	**1.5**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/02	<0.5	<0.5	<0.5	**1.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/06	<0.5	<1.0	<0.5	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/07/07	<0.5	<1.0	<0.5	**1.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/22/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/04/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5

Table B1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-27	12/28/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
(cont'd)	12/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-28	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/11/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/25/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/19/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-29	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/21/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.66**	--
	11/20/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-30	03/07/95	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/05/95	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	**21**	<0.5	<0.5	<0.5	--
	09/19/95	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	**3.8**	<0.5	<0.5	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/15/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/27/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table B1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-27	11/07/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
(cont'd)	11/21/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-31	05/22/98	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**150**	--
	08/11/98	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**160**	--
	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**140**	--
	12/04/98	<5.0	<2.0	<2.0	<5.0	<2.0	<2.0	<5.0	<5.0	<2.0	**190**	--
	08/04/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	10/19/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**160**	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**130**	--
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	**0.53**	<0.5	<0.5	<0.5	**130**	--
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**110**	--
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**120**	--
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**120**	--
	10/21/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**92**	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**81**	--
	11/06/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**100**	<0.5
	11/19/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**87**	<0.5
MW-36	09/30/03	<0.5	<0.5	<0.5	**3.1**	<0.5	<0.5	<0.5	<0.5	**2.7**	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/06/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/05/07	<5.0	<10	<5.0	<10	<10	<10	<10	<10	<10	<100	<5.0
	11/18/08	<5.0	<10	<5.0	<10	<10	<10	<10	<10	<10	<100	<5.0
	12/01/09	<5.0	<10	<5.0	<10	<10	<10	<10	<10	<10	<100	<5.0
	12/29/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	**0.97**
	12/08/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	**5.7**	<1.0	<1.0	<10	**0.84**
MW-37	12/28/06	<0.5	<1.0	<0.5	**110**	<1.0	<1.0	<1.0	<1.0	**11**	<10	<0.5
	02/18/07	<0.5	**0.85 J**	<0.5	**66**	<1.0	<1.0	<1.0	<1.0	**7.8**	**2.3 J**	<0.5
	05/14/07	<0.5	<1.0	<0.5	**82**	<1.0	<1.0	<1.0	<1.0	**9.3**	<10	<0.5
	11/04/07	<0.5	**1.0**	<0.5	**53**	<1.0	<1.0	<1.0	<1.0	**7.0**	<10	<0.5
	07/02/08	<0.5	<1.0	<0.5	**59**	<1.0	<1.0	<1.0	<1.0	**7.0**	<10	<0.5
	11/20/08	<0.5	**1.1**	<0.5	**94**	<1.0	<1.0	<1.0	<1.0	**8.1**	<10	<0.5
	05/27/09	<0.5	**1.1**	<0.5	**26**	<1.0	<1.0	<1.0	<1.0	**7.2**	<10	<0.5
	12/08/09	<0.5	<1.0	<0.5	**63**	<1.0	<1.0	<1.0	<1.0	**8.4**	<10	<0.5
	06/10/10	<0.5	<1.0	<0.5	**35**	<1.0	<1.0	<1.0	<1.0	**4.4**	<10	<0.5
	12/08/09	<0.5	<1.0	<0.5	**63**	<1.0	<1.0	<1.0	<1.0	**8.4**	<10	<0.5
	12/28/10	<0.5	<1.0	<0.5	**42**	<1.0	<1.0	<1.0	<1.0	**6.8**	<10	<0.5

Table B1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-37	06/14/11	<0.5	<1.0	<0.5	**29**	<1.0	<1.0	<1.0	<1.0	**4.4**	<10	<0.5
(cont'd)	12/13/11	<0.5	<1.0	<0.5	**23**	<1.0	<1.0	<1.0	<1.0	**3.4**	<10	<0.5
	06/06/12	<0.5	<1.0	<0.5	**52**	<1.0	<1.0	<1.0	<1.0	**6.2**	<10	<0.5
MW-38	05/05/11	<0.5	<1.0	<0.5	<1.0	<1.0	**3.5**	<1.0	<1.0	**2.0**	<10	<0.5
	06/16/11	<0.5	<1.0	<0.5	<1.0	<1.0	**2.4**	<1.0	<1.0	<1.0	<10	<0.5
	09/22/11	<0.5	<1.0	<0.5	<1.0	<1.0	**3.0**	<1.0	<1.0	**1.5**	<10	<0.5
	11/30/11	<0.5	<1.0	<0.5	<1.0	<1.0	**2.3**	<1.0	<1.0	<1.0	<10	<0.5
	03/27/12	<0.5	<1.0	<0.5	<1.0	<1.0	**3.1**	<1.0	<1.0	<1.0	<10	<0.5
	05/31/12	<0.5	<1.0	<0.5	<1.0	<1.0	**4.1**	<1.0	<1.0	**1.2**	<10	<0.5

Notes:

1) All concentrations in µg/L.

2) All analyses done by EPA Method 8260, 8260B or 8021B.

3) '-- = not analyzed for parameter

4) Only wells with detectable concentrations of constituents of concern since March 1995 are shown.

5) 1,1-DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; 1,1-DCE = 1,1-Dichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; PCE = Tetrachloroethene; 1,1,1-TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane; VC = Vinyl C

6) "J" - result qualified as estimated due to quality control issues.

Table B2
Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
RW-01	03/17/95	<2.0	<2.0	<2.0	**130**	<2.0	**5.1**	<2.0	**9.6**	<2.0	**6.7**	--
	06/13/95	<20	<20	<20	**730**	<2.0	<20	<20	**31**	<20	<20	--
	09/11/95	<10	<10	<10	**570**	<2.0	<10	<10	**32**	<10	<10	--
	11/17/95	<20	<20	<20	**590**	<2.0	<20	<20	**30**	<20	**13**	--
	02/13/96	<10	<10	<10	**650**	<10	<10	<10	**22**	<2.0	**11**	--
	05/14/96	<10	<10	<10	**580**	<10	<10	<10	**15**	<2.0	<10	--
	08/13/96	<2.0	**5.8**	<2.0	**310**	<2.0	<2.0	<2.0	**14**	<2.0	**12**	--
	11/12/96	<2.0	**2.9**	<2.0	**220**	<2.0	<2.0	<2.0	**6.2**	<2.0	**7.1**	--
	05/13/97	<10	<10	<10	**360**	<10	<10	<10	<10	<10	<10	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/12/98	<5.0	**7.7**	<5.0	**910**	<5.0	<5.0	<5.0	**14**	<5.0	**16**	--
	09/09/98	<2.0	**4.8**	<2.0	**530**	<2.0	**2.0**	<2.0	**7.6**	<2.0	**15**	--
	11/10/98	<2.0	**2.7**	<2.0	**260**	<2.0	<2.0	<2.0	**2.3**	<2.0	**11**	--
	07/12/99	<5.0	<5.0	<5.0	**390**	<5.0	<5.0	<5.0	<5.0	<5.0	**11**	--
	10/19/99	<5.0	<5.0	<5.0	**360**	<5.0	<5.0	<5.0	<5.0	<5.0	**12**	--
	12/28/99	<5.0	<5.0	<5.0	**300**	<5.0	<5.0	<5.0	<5.0	<5.0	**11**	--
	05/11/00	<0.5	**2.7**	**0.77**	**400**	**0.66**	**1.0**	<0.5	**1.2**	<0.5	**7.0**	--
	12/05/00	<0.5	**2.6**	**0.64**	**250**	**0.68**	**0.9**	<0.5	**1.1**	<0.5	**8.4**	--
	06/12/01	<0.5	**3.1**	<0.5	**470**	<0.5	**0.91**	<0.5	**1.5**	<0.5	**11**	--
	11/06/01	<0.5	**2.9**	**0.57**	**270**	**0.71**	**0.9**	<0.5	**0.64**	<0.5	**9.3**	--
	05/22/02	<0.5	**1.9**	<0.5	**170**	<0.5	<0.5	<0.5	<0.5	<0.5	**5.6**	--
	11/13/02	<1.0	**1.6**	<1.0	**210**	<1.0	<1.0	<1.0	<1.0	<1.0	**6.1**	--
	06/16/03	<0.5	**1.5**	<0.5	**170**	<0.5	**0.75**	<0.5	<0.5	<0.5	**6.4**	--
	11/09/03	<0.5	**2.4**	<0.5	**210**	<0.5	<0.5	<0.5	<0.5	<0.5	**6.5**	--
	06/12/04	<0.5	**1.7**	<0.5	**200**	<0.5	<0.5	<0.5	<0.5	<0.5	**4.7**	--
	10/24/04	<0.5	**0.88**	<0.5	**62**	<0.5	<0.5	<0.5	<0.5	<0.5	**3.2**	--
	11/14/05	<0.5	**2.8**	**0.9**	**210**	<0.5	<0.5	<0.5	<0.5	<0.5	**7.8**	--
	04/23/06	<0.5	**2.7**	**0.95**	**240**	<1.0	<1.0	<1.0	<1.0	<1.0	**5.7**	<0.5
	07/16/06	<0.5	**2.6**	<0.5	**230**	<1.0	<1.0	<1.0	<1.0	<1.0	**6.2**	<1.0
	11/05/06	<1.0	**2.3**	<1.0	**240**	<2.0	<2.0	<2.0	<2.0	<2.0	**6.1**	<1.0
	02/18/07	<2.5	**3.1 J**	<2.5	**360**	<5.0	<5.0	<5.0	<5.0	<5.0	**5.7**	<2.5
	05/14/07	<0.5	**3.1**	**1.2**	**450**	<1.0	<1.0	<1.0	<1.0	<1.0	**6.3**	<1.0
	11/04/07	<2.5	<5.0	<2.5	**310**	<5.0	<5.0	<5.0	<5.0	<5.0	**5.4**	<2.5
	06/29/08	<2.5	<5.0	<2.5	**280**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.5
	11/16/08	<2.5	<5.0	**1.9 J**	**340**	<5.0	<5.0	<5.0	<5.0	<5.0	**3.0 J**	<2.5
	05/28/09	<2.5	<5.0	<2.5	**250**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.5
	10/23/09	<1.0	**2.7**	<1.0	**260**	<2.0	<2.0	<2.0	<2.0	<2.0	**4.8**	<1.0
	12/02/09	<1.0	**2.5**	<1.0	**280**	<2.0	<2.0	<2.0	<2.0	<2.0	**4.5**	<1.0
	02/02/10	<0.5	<1.0	<0.5	**75**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.5**	**1.0**
	06/09/10	<0.5	**1.6**	<0.5	**180**	<1.0	<1.0	<1.0	<1.0	<1.0	**3.8**	<0.5
	09/15/10	<0.5	**2.4**	**0.98**	**260**	<1.0	<1.0	<1.0	<1.0	<1.0	**3.7**	**7.9**

Table B2
Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
RW-01	12/20/10	<0.5	<1.0	<0.5	**1.7**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
(cont'd)	06/09/11	<0.5	**1.9**	**0.62**	**180**	<1.0	<1.0	<1.0	<1.0	<1.0	**2.9**	**6.8**
	11/29/11	<0.5 J	**1.4**	**0.62**	**150**	<1.0	<1.0	<1.0 J	<1.0	<1.0	**2.9**	**5.3**
	05/30/12	<0.5	**1.3**	**0.51**	**160**	<1.0	<1.0	<1.0	<1.0	<1.0	**2.6**	**4.8**
RW-02	03/17/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	06/13/95	<2.0	<2.0	<2.0	**31**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	09/11/95	<2.0	<2.0	<2.0	**21**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/17/95	<2.0	<2.0	<2.0	**7.4**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	02/13/96	<2.0	<2.0	<2.0	**55**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	08/13/96	<2.0	**5.1**	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**3.1**	--
	11/12/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/13/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/12/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	09/09/98	<2.0	<2.0	<2.0	<5.0	**5.6**	<2.0	<2.0	<2.0	<2.0	**7.0**	--
	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	07/12/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	10/19/99	<5.0	<5.0	<5.0	**11**	**8.3**	<5.0	<5.0	<5.0	<5.0	**7.0**	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/05/00	<0.5	<0.5	<0.5	**3.0**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/01	<0.5	<0.5	<0.5	**3.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/06/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	**4.7**	**2.2**	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/02	<0.5	<0.5	<0.5	**4.2**	**0.98**	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/16/03	<0.5	<0.5	<0.5	**7.6**	**1.1**	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/09/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/24/04	<0.5	<0.5	<0.5	**1.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/05/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	05/12/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/03/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/29/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/16/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	05/28/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	10/26/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/02/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	02/02/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/09/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	09/15/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5

Table B2
Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
RW-02	12/20/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
(cont'd)	06/09/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/29/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	05/30/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-03	03/20/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	06/13/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	09/11/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/17/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	02/13/96	<2.0	<2.0	<2.0	**9.4**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/14/96	<2.0	<2.0	<2.0	**13**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	08/13/96	<2.0	**14**	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/12/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/13/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/12/98	<5.0	<5.0	<5.0	**76**	**3.0**	<5.0	<5.0	<5.0	<5.0	<5.0	--
	09/09/98	<2.0	**2.2**	<2.0	**78**	**3.8**	<2.0	<2.0	<2.0	<2.0	**3.1**	--
	11/10/98	<2.0	<2.0	<2.0	**49**	**3.2**	<2.0	<2.0	<2.0	<2.0	<2.0	--
	07/12/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	10/19/99	<5.0	<5.0	<5.0	**100**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	**49**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	<0.5	**1.7**	<0.5	**15**	<0.5	<0.5	<0.5	**0.58**	<0.5	**1.2**	--
Obstructed	12/05/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
by roots 10/01	06/12/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
RW-04	03/20/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	06/13/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	09/11/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/17/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/14/96	<2.0	<2.0	<2.0	**10**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/12/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/13/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/12/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	09/09/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	07/12/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	10/19/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/05/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table B2
Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
RW-04	11/06/01	<0.5	<0.5	<0.5	<0.5	<0.5	**0.51**	<0.5	<0.5	<0.5	<0.5	--
(cont'd)	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/11/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/16/03	<0.5	<0.5	<0.5	**16**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.9**	--
	11/09/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/24/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/05/06	<0.5	**1.0**	<0.5	**83**	<1.0	<1.0	<1.0	<1.0	<1.0	**2.4**	<0.5
	05/12/07	<0.5	<1.0	<0.5	**39**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.8**	**2.6**
	11/03/07	<0.5	<1.0	<0.5	**17**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.3**
	06/29/08	<0.5	<1.0	<0.5	**3.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/16/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	05/28/09	<0.5	<1.0	<0.5	**1.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/09/09	<0.5	<1.0	<0.5	**1.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/11/10	<0.5	**1.8**	<0.5	**250**	<1.0	<1.0	<1.0	<1.0	<1.0	**4.3**	**0.84**
	07/07/10	<0.5	**1.6**	<0.5	**150**	<1.0	<1.0	<1.0	<1.0	<1.0	**4.0**	<0.5
	09/08/10	<0.5	**1.9**	<0.5	**170**	**1.1**	<1.0	<1.0	<1.0	<1.0	**3.6**	**12**
	12/21/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.7**
	06/15/11	<0.5	<1.0	<0.5	**18**	**1.2**	<1.0	<1.0	<1.0	<1.0	**2.9**	<0.5
	12/27/11	<0.5	<1.0	<0.5	**4.2**	**1.7**	<1.0	<1.0	<1.0	<1.0	<1.0	**50**
	06/07/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**18**
RW-05	03/17/95	<2.0	<5.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	06/13/95	<2.0	<5.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	09/11/95	<2.0	<5.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/17/95	<2.0	<5.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	02/13/96	<2.0	<5.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/14/96	<2.0	<5.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	08/13/96	<2.0	<5.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/13/96	<2.0	<5.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/13/97	<2.0	<5.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	12/16/97	<2.0	<5.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	09/09/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	07/12/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	10/19/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/05/00	<0.5	**3.3**	**0.89**	**280**	**0.69**	**0.59**	<0.5	<0.5	<0.5	**8.4**	--
	06/12/01	<0.5	**2.6**	<0.5	**250**	**1.2**	<0.5	<0.5	<0.5	<0.5	**6.8**	--
	11/06/01	<0.5	<0.5	<0.5	**0.57**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table B2
Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
RW-05	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
(cont'd)	06/16/03	**0.72**	<0.5	<0.5	**15**	<0.5	<0.5	<0.5	<0.5	<0.5	**3.2**	--
	11/09/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/24/04	<0.5	<0.5	<0.5	**2.7**	<0.5	<0.5	<0.5	<0.5	<0.5	**0.92**	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/05/06	<0.5	**1.4**	<0.5	**82**	<1.0	<1.0	<1.0	<1.0	<1.0	**3.2**	<0.5
	05/12/07	<0.5	<1.0	<0.5	**11**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/03/07	<0.5	<1.0	<0.5	**1.9**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/29/08	<0.5	<1.0	<0.5	**1.9**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/16/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	05/28/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/09/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/11/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/21/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/16/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/27/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/07/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-06	03/17/95	**810**	<20	<20	**1,100**	<2.0	<20	**130**	**48**	<20	**37**	--
	06/13/95	**250**	<20	<20	**1,400**	<2.0	<20	**37**	**67**	<20	**24**	--
	09/11/95	**80**	<20	<20	**730**	<2.0	<20	<20	**50**	<20	<20	--
	11/17/95	**59**	**7.9**	<5.0	**300**	<2.0	<5.0	**7.3**	**16**	<5.0	**10**	--
	02/13/96	**5.8**	**2.9**	<2.0	**230**	<2.0	<2.0	<2.0	**6.8**	<2.0	**7.0**	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	08/13/96	**3.1**	**68**	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**2.0**	--
	11/12/96	**9.8**	<2.0	<2.0	**23**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/13/97	<2.0	<2.0	<2.0	**19**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	12/16/97	**2.1**	<2.0	<2.0	**23**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/12/98	<5.0	<5.0	<5.0	**12**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	09/09/98	<2.0	**3.0**	<2.0	**170**	<2.0	<2.0	<2.0	**4.6**	<2.0	**7.5**	--
	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	07/12/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	10/19/99	<5.0	<5.0	<5.0	**100**	<5.0	<5.0	<5.0	<5.0	<5.0	**7.4**	--
	12/28/99	<5.0	<5.0	<5.0	**19**	<5.0	<5.0	<5.0	<5.0	<5.0	**9.9**	--
	05/11/00	**0.63**	<0.5	<0.5	**36**	<0.5	**1.2**	<0.5	<0.5	<0.5	**4.4**	--
	12/05/00	**4.4**	<0.5	<0.5	**19**	**0.76**	**1.4**	<0.5	<0.5	<0.5	**4.4**	--
	06/12/01	**2.5**	**2.1**	<0.5	**130**	<0.5	**0.95**	<0.5	<0.5	<0.5	**4.6**	--
	11/06/01	**0.55**	**1.6**	**0.82**	**170**	**0.59**	**3.1**	<0.5	**0.93**	<0.5	**13**	--
	05/22/02	**2.9**	<0.5	<0.5	**21**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.1**	--
	11/13/02	**1.4**	<0.5	<0.5	**34**	**0.73**	**0.94**	<0.5	<0.5	<0.5	**5.3**	--
	06/16/03	**0.61**	<0.5	<0.5	**20**	<0.5	**1.2**	<0.5	<0.5	<0.5	**4.9**	--
	11/11/03	<0.5	<0.5	<0.5	**16**	<0.5	**0.87**	<0.5	<0.5	<0.5	**3.3**	--

Table B2
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Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
RW-06	03/22/04	**0.86**	<0.5	<0.5	**25**	**1.2**	**1.0**	<0.5	<0.5	<0.5	**5.5**	--
(cont'd)	06/09/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/24/04	<0.5	<0.5	<0.5	**11**	**0.52**	**2.3**	<0.5	<0.5	<0.5	**2.7**	--
	11/14/05	<0.5	<0.5	<0.5	**0.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/05/06	<0.5	<1.0	<0.5	**18**	<1.0	<1.0	<1.0	<1.0	<1.0	**2.1**	**1.4**
	05/12/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/03/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/29/08	<0.5	<1.0	<0.5	**4.8**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/16/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	05/28/09	<0.5	<1.0	<0.5	**15**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.6**
	12/09/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/11/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/22/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/17/11	<0.5	<1.0	<0.5	**1.9**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/27/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/07/12	<0.5	<1.0	<0.5	**25**	**2.3**	<1.0	<1.0	<1.0	<1.0	**1.7**	**7.6**
RW-07	03/17/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	06/13/95	<2.0	<2.0	<2.0	**29**	<2.0	<2.0	<2.0	<2.0	<2.0	**4.0**	--
	09/11/95	<2.0	<2.0	<2.0	**6.6**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/17/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	02/13/96	<2.0	<2.0	<2.0	**15**	<2.0	<2.0	<2.0	<2.0	<2.0	**2.3**	--
	05/14/96	<2.0	<2.0	<2.0	**8.1**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/12/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/13/97	<2.0	<2.0	<2.0	**9.1**	<2.0	<2.0	<2.0	<2.0	<2.0	**2.5**	--
	05/12/98	<5.0	<5.0	<5.0	**6.5**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	09/09/98	<2.0	<2.0	<2.0	**8.2**	<2.0	<2.0	<2.0	<2.0	<2.0	**2.6**	--
	11/10/98	<2.0	<2.0	<2.0	**23**	<2.0	<2.0	<2.0	<2.0	<2.0	**5.5**	--
	07/12/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	10/19/99	<5.0	<5.0	<5.0	**33**	<5.0	<5.0	<5.0	<5.0	<5.0	**7.8**	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	<0.5	<0.5	<0.5	**0.63**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/05/00	<0.5	<0.5	<0.5	**2.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/01	<0.5	<0.5	<0.5	**5.9**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.0**	--
	11/06/01	<0.5	**1.5**	<0.5	**20**	**0.51**	<0.5	<0.5	<0.5	<0.5	**4.5**	--
	05/22/02	<0.5	**1.6**	<0.5	**45**	<0.5	<0.5	<0.5	<0.5	<0.5	**6.0**	--
	11/11/02	<0.5	<0.5	<0.5	**11**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.2**	--
	06/16/03	<0.5	**1.4**	<0.5	**36**	<0.5	<0.5	<0.5	<0.5	<0.5	**5.6**	--
	11/09/03	<0.5	<0.5	<0.5	**3.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/04	<0.5	<0.5	<0.5	**1.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/24/04	<0.5	<0.5	<0.5	**6.3**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.2**	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table B2
Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
RW-07	05/12/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
(cont'd)	11/03/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/29/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/16/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	05/28/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/09/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/11/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/21/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/15/11	<0.5	<1.0	<0.5	**27**	<1.0	**1.2**	<1.0	<1.0	<1.0	**5.7**	<0.5
	12/27/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/07/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-08	03/17/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	06/13/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/17/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/12/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/13/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	12/16/97	<2.0	<2.0	<2.0	**5.0**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/12/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	09/09/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	07/12/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	10/19/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	<0.5	<0.5	<0.5	**0.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/05/00	<0.5	<0.5	<0.5	**1.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/06/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/16/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/09/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/24/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/12/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/03/07	<0.5	<1.0	<0.5	**15**	**7.5**	**6.1**	<1.0	<1.0	<1.0	**31**	<0.5
	06/29/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/16/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	05/28/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5

Table B2
Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
RW-08	12/09/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
(cont'd)	06/11/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/23/10	<0.5	<1.0	<0.5	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.7**
	06/17/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/27/11	<0.5	<1.0	<0.5	**1.8**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/07/12	<0.5	<1.0	<0.5	**4.0**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.71**
RW-09	03/17/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	06/13/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	--
	09/11/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/17/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/12/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/13/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/12/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	09/09/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	07/12/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	10/19/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/05/00	<0.5	<0.5	<0.5	**2.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/06/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/16/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/09/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/24/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/12/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/03/07	<0.5	<1.0	<0.5	**11**	**6.5**	**4.5**	<1.0	<1.0	<1.0	**21**	<0.5
	06/29/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/16/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	05/28/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/09/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/11/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/23/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/17/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5

Table B2
Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
RW-09	12/28/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
(cont'd)	06/07/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-10	03/17/95	<20	<20	<20	**1,600**	<2.0	<20	<20	<20	**200**	<20	--
	06/13/95	<20	<20	<20	**1,900**	<2.0	<20	<20	**180**	<20	<20	--
	09/11/95	<20	<20	<20	**990**	<2.0	<20	<20	**100**	<20	<20	--
	11/17/95	<20	<20	<20	**720**	<2.0	<20	<20	**70**	<20	<20	--
	02/13/96	<10	<10	<10	**540**	<10	<10	<10	**35**	<2.0	<10	--
	05/14/96	<10	<10	<10	**350**	<10	<10	<10	**25**	<2.0	<10	--
	08/13/96	<2.0	**7.1**	**2.0**	**680**	<2.0	<2.0	<2.0	**37**	<2.0	**12**	--
	11/12/96	<10	<10	<10	**590**	<2.0	<10	<10	**40**	<10	**11**	--
	05/13/97	<10	<10	<10	**710**	<10	<10	<10	**35**	<10	<10	--
	12/16/97	<10	<10	<10	**450**	<10	<10	<10	**16**	<10	<10	--
	05/12/98	<5.0	<5.0	<5.0	**350**	<5.0	<5.0	<5.0	**12**	<5.0	**6.5**	--
	09/09/98	<2.0	**6.1**	**2.2**	**650**	<2.0	<2.0	<2.0	**20**	<2.0	**13**	--
	11/10/98	<2.0	<2.0	<2.0	**440**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	07/12/99	<5.0	<5.0	<5.0	**700**	<5.0	<5.0	<5.0	<5.0	<5.0	**9.1**	--
	10/19/99	<5.0	**7.2**	<5.0	**780**	<5.0	<5.0	<5.0	**17**	<5.0	**13**	--
	12/28/99	<5.0	**6.3**	<5.0	**440**	<5.0	<5.0	<5.0	<5.0	<5.0	**110**	--
	05/11/00	<0.5	**5.3**	**2.3**	**670**	<0.5	**1.2**	<0.5	**8.5**	<0.5	**10**	--
	12/05/00	<0.5	**4.6**	**1.7**	**450**	<0.5	**1.3**	<0.5	**5.5**	**0.55**	**14**	--
	06/12/01	<0.5	**5.6**	**1.2**	**610**	<0.5	**0.78**	<0.5	**4.1**	<0.5	**13**	--
	05/22/02	<0.5	**1.3**	**1.0**	**100**	<0.5	<0.5	<0.5	**0.6**	<0.5	**3.9**	--
	11/13/02	<0.5	**3.6**	**1.3**	**310**	<0.5	<0.5	<0.5	**2.7**	<0.5	**8.4**	--
	06/16/03	<0.5	**1.6**	<0.5	**160**	<0.5	<0.5	<0.5	**1.3**	<0.5	**4.7**	--
	11/09/03	<0.5	**2.8**	<0.5	**330**	<0.5	<0.5	<0.5	**2.7**	<0.5	**4.2**	--
	06/12/04	<0.5	**1.7**	<0.5	**240**	<0.5	<0.5	<0.5	**1.4**	<0.5	**4.6**	--
	10/24/04	<0.5	<0.5	<0.5	**26**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.2**	--
	11/14/05	<0.5	**2.0**	**0.88**	**190**	<0.5	<0.5	<0.5	**0.91**	<0.5	**3.1**	--
	04/23/06	<0.5	**2.7**	**0.95**	**96**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.4**	<0.5
	07/16/06	<0.5	<1.0	**0.63**	**91**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.2**	**2.1**
	11/05/06	<0.5	<1.0	<0.5	**5.8**	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0	**5.1**
	02/18/07	<0.5	**0.60 J**	<0.5	**3.4**	<1.0	<1.0	**0.44 J**	<1.0	<1.0	<1.0	**58**
	05/14/07	<0.5	<1.0	<0.5	**3.4**	<1.0	<1.0	**5.0**	<1.0	<1.0	<1.0	**42**
	11/04/07	<0.5	<1.0	<0.5	**2.8**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**45**
	06/29/08	<0.5	**1.9**	**0.84**	**72**	**2.2**	<1.0	<1.0	<1.0	<1.0	<1.0	**99**
	11/16/08	<0.5	**2.1**	**0.8**	**88**	**1.4**	<1.0	<1.0	<1.0	<1.0	**1.1**	**120**
	05/28/09	<0.5	**2.8**	<0.5	**76**	**1.5**	<1.0	<1.0	<1.0	<1.0	**1.3**	**85**
	10/23/09	<0.5	**1.6**	**0.5**	**23**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**80**
	12/02/09	<0.5	<1.0	<0.5	**18**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**7.6**
	02/02/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	**5.0**	<1.0	<1.0	<1.0	**6.7**
	06/09/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	**5.2**	<1.0	<1.0	<1.0	**10**
	09/15/10	<0.5	<1.0	<0.5	**1.0**	<1.0	<1.0	**3.8**	<1.0	<1.0	<1.0	**13**

Table B2
Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
RW-10	12/20/10	<0.5	<1.0	<0.5	**1.0**	<1.0	<1.0	**1.5**	<1.0	<1.0	<1.0	**25**
(cont'd)	06/09/11	<0.5	**1.7**	**0.63**	**2.9**	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0	**120J**
	11/29/11	<0.5	**1.0**	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**98**
	05/30/12	<0.5	**1.5**	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**100**
RW-11	03/17/95	<10	<10	<10	**770**	<2.0	<10	<10	**87**	<10	<10	--
	06/13/95	<20	<20	<20	**250**	<2.0	<20	<20	**25**	<20	<20	--
	09/11/95	<5.0	<5.0	<5.0	**210**	<2.0	<5.0	<5.0	**25**	<5.0	<5.0	--
	11/17/95	<10	<10	<10	**460**	<2.0	<10	<10	**49**	<10	<10	--
	02/13/96	<5.0	<5.0	<5.0	**290**	<2.0	<5.0	<5.0	**19**	<2.0	<5.0	--
	05/14/96	<2.0	**2.3**	<2.0	**100**	<2.0	<2.0	<2.0	**11**	<2.0	**2.1**	--
	08/13/96	<2.0	**4.9**	**2.3**	**630**	<2.0	<2.0	<2.0	**34**	<2.0	**8.8**	--
	11/12/96	<10	<10	<10	**540**	<10	<10	<10	**36**	<10	<10	--
	05/13/97	<20	<20	<20	**1,100**	<20	<20	<20	**46**	<20	<20	--
	12/16/97	<10	<10	<10	**350**	<10	<10	<10	**16**	<10	<10	--
	05/12/98	<5.0	<5.0	<5.0	**67**	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0	--
	09/09/98	<2.0	**2.2**	<2.0	**260**	<2.0	<2.0	<2.0	**5.4**	<2.0	**5.4**	--
	11/10/98	<2.0	<2.0	<2.0	**170**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	07/12/99	<5.0	<5.0	<5.0	**210**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	10/19/99	<5.0	**5.2**	<5.0	**540**	<5.0	<5.0	<5.0	**9.5**	<5.0	**9.5**	--
	12/28/99	<5.0	**6.1**	<5.0	**400**	<5.0	<5.0	<5.0	<5.0	<5.0	**8.2**	--
	05/11/00	<0.5	**2.9**	**1.1**	**480**	<0.5	**0.72**	<0.5	**3.5**	<0.5	**5.1**	--
	12/05/00	<0.5	**4.3**	**1.6**	**620**	<0.5	**1.1**	<0.5	**3.8**	<0.5	**8.3**	--
	06/12/01	<0.5	<0.5	<0.5	**110**	<0.5	<0.5	<0.5	<0.5	<0.5	**2.7**	--
	11/06/01	<1.0	**4.2**	**1.8**	**410**	<1.0	**2.6**	<1.0	**3.2**	<1.0	**21**	--
	05/22/02	<0.5	**0.78**	<0.5	**27**	<0.5	<0.5	<0.5	<0.5	<0.5	**3.4**	--
	11/13/02	<0.5	**0.71**	<0.5	**79**	<0.5	<0.5	<0.5	<0.5	<0.5	**2.5**	--
	06/16/03	<0.5	<0.5	<0.5	**22**	<0.5	**1.0**	<0.5	<0.5	<0.5	**4.0**	--
	11/09/03	<0.5	<0.5	<0.5	**2.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/04	<0.5	**0.92**	<0.5	**110**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.7**	--
	10/24/04	<0.5	<0.5	<0.5	**21**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.6**	--
	11/13/05	<0.5	<0.5	<0.5	**45**	<0.5	<0.5	<0.5	<0.5	<0.5	**3.1**	--
	04/23/06	<0.5	**1.2**	<0.5	**130**	<0.5	<0.5	<0.5	<0.5	<0.5	**2.5**	<0.5
	07/16/06	<0.5	**1.5**	**0.52**	**190**	<1.0	<1.0	<1.0	<1.0	<1.0	**2.2**	**11**
	11/04/06	<1.0	<2.0	<1.0	**60**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**7.4**
	02/18/07	<0.5	<1.0	<0.5	**18**	<1.0	<1.0	<1.0	<1.0	<1.0	**0.35J**	**5.5**
	05/14/07	<0.5	<1.0	<0.5	**24**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**3.0**
	11/04/07	<0.5	<1.0	<0.5	**27**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.4**
	06/29/08	<0.5	<1.0	<0.5	**21**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/16/08	<0.5	<1.0	<0.5	**36**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	05/28/09	<0.5	<1.0	<0.5	**12**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	10/23/09	<0.5	<1.0	<0.5	**36**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/02/09	<0.5	<1.0	<0.5	**100**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5

Table B2
Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
RW-11	02/02/10	<0.5	<1.0	<0.5	**28**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
(cont'd)	06/09/10	<0.5	<1.0	<0.5	**33**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	09/15/10	<0.5	<1.0	<0.5	**49**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/20/10	<0.5	<1.0	<0.5	**20**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/09/11	<0.5	<1.0	<0.5	**92**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/29/11	<0.5	<1.0	<0.5	**91**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.0**	<0.5
	05/30/12	<0.5	<1.0	<0.5	**70**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	09/18/12	<0.5	<1.0	<0.5	**57**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-12	03/17/95	**7.6**	**10**	<5.0	**250**	<2.0	<5.0	<5.0	<5.0	<5.0	**27**	--
	06/13/95	<10.0	<10	<10	**410**	<2.0	<10	<10	<10	<10	**26**	--
	09/11/95	<10.0	**5.6**	<10	**220**	<2.0	<10	<10	**13**	<10	**9.5**	--
	11/17/95	<2.0	**8.4**	<2.0	**210**	<2.0	<2.0	<2.0	<2.0	<2.0	**19**	--
	02/13/96	**2.9**	**7.6**	<2.0	**240**	<2.0	<2.0	<2.0	<2.0	<2.0	**17**	--
	05/14/96	<2.0	**5.0**	<2.0	**100**	<2.0	<2.0	<2.0	<2.0	<2.0	**10**	--
	08/13/96	**2.3**	**7.6**	<2.0	**180**	<2.0	<2.0	<2.0	<2.0	<2.0	**18**	--
	11/12/96	<2.0	**5.6**	<2.0	**100**	<2.0	<2.0	<2.0	<2.0	<2.0	**16**	--
	05/13/97	<2.0	**4.5**	<2.0	**73**	<2.0	<2.0	<2.0	<2.0	<2.0	**13**	--
	12/16/97	<2.0	**2.3**	<2.0	**32**	<2.0	<2.0	<2.0	<2.0	<2.0	**7.1**	--
	05/12/98	<5.0	<5.0	<5.0	**50**	<5.0	<5.0	<5.0	<5.0	<5.0	**9.5**	--
Well abandoned	09/09/98	<2.0	**5.7**	<2.0	**120**	<2.0	<2.0	<2.0	<2.0	<2.0	**16**	--
in 1999	11/10/98	<2.0	**3.5**	<2.0	**67**	<2.0	<2.0	<2.0	<2.0	<2.0	**11**	--
RW-13	03/17/95	<2.0	<2.0	<2.0	**12**	<2.0	<2.0	<2.0	<2.0	<2.0	**6.9**	--
	06/13/95	<2.0	<2.0	<2.0	**110**	<2.0	**4.9**	<2.0	<2.0	<2.0	**24**	--
	09/11/95	<2.0	<2.0	<2.0	**26**	<2.0	<2.0	<2.0	<2.0	<2.0	**7.0**	--
	11/17/95	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**2.6**	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	11/12/96	<2.0	<2.0	<2.0	**68**	**3.5**	**5.7**	<2.0	**4.3**	<2.0	**30**	--
	05/13/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	05/12/98	<5.0	<5.0	<5.0	**7.4**	<5.0	<5.0	<5.0	<5.0	<5.0	**6.2**	--
	09/09/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**3.0**	--
	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	07/12/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	10/19/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	<0.5	<0.5	<0.5	**0.59**	<0.5	<0.5	<0.5	<0.5	<0.5	**0.58**	--
	12/05/00	<0.5	<0.5	<0.5	**1.0**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.4**	--
	06/12/01	<0.5	<0.5	<0.5	**1.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/06/01	<0.5	<0.5	<0.5	**1.8**	<0.5	**0.51**	<0.5	<0.5	<0.5	**2.3**	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table B2
Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
RW-13	11/11/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.69**	--
(cont'd)	06/16/03	<0.5	<0.5	<0.5	**2.8**	<0.5	**0.69**	<0.5	<0.5	<0.5	**2.8**	--
	11/09/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/24/04	<0.5	<0.5	<0.5	**1.1**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.5**	--
	11/14/05	<0.5	<0.5	<0.5	**0.92**	<0.5	**0.5**	<0.5	<0.5	<0.5	**2.6**	--
	11/05/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	05/12/07	<0.5	<1.0	<0.5	<1.0	**7.1**	<1.0	<1.0	<1.0	<1.0	<1.0	**2.9**
	11/03/07	<0.5	<1.0	<0.5	**9.5**	**4.7**	**4.0**	<1.0	<1.0	<1.0	**19**	<0.5
	06/29/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	11/16/08	<0.5	<1.0	<0.5	**36**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	05/28/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/09/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/11/10	<0.5	<1.0	<0.5	**1.7**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/23/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/17/11	<0.5	<1.0	<0.5	**1.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	12/28/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
	06/07/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
RW-14	03/17/95	<100	<100	<100	**5,500**	<2.0	<100	<100	**670**	<100	<100	--
	06/13/95	<100	<100	<100	**5,300**	<2.0	<100	<100	**620**	<100	<100	--
	09/11/95	<100	<100	<100	**5,300**	<2.0	<100	<100	**570**	<100	<100	--
	11/17/95	<50	<50	<50	**3,500**	<2.0	<50	<50	**350**	<50	<50	--
	02/13/96	<40	<40	<40	**2,300**	<40	<40	<40	**160**	<2.0	<40	--
	05/14/96	<2.0	<2.0	**3.6**	**7.7**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
	08/13/96	<2.0	**10**	**7.4**	**610**	<2.0	<2.0	<2.0	**43**	**2.0**	**7.2**	--
	11/12/96	<40	<40	<40	**1.5**	<40	<40	<40	**99**	<40	<40	--
	05/13/97	<20	<20	<20	**1.4**	<20	<20	<20	**80**	<20	<20	--
	12/16/97	<10	**11**	<10	**860**	<10	<10	<10	**33**	<10	**15**	--
	05/12/98	<5.0	**11**	**7.0**	**1,000**	<5.0	<5.0	<5.0	**45**	<5.0	**5.8**	--
	09/09/98	<2.0	**16**	**9.5**	**1,500**	<2.0	**3.6**	<2.0	**50**	**3.0**	**15.0**	--
	11/10/98	<20	<20	<20	**290**	<20	<20	<20	<20	<20	<20	--
	07/12/99	<5.0	**7.0**	**8.0**	**760**	<5.0	<5.0	<5.0	**20**	<5.0	**13**	--
	10/19/99	<5.0	**14**	**8.1**	**2,200**	<5.0	<5.0	<5.0	**30**	<5.0	**18**	--
	12/28/99	<0.5	**11**	**9.6**	**1,200**	<5.0	**5.3**	<5.0	<5.0	<5.0	**17**	--
	05/11/00	<0.5	**9.4**	**6.4**	**1,900**	<0.5	**3.6**	<0.5	**13**	<0.5	**12**	--
	12/05/00	--	**7.7**	**4.6**	**1,500**	--	**3.4**	--	**8.6**	**1.4**	**15**	--
	06/12/01	<0.5	**12**	**5.2**	**800**	**1.8**	**4.1**	<0.5	**10**	<0.5	**17**	--
	11/06/01	<5.0	**12**	**7.3**	**1500**	<5.0	<5.0	<5.0	**12**	<5.0	**13**	--
	05/22/02	<5.0	**6.7**	<5.0	**770**	<5.0	<5.0	<5.0	<5.0	<5.0	**9.3**	--
	11/13/02	<5.0	**7.8**	<5.0	**1,400**	<5.0	<5.0	<5.0	<5.0	<5.0	**13**	--
	06/16/03	<2.5	<2.5	<2.5	**500**	<2.5	<2.5	<2.5	<2.5	<2.5	**8.1**	--
	11/11/03	<1.0	**8.0**	<1.0	**750**	**6.0**	<1.0	<1.0	<1.0	<1.0	**2.9**	--

Table B2
Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
RW-14	03/22/04	<1.0	**3.9**	**1.8**	**6.4**	<0.5	**0.82**	<1.0	<1.0	<1.0	<0.5	--
(cont'd)	06/09/04	<1.0	**1.9**	<0.5	**6.3**	<0.5	**0.63**	<1.0	<1.0	<1.0	<0.5	--
	10/24/04	<0.5	**4.9**	**3.0**	**380**	**0.98**	**3.3**	<0.5	**1.0**	<0.5	**5.1**	--
	11/13/05	<1.0	**6.0**	**4.2**	**420**	<1.0	<1.0	<1.0	<1.0	<1.0	**4.0**	--
	04/23/06	<0.5	<1.0	**0.5**	**45**	<1.0	<1.0	<1.0	<1.0	<1.0	**2.5**	**6.8**
	07/17/06	<0.5	**3.9**	**2.1**	**300**	<1.0	<1.0	<1.0	<1.0	<1.0	**3.4**	**23**
	11/04/06	<2.5	**5.4**	**3.4**	**240**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**230**
	05/13/07	<0.5	**1.3**	**2.1**	**73**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**38**
	11/03/07	<0.5	**4.6**	**3.7**	**260**	**1.9**	<1.0	<1.0	<1.0	<1.0	**1.8**	**110**
	06/29/08	<2.5	<5.0	<2.5	**450**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**34**
	11/16/08	<2.5	<5.0	<2.5	**250**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**110**
	05/28/09	<0.5	**2.1**	**0.63**	**56**	**4.7**	<1.0	<1.0	<1.0	<1.0	**2.0**	**76**
	12/09/09	<0.5	**2.7**	**1.0**	**170**	**4.4**	<1.0	<1.0	<1.0	<1.0	**4.6**	**55**
	06/11/10	<0.5	**5.3**	**3.6**	**400**	**1.5**	<1.0	<1.0	<1.0	<1.0	**3.3**	**51**
	12/22/10	<0.5	<1.0	<0.5	**17**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**3.5**
	06/15/11	<2.5	<5.0	**3.1**	**580**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.5
	12/27/11	<2.5	<5.0	<2.5	**430**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**41**
	06/07/12	<0.5	**2.0**	**0.97**	**80**	**1.6**	<1.0	<1.0	<1.0	<1.0	**1.4**	**65**
	09/18/12	<0.5	**2.8**	**1.2**	**160**	**1.9**	<1.0	<1.0	<1.0	<1.0	**2.2**	**44**
RW-15	03/17/95	<10	<10	<10	**490**	<2.0	<10	<10	**100**	<10	**22**	--
	06/13/95	<20	<20	<20	**740**	<2.0	<20	<20	**110**	<20	<20	--
	09/11/95	<5.0	<5.0	<5.0	**550**	<2.0	<5.0	<5.0	**62**	<5.0	**16**	--
	11/17/95	<10	<10	<10	**320**	<2.0	<10	<10	**41**	<10	**17**	--
	02/13/96	<4.0	<4.0	<4.0	**180**	<4.0	<4.0	<4.0	**12**	<2.0	**6.5**	--
	05/14/96	<2.0	<2.0	<2.0	**62**	<2.0	<2.0	<2.0	**5.3**	<2.0	**3.6**	--
	08/13/96	<2.0	<2.0	<2.0	**94**	<2.0	<2.0	<2.0	**5.7**	<2.0	**6.7**	--
	11/12/96	<2.0	<2.0	<2.0	**94**	<2.0	**2.1**	<2.0	**6.5**	<2.0	**11**	--
	05/13/97	<2.0	<2.0	<2.0	**110**	<2.0	**2.4**	<2.0	**6.6**	<2.0	**9.1**	--
	12/16/97	<2.0	<2.0	<2.0	**190**	<2.0	**8.6**	<2.0	**5.6**	<2.0	**28**	--
	05/12/98	<5.0	<5.0	<5.0	**54**	<5.0	<5.0	<5.0	<5.0	<5.0	**5.3**	--
	09/09/98	<2.0	<2.0	<2.0	**97**	<2.0	**2.7**	<2.0	**4.9**	<2.0	**7.3**	--
	11/10/98	<8.0	<8.0	<8.0	**180**	<8.0	<8.0	<8.0	<8.0	<8.0	**8.6**	--
	07/12/99	<5.0	<5.0	<5.0	**44**	<5.0	<5.0	<5.0	<5.0	<5.0	**7.1**	--
	10/19/99	<5.0	<5.0	<5.0	**96**	<5.0	<5.0	<5.0	<5.0	<5.0	**11**	--
	12/28/99	<5.0	<5.0	<5.0	**86**	<5.0	<5.0	<5.0	<5.0	<5.0	**9.8**	--
	11/13/05	<0.5	<0.5	<0.5	**34**	<0.5	**1.9**	<0.5	<0.5	<0.5	**5.5**	--
	07/18/06	<0.5	<1.0	<0.5	**51**	<1.0	**2.8**	<1.0	**8.9**	<1.0	<1.0	--
	04/23/06	<0.5	<1.0	<0.5	**21**	<1.0	**2.6**	<1.0	<1.0	<1.0	**6.1**	<0.5
	11/04/06	<0.5	<1.0	<0.5	**22**	<1.0	**1.7**	<1.0	<1.0	<1.0	**5.9**	<0.5
	05/13/07	<0.5	<1.0	<0.5	**53**	<1.0	**3.0**	<1.0	<1.0	<1.0	**8.3**	<0.5
	11/03/07	<0.5	<1.0	<0.5	**42**	<1.0	**1.5**	<1.0	<1.0	<1.0	**5.8**	<0.5
	06/29/08	<0.5	<1.0	<0.5	**20**	<1.0	<1.0	<1.0	<1.0	<1.0	**4.2**	<0.5

Table B2
Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
RW-15	11/16/08	<0.5	<1.0	<0.5	**4.7**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.9**	<0.5
(cont'd)	05/28/09	<0.5	<1.0	<0.5	**56**	<1.0	**1.5**	<1.0	<1.0	<1.0	**6.8**	<0.5
	12/09/09	<0.5	<1.0	<0.5	**100**	<1.0	**2.2**	<1.0	<1.0	<1.0	**8.5**	<0.5
	06/11/10	<0.5	<1.0	<0.5	**16**	<1.0	**1.0 J**	<1.0	<1.0	<1.0	**3.6**	<0.5
	12/22/10	<0.5	<1.0	<0.5	**9.9**	<1.0	<1.0	<1.0	<1.0	<1.0	**2.1**	<0.5
	06/15/11	<0.5	<1.0	<0.5	**30**	<1.0	<1.0	<1.0	<1.0	<1.0	**2.3**	<0.5
	12/28/11	<0.5	<1.0	<0.5	**24**	<1.0	**1.9**	<1.0	<1.0	<1.0	**6.6**	<0.5
	06/07/12	<0.5	<1.0	<0.5	**24**	<1.0	**2.1**	<1.0	<1.0	<1.0	**6.4**	<0.5
	09/18/12	<0.5	<1.0	<0.5	**41**	<1.0	**2.7**	<1.0	<1.0	<1.0	**7.7**	<0.5
RW-16	03/17/95	<4.0	<4.0	<4.0	**280**	<2.0	**12**	<4.0	<4.0	<4.0	**67**	--
	06/13/95	<2.0	<2.0	<2.0	**150**	<2.0	**15**	<2.0	**2.2**	<2.0	**57**	--
	09/11/95	<2.0	<2.0	<2.0	**85**	<2.0	**6.7**	<2.0	**2.2**	<2.0	**37**	--
	11/17/95	<2.0	<2.0	<2.0	**59**	<2.0	<2.0	<2.0	<2.0	<2.0	**28**	--
	02/13/96	<2.0	<2.0	<2.0	**28**	<2.0	**2.3**	<2.0	<2.0	<2.0	**9.4**	--
	05/14/96	<2.0	<2.0	<2.0	**13**	<2.0	<2.0	<2.0	<2.0	<2.0	**3.8**	--
	08/13/96	<2.0	<2.0	<2.0	**28**	<2.0	**3.4**	<2.0	<2.0	<2.0	**20**	--
	11/12/96	<2.0	<2.0	<2.0	**22**	<2.0	**3.7**	<2.0	<2.0	<2.0	**19**	--
	05/13/97	<2.0	<2.0	<2.0	**21**	<2.0	**17**	<2.0	<2.0	<2.0	**74**	--
	12/16/97	<2.0	<2.0	<2.0	**60**	<2.0	**9.8**	<2.0	<2.0	<2.0	**37**	--
	05/12/98	<5.0	<5.0	<5.0	**180**	<5.0	**9.9**	<5.0	<5.0	<5.0	**43**	--
	09/09/98	<2.0	<2.0	<2.0	**44**	<2.0	**9.9**	<2.0	<2.0	<2.0	**42**	--
	11/10/98	<2.0	<2.0	<2.0	**56**	<2.0	**12**	<2.0	<2.0	<2.0	**58**	--
	07/12/99	<5.0	<5.0	<5.0	**53**	<5.0	**9.7**	<5.0	<5.0	<5.0	**47**	--
	10/19/99	<5.0	<5.0	<5.0	**170**	<5.0	**6.3**	<5.0	<5.0	<5.0	**30**	--
	12/28/99	<5.0	<5.0	<5.0	**92**	<5.0	**18**	<5.0	<5.0	<5.0	**65**	--
	05/11/00	<0.5	**1.1**	<0.5	**130**	<0.5	**15**	<0.5	<0.5	<0.5	**48**	--
	12/05/00	<0.5	**1.1**	**0.89**	**140**	<0.5	**12**	<0.5	<0.5	<0.5	**52**	--
	06/12/01	<0.5	<0.5	<0.5	**100**	<0.5	**7.8**	<0.5	--	<0.5	**35**	--
	11/06/01	<0.5	**1.4**	**0.69**	**140**	**0.53**	**11**	<0.5	<0.5	<0.5	**45**	--
	05/22/02	<0.5	**0.91**	<0.5	**96**	**1.6**	**12**	<0.5	<0.5	<0.5	**52**	--
	11/13/02	<0.5	<0.5	<0.5	**130**	**1.4**	**6.1**	<0.5	<0.5	<0.5	**36**	--
	06/16/03	<0.5	<0.5	<0.5	**71**	<0.5	**15**	<0.5	<0.5	<0.5	**47**	--
	11/09/03	<0.5	<0.5	<0.5	**79**	**0.74**	**17**	<0.5	<0.5	<0.5	**56**	--
	06/12/04	<0.5	<0.5	<0.5	**55**	**0.75**	**11**	<0.5	<0.5	<0.5	**46**	--
	10/24/04	<0.5	<0.5	<0.5	**36**	**0.89**	**11**	<0.5	<0.5	<0.5	**29**	--
	11/14/05	<0.5	**0.8**	<0.5	**63**	**2.0**	**15**	<0.5	<0.5	<0.5	**60**	--
	11/05/06	<0.5	<1.0	<0.5	**65**	**4.4**	<1.0	<1.0	<1.0	<1.0	**58**	<0.5
	05/12/07	<0.5	<1.0	<0.5	**23**	**27**	**8.0**	<1.0	<1.0	<1.0	**41**	<0.5
	11/03/07	<0.5	<1.0	<0.5	**31**	**38**	**8.3**	<1.0	<1.0	<1.0	**45**	<0.5
	06/29/08	<0.5	<1.0	<0.5	**47**	**5.6**	**15**	<1.0	<1.0	<1.0	**85**	**1.3**
	11/16/08	<0.5	<1.0	<0.5	**15**	**6.7**	**6.5**	<1.0	<1.0	<1.0	**23**	**2.5**
	05/28/09	<0.5	**1.4**	<0.5	**110**	**6.6**	**17**	<1.0	<1.0	<1.0	**82**	**1.9**

Table B2
Historical Volatile Organic Compound Concentrations in Recovery Wells - 1995-Present
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	VC
RW-16	12/09/09	<0.5	<1.0	<0.5	**33**	**2.2**	**23**	<1.0	<1.0	<1.0	**76**	<0.5
(cont'd)	06/11/10	<0.5	<1.0	<0.5	**45**	**4.6**	**26**	<1.0	<1.0	<1.0	**89**	**1.2**
	12/22/10	<0.5	<1.0	<0.5	**21**	**6.6**	**17**	<1.0	<1.0	<1.0	**58**	**1.4**
	06/17/11	<5.0	<10	<5.0	**29**	**41**	**10**	<10	<10	<10	**30**	<5.0
	12/28/11	<1.0	<2.0	<1.0	**2.6**	**18**	<2.0	<2.0	<2.0	<2.0	<2.0	**32**
	06/07/12	<0.5	<1.0	<0.5	<1.0	**1.9**	<1.0	**3.7**	<1.0	<1.0	<1.0	**4.5**
RW-17	03/17/95	<2.0	<2.0	<2.0	**27**	<2.0	**44**	<2.0	<2.0	<2.0	**160**	--
	06/13/95	<2.0	<2.0	<2.0	**84**	<2.0	**13**	<2.0	**12**	<2.0	**42**	--
	09/11/95	<2.0	<2.0	<2.0	<5.0	<2.0	**4.5**	<2.0	<2.0	<2.0	**14**	--
	11/17/95	<2.0	<2.0	<2.0	<5.0	<2.0	**2.0**	<2.0	<2.0	<2.0	**7.7**	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**3.6**	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	**3.3**	<2.0	<2.0	<2.0	**20**	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	**2.3**	<2.0	<2.0	<2.0	**9.7**	--
	11/12/96	<2.0	<2.0	<2.0	<5.0	**6.5**	**9.2**	<2.0	<2.0	<2.0	**42**	--
	05/13/97	<2.0	<2.0	<2.0	**7.6**	<2.0	**18**	<2.0	<2.0	<2.0	**63**	--
	12/16/97	<2.0	<2.0	<2.0	**14**	<2.0	**18**	<2.0	<2.0	<2.0	**49**	--
	05/12/98	<5.0	<5.0	<5.0	**14**	<5.0	**9.3**	<5.0	<5.0	<5.0	**25**	--
Well abandoned	09/09/98	<2.0	<2.0	<2.0	<5.0	<2.0	**2.4**	<2.0	<2.0	<2.0	**5.2**	--
in 1999	11/10/98	<2.0	<2.0	<2.0	**2.9**	<2.0	**3.8**	<2.0	<2.0	<2.0	**11**	--

Notes:

1) All concentrations in µg/L.
2) All analyses done by EPA Method 8260, 8260B or 8021B, except for TPHg by EPA Method 8015M.
3) '-- = not analyzed for this analyte.
4) Only wells with detectable concentrations of constituents of concern are shown.
5) 1,1-DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; 1,1-DCE = 1,1-Dichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; PCE = Tetrachloroethene; 1,1,1-TCA = 1,1,1-Trichloroethane; 1,1,2-TCA = 1,1,2-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane

Appendix C

Purge Logs and Field Forms

Daily Field Memorandum

Field Personnel: Bob Johnson Date: 9-18-12

Project Name: Raytheon Canoga Time Arrived Site:

Project/Phase/Task Number: 2009025/06/0630 Time Left Site:

Project Manager: Jacques Murcillac Travel Time:

Regulator(s) on Site/Time:

Client(s) on Site/Time:

Tasks Completed/Equipment Used/Times: T3 Area baseline sample Gauge RW-11, 14, 15.

RW-11 - sample with (12 volt) 12 V. monsoon pump, no dedicated recovery pump in csg. TOC container broke in cooler. Lab delivers new container & well is resampled on 9-19-12 For TOC, metals Field Filtered

RW-14 - Pull recovery pump From well & sample with 12 volt monsoon pump. metals Field-Duplicate = Dup 5-9-18-12 From RW-14. Filtered.

RW-15 - sampled & purged thru dedicated 220 volt recovery pump (throttled down with no bypass.) metals Field Filtered.

All purge water treated thru G.W. treatment system.

Trip Blank - TB1-9-18-12.

Tasks Completed/Equipment Used/Times:

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: RW-11 Date: 9-18-12 Project No: 2009025
A. Depth to water 25.62 feet Location: Raytheon Canoga
B. Total depth of well _____ feet Event: T3
C. Standing water in casing _____ feet Sampler: BJ Other:
D. PID _____ ppm
Screened Interval _____ to _____ ft bgs
Inlet Timer____sec Discharge Timer____sec Pressure: _____psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			7.14	3.23	36.8	1.81	23.54			+174
1			7.16	3.250		1.56				+146
1			7.16	3.254		1.45				+138
1			7.16	3.249		1.41				+134
2 gals		1000	7.17	3.250	29.2	1.38				~~+128~~ BJ +132
1										
1										
1										
1										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ Pump inlet depth: _____ ft
Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ Sample depth _____ ft

Water Meter Used:
U-22-TN-01 ☐
U-22-TN-02 ☐
Troll ☑
Other: _____

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample
QA/QC Sample ID: _____
Date/Time of QC Sample: RW-11 re-sampled for TOC on 9-19-12 Sample ID: _____

Additional Comments: calibrate Troll with air pump for D.O. with help from Troll Denver Tech. Works good.

TOC glass container broke (monsoon pump 12v.) metals Field Filtered .45 micron

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: RW-14 Date: 9-18-12 Project No: 2009025

A. Depth to water 27.82 feet Location: Raytheon Canoga

B. Total depth of well _____ feet Event: T3

C. Standing water in casing _____ feet Sampler: BJ Other:

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer____sec Discharge Timer____sec Pressure: _____psi

1145

Dup5 Dupe - 9-18-12

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			7.02	2.254	61.2	1.53	23.71			-66
1			7.13	2.376		1.56				-74
1			7.13	2.394		1.55				-76
1			7.14	2.403		1.54				-78
3.5 gals		1120	7.14	2.412		1.54	↓			-80
1										
1										
1										
1										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Monsoon ☐ Other:_____ Pump inlet depth: _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Monsoon ☐ Other:_____ Sample depth _____ ft

QA/QC Sample Collected Here? ☒ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: 9-18-12 1145 Sample ID: Dup5-9-18-12

Water Meter Used:
U-22-TN-01 ☐
U-22-TN-02 ☐
Troll ☐
Other: _____

Additional Comments: Pull recovery pump from well & sample thru 12V monsoon & ½" dedicated tbg.

All purge water treated thru G.W. system metals Field Filtered.

OTIE

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:	Good	Bad
Well Identification	☐	☐
Vault Cover	☐	☐
Vault Seal	☐	☐
Bolts	☐	☐
Vault Lock	☐	☐
Concrete Completion	☐	☐
Well Lock/Seal	☐	☐

Well Number: RW-15 Date: 9-18-12 Project No: 2009025

A. Depth to water Ø feet Location: Raytheon Ceucaya

B. Total depth of well _____ feet Event: T3

C. Standing water in casing _____ feet Sampler: BS Other:

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer____sec Discharge Timer____sec Pressure: _____psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			7.07	1.946	68.9	.40	23.69			-26
1			7.25	2.015	|	.21	|	|	|	-14
3 gals		1230	7.26	2.019	|	.21	|	|	|	-13
1			7.26	2.027	|	.21	↓	|	|	-11
1					|			|	|	
1					|			|	|	
1					|			|	|	
1					|			|	|	
1					/			|	|	
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Monsoon ☒ Other:_____ Pump inlet depth: _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Monsoon ☒ Other:_____ Sample depth _____ ft

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ Sample ID: _____

Water Meter Used:	
U-22-TN-01	☐
U-22-TN-02	☐
Troll	☒
Other:	_____

Additional Comments: (recovery pump) sampled thru dedicated recovery pump throttled down.

metals Field Filtered

Appendix D

Laboratory Reports

Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-09-1094

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: OTIE

Client Project Name: Raytheon Canoga Park EISB T3 Area

Attention: Kim Sawyer
317 East Main Street
Ventura, CA 93001-2624

Approved for release on 10/2/2012 by:
Virendra Patel
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: Raytheon Canoga Park EISB T3 Area
Work Order Number: 12-09-1094

1 Detections Summary 3

2 QC Association Summary 6

3 Client Sample Data 8
3.1 RSK-175M Carbon Dioxide (Aqueous) 8
3.2 RSK-175M Dissolved Gases (Aqueous) 9
3.3 HPLC/UV Organic Acids (Aqueous) 10
3.4 EPA 8260B Volatile Organics (Aqueous) 11
3.5 EPA 200.8 ICP/MS Metals / EPA 245.1 Mercury (Aqueous) 18
3.6 Combined Inorganic Tests 20

4 Quality Control Sample Data 22
4.1 MS/MSD and/or Duplicate 22
4.2 LCS/LCSD 33

5 Glossary of Terms and Qualifiers 44

6 Chain of Custody/Sample Receipt Form 45

Calscience Environmental Laboratories, Inc.

Client:	OTIE	Work Order:	12-09-1094
	317 East Main Street	Project name:	Raytheon Canoga Park EISB T3 Area
	Ventura, CA 93001-2624	Received:	09/18/12 17:30
Attn:	Kim Sawyer		

DETECTIONS SUMMARY

Client Sample ID Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
RW-15 (12-09-1094-1)						
Carbon Dioxide	**35300**		17.0	ug/L	RSK-175M	N/A
Methane	**85.4**		1.00	ug/L	RSK-175M	N/A
Arsenic	**0.0214**		0.00100	mg/L	EPA 200.8	Filtered
Barium	**0.0951**		0.00100	mg/L	EPA 200.8	Filtered
Cadmium	**0.00120**		0.00100	mg/L	EPA 200.8	Filtered
Chromium	**0.00970**		0.00100	mg/L	EPA 200.8	Filtered
Copper	**0.00734**		0.00100	mg/L	EPA 200.8	Filtered
Lead	**0.00121**		0.00100	mg/L	EPA 200.8	Filtered
Selenium	**0.00623**		0.00100	mg/L	EPA 200.8	Filtered
Zinc	**0.0841**		0.00500	mg/L	EPA 200.8	Filtered
Calcium	**186**		0.100	mg/L	EPA 200.8	Filtered
Iron	**0.277**		0.0500	mg/L	EPA 200.8	Filtered
Magnesium	**88.7**		0.100	mg/L	EPA 200.8	Filtered
Manganese	**0.968**		0.00100	mg/L	EPA 200.8	Filtered
Potassium	**2.34**		0.0500	mg/L	EPA 200.8	Filtered
Sodium	**71.7**		0.100	mg/L	EPA 200.8	Filtered
Boron	**0.471**		0.0500	mg/L	EPA 200.8	Filtered
Chloride	**160**		5.0	mg/L	EPA 300.0	N/A
Bromide	**0.48**		0.10	mg/L	EPA 300.0	N/A
Nitrate (as N)	**0.70**		0.10	mg/L	EPA 300.0	N/A
Sulfate	**330**		5.0	mg/L	EPA 300.0	N/A
Carbon, Total Organic	**37**		2.5	mg/L	SM 5310 D	N/A
Solids, Total Dissolved	**1200**		10.0	mg/L	SM 2540 C	N/A
1,1-Dichloroethene	**41**		1.0	ug/L	EPA 8260B	EPA 5030C
Tetrachloroethene	**2.7**		1.0	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	**7.7**		1.0	ug/L	EPA 8260B	EPA 5030C

Return to Contents

*MDL is shown.

Calscience Environmental Laboratories, Inc.

Client:	OTIE	Work Order:	12-09-1094
	317 East Main Street	Project name:	Raytheon Canoga Park EISB T3 Area
	Ventura, CA 93001-2624	Received:	09/18/12 17:30
Attn:	Kim Sawyer		

DETECTIONS SUMMARY

Client Sample ID Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
RW-14 (12-09-1094-2)						
Carbon Dioxide	**59300**		17.0	ug/L	RSK-175M	N/A
Methane	**465**		1.00	ug/L	RSK-175M	N/A
Arsenic	**0.0158**		0.00100	mg/L	EPA 200.8	Filtered
Barium	**0.0971**		0.00100	mg/L	EPA 200.8	Filtered
Copper	**0.00163**		0.00100	mg/L	EPA 200.8	Filtered
Zinc	**0.0273**		0.00500	mg/L	EPA 200.8	Filtered
Calcium	**246**		0.100	mg/L	EPA 200.8	Filtered
Iron	**3.63**		0.0500	mg/L	EPA 200.8	Filtered
Magnesium	**87.7**		0.100	mg/L	EPA 200.8	Filtered
Manganese	**0.609**		0.00100	mg/L	EPA 200.8	Filtered
Potassium	**2.26**		0.0500	mg/L	EPA 200.8	Filtered
Sodium	**99.6**		0.100	mg/L	EPA 200.8	Filtered
Boron	**0.387**		0.0500	mg/L	EPA 200.8	Filtered
Chloride	**430**		10	mg/L	EPA 300.0	N/A
Bromide	**1.3**		0.10	mg/L	EPA 300.0	N/A
Sulfate	**210**		10	mg/L	EPA 300.0	N/A
Iron (II)	**2.82**		0.100	mg/L	SM 3500-FeB	N/A
Carbon, Total Organic	**40**		2.5	mg/L	SM 5310 D	N/A
Solids, Total Dissolved	**1340**		10.0	mg/L	SM 2540 C	N/A
1,1-Dichloroethane	**2.8**		1.0	ug/L	EPA 8260B	EPA 5030C
1,2-Dichloroethane	**1.2**		0.50	ug/L	EPA 8260B	EPA 5030C
1,1-Dichloroethene	**160**		1.0	ug/L	EPA 8260B	EPA 5030C
c-1,2-Dichloroethene	**1.9**		1.0	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	**2.2**		1.0	ug/L	EPA 8260B	EPA 5030C
Vinyl Chloride	**44**		0.50	ug/L	EPA 8260B	EPA 5030C

Return to Contents

*MDL is shown.

Calscience Environmental Laboratories, Inc.

Client:	OTIE	Work Order:	12-09-1094
	317 East Main Street	Project name:	Raytheon Canoga Park EISB T3 Area
	Ventura, CA 93001-2624	Received:	09/18/12 17:30
Attn:	Kim Sawyer		

DETECTIONS SUMMARY

Client Sample ID Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
RW-11 (12-09-1094-3)						
Carbon Dioxide	**37300**		17.0	ug/L	RSK-175M	N/A
Methane	**17.1**		1.00	ug/L	RSK-175M	N/A
Arsenic	**0.0171**		0.00100	mg/L	EPA 200.8	Filtered
Barium	**0.0838**		0.00100	mg/L	EPA 200.8	Filtered
Copper	**0.00681**		0.00100	mg/L	EPA 200.8	Filtered
Selenium	**0.00151**		0.00100	mg/L	EPA 200.8	Filtered
Zinc	**0.0299**		0.00500	mg/L	EPA 200.8	Filtered
Calcium	**277**		0.100	mg/L	EPA 200.8	Filtered
Magnesium	**182**		10.0	mg/L	EPA 200.8	Filtered
Manganese	**0.543**		0.00100	mg/L	EPA 200.8	Filtered
Potassium	**3.32**		0.0500	mg/L	EPA 200.8	Filtered
Sodium	**195**		0.100	mg/L	EPA 200.8	Filtered
Boron	**1.20**		0.0500	mg/L	EPA 200.8	Filtered
Chloride	**410**		10	mg/L	EPA 300.0	N/A
Bromide	**1.1**		0.10	mg/L	EPA 300.0	N/A
Nitrate (as N)	**84**		1.0	mg/L	EPA 300.0	N/A
Sulfate	**560**		10	mg/L	EPA 300.0	N/A
Solids, Total Dissolved	**2100**		10.0	mg/L	SM 2540 C	N/A
1,1-Dichloroethene	**57**		1.0	ug/L	EPA 8260B	EPA 5030C
DUP5 (12-09-1094-4)						
1,1-Dichloroethane	**3.5**		1.0	ug/L	EPA 8260B	EPA 5030C
1,2-Dichloroethane	**1.8**		0.50	ug/L	EPA 8260B	EPA 5030C
1,1-Dichloroethene	**190**		1.0	ug/L	EPA 8260B	EPA 5030C
c-1,2-Dichloroethene	**2.3**		1.0	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	**2.8**		1.0	ug/L	EPA 8260B	EPA 5030C
Vinyl Chloride	**54**		0.50	ug/L	EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

*MDL is shown.

Return to Contents

Calscience Environmental Laboratories, Inc.

QC Association Summary

Work Order Number: **12-09-1094**

CLIENT_SAMPLE_ID	METHOD NAME	TYPE	EXT_NAME	INSTRUMENT	MS/MSD/SDP	LCS/LCSD
RW-15	EPA 200.8 ICP/MS Metals		Filtered	ICP/MS 03	120919S02B	120919L02A
RW-15	EPA 245.1 Mercury		EPA 245.1 Filt.	Mercury	120919S02	120919L02F
RW-15	EPA 300.0 Anions		N/A	IC 7	120918S01	120918L01
RW-15	EPA 300.0 Anions	R	N/A	IC 7	120918S01	120918L01
RW-15	EPA 7199 Chromium VI		N/A	IC 14	120918S01	120918L01
RW-15	EPA 8260B Volatile Organics		EPA 5030C	GC/MS Q	120919S01	120919L01
RW-15	HPLC/UV Organic Acids		N/A	HPLC 6	120921S01	120921L01
RW-15	RSK-175M Carbon Dioxide		N/A	GC 14	*4	120920L01
RW-15	RSK-175M Dissolved Gases		N/A	GC 52	*4	120919L01
RW-15	SM 2540 C Total Dissolved Solids		N/A	N/A	C0919TDSD1	C0919TDSB1
RW-15	SM 3500-FeB Ferrous Iron		N/A	UV 2	C0918FES1	C0918FEL1
RW-15	SM 5310 D Total Organic Carbon		N/A	TOC 6	C0919TOCS1	C0919TOCL1
RW-14	EPA 200.8 ICP/MS Metals		Filtered	ICP/MS 03	120919S02B	120919L02A
RW-14	EPA 245.1 Mercury		EPA 245.1 Filt.	Mercury	120919S02	120919L02F
RW-14	EPA 300.0 Anions		N/A	IC 7	120918S01	120918L01
RW-14	EPA 300.0 Anions	R	N/A	IC 7	120918S01	120918L01
RW-14	EPA 7199 Chromium VI		N/A	IC 14	120918S01	120918L01
RW-14	EPA 8260B Volatile Organics		EPA 5030C	GC/MS JJ	120921S01	120921L01
RW-14	HPLC/UV Organic Acids		N/A	HPLC 6	120921S01	120921L01
RW-14	RSK-175M Carbon Dioxide		N/A	GC 14	*4	120920L01
RW-14	RSK-175M Dissolved Gases		N/A	GC 52	*4	120919L01
RW-14	SM 2540 C Total Dissolved Solids		N/A	N/A	C0919TDSD1	C0919TDSB1
RW-14	SM 3500-FeB Ferrous Iron		N/A	UV 2	C0918FES1	C0918FEL1
RW-14	SM 5310 D Total Organic Carbon		N/A	TOC 6	C0919TOCS1	C0919TOCL1
RW-11	EPA 200.8 ICP/MS Metals		Filtered	ICP/MS 03	120919S02B	120919L02A
RW-11	EPA 245.1 Mercury		EPA 245.1 Filt.	Mercury	120919S02	120919L02F
RW-11	EPA 300.0 Anions		N/A	IC 7	120918S01	120918L01
RW-11	EPA 300.0 Anions	R	N/A	IC 7	120918S01	120918L01
RW-11	EPA 7199 Chromium VI		N/A	IC 14	120918S01	120918L01

1 = Dilution analysis performed, no associated matrix QC
2 = Limited sample received, no MS/MSD performed
3 = Limited sample received, no Duplicate performed
4 = Per the method, no associated matrix QC
R = Rerun

Return to Contents

Work Order Number: **12-09-1094**

CLIENT_SAMPLE_ID	METHOD NAME	TYPE	EXT_NAME	INSTRUMENT	MS/MSD/SDP	LCS/LCSD
RW-11	EPA 8260B Volatile Organics		EPA 5030C	GC/MS Q	120919S01	120919L01
RW-11	HPLC/UV Organic Acids		N/A	HPLC 6	120921S01	120921L01
RW-11	RSK-175M Carbon Dioxide		N/A	GC 14	*4	120920L01
RW-11	RSK-175M Dissolved Gases		N/A	GC 52	*4	120919L01
RW-11	SM 2540 C Total Dissolved Solids		N/A	N/A	C0919TDSD1	C0919TDSB1
RW-11	SM 3500-FeB Ferrous Iron		N/A	UV 2	C0918FES1	C0918FEL1
DUP5	EPA 8260B Volatile Organics		EPA 5030C	GC/MS Q	120919S01	120919L01
TB2-9-18-12	EPA 8260B Volatile Organics		EPA 5030C	GC/MS Q	120919S01	120919L01

Return to Contents

1 = Dilution analysis performed, no associated matrix QC
2 = Limited sample received, no MS/MSD performed
3 = Limited sample received, no Duplicate performed
4 = Per the method, no associated matrix QC
R = Rerun



Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 09/18/12
Work Order No: 12-09-1094
Preparation: N/A
Method: RSK-175M

Project: Raytheon Canoga Park EISB T3 Area

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-15	**12-09-1094-1-F**	**09/18/12 12:30**	**Aqueous**	**GC 14**	**N/A**	**09/20/12 12:52**	**120920L01**

Parameter	Result	RL	DF	Qual	Units
Carbon Dioxide	35300	17.0	10		ug/L

RW-14	**12-09-1094-2-F**	**09/18/12 11:20**	**Aqueous**	**GC 14**	**N/A**	**09/20/12 13:11**	**120920L01**

Parameter	Result	RL	DF	Qual	Units
Carbon Dioxide	59300	17.0	10		ug/L

RW-11	**12-09-1094-3-F**	**09/18/12 10:00**	**Aqueous**	**GC 14**	**N/A**	**09/20/12 14:01**	**120920L01**

Parameter	Result	RL	DF	Qual	Units
Carbon Dioxide	37300	17.0	10		ug/L

Method Blank	**099-12-659-428**	**N/A**	**Aqueous**	**GC 14**	**N/A**	**09/20/12 10:29**	**120920L01**

Parameter	Result	RL	DF	Qual	Units
Carbon Dioxide	ND	1.70	1		ug/L

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 09/18/12
Work Order No: 12-09-1094
Preparation: N/A
Method: RSK-175M
Units: ug/L

Project: Raytheon Canoga Park EISB T3 Area

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-15	**12-09-1094-1-D**	**09/18/12 12:30**	**Aqueous**	**GC 52**	**N/A**	**09/19/12 12:32**	**120919L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	85.4	1.00	1	
Ethylene	ND	1.00	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-14	**12-09-1094-2-D**	**09/18/12 11:20**	**Aqueous**	**GC 52**	**N/A**	**09/19/12 13:26**	**120919L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	465	1.00	1	
Ethylene	ND	1.00	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-11	**12-09-1094-3-D**	**09/18/12 10:00**	**Aqueous**	**GC 52**	**N/A**	**09/19/12 14:00**	**120919L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	17.1	1.00	1	
Ethylene	ND	1.00	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-661-639**	**N/A**	**Aqueous**	**GC 52**	**N/A**	**09/19/12 11:37**	**120919L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	ND	1.00	1	
Ethylene	ND	1.00	1						

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 09/18/12
Work Order No: 12-09-1094
Preparation: N/A
Method: HPLC/UV
Units: mg/L

Project: Raytheon Canoga Park EISB T3 Area

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-15	**12-09-1094-1-H**	**09/18/12 12:30**	**Aqueous**	**HPLC 6**	**N/A**	**09/21/12 21:29**	**120921L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	4.0	1		Propionic Acid	ND	4.0	1	
Butyric Acid	ND	4.0	1		Pyruvic Acid	ND	0.50	1	
Lactic Acid	ND	4.0	1						

Surrogates:	REC (%)	Control Limits	Qual
Dibromopropionic Acid	99	80-120	

RW-14	**12-09-1094-2-H**	**09/18/12 11:20**	**Aqueous**	**HPLC 6**	**N/A**	**09/21/12 21:52**	**120921L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	4.0	1		Propionic Acid	ND	4.0	1	
Butyric Acid	ND	4.0	1		Pyruvic Acid	ND	0.50	1	
Lactic Acid	ND	4.0	1						

Surrogates:	REC (%)	Control Limits	Qual
Dibromopropionic Acid	102	80-120	

RW-11	**12-09-1094-3-H**	**09/18/12 10:00**	**Aqueous**	**HPLC 6**	**N/A**	**09/21/12 22:15**	**120921L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	4.0	1		Propionic Acid	ND	4.0	1	
Butyric Acid	ND	4.0	1		Pyruvic Acid	ND	0.50	1	
Lactic Acid	ND	4.0	1						

Surrogates:	REC (%)	Control Limits	Qual
Dibromopropionic Acid	101	80-120	

Method Blank	**099-12-016-341**	**N/A**	**Aqueous**	**HPLC 6**	**N/A**	**09/21/12 16:53**	**120921L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	4.0	1		Propionic Acid	ND	4.0	1	
Butyric Acid	ND	4.0	1		Pyruvic Acid	ND	0.50	1	
Lactic Acid	ND	4.0	1						

Surrogates:	REC (%)	Control Limits	Qual
Dibromopropionic Acid	103	80-120	

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	09/18/12
317 East Main Street		Work Order No:	12-09-1094
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L

Project: Raytheon Canoga Park EISB T3 Area

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-15	**12-09-1094-1-A**	**09/18/12 12:30**	**Aqueous**	**GC/MS Q**	**09/19/12**	**09/19/12 15:17**	**120919L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	2.7	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	7.7	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	41	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	99	80-120			Dibromofluoromethane	98	80-126		
1,2-Dichloroethane-d4	101	80-134			Toluene-d8	98	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 09/18/12
Work Order No: 12-09-1094
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park EISB T3 Area

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-14	**12-09-1094-2-C**	**09/18/12 11:20**	**Aqueous**	**GC/MS JJ**	**09/21/12**	**09/21/12 22:35**	**120921L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	2.2	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	2.8	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	1.2	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	160	1.0	1		Vinyl Chloride	44	0.50	1	
c-1,2-Dichloroethene	1.9	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	92	80-126	
1,2-Dichloroethane-d4	89	80-134		Toluene-d8	95	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 09/18/12
Work Order No: 12-09-1094
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park EISB T3 Area

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-11	**12-09-1094-3-A**	**09/18/12 10:00**	**Aqueous**	**GC/MS Q**	**09/19/12**	**09/19/12 19:34**	**120919L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	57	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	101	80-120			Dibromofluoromethane	99	80-126		
1,2-Dichloroethane-d4	103	80-134			Toluene-d8	99	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 09/18/12
Work Order No: 12-09-1094
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park EISB T3 Area

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DUP5	**12-09-1094-4-A**	**09/18/12 11:45**	**Aqueous**	**GC/MS Q**	**09/19/12**	**09/19/12 20:02**	**120919L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	2.8	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	3.5	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	1.8	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	190	1.0	1		Vinyl Chloride	54	0.50	1	
c-1,2-Dichloroethene	2.3	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	99	80-120			Dibromofluoromethane	100	80-126		
1,2-Dichloroethane-d4	102	80-134			Toluene-d8	100	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	09/18/12
317 East Main Street		Work Order No:	12-09-1094
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L

Project: Raytheon Canoga Park EISB T3 Area

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB2-9-18-12	**12-09-1094-5-A**	**09/18/12 12:30**	**Aqueous**	**GC/MS Q**	**09/19/12**	**09/19/12 14:49**	**120919L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	103	80-120			Dibromofluoromethane	98	80-126		
1,2-Dichloroethane-d4	101	80-134			Toluene-d8	98	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 09/18/12
Work Order No: 12-09-1094
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park EISB T3 Area

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-8,812**	**N/A**	**Aqueous**	**GC/MS Q**	**09/19/12**	**09/19/12 13:52**	**120919L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	100	80-120			Dibromofluoromethane	100	80-126		
1,2-Dichloroethane-d4	99	80-134			Toluene-d8	99	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 09/18/12
Work Order No: 12-09-1094
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park EISB T3 Area

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-8,840**	**N/A**	**Aqueous**	**GC/MS JJ**	**09/21/12**	**09/21/12 19:02**	**120921L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	96	80-120			Dibromofluoromethane	100	80-126		
1,2-Dichloroethane-d4	105	80-134			Toluene-d8	98	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 09/18/12
Work Order No: 12-09-1094
Preparation: Filtered / EPA 245.1 Filt.
Method: EPA 200.8 / EPA 245.1
Units: mg/L

Project: Raytheon Canoga Park EISB T3 Area

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-15	**12-09-1094-1-M**	**09/18/12 12:30**	**Aqueous**	**ICP/MS 03**	**09/19/12**	**09/19/12 19:49**	**120919L02A**

Comment(s): -Mercury analysis was performed on 09/19/12 17:12 with batch 120919L02F.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	0.0214	0.00100	1		Calcium	186	0.100	1	
Barium	0.0951	0.00100	1		Iron	0.277	0.0500	1	
Cadmium	0.00120	0.00100	1		Magnesium	88.7	0.100	1	
Chromium	0.00970	0.00100	1		Manganese	0.968	0.00100	1	
Copper	0.00734	0.00100	1		Potassium	2.34	0.0500	1	
Lead	0.00121	0.00100	1		Sodium	71.7	0.100	1	
Selenium	0.00623	0.00100	1		Boron	0.471	0.0500	1	
Zinc	0.0841	0.00500	1		Mercury	ND	0.000200	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-14	**12-09-1094-2-M**	**09/18/12 11:20**	**Aqueous**	**ICP/MS 03**	**09/19/12**	**09/19/12 19:46**	**120919L02A**

Comment(s): -Mercury analysis was performed on 09/19/12 17:19 with batch 120919L02F.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	0.0158	0.00100	1		Calcium	246	0.100	1	
Barium	0.0971	0.00100	1		Iron	3.63	0.0500	1	
Cadmium	ND	0.00100	1		Magnesium	87.7	0.100	1	
Chromium	ND	0.00100	1		Manganese	0.609	0.00100	1	
Copper	0.00163	0.00100	1		Potassium	2.26	0.0500	1	
Lead	ND	0.00100	1		Sodium	99.6	0.100	1	
Selenium	ND	0.00100	1		Boron	0.387	0.0500	1	
Zinc	0.0273	0.00500	1		Mercury	ND	0.000200	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-11	**12-09-1094-3-M**	**09/18/12 10:00**	**Aqueous**	**ICP/MS 03**	**09/19/12**	**09/19/12 19:52**	**120919L02A**

Comment(s): -Mercury analysis was performed on 09/19/12 17:21 with batch 120919L02F.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	0.0171	0.00100	1		Calcium	277	0.100	1	
Barium	0.0838	0.00100	1		Iron	ND	0.0500	1	
Cadmium	ND	0.00100	1		Magnesium	182	10.0	100	
Chromium	ND	0.00100	1		Manganese	0.543	0.00100	1	
Copper	0.00681	0.00100	1		Potassium	3.32	0.0500	1	
Lead	ND	0.00100	1		Sodium	195	0.100	1	
Selenium	0.00151	0.00100	1		Boron	1.20	0.0500	1	
Zinc	0.0299	0.00500	1		Mercury	ND	0.000200	1	

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 09/18/12
Work Order No: 12-09-1094
Preparation: Filtered / EPA 245.1 Filt.
Method: EPA 200.8 / EPA 245.1
Units: mg/L

Project: Raytheon Canoga Park EISB T3 Area

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-008-2,007**	**N/A**	**Aqueous**	**ICP/MS 03**	**09/19/12**	**09/19/12 19:14**	**120919L02A**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	ND	0.00100	1		Calcium	ND	0.100	1	
Barium	ND	0.00100	1		Iron	ND	0.0500	1	
Cadmium	ND	0.00100	1		Magnesium	ND	0.100	1	
Chromium	ND	0.00100	1		Manganese	ND	0.00100	1	
Copper	ND	0.00100	1		Potassium	ND	0.0500	1	
Lead	ND	0.00100	1		Sodium	ND	0.100	1	
Selenium	ND	0.00100	1		Boron	ND	0.0500	1	
Zinc	ND	0.00500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-04-008-6,181**	**N/A**	**Aqueous**	**Mercury**	**09/19/12**	**09/19/12 17:05**	**120919L02F**

Comment(s): -Preparation/analysis for Mercury was performed by EPA 245.1.

Parameter	Result	RL	DF	Qual
Mercury	ND	0.000200	1	

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 09/18/12
Work Order No: 12-09-1094

Project: Raytheon Canoga Park EISB T3 Area

Client Sample Number	Lab Sample Number	Date Collected	Matrix
RW-15	**12-09-1094-1**	**09/18/12**	**Aqueous**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	160	5.0	5		mg/L	N/A	09/18/12	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	09/18/12	EPA 300.0
Bromide	0.48	0.10	1		mg/L	N/A	09/18/12	EPA 300.0
Nitrate (as N)	0.70	0.10	1		mg/L	N/A	09/18/12	EPA 300.0
o-Phosphate (as P)	ND	0.10	1		mg/L	N/A	09/18/12	EPA 300.0
Sulfate	330	5.0	5		mg/L	N/A	09/18/12	EPA 300.0
Chromium, Hexavalent	ND	1.0	1		ug/L	N/A	09/18/12	EPA 7199
Solids, Total Dissolved	1200	10.0	1		mg/L	09/19/12	09/19/12	SM 2540 C
Iron (II)	ND	0.100	1		mg/L	09/18/12	09/18/12	SM 3500-FeB
Carbon, Total Organic	37	2.5	5		mg/L	09/19/12	09/20/12	SM 5310 D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
RW-14	**12-09-1094-2**	**09/18/12**	**Aqueous**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	430	10	10		mg/L	N/A	09/18/12	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	09/18/12	EPA 300.0
Bromide	1.3	0.10	1		mg/L	N/A	09/18/12	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	09/18/12	EPA 300.0
o-Phosphate (as P)	ND	0.10	1		mg/L	N/A	09/18/12	EPA 300.0
Sulfate	210	10	10		mg/L	N/A	09/18/12	EPA 300.0
Chromium, Hexavalent	ND	1.0	1		ug/L	N/A	09/18/12	EPA 7199
Solids, Total Dissolved	1340	10.0	1		mg/L	09/19/12	09/19/12	SM 2540 C
Iron (II)	2.82	0.100	1		mg/L	09/18/12	09/18/12	SM 3500-FeB
Carbon, Total Organic	40	2.5	5		mg/L	09/19/12	09/20/12	SM 5310 D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
RW-11	**12-09-1094-3**	**09/18/12**	**Aqueous**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	410	10	10		mg/L	N/A	09/18/12	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	09/18/12	EPA 300.0
Bromide	1.1	0.10	1		mg/L	N/A	09/18/12	EPA 300.0
Nitrate (as N)	84	1.0	10		mg/L	N/A	09/18/12	EPA 300.0
o-Phosphate (as P)	ND	0.10	1		mg/L	N/A	09/18/12	EPA 300.0
Sulfate	560	10	10		mg/L	N/A	09/18/12	EPA 300.0
Chromium, Hexavalent	ND	1.0	1		ug/L	N/A	09/18/12	EPA 7199
Solids, Total Dissolved	2100	10.0	1		mg/L	09/19/12	09/19/12	SM 2540 C
Iron (II)	ND	0.100	1		mg/L	09/18/12	09/18/12	SM 3500-FeB

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 09/18/12
Work Order No: 12-09-1094

Project: Raytheon Canoga Park EISB T3 Area

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Method Blank		**N/A**	**Aqueous**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	ND	1.0	1		mg/L	N/A	09/18/12	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	09/18/12	EPA 300.0
Bromide	ND	0.10	1		mg/L	N/A	09/18/12	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	09/18/12	EPA 300.0
o-Phosphate (as P)	ND	0.10	1		mg/L	N/A	09/18/12	EPA 300.0
Sulfate	ND	1.0	1		mg/L	N/A	09/18/12	EPA 300.0
Chromium, Hexavalent	ND	1.0	1		ug/L	N/A	09/18/12	EPA 7199
Solids, Total Dissolved	ND	1.0	1		mg/L	09/19/12	09/19/12	SM 2540 C
Iron (II)	ND	0.100	1		mg/L	09/18/12	09/18/12	SM 3500-FeB
Carbon, Total Organic	ND	0.50	1		mg/L	09/19/12	09/20/12	SM 5310 D

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 09/18/12
Work Order No: 12-09-1094
Preparation: Filtered
Method: EPA 200.8

Project Raytheon Canoga Park EISB T3 Area

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
RW-14	**Aqueous**	**ICP/MS 03**	**09/19/12**	**09/19/12**	**120919S02B**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	0.01585	0.1000	0.1037	88	0.09964	84	80-120	4	0-20	
Barium	0.09713	0.1000	0.2025	105	0.2003	103	80-120	1	0-10	
Cadmium	ND	0.1000	0.08942	89	0.08380	84	80-120	6	0-20	
Chromium	ND	0.1000	0.1019	102	0.09876	99	80-120	3	0-20	
Copper	0.001626	0.1000	0.09215	91	0.09036	89	80-120	2	0-20	
Lead	ND	0.1000	0.1099	110	0.1029	103	80-120	7	0-20	
Selenium	ND	0.1000	0.08366	84	0.08414	84	80-120	1	0-20	
Zinc	0.02735	0.1000	0.1024	75	0.09714	70	80-120	5	0-20	3
Calcium	246.1	5.000	249.6	4X	251.9	4X	80-120	4X	0-20	Q
Iron	3.630	0.1000	3.741	4X	3.686	4X	80-120	4X	0-20	Q
Magnesium	87.69	5.000	91.99	4X	93.99	4X	80-120	4X	0-20	Q
Manganese	0.6094	0.1000	0.7085	4X	0.7004	4X	80-120	4X	0-20	Q
Potassium	2.259	1.000	3.180	92	3.133	87	80-120	2	0-20	
Sodium	99.65	1.000	102.5	4X	99.47	4X	80-120	4X	0-20	Q
Boron	0.3867	0.1000	0.4339	47	0.4384	52	80-120	1	0-20	3

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received 09/18/12
Work Order No: 12-09-1094
Preparation: Filtered
Method: EPA 200.8

Project: Raytheon Canoga Park EISB T3 Area

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS / PDSD Batch Number
RW-14	**Aqueous**	**ICP/MS 03**	**09/19/12**	**09/19/12**	**120919S02B**

Analysis Comment: Ca, Mg, K, and Na were analyzed 09/19/12 17:05:45 PM.

Parameter	SAMPLE CONC	SPIKE ADDED	PDS CONC	PDS %REC	PDSD CONC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	0.01585	0.1000	0.1095	94	0.1080	92	75-125	1	0-20	
Barium	0.09713	0.1000	0.2036	106	0.1990	102	75-125	2	0-10	
Cadmium	ND	0.1000	0.09438	94	0.09214	92	75-125	2	0-20	
Chromium	ND	0.1000	0.1029	103	0.1037	104	75-125	1	0-20	
Copper	0.001626	0.1000	0.09778	96	0.09691	95	75-125	1	0-20	
Lead	ND	0.1000	0.1111	111	0.1107	111	75-125	0	0-20	
Selenium	ND	0.1000	0.09171	92	0.09125	91	75-125	0	0-20	
Zinc	0.02735	0.1000	0.1155	88	0.1106	83	75-125	4	0-20	
Calcium	246.1	5.000	248.3	4X	240.7	4X	75-125	4X	0-20	Q
Iron	3.630	0.1000	3.601	4X	3.638	4X	75-125	4X	0-20	Q
Magnesium	87.69	5.000	92.44	4X	91.39	4X	75-125	4X	0-20	Q
Manganese	0.6094	0.1000	0.7029	4X	0.7011	4X	75-125	4X	0-20	Q
Potassium	2.259	1.000	3.117	86	3.149	89	75-125	1	0-20	
Sodium	99.65	1.000	97.94	4X	98.50	4X	75-125	4X	0-20	Q
Boron	0.3867	0.1000	0.4528	66	0.4648	78	75-125	3	0-20	5

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 09/18/12
Work Order No: 12-09-1094
Preparation: N/A
Method: EPA 7199

Project Raytheon Canoga Park EISB T3 Area

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
RW-15	**Aqueous**	**IC 14**	**N/A**	**09/18/12**	**120918S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	ND	50	50	101	51	102	70-130	2	0-25	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 09/18/12
Work Order No: 12-09-1094
Preparation: N/A
Method: EPA 300.0

Project Raytheon Canoga Park EISB T3 Area

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
RW-15	**Aqueous**	**IC 7**	**N/A**	**09/18/12**	**120918S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chloride	160	5000	5100	99	5100	99	80-120	0	0-20	
Nitrite (as N)	ND	250	260	106	260	106	80-120	0	0-20	
Bromide	0.48	500	510	101	490	99	80-120	2	0-20	
Nitrate (as N)	0.70	500	480	96	480	96	80-120	0	0-20	
o-Phosphate (as P)	ND	250	240	97	240	96	80-120	1	0-20	
Sulfate	330	5000	5200	98	5200	98	80-120	0	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 09/18/12
Work Order No: 12-09-1094
Preparation: N/A
Method: SM 3500-FeB

Project Raytheon Canoga Park EISB T3 Area

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-09-1051-1	**Aqueous**	**UV 2**	**09/18/12**	**09/18/12**	**C0918FES1**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Iron (II)	ND	1.00	0.960	96	0.980	98	70-130	2	0-25	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 09/18/12
Work Order No: 12-09-1094
Preparation: N/A
Method: SM 5310 D

Project Raytheon Canoga Park EISB T3 Area

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
RW-15	**Aqueous**	**TOC 6**	**09/19/12**	**09/20/12**	**C0919TOCS1**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	37	25	57	80	56	74	28-148	3	0-23	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 09/18/12
Work Order No: 12-09-1094
Preparation: EPA 245.1 Filt.
Method: EPA 245.1

Project Raytheon Canoga Park EISB T3 Area

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
RW-15	**Aqueous**	**Mercury**	**09/19/12**	**09/19/12**	**120919S02**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.01000	0.01129	113	0.01176	118	57-141	4	0-10	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 09/18/12
Work Order No: 12-09-1094
Preparation: N/A
Method: HPLC/UV

Project Raytheon Canoga Park EISB T3 Area

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-09-1227-2	**Aqueous**	**HPLC 6**	**N/A**	**09/21/12**	**120921S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	102.6	100.0	199.4	97	193.5	91	70-130	3	0-30	
Butyric Acid	ND	100.0	99.65	100	93.30	93	70-130	7	0-30	
Lactic Acid	ND	100.0	98.15	98	91.85	92	70-130	7	0-30	
Propionic Acid	66.80	100.0	165.6	99	157.8	91	70-130	5	0-30	
Pyruvic Acid	ND	10.00	10.05	100	9.350	94	70-130	7	0-30	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 09/18/12
Work Order No: 12-09-1094
Preparation: EPA 5030C
Method: EPA 8260B

Project Raytheon Canoga Park EISB T3 Area

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
RW-15	**Aqueous**	**GC/MS Q**	**09/19/12**	**09/19/12**	**120919S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	52.28	105	52.60	105	78-120	1	0-20	
Carbon Tetrachloride	ND	50.00	47.12	94	48.84	98	67-139	4	0-20	
Chlorobenzene	ND	50.00	51.24	102	51.84	104	80-120	1	0-20	
1,2-Dibromoethane	ND	50.00	55.82	112	56.35	113	80-123	1	0-20	
1,2-Dichlorobenzene	ND	50.00	51.93	104	51.39	103	76-120	1	0-20	
1,2-Dichloroethane	ND	50.00	55.00	110	53.89	108	76-130	2	0-20	
1,1-Dichloroethene	41.34	50.00	87.17	92	88.78	95	70-130	2	0-27	
Ethylbenzene	ND	50.00	52.88	106	54.75	109	73-127	3	0-20	
Toluene	ND	50.00	53.15	106	52.89	106	72-126	1	0-20	
Trichloroethene	7.651	50.00	60.88	106	60.53	106	74-122	1	0-20	
Vinyl Chloride	ND	50.00	46.99	94	48.01	96	65-131	2	0-24	
p/m-Xylene	ND	100.0	103.7	104	105.7	106	70-130	2	0-30	
o-Xylene	ND	50.00	51.73	103	53.33	107	70-130	3	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	47.52	95	46.75	94	69-123	2	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 09/18/12
Work Order No: 12-09-1094
Preparation: EPA 5030C
Method: EPA 8260B

Project Raytheon Canoga Park EISB T3 Area

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-09-0981-4	**Aqueous**	**GC/MS JJ**	**09/21/12**	**09/21/12**	**120921S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	46.34	93	47.23	94	78-120	2	0-20	
Carbon Tetrachloride	ND	50.00	48.32	97	49.18	98	67-139	2	0-20	
Chlorobenzene	ND	50.00	49.13	98	48.99	98	80-120	0	0-20	
1,2-Dibromoethane	ND	50.00	48.81	98	47.99	96	80-123	2	0-20	
1,2-Dichlorobenzene	ND	50.00	49.12	98	48.61	97	76-120	1	0-20	
1,2-Dichloroethane	ND	50.00	48.16	96	48.33	97	76-130	0	0-20	
1,1-Dichloroethene	ND	50.00	40.35	81	41.19	82	70-130	2	0-27	
Ethylbenzene	ND	50.00	51.78	104	50.58	101	73-127	2	0-20	
Toluene	ND	50.00	48.78	98	48.69	97	72-126	0	0-20	
Trichloroethene	ND	50.00	47.03	94	47.89	96	74-122	2	0-20	
Vinyl Chloride	ND	50.00	45.56	91	47.00	94	65-131	3	0-24	
p/m-Xylene	ND	100.0	102.3	102	100.8	101	70-130	1	0-30	
o-Xylene	ND	50.00	51.05	102	50.47	101	70-130	1	0-30	
Methyl-t-Butyl Ether (MTBE)	1.228	50.00	45.61	89	45.94	89	69-123	1	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-09-1094

Project: Raytheon Canoga Park EISB T3 Area

Matrix: Aqueous or Solid

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	SM 2540 C	12-09-1039-1	09/19/12	1750	1750	0	0-10	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE	Date Received:	N/A
317 East Main Street	Work Order No:	12-09-1094
Ventura, CA 93001-2624	Preparation:	N/A
	Method:	RSK-175M

Project: Raytheon Canoga Park EISB T3 Area

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-659-428	**Aqueous**	**GC 14**	**N/A**	**09/20/12**	**120920L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Carbon Dioxide	102.0	96.53	95	96.42	95	80-120	0	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-09-1094
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	RSK-175M

Project: Raytheon Canoga Park EISB T3 Area

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-661-639	**Aqueous**	**GC 52**	**N/A**	**09/19/12**	**120919L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Ethane	99.60	95.34	96	95.40	96	80-120	0	0-20	
Ethylene	103.0	97.57	95	97.59	95	80-120	0	0-20	
Methane	98.50	93.96	95	93.96	95	79-109	0	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-09-1094
Preparation: Filtered
Method: EPA 200.8

Project: Raytheon Canoga Park EISB T3 Area

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-008-2,007	**Aqueous**	**ICP/MS 03**	**09/19/12**	**09/19/12**	**120919L02A**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Arsenic	0.1000	0.09906	99	0.09908	99	80-120	73-127	0	0-20	
Barium	0.1000	0.1016	102	0.1007	101	80-120	73-127	1	0-20	
Cadmium	0.1000	0.09981	100	0.09935	99	80-120	73-127	0	0-20	
Chromium	0.1000	0.09807	98	0.09827	98	80-120	73-127	0	0-20	
Copper	0.1000	0.1050	105	0.1044	104	80-120	73-127	1	0-20	
Lead	0.1000	0.1023	102	0.1024	102	80-120	73-127	0	0-20	
Selenium	0.1000	0.09479	95	0.09370	94	80-120	73-127	1	0-20	
Zinc	0.1000	0.1034	103	0.1026	103	80-120	73-127	1	0-20	
Calcium	5.000	5.152	103	5.268	105	80-120	73-127	2	0-20	
Iron	0.1000	0.09837	98	0.1001	100	80-120	73-127	2	0-20	
Magnesium	5.000	5.291	106	5.336	107	80-120	73-127	1	0-20	
Manganese	0.1000	0.09744	97	0.09777	98	80-120	73-127	0	0-20	
Potassium	1.000	0.9975	100	1.024	102	80-120	73-127	3	0-20	
Sodium	1.000	0.9836	98	0.9836	98	80-120	73-127	0	0-20	
Boron	0.1000	0.09931	99	0.1033	103	80-120	73-127	4	0-20	

Total number of LCS compounds : 15
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-09-1094
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	EPA 7199

Project: Raytheon Canoga Park EISB T3 Area

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-123-3,200	**Aqueous**	**IC 14**	**N/A**	**09/18/12**	**120918L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	50	51	102	51	101	80-120	1	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-09-1094
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	EPA 300.0

Project: Raytheon Canoga Park EISB T3 Area

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-906-3,027	**Aqueous**	**IC 7**	**N/A**	**09/18/12**	**120918L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chloride	50	50	99	50	99	90-110	0	0-15	
Nitrite (as N)	2.5	2.6	106	2.6	106	90-110	0	0-15	
Bromide	5.0	4.9	99	5.1	101	90-110	3	0-15	
Nitrate (as N)	5.0	4.8	97	4.9	97	90-110	1	0-15	
o-Phosphate (as P)	2.5	2.4	96	2.3	93	90-110	3	0-15	
Sulfate	50	49	99	49	98	90-110	0	0-15	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-09-1094
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	SM 3500-FeB

Project: Raytheon Canoga Park EISB T3 Area

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-111-4,436	**Aqueous**	**UV 2**	**09/18/12**	**09/18/12**	**C0918FEL1**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Iron (II)	1.00	1.00	100	0.980	98	80-120	2	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-09-1094
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	SM 5310 D

Project: Raytheon Canoga Park EISB T3 Area

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-097-4,700	**Aqueous**	**TOC 6**	**09/19/12**	**09/20/12**	**C0919TOCL1**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	5.0	5.1	102	5.2	104	77-125	2	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-09-1094
Ventura, CA 93001-2624		Preparation:	EPA 245.1 Filt.
		Method:	EPA 245.1

Project: Raytheon Canoga Park EISB T3 Area

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-008-6,181	**Aqueous**	**Mercury**	**09/19/12**	**09/19/12**	**120919L02F**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	0.01000	0.01073	107	0.01071	107	85-121	0	0-10	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-09-1094
Preparation: N/A
Method: HPLC/UV

Project: Raytheon Canoga Park EISB T3 Area

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-016-341	**Aqueous**	**HPLC 6**	**N/A**	**09/21/12**	**120921L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	20.00	19.47	97	19.36	97	80-120	1	0-20	
Butyric Acid	20.00	20.30	102	19.02	95	80-120	7	0-20	
Lactic Acid	20.00	18.89	94	18.49	92	80-120	2	0-20	
Propionic Acid	20.00	18.16	91	18.63	93	80-120	3	0-20	
Pyruvic Acid	2.000	1.890	94	1.840	92	80-120	3	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-09-1094
Preparation: EPA 5030C
Method: EPA 8260B

Project: Raytheon Canoga Park EISB T3 Area

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-8,812	**Aqueous**	**GC/MS Q**	**09/19/12**	**09/19/12**	**120919L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	50.53	101	51.26	103	80-120	73-127	1	0-20	
Carbon Tetrachloride	50.00	47.03	94	48.00	96	66-138	54-150	2	0-20	
Chlorobenzene	50.00	50.68	101	51.00	102	80-120	73-127	1	0-20	
1,2-Dibromoethane	50.00	53.23	106	53.22	106	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	50.00	50.50	101	51.88	104	80-120	73-127	3	0-20	
1,2-Dichloroethane	50.00	51.30	103	52.64	105	80-129	72-137	3	0-20	
1,1-Dichloroethene	50.00	44.18	88	44.61	89	71-131	61-141	1	0-20	
Ethylbenzene	50.00	52.87	106	52.44	105	80-123	73-130	1	0-20	
Toluene	50.00	51.38	103	52.21	104	79-121	72-128	2	0-20	
Trichloroethene	50.00	50.80	102	51.04	102	80-120	73-127	0	0-20	
Vinyl Chloride	50.00	46.87	94	47.59	95	70-136	59-147	2	0-20	
p/m-Xylene	100.0	103.4	103	103.5	104	75-125	67-133	0	0-25	
o-Xylene	50.00	52.80	106	52.90	106	75-125	67-133	0	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	44.15	88	44.49	89	72-126	63-135	1	0-22	

Total number of LCS compounds : 14
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-09-1094
Preparation: EPA 5030C
Method: EPA 8260B

Project: Raytheon Canoga Park EISB T3 Area

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-8,840	**Aqueous**	**GC/MS JJ**	**09/21/12**	**09/21/12**	**120921L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	48.17	96	48.13	96	80-120	73-127	0	0-20	
Carbon Tetrachloride	50.00	46.60	93	47.17	94	66-138	54-150	1	0-20	
Chlorobenzene	50.00	50.66	101	49.94	100	80-120	73-127	1	0-20	
1,2-Dibromoethane	50.00	48.82	98	47.47	95	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	50.00	51.66	103	51.20	102	80-120	73-127	1	0-20	
1,2-Dichloroethane	50.00	46.32	93	46.68	93	80-129	72-137	1	0-20	
1,1-Dichloroethene	50.00	41.26	83	40.22	80	71-131	61-141	3	0-20	
Ethylbenzene	50.00	51.71	103	51.36	103	80-123	73-130	1	0-20	
Toluene	50.00	50.11	100	50.03	100	79-121	72-128	0	0-20	
Trichloroethene	50.00	49.45	99	49.45	99	80-120	73-127	0	0-20	
Vinyl Chloride	50.00	46.62	93	47.49	95	70-136	59-147	2	0-20	
p/m-Xylene	100.0	103.7	104	103.7	104	75-125	67-133	0	0-25	
o-Xylene	50.00	51.79	104	51.45	103	75-125	67-133	1	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	43.37	87	43.44	87	72-126	63-135	0	0-22	

Total number of LCS compounds : 14
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 12-09-1094

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
MPN - Most Probable Number

Return to Contents

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: 9-18-12
PAGE: 1 OF 1

LABORATORY CLIENT: OTIE
ADDRESS: 317 E. Main Street, Ventura CA 93001
TEL: 805.585.2110 | FAX: 805.585.2111 | E-MAIL: ksawyer@otie.com

CLIENT PROJECT NAME / NUMBER: Raytheon CANOGA PARK EISB T3 Area
PROJECT CONTACT: Kim Sawyer
SAMPLER(S): (SIGNATURE)
COELT LOG CODE: T N A V
P.O. NO.: 2009.025/0610
SEE: 12-09-1094
COOLER RECEIPT Temp = ____ °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ☐ 5 DAYS ☒ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING ☒ COELT EDF ☒ WDR 100000974

SPECIAL INSTRUCTIONS
EPA 200.8 - As,Ba,B,Ca,Cd,Cr,Cu,Fe,Pb,Mg,Mn,K,Se,Na&Zn
** OTIE SPECIFIC EDD/COELT EDF **
Samples field filtered
RW-11 TOC glass container broke

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	EPA 8260B - VOCs	HPLC/UV - VFAs (Organic Acids)	RSK-175M - Methane,Ethane,Ethene	RSK-175M - Carbon Dioxide	EPA 300.0 - Br,Cl,NO2,NO3, o-PO4,SO4	SM 3500-FeB - Ferrous iron	SM2540C - TDS	SM5310D - TOC	EPA 7199 - Hexavalent Chromium	EPA 245.1 - Hg	EPA 200.8 - See Special Instructions		CONTAINER TYPE
1	RW-15		9-18-12	~~1230~~	GW	14	X	X	X	X	X	X	X	X	X	X	X		
2	RW-14			1120	GW	14	X	X	X	X	X	X	X	X	X	X	X		← RW-14
3	RW-11			1000	GW	14	X	X	X	X	X	X	X	X	X	X	X		OK
4	DUP5-		1145	~~1000~~	GW	3	X												
5	TB2-9-18-12			1230	GW	2	X												

↑ broke container

		Date	Time
Relinquished by: (Signature)	Received by: (Signature) CEL	9/18/12	16:00
Relinquished by: (Signature)	Received by: (Signature) Danny le COC	9/18/12	17:30
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

DATE

Return to Contents

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-09-1094

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: GTel DATE: 09/18/12

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.4 °C - 0.3 °C (CF) = 2.1 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Initial: _____

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: _____

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: _____

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☐	☑	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☑2VOA ☑5VOA**h** ☐VOA**na₂** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na₂** ☐1AGB**s** ☐500AGB ☐500AGJ ☐500AGJ**s** ☑250AGB ☐250CGB ☑250CGB**s** ☑1PB ☐1PB**na** ☐500PB ☑250PB ☑250PB**n** ☑125PB ☐125PB**znna** ☐100PJ ☐100PJ**na₂** ☑VOA**p** ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** MR

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** WSC

Preservative: **h:** HCL **n:** HNO_3 **na₂:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:**

Return to Contents

Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-09-1166

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: OTIE

Client Project Name: Raytheon Canoga EISB T3 Area

Attention: Kim Sawyer
317 East Main Street
Ventura, CA 93001-2624

Approved for release on 09/26/2012 by:
Virendra Patel
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: Raytheon Canoga EISB T3 Area
Work Order Number: 12-09-1166

1 Detections Summary 3

2 QC Association Summary 4

3 Client Sample Data 5
3.1 SM 5310 D Total Organic Carbon (Aqueous) 5

4 Quality Control Sample Data 6
4.1 MS/MSD and/or Duplicate 6
4.2 LCS/LCSD 7

5 Glossary of Terms and Qualifiers 8

6 Chain of Custody/Sample Receipt Form 9

Calscience Environmental Laboratories, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Client:	OTIE	Work Order:	12-09-1166
	317 East Main Street	Project name:	Raytheon Canoga EISB T3 Area
	Ventura, CA 93001-2624	Received:	09/19/12 14:50
Attn:	Kim Sawyer		

DETECTIONS SUMMARY

Client Sample ID Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
RW-11 (12-09-1166-1)						
Carbon, Total Organic	**34**		2.5	mg/L	SM 5310 D	N/A

Subcontracted analyses, if any, are not included in this summary.

Return to Contents

*MDL is shown.

Calscience Environmental Laboratories, Inc.

QC Association Summary

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: **12-09-1166**

CLIENT_SAMPLE_ID	METHOD NAME	TYPE	EXT_NAME	INSTRUMENT	MS/MSD/SDP	LCS/LCSD
RW-11	SM 5310 D Total Organic Carbon		N/A	TOC 6	C0919TOCS1	C0919TOCL1

Return to Contents

1 = Dilution analysis performed, no associated matrix QC
2 = Limited sample received, no MS/MSD performed
3 = Limited sample received, no Duplicate performed
4 = Per the method, no associated matrix QC
R = Rerun

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	09/19/12
317 East Main Street		Work Order No:	12-09-1166
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	SM 5310 D

Project: Raytheon Canoga EISB T3 Area

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-11	**12-09-1166-1-A**	**09/19/12 11:30**	**Aqueous**	**TOC 6**	**09/19/12**	**09/20/12 10:09**	**C0919TOCL1**

Parameter	Result	RL	DF	Qual	Units
Carbon, Total Organic	34	2.5	5		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-097-4,700**	**N/A**	**Aqueous**	**TOC 6**	**09/19/12**	**09/20/12 10:09**	**C0919TOCL1**

Parameter	Result	RL	DF	Qual	Units
Carbon, Total Organic	ND	0.50	1		mg/L

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 09/19/12
Work Order No: 12-09-1166
Preparation: N/A
Method: SM 5310 D

Project Raytheon Canoga EISB T3 Area

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-09-1094-1	**Aqueous**	**TOC 6**	**09/19/12**	**09/20/12**	**C0919TOCS1**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	37	25	57	80	56	74	28-148	3	0-23	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-09-1166
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	SM 5310 D

Project: Raytheon Canoga EISB T3 Area

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-097-4,700	**Aqueous**	**TOC 6**	**09/19/12**	**09/20/12**	**C0919TOCL1**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	5.0	5.1	102	5.2	104	77-125	2	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 12-09-1166

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
MPN - Most Probable Number

Return to Contents

Revised COC
Received 09/20/12 @ 1037
acd

Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Date 9-19-12

Page 1 of 1

SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

LABORATORY CLIENT: OTIE

ADDRESS: 317 E Main St.

CITY: Ventura STATE: CA ZIP: 93001

TEL: 805-585-6398 E-MAIL:

CLIENT PROJECT NAME / NUMBER: EISB Raytheon Canoga T3 area

P.O. NO.: 2009.025 / 0630 KS

PROJECT CONTACT: Kim Sawyer

LAB USE ONLY: 12-09-1166

SAMPLER(S): (PRINT) Bob Johnson

COELT LOG CODE: T N A V

COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☒ COELT EDF ☒ WDR 100000974

SPECIAL INSTRUCTIONS:
Re-sample RW-11 For TOC

Please call Kim with any questions

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260B) or ( )	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+	SM5310D-TOC
1	RW-11		9-19-12	1130	GW	1																X

Relinquished by: (Signature) Bob Johnson	Received by: (Signature/Affiliation) CEL	Date: 9/19/12	Time: 1130
Relinquished by: (Signature)	Received by: (Signature/Affiliation) DANGLE COL	Date: 9/19/12	Time: 14:50
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

05/01/07 Revision

Q&Q Graphic 714-898-9702

Return to Contents

Calscience Environmental Laboratories, Inc.

☐ SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

CHAIN OF CUSTODY RECORD

Date 9-19-12

Page 1 of 1

LABORATORY CLIENT: OTIE

ADDRESS: 317 E Main St.

CITY: Ventura STATE: CA. ZIP: 93001

TEL: 805-585-6398 E-MAIL:

CLIENT PROJECT NAME / NUMBER: EISB Raytheon Canoga T3 area

PROJECT CONTACT: Kim Sawyer

SAMPLER(S): (PRINT) Bob Johnson

COELT LOG CODE

P.O. NO.:

LAB USE ONLY 12-09-1166

COOLER RECEIPT TEMP= °C

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING FORMS ☒ COELT EDF ☒ WDR 1000009974

SPECIAL INSTRUCTIONS:

Re-sample RW-11 For TOC

Please call Kim with any questions

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260B) or ( )	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+	SM5310D-TOC		
1	RW-11		9-19-12	1130	GW	1																X		

Relinquished by: (Signature) Bob Johnson	Received by: (Signature/Affiliation) CEL	Date: 9/19/12	Time: 1130
Relinquished by: (Signature)	Received by: (Signature/Affiliation) Pamyle CEL	Date: 9/19/12	Time: 14:50
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Gre[illegible] 'ellow copies respectively.

Return to Contents

05/01/07 Revision

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-09-[1][1][6][6]

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: OTie

DATE: 09/19/12

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.7 °C - 0.3 °C (CF) = 2.4 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter **Initial:** N

CUSTODY SEALS INTACT:

☐ Cooler	☐_____	☐ No (Not Intact)	☑ Not Present	☐ N/A	Initial: N
☐ Sample	☐_____	☐ No (Not Intact)	☑ Not Present		Initial: PS

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☑250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** N

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** FS

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** TS

Return to Contents

Appendix E

Raytheon Company
Certification Statement Letter

Raytheon Company
1151 East Hermans Road
TU/B845
Tucson, AZ 85706
520.794.9026

November 15, 2012

Ann Chang, Ph.D
California Regional Water Quality Control Board
Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, CA 90013

RE: Enhanced *In Situ* Bioremediation and *In Situ* Chemical Reduction Progress Report, Third Quarter 2012
Raytheon Company, Former Canoga Park Facility, 8433 Fallbrook Avenue
Compliance File No. CI-8947

Dear Dr. Chang:

This letter provides the certification statement for the referenced report, as required by the Waste Discharge Requirements.

I declare under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.

Sincerely,

RAYTHEON COMPANY

Daniel S. Samorano
Authorized Representative

Executed on the 15th day of November, 2012
cc: File

PHASE I/II ENVIRONMENTAL SITE ASSESSMENT
WEST HILLS CORPORATE VILLAGE
WEST HILLS PHASE II
8501 FALLBROOK AVENUE
CANOGA PARK, CALIFORNIA

for

MEPT West Hills, LLC

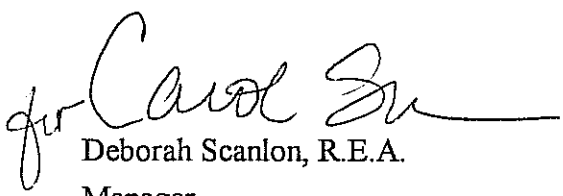
Prepared by

ENVIRON International Corporation
Irvine, California

March 29, 2002

Prepared by:

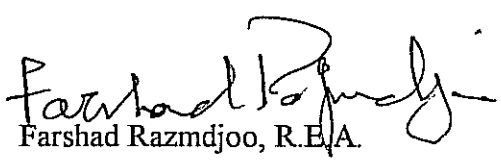
ENVIRON International Corporation
2010 Main Street, Suite 900
Irvine, California 92614
Tel. (949) 261-5151
Fax (949) 261-6202



Deborah Scanlon, R.E.A.
Manager



Carol Serlin, R.G.
Senior Manager



Farshad Razmdjoo, R.E.A.
Principal

CONTENTS

		Page
1.0	SUMMARY OF CONCLUSIONS	1
2.0	INTRODUCTION	5
2.1	Scope of Phase I/II Environmental Site Assessment	5
2.2	Definitions	7
2.3	Data Evaluation and Report Compilation	8
2.4	Exceptions to/Deletions from ASTM Practice E 1527-00	8
3.0	FINDINGS	9
3.1	Site Review	9
3.1.1	Property Setting	9
3.1.1.1	Immediate Vicinity Sites	9
3.1.1.2	Topography	9
3.1.1.3	Utilities	15
3.1.2	Site Reconnaissance	15
3.1.2.1	Chemical Use and Chemical Waste Storage	18
3.1.2.2	Non-Hazardous and Hazardous Solid Waste	18
3.1.2.3	Asbestos	19
3.1.2.4	Lead-Based Paint	19
3.1.2.5	Polychlorinated Biphenyls ("PCBs")	20
3.1.2.6	Air Emissions	20
3.1.2.7	Wastewater Discharges	21
3.1.2.8	Soil and Ground Water Contamination	21
3.1.2.9	Mold	21
3.1.3	Immediate Vicinity Reconnaissance	22
3.2	Indoor Air Sampling	22
3.3	Historical Review	24
3.3.1	Historical Operations Interview	24
3.3.2	Chronological Summary of Historical Topographic Maps, Aerial Photographs, and City Directories	25

CONTENTS (Continued)

		Page
3.3.3	Previous Reports Review	27
3.3.4.	Summary of Historical Reviews	27
3.4	Regulatory Review	30
3.4.1	Geologic and Hydrogeologic Setting	30
3.4.2	Regulatory Agency File Review	31
3.4.3	Regulatory Agency Databases	32
3.4.4	Munger Map Book	34
3.4.5	Radon	34
4.0	LIMITATIONS	35
5.0	REFERENCES	36-49

TABLES

Table 1:	Regulatory Database Search Results	32-33

FIGURES

Figure 1:	Site Vicinity Map	10
Figure 2:	Site Plan	11
Figure 3:	Site Plan and Locations of Former Tanks and Pits	12
Figure 4:	Site Plan and Locations of AOC, SWMUs and Wells	13
Figure 5:	Indoor Air Sampling Locations	14

APPENDICES

Appendix A: Site Photographs
Appendix B: EDR Report
Appendix C: Summary of Asbestos Reports
Appendix D: Summary of ENVIRON's Review of Previous Reports
Appendix E. Indoor Air Sampling Results, Calculations and Laboratory Data Reports

1.0 SUMMARY OF CONCLUSIONS

Subject to the qualifications and limitations stated in Chapter 2.0, Introduction, on behalf of Multi Employer Pension Trust (MEPT) West Hills, LLC, and its legal counsel Allen Matkins Leck Gamble & Mallory, LLP (AMLGM), ENVIRON International Corporation (ENVIRON) performed a Phase I/II Environmental Site Assessment of the West Hills Corporate Village facility located at 8501-8531 Fallbrook Avenue in Canoga Park, California (Property, see Figure 1). The Property was part of the Hughes Aircraft Company Missile Systems Group Facility (Site or Facility), that covered approximately 80 acres. ENVIRON understands that the Phase I/II Environmental Site Assessment was requested as part of MEPT's potential purchase of the Property. The Phase I Environmental Site Assessment was performed in conformance with the scope and limitations of the American Society of Testing and Materials (ASTM) Practice E 1527-00, and according to ENVIRON's proposal to Mr. John Allen of AMLGM dated November 8, 2001. Any exceptions to, or deletions from, this practice are described in Section 2.4 of this report. The Phase II work, consisted of indoor air quality sampling, and was performed according to ENVIRON's proposal to Mr. John Allen of AMLGM dated February 22, 2002.

Based on our visual observation of the Property, review of sources of historical information, a review of regulatory agency databases, the results of the indoor air quality sampling, and ENVIRON's professional judgment, "recognized environmental conditions," or "historical recognized environmental conditions" as defined by ASTM (see pages 3 and 5), were identified at the Property, as follows:

- The Property was occupied by aerospace research and development companies from 1966 through 1994. During this period, several underground storage tanks, clarifiers, pits, and trenches were installed. Based on the information reviewed by ENVIRON, these structures appear to have been removed or closed in place. To date, regulatory closures have not been issued for all of the underground storage tanks (USTs). Soil and ground water in proximity to certain of the USTs and clarifiers have been impacted by volatile organic compounds (VOCs) and/or petroleum hydrocarbons (TPH). Numerous subsurface investigations have been conducted since chemicals were first detected in soil and ground water in the mid-1980s. A corrective action plan was prepared in 1992 (1992 CAP) and revised in 1994. The California Regional Water Quality Control Board – Los Angeles Region (LARWQCB) has provided oversight for the soil and ground water remediation at the Property. Based on correspondence from the Department of Toxics Substances Control (DTSC), soil and ground

water cleanup standards established for the Property in the 1992 CAP, were based on the lowest numbers produced from a health risk assessment, background measurement, or maximum contaminant levels (MCLs). Based on ENVIRON's review of available documents, the ground water cleanup goals appeared to be 10 times greater than the MCL, and soil cleanup goals were established for total chlorinated VOCs at 100 milligrams per kilogram (mg/kg). ENVIRON understands that in the purchase and sale agreements for the Property, Raytheon retains all responsibility and liability for the investigation and remediation of chemicals in soil and ground water underlying the Property.

Given the known occurrence of chemicals in soil and ground water underlying the Property, the fact that certain areas of the Property have not been investigated, and stated cleanup goals, which indicate that residual chemical concentrations will remain in soil and ground water, ENVIRON recommended conducting indoor air sampling to evaluate the potential health risks from VOCs to workers inside the buildings. This air monitoring was conducted on February 28 and March 14, 2002, and is described in Section 3.2 of this report. Twelve VOCs were detected at concentrations above applicable detection limits, five of which are Proposition 65 listed chemicals. Detected VOC concentrations were well below worker Permissible Exposure Levels (PELs, 8 hr, time-weighted average) specified by the Occupational Safety and Health Administration (OSHA). Furthermore, ENVIRON reviewed the results for the five Proposition 65-listed VOCs to evaluate if the facility would be subject to Proposition 65 requirements. The results of this assessment indicated that Proposition 65 requirements are not applicable inside the buildings. Therefore, the presence of VOCs and petroleum hydrocarbons in soil and/or ground water underlying the Property does not appear to have resulted in a significant health risk to workers inside the buildings.

- In June 1998, hexavalent chromium contaminated soils were encountered during the demolition of the former Hazardous Waste Storage Area (HWSA). Because the hexavalent chromium contaminated soils were encountered at depths of 5 to 13 feet below ground surface (bgs), Raytheon (which purchased Hughes) believed that the soils would not pose a health threat; therefore, no removal was planned. In 1999, hexavalent chromium was detected in ground water samples collected from wells adjacent to the former HWSA. Seven ground water monitoring wells were installed in proximity to the HWSA in June of 2000, and monitoring for the presence of hexavalent chromium. Sampling results indicated that the state MCL for hexavalent chromium in drinking water, currently 50 micrograms per liter (µg/l), was exceeded at two monitoring wells (MW-32S and MW-32D), both located within the footprint of the former HWSA. It should be noted that the California Environmental

Protection Agency Office of Environmental Health Hazard Assessment (OEHHA) is reviewing the public health goal (PHG) and drinking water standard for hexavalent chromium, and the standards may be decreased in 2003. However, because the former HWSA is paved and located outside the footprint of currently constructed buildings, and due to the absence of a complete exposure pathway, the localized occurrence of hexavalent chromium in ground water at the former HWSA does not appear to represent a significant health risk to workers at the Property.

The following are other pertinent findings, which are not representative of recognized environmental conditions:

- Two Resource Conservation and Recovery Act (RCRA) permitted waste storage facilities were located at the Property: Tank T-3 and the hazardous waste storage area (HWSA). DTSC is the lead agency for RCRA closure of these two waste storage facilities. In a 1995 memorandum, DTSC outlined seven areas of concern (AOCs) and several solid waste management units (SWMUs) at the Property. Correspondence from DTSC indicates that the agency has not been fully satisfied with the investigations of the AOCs, the closure of the SWMUs, or post closure of the hazardous waste management unit (Tank T-3).

- Based on historical documents reviewed, the Property was used for agricultural purposes from at least 1928 until the mid- to late 1950s, when commercial structures were built. From 1966 to 1994, the Property was occupied by aerospace research and development companies. In the late 1990s, several buildings were demolished and the remaining buildings were completely remodeled. One additional building was constructed on the Property in 2000. The Property buildings are currently used for office space.

  Prior asbestos documents reviewed indicated that several types of asbestos-containing materials (ACMs) were present within the Property buildings (except for the recently constructed building). Based on a review of prior documents, interviews conducted, and the site visit, it appears that the previously identified ACMs were removed from the Property prior to remodeling activities. Therefore, it is unlikely that ACMs are present in the Property buildings.

- Based on interviews and the site visit conducted, it appears that painted materials previously located within the Property buildings were removed prior to remodeling activities. Therefore, it is unlikely that lead-based paint is present in the Property buildings.

- Based on a review of prior documents, interviews conducted, and visual observations of readily accessible areas during site visit, it does not appear that areas of water leaks or stains, or areas of mold are located in the Property buildings.

- The Property is listed in the Environmental Data Resources (EDR) report on the Historical Underground Storage Tanks (HIST UST), Resource Conservation and Recovery Information Systems (RCRIS), Facility Index System (FINDS), RCRIS – Transport, Storage and Disposal (RCRIS-TSD), RCRIS- - Corrective Action Sites (CORRACTS), Comprehensive Environmental Response, Compensation and Liability Information System - No Further Action Planned (CERCLIS-NFRAP), California Hazardous Substances Release Sites (Cal-Sites), Hazardous Waste and Substances Sites List (Cortese), and Leaking Underground Storage Tank (LUST) databases. These listings appear to include the former Hughes facility at the Property and southern adjacent area. As described above, remediation activities are currently being conducted by Raytheon at the Property.

- Several off-site facilities were identified in the database report, within the specified search radii. Based on the regulatory status and/or direction from the Property, it is unlikely that these listed facilities have adversely affected the Property.

2.0 INTRODUCTION

ENVIRON was retained by AMLGM on behalf of MEPT to conduct a Phase I/II Environmental Site Assessment of the West Hills Corporate Village located at 8501-8531 Fallbrook Avenue in Canoga Park, California ("Property"). ENVIRON understands that the Phase I Environmental Site Assessment was requested as part of MEPT's potential purchase of the Property. The Phase I Environmental Site Assessment described in this report was performed in conformance with the scope and limitations of the ASTM Practice E 1527-00, and ENVIRON's proposal to Mr. John Allen of AMLGM, dated November 8, 2001. The purpose of the assessment was to identify recognized environmental conditions. The term "recognized environmental conditions" is defined by ASTM as:

> "The presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products in structures on the property or into the ground, ground water, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimus* conditions that generally do not represent a material risk of harm to public health and environment and that generally would not be the subject of enforcement action if brought to the attention of appropriate governmental agencies."

ENVIRON undertook tasks, as necessary, to provide information required under ASTM Practice E1527-00. In addition, ENVIRON performed Phase II work, consisting of indoor air quality sampling, which was performed according to ENVIRON's proposal to Mr. John Allen of AMLGM dated February 22, 2002.

2.1 Scope of Phase I/II Environmental Site Assessment

The assessment included the following activities:

- A visit to the Property to observe and evaluate visible site conditions (see Appendix A for site photographs), ENVIRON was escorted by Ms. Rosa Amelia Samaniego, Property Manager with Insignia/ESG, Inc. (Insignia).

- A review of historical aerial photographs (dated 1928, 1952, 1965, 1976, 1989, and 1994) provided by Environmental Data Resources (EDR).

- A review of a city directory abstract dated November 19, 2001 (for the years from 1920 to 2000), provided by EDR.

- A review of historical topographic maps (dated 1903, 1947, and 1967) provided by EDR.

- A request for Sanborn maps of the Property and vicinity from EDR. EDR indicated that Sanborn maps are not available for the area of the Property.

- A review of publicly available reports pertaining to geology and hydrogeology in the vicinity of the Property.

- A request, through Environmental Support Services of Santa Ana, California (ESS) for available documents pertaining to the Property from the following agencies: The Los Angeles County Environmental Health Department (Health Department), and City of Los Angeles Building and Fire Departments (Building and Fire Departments).

- A review of available documents pertaining to the Property at the LARWQCB.

- A review of the results of an environmental regulatory database search of environmentally impaired sites located in the vicinity of the Property, conducted by EDR, dated November 19, 2001 (see Appendix B). EDR conducted searches of the following federal databases: the United States Environmental Protection Agency (USEPA) Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS); the USEPA National Priority List (NPL); the USEPA Emergency Response Notification System (ERNS); the USEPA Resource Conservation and Recovery Information System (RCRIS); and, the USEPA Corrective Action Reports (CORRACTS). State databases searched were: State Hazardous Waste Sites (SHWS), Solid Waste Sites & Facilities (LF), Leaking Underground Storage Tank List (LUST), Underground Storage Tank Database (UST), Historic UST Database (HIST UST), Known Hazardous Waste Sites (Cal-Sites), California hazardous Material Incident Report System (CHMIRS), and Hazardous Waste Information System (HAZNET).

Because the environmental databases themselves are sometimes not updated by the specific regulatory agencies for periods of up to one year (depending on the database and the agency), the database search conducted herein will not necessarily list all facilities or sites recently identified as having, or suspected of having, environmental problems and for which an environmental investigation/listing has been initiated, or reflect the current status of activities at a particular site, subsequent to the last update of a given list. The dates of the most recent updates for the searched environmental databases are listed in Appendix B.

- A review of the 2001 Munger Map Book, California-Alaska Oil and Gas Fields, to identify oil and gas wells located on or adjacent to the Property.

- A review of previous reports relating to soil and ground water sampling, remediation, and asbestos surveys and abatement at the Property, a complete list of all reports reviewed by ENVIRON is included in Section 5.0 of this report.

- An assessment of indoor air quality at the Property, performed in the existing buildings, to evaluate the potential health risks from VOCs detected in soil and ground water to workers inside the buildings. This air monitoring was conducted on February 28 and March 14, 2002, and is described in Section 3.2 of this report.

2.2 Definitions

The following terms are used in this report:

- The word "Property" refers to the property within the approximate boundaries depicted on Figure 2,

- "Immediate vicinity" refers to properties immediately adjacent to the Property that share a common boundary with the Property, and

- "Vicinity" refers to the area within an approximate 1/4-mile radius of the Property.

- "Historical Recognized Environmental Condition" is based on the definition in ASTM E 1527-00 and refers to an environmental condition which in the past would have been considered to be Recognized Environmental Condition, but has been satisfactorily remediated or addressed in such a manner that it is no longer considered to be a Recognized Environmental Condition.

The term "hazardous" is used herein in general accordance with 40 CFR Part 261, Federal Code of Regulations. No legal distinction is implied between the three terms "material," "waste," and "substance" as used herein. The word "impact" or "impacted" is used herein to indicate the result of a release of a hazardous substance.

2.3 Data Evaluation and Report Compilation

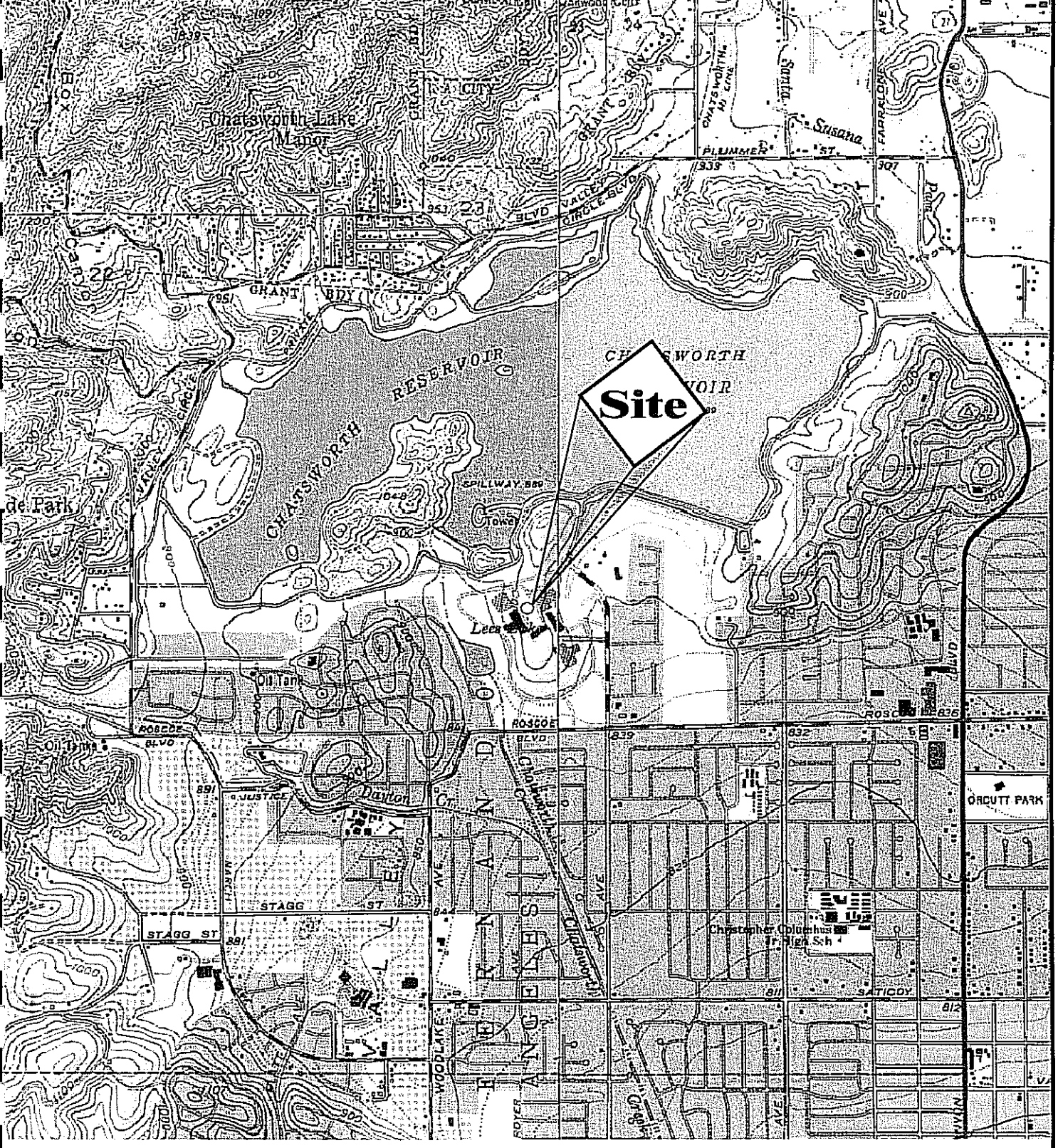
This report presents the results of ENVIRON's evaluation. It is based primarily upon a site visit, a review of available historical documents, and a review of lists of environmentally impaired sites. No environmental samples, other than indoor air quality samples, were collected as part of this review. Chain-of-title documents were not provided for ENVIRON's review. Although, where possible, reasonable attempts were made to verify information provided to ENVIRON, this report is accurate and complete only to the extent that information provided to ENVIRON was itself accurate and complete. However, we have found no reason to question the information received.

Antecedent to this Introduction (Chapter 2.0), ENVIRON's conclusions are presented in Chapter 1.0. The findings for the Phase I/II environmental assessment for the Property are presented in Chapter 3.0. Limitations are presented in Chapter 4.0, and references are presented in Chapter 5.0.

2.4 Exceptions to/Deletions from ASTM Practice E 1527-00

Resumes for ENVIRON personnel conducting the assessment are not included in this report, but will be provided upon request. Due to security clearance restrictions, ENVIRON was able to access only a portion of Building C, located on the Property. No other exceptions to, or deletions from, ASTM Practice E 1527-00 were made during this assessment.

3.0 FINDINGS



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2000 0 2000 4000 FEET

SOURCE:
U.S.G.S. 7.5 minute series (topographic)
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Canoga Park Quadrangle, CA, 1952, photo revised, 1967

CONTOUR INTERVAL 40 FEET
DOTTED LINES REPRESENT 10-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929
SCALE 1:24000

ENVIRON

Site Vicinity Map

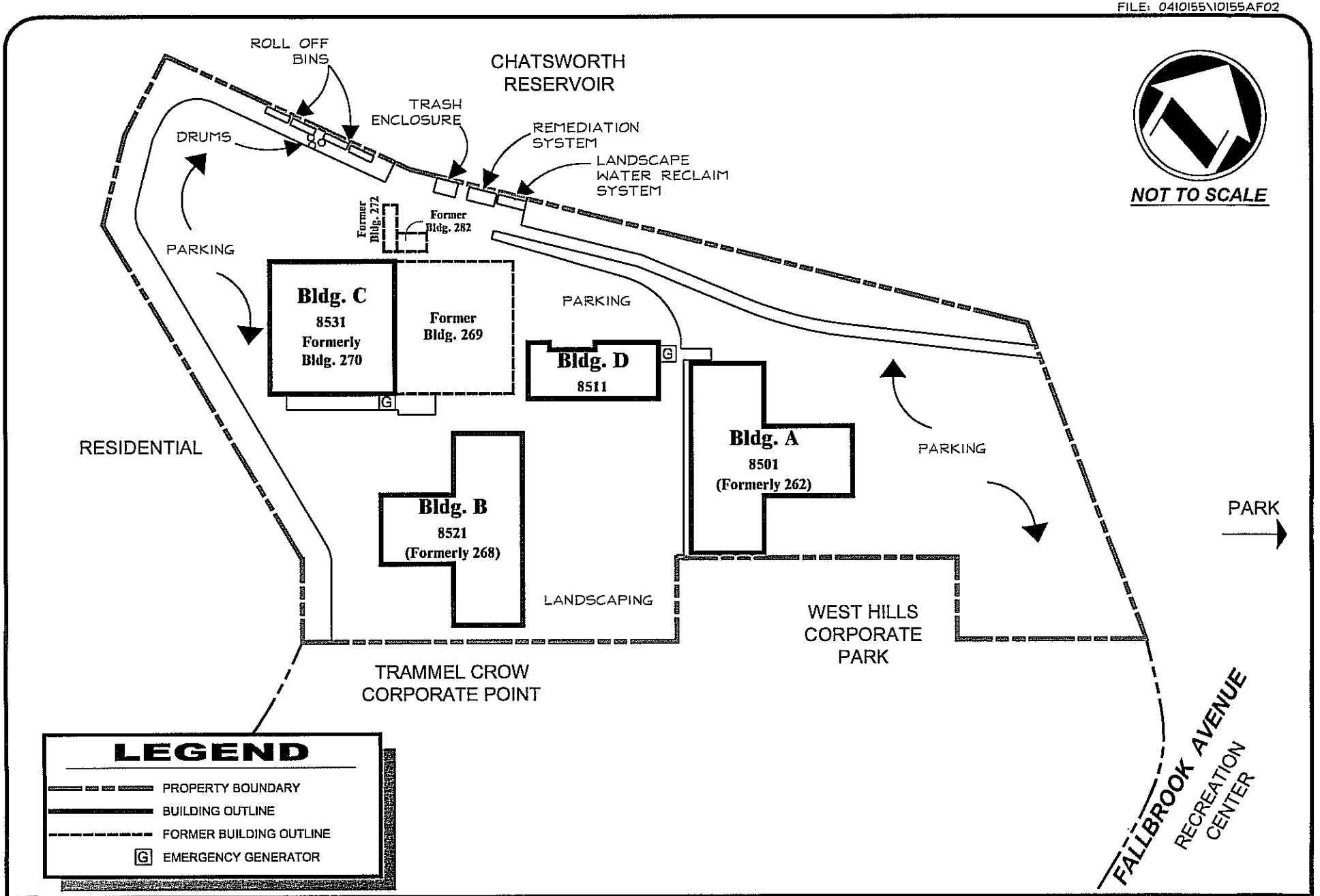
8501-8531 Fallbrook Avenue
Canoga Park, California

Figure **1**

Drafter: JJC Date: 12/20/01 Contract Number: 04-10155A Approved: Revised:

FILE: 04I0155V10155AF01

FILE: 0410155\10155AF02



ENVIRON

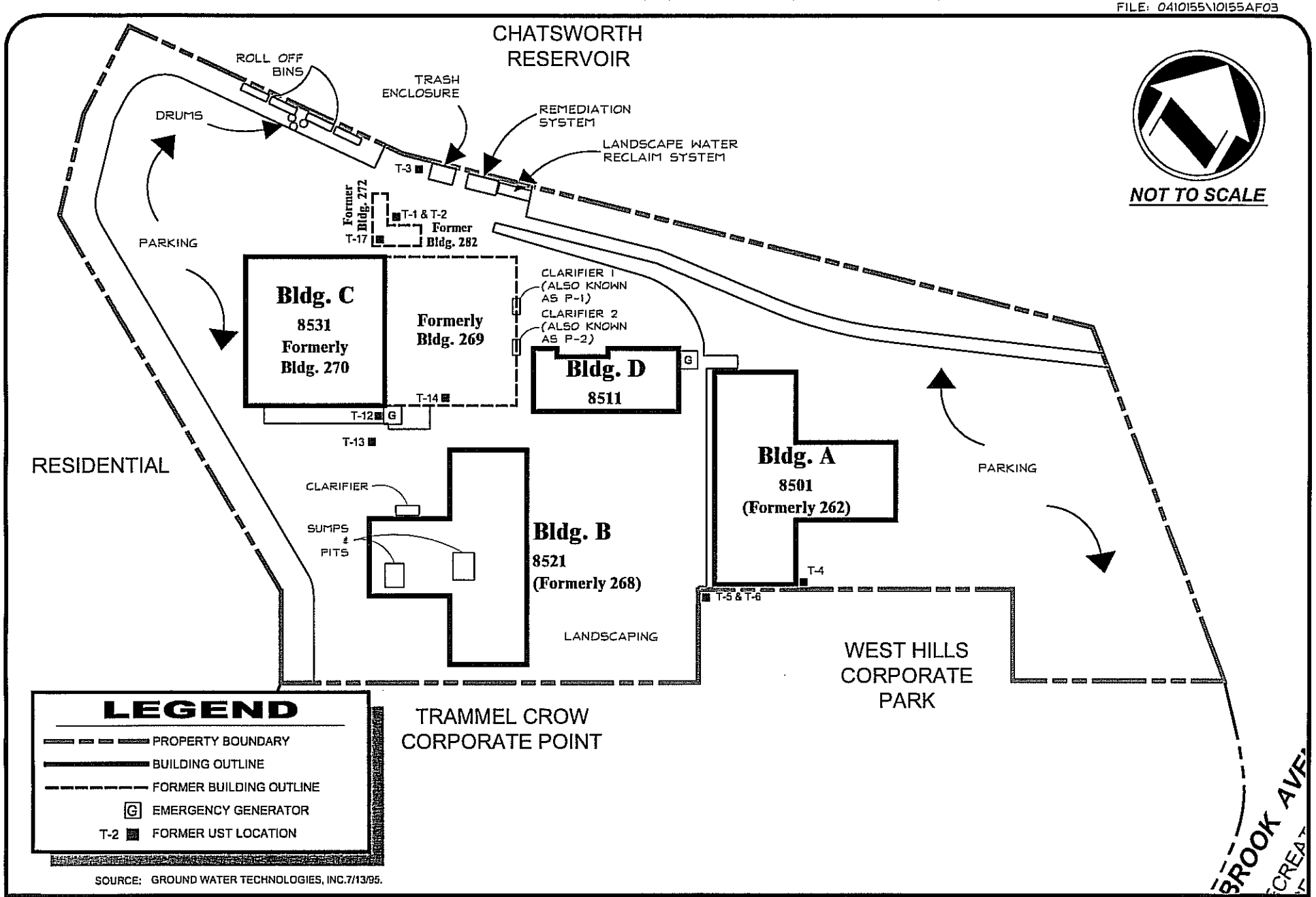
Site Plan

8501-8531 Fallbrook Avenue
Canoga Park, California

Figure 2

Drafter: JJC | Date: 1/09/02 | Contract Number: 04-10155A | Approved: | Revised: 3/7/02

FILE: 0410155\10155AF03



ENVIRON

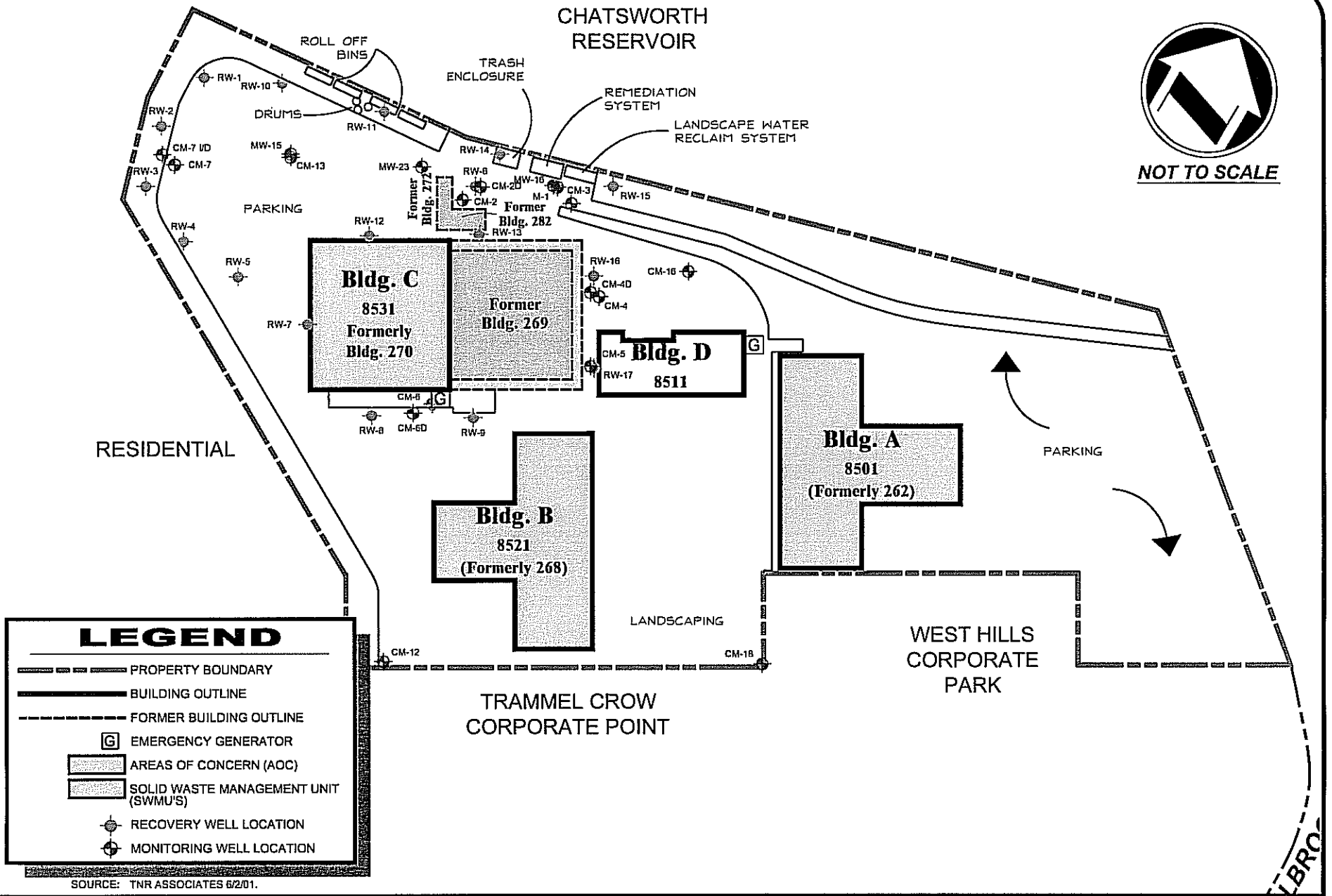
Site Plan and Locations of Former Tanks and Pits

8501-8531 Fallbrook Avenue
Canoga Park, California

Figure 3

Drafter: JJC | Date: 1/10/02 | Contract Number: 04-10155A | Approved: | Revised: 3/7/02

FILE: 0410155\10155AF04



SOURCE: TNR ASSOCIATES 6/2/01.

ENVIRON

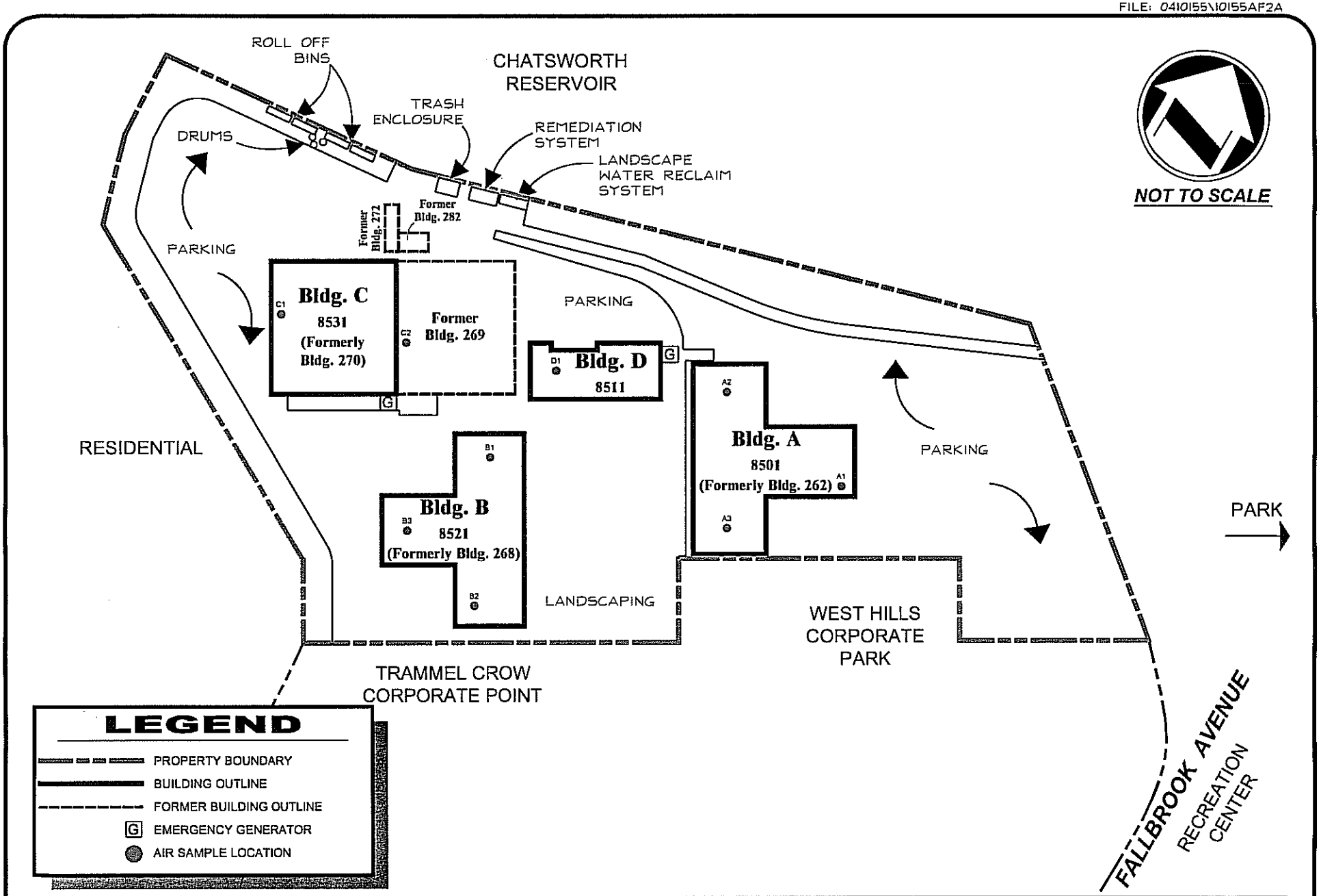
Site Plan and Locations of AOC, SWMU's and Wells

8501-8531 Fallbrook Avenue
Canoga Park, California

Figure 4

Drafter: JJC | Date: 1/10/02 | Contract Number: 04-10155A | Approved: | Revised: 3/7/02

FILE: 0410155\10155AF2A



ENVIRON

Indoor Air Sampling Locations

8501-8531 Fallbrook Avenue
Canoga Park, California

Figure 5

Drafter: JJC | Date: 3/8/02 | Contract Number: 04-10155A | Approved: | Revised: 3/25/02

3.1.1.3 Utilities

Electricity, domestic water, and sewer services are provided to the Property by the Los Angeles Department of Water and Power (LADWP). Natural gas is supplied by the Southern California Gas Company.

3.1.2 Site Reconnaissance

As described previously, the Property consists of approximately 30 acres of land, improved with four office buildings and associated parking and landscaped areas. ENVIRON's site visit to the Property was conducted on December 18, 2001. ENVIRON was escorted during the visit by Ms. Samaniego of Insignia. Ms. Samaniego indicated that three of the Property buildings (A through C) were completely remodeled in the year 2000. According to Ms. Samaniego, all interior building materials, with the exception of the steel framing and concrete flooring were removed and the building interiors were re-built. The roofing materials also were reportedly removed and replaced during this remodeling. Light and other electrical fixtures, as well as plumbing also were replaced.

Ms. Samaniego indicated that ground water remediation has been ongoing during the year that she has managed the Property. She stated that approximately ten soil borings were drilled in the northwestern portion of the Property during the past month. Remedial activities and subsurface investigations at the Property are further discussed in Section 3.3.3 and Appendix D of this report.

Ms. Samaniego indicated that the buildings are comprised of office space and no manufacturing is conducted at the Property. She also indicated that no chemicals are stored or used on-site, other than janitorial supplies and a small amount of paint.

The four buildings at the Property are referred to as Buildings A through D. Building A has the address of 8501 Fallbrook Avenue and is located in the northeastern portion of the Property. Building A was previously known as Building 262, when occupied by Hughes Missile Systems Company (Hughes). This building has 157,674 square feet of rentable space covering 2½ floors. The ground floor is the ½ floor and is partially below grade. Building A has two hydraulic passenger elevators and one hydraulic freight elevator. Electrical rooms, janitorial rooms, and restrooms are located on each floor of the building. Building A is occupied by Xerox, Software Dynamics, and Countrywide, all of which use the space for offices. Asphalt paved parking areas are located to the east and north of the building.

Building B has the address of 8521 Fallbrook Avenue and is located in the southwestern portion of the Property. This building was previously known as Building 268, when occupied by Hughes. Building B has 153,892 rentable square feet covering 2½ floors. Again the ground floor is the ½ floor and is partially below grade. This building has two hydraulic passenger elevators and one hydraulic freight elevator. Electrical rooms, janitorial rooms, and restrooms are located on each floor of the building. This building is occupied by Pitney Bowes, IBM, Boeing, and Countrywide, all of which use the space for offices. One tenant suite in Building B is currently vacant, and was previously occupied by Vast Solutions, a paging company. Asphalt parking areas are located to the north and south of this building.

Building C has the address of 8531 Fallbrook Avenue and is located in the northwestern corner of the Property. This building was previously known as Building 270, when occupied by Hughes. Building C has 2 floors, with a portion of the ground floor located partially below grade. This building has 100,000 square feet of rentable space, all of which is occupied by Boeing. Only the entrance and front hallway of this building were accessible to ENVIRON during the site visit due to security clearance requirements. The portion accessed was observed to consist of office space and the remainder of the building is reportedly also used for offices. This building has two hydraulic passenger elevators and one hydraulic freight elevator. A diesel-operated emergency generator is located within a fenced enclosure at the southeastern exterior of the building. Asphalt parking areas are located to each side of this building. Numerous monitoring wells were observed in these parking areas.

Building D has the address of 8511 Fallbrook Avenue and is located in the north-central portion of the Property. This building was constructed during the year 2000, and was not a part of the former Hughes facility. Building D has 141,386 square feet of rentable space in four floors. An unfinished portion of the first floor (located in the south-central part of the building) is partially below grade, and was designed to be used as an auditorium. The interior spaces on the first floor, with the exception of the lobby, and the fourth floor have not been finished. The building is currently leased by Sterling Software/Computer Associates, which occupies the second floor. The first and fourth floors were also to be occupied by this tenant, however, construction has been halted. The third floor is subleased to Countrywide. The occupied areas of this building are used for office space. Two hydraulic passenger elevators and one hydraulic freight elevator are located in the building. Restrooms, electrical rooms, and janitorial rooms are located on each floor. A diesel-operated emergency generator and large electrical transformer are located in a fenced enclosure on the eastern exterior of this building. Asphalt parking areas are located to the north and west of the building.

As described above, asphalt parking areas are located adjacent to each of the buildings. Numerous ground water wells and former soil boring locations were observed in the northern and northwestern portions of the parking areas. These wells and borings are associated with past and current remediation activities at the Property (Figures 3 and 4). These activities are discussed further in Section 3.3.3 and Appendix D of this report.

A large landscaped area, consisting of grass, planters, a pond, and two streams, is located in the center of the Property, to the south of Building D, between Buildings A and B. According to Ms. Samaniego, the water in the pond and connected streams is recirculated through a biofilter, and no chlorine or other chemicals are used in the water. Landscaping services are provided by an on-site contractor which uses the West Hills Corporate Park site adjacent to the south of the Property to store equipment.

A water reclaim system, used for watering landscaped areas on the Property, is located along the northern Property boundary, to the north of Building D. The reclaim system is located within a fenced enclosure and consists of large water holding tanks and PVC piping. According to Ms. Samaniego, ground water extracted at the Property is processed through the system and delivered by PVC piping to planter areas throughout the Property. Based on information provided in the ground water monitoring and remediation reports reviewed for the Property, treated ground water is used for the irrigation of landscaping. Several steel drums, labeled "purge water" were observed within the fenced enclosure. Based on ENVIRON's observations at the time of the site visit, it appears that these drums are used during monitoring well sampling.

A fenced trash enclosure is also located along the northern Property boundary. Several trash dumpsters, placed in the enclosure area, are used by the Property tenants. Minor staining was observed on the asphalt beneath the dumpsters.

A remediation system is located in a locked, fenced enclosure along the northern Property boundary. This enclosure was not accessible at the time of the site visit, however portions were observed through the fencing. The systems appear to include several units labeled as "aqua scrub" and "carbon." According to Ms. Samaniego, ground water sampling and remediation activities currently are being conducted at the Property. These remediation activities are discussed further in Section 3.3.3.

As described above, Ms. Samaniego indicated that several soil borings were recently drilled along the northern portion of the parking area. Four roll-off bins and approximately 20 steel drums were observed in the area of the recent borings. The bins appear to contain soil, and the drums are labeled as containing "non-classified waste decon water." The drums and bins were placed on the asphalt surface without secondary containment; however, no sign of leaks or spills were observed around these containers at the time of ENVIRON's site visit.

3.1.2.1 Chemical Use and Chemical Waste Storage

Ms. Samaniego indicated that significant quantities of chemicals are not used at the Property. No chemical waste reportedly is generated at the Property, and no waste storage areas (other than municipal waste dumpsters) were observed during the site visit. Chemicals observed, or reported to be used on-site, consist of janitorial cleaners, small amounts of paint, hydraulic fluid for the elevators, and diesel in the emergency generators. Paint cans are stored in a small flammable cabinet in the maintenance room located in Building B. The paint reportedly is used for touch-up jobs only.

One 55-gallon drum of hydraulic fluid, without secondary containment, was observed in the elevator machine room in Building B. No containers of hydraulic fluid were observed in the elevator equipment rooms of the remaining buildings. ENVIRON did not observe staining on the concrete floor beneath or adjacent to the elevator equipment in the machine rooms during the site visit.

Diesel is stored in tanks that are an integral part of the emergency generators. Ms. Samaniego was not aware of the capacity of these tanks. No staining was observed on the raised concrete pads beneath the generators.

3.1.2.2 Non-Hazardous and Hazardous Solid Waste

No hazardous solid waste was observed or reported to be stored (with the exception of the possible hazardous drill cuttings generated from recent investigations at the Property). Non-hazardous waste observed at the Property consists of general office trash. This waste is collected in dumpsters located in the enclosure at the northern side of the Property, as described above. Minor staining was observed on the asphalt beneath the dumpsters.

3.1.2.3 Asbestos

Based on the construction date of Building D (built in 2000), it is unlikely that asbestos-containing materials (ACMs) were used in this building. As previously mentioned, Ms. Samaniego indicated that Buildings A through C were completely remodeled during 1999-2000. Several previous reports relating to asbestos surveys and abatement activities conducted in these buildings were provided for ENVIRON's review and are summarized in Appendix C of this report.

Based on a review of available reports, it appears that the majority of floor tiles and associated mastics and pipe, elbow, and tee insulation in the Property buildings were found to contain asbestos. Portions of the wall materials, exterior stucco (paint) materials, and roofing materials also were found to contain asbestos. As reported by Ms. Samaniego, all building materials, other than metal, wood, and concrete, reportedly were removed during recent remodeling activities. Ms. Samaniego also indicated the roofing materials were removed and replaced during the remodeling. Reports describing the abatement of various ACMs were reviewed (see Appendix C), however reports documenting the removal of all ACMs from the buildings were not provided to ENVIRON. A June 2000 Environmental Impact Report prepared by AllWest stated that a review of a November 1999 report by J&H indicated that *"all asbestos containing material identified in the interiors of the buildings"* (Buildings A and B at 8521 and 8531 Fallbrook Avenue) had been abated. During the site visit, the building materials observed appeared to have been installed recently, and ENVIRON believes it is unlikely that the current building materials contain ACMs.

3.1.2.4 Lead-Based Paint

Based on the construction date of Building D (built in 2000), it is unlikely that lead-based paint was used. As described above, Ms. Samaniego indicated that Buildings A through C were completely remodeled during 1999-2000. The only materials reportedly left in-place were metal, wood, and concrete, which were not painted. Property areas accessed during the site visit appeared to have been recently painted, and no areas of peeling or chipping paint were observed. Black paint was not observed during the site visit.

One report relating to paint sampling was provided to ENVIRON during the site visit. The report entitled "*Lead Inspection, Westhills Corporate Village, Building 8521,*" prepared by J&H, and dated November 15, 1999, was reviewed. Based on this

report, the paint sampled during this inspection was collected from the ceiling area on the first floor of Building B. Four bulk samples of the black paint were collected and found to contain between 0.050% and 0.056% lead. These results are below the Los Angeles County Department of Health Services and U.S. Department of Housing and Urban Development's standards for lead-based paint. No recommendations were included in the report.

3.1.2.5 Polychlorinated Biphenyls ("PCBs")

Small, dry-type transformers are located in various areas throughout the Property. Because the transformers are dry-type units, PCB-containing fluid is not expected to be present in the transformers.

Pad-mounted transformers are located within fenced enclosures adjacent to Buildings C and D. These transformers are not labeled, but are assumed to be owned by the electric utility company, LADWP. Ms. Samaniego indicated that the transformers were installed during the buildings' remodeling activities in 1999 or 2000. Based on this installation date, it is unlikely that the transformers are PCB-containing. No staining was observed on the concrete pads beneath and adjacent to the transformers.

Fluorescent light fixtures are present throughout the buildings at the Property. Ms. Samaniego indicated that the fixtures were installed during the remodeling conducted in 1999-2000. Based on this installation date, it is unlikely that these fixtures and ballasts contain PCBs.

3.1.2.6 Air Emissions

Air emissions sources observed at the Property appear to be limited to the two diesel emergency generators, which are only operated during routine testing and power outages. Emissions from the generators are expected to be limited in duration and quantity and are not expected to adversely affect soil and/or ground water underlying the Property. Permits for the generators, issued by the South Coast Air Quality Management District (SCAQMD), were observed at the Property.

In addition, the remediation system located at the Property likely generates air emissions and would, therefore, require a permit from the SCAQMD. ENVIRON was not provided with access to this system to check whether such a permit is posted near the equipment.

3.1.2.7 Wastewater Discharges

According to Ms. Samaniego, sources of wastewater generated at the Property consist of sanitary effluent from the sinks and toilets. Rainwater runoff on the western side of the Property is directed into concrete gutters that flow to an unlined creek located between the Property and adjacent residences. This creek was dry at the time of the site visit. Rainwater runoff on the remainder of the Property appears to flow toward the south and southeast, to street gutters.

Treated ground water arising from the remediation system is collected in the water reclaim system and used in the landscaped areas of the Property.

3.1.2.8 Soil and Ground Water Contamination

As previously mentioned, numerous monitoring wells are located at the Property. Moreover, evidence of previous soil borings was observed during the site visit. Ground water remediation activities currently are being conducted at the Property. Soil and ground water contamination at the Property is a result of past Property use by Hughes. The contamination and remediation activities are discussed in Section 3.3.3 and Appendix D of this report. No current Property uses that would contribute to soil or ground water contamination were observed by ENVIRON during the site visit.

3.1.2.9 Mold

During the site visit, ENVIRON observed the readily accessible areas of the Property buildings for indications of water stains and/or mold. No signs of such stains or mold were observed within the Property buildings at the time of the site visit. Additionally, Ms. Samaniego indicated that she is not aware of any such areas within the buildings, or of any current roof or pipe leaks.

Ms. Samaniego indicated that there had a been an area of mold previously identified in Building A, and provided ENVIRON with a report pertaining to the sampling of the mold. This area was identified due to visual observation from an employee. According to an April 9, 2001 letter report prepared by J&H regarding "mold inspection, sampling and report," an inspection for mold was conducted in Building A on March 30, 2001. The inspection included Cubicle 109A, the adjacent area, and Cubicle 112A. At the time of the inspection, no visible signs of mold reportedly were observed; however, three tape lift samples were collected from the carpet of the

above referenced areas. The sample collected from the carpet adjacent to cubicle 109A was found to have a minor, abundant, and major density of acremonium, aspergillus/penicillium, and hyphae, respectively. Penicilium phialides reportedly was also observed. The sample collected from the carpet beneath the desk in cubicle 109A was found to have a trace density of cladosporium, aspergillus/penicillium, and hyphae, and the sample collected from the carpet in cubicle 112A was found to have a trace density of cladosporium and hyphae. J&H concluded that "no toxic molds" were found. However, Ms. Samaniego stated that the materials in the area of concern were removed and the area was cleaned with a biocide substance.

3.1.3 Immediate Vicinity Reconnaissance

A reconnaissance of the immediate vicinity of the Property was conducted by ENVIRON on December 18, 2001. ENVIRON's reconnaissance of the immediate vicinity consisted of walk- and drive-by observations from the public streets. ENVIRON did not enter any sites near or adjacent to the Property. The immediate vicinity of the Property was observed to consist of residences, a park/recreation area, a reservoir, and office buildings. During ENVIRON's reconnaissance of the immediate vicinity, ENVIRON did not identify facilities that are listed in the EDR database report.

3.2 Indoor Air Sampling

ENVIRON conducted indoor air sampling in the four buildings at the Property to evaluate the potential health risks from VOCs to workers inside the buildings. This air monitoring was conducted on February 28 and March 14, 2002. On February 28, 2002, ENVIRON placed nine Summa canisters, with flow controllers, at the Property (see Figure 5). The sample locations included three on the ground floor of Building A, three on the ground floor of Building B, one on the ground floor of Building C, one at the exterior of Building C, and one on the ground floor of Building D. The sample located exterior to Building C malfunctioned, and the canister was not full after 8 hours, therefore, VOC detection limits for this sample were elevated. This sample was recollected on March 14, 2002. In all cases, the canisters were retrieved after approximately eight hours , and submitted to Performance Analytical Inc. Air Quality Laboratory (Performance) under chain-of-custody protocol for VOC analysis using EPA Method TO-15. Air samples were analyzed on an expedited turnaround.

Based on the analytical results, the following 12 compounds were detected at various concentrations in Buildings A, B, C, and/or D: acetone, benzene, chloromethane, methylene chloride, 2-butanone, o-xylene, ethylbenzene, 4-methyl-2-pentanone, toluene, tetrachloroethene, methyl-t-butyl ether (MTBE), and p/m-xylene. Tables summarizing sampling results, and the laboratory data report are

included in Appendix E. Using these data, ENVIRON calculated the average indoor concentration for each detected analyte, according to the building in which the samples were retrieved. The three samples obtained in Building A were retrieved in office working areas where employees could be expected to work an entire 8-hour day. The average compound concentration of each detected analyte in the three samples was calculated and assumed to be representative of the compounds' concentrations in Building A. Similarly, the average compound concentration of each detected analyte in the three samples obtained in Building B (office working areas) were assumed to be representative of the compound concentrations in Building B. In Building C, the representative compound concentrations were assumed to be the values obtained from the one indoor sample (C1) located in the building's front lobby. For the sole sample obtained from Building D, the concentrations observed from the sampling result were considered to be representative of average concentrations inside the building. Building D was under construction at the time of the sampling.

The average concentration of each detected VOC was compared to the 8-hr time-weighted-average (TWA) Permissible Exposure Level (PEL) specified by OSHA and/or the OSHA Limit for Air Concentrations specified in 29 CFR 1910.1000 Tables Z-1 and Z-2. For all 12 compounds in all four buildings, the representative concentrations were well below the OSHA thresholds.

To evaluate compliance with California Proposition 65 requirements, the 12 chemicals detected inside the buildings were compared with the Proposition 65 list of applicable chemicals for either developmental or carcinogenic effects listing. Two compounds were identified on the developmental effects listing: chloromethane and toluene. Three compounds were identified on the carcinogenic effects listing: benzene, methylene chloride, and tetrachloroethene.

Certain interpretations of Proposition 65 exposure thresholds employ a daily intake limitation, therefore as a conservative measure, daily human intake values were calculated as exposure through the inhalation pathway using the average concentration for each Proposition 65 listed VOC. The daily intake amount was calculated by multiplying the compound concentration by the amount of air an exposed human would breathe during the 8-hour exposure period (i.e., 10 cubic meters). The California Office of Environmental Health Hazard Assessment (OEHHA) has established the maximum allowable daily limit (MADL) for each compound with developmental effects and the no significant risk level (NSRL) for each listed carcinogenic compound. The MADL and NSRL are specified in the Proposition 65 Status Report, dated February 2001. The results of ENVIRON's evaluation are presented in Appendix E. The representative toluene concentrations were found to be less than the established MADL. As such, no further evaluation for toluene was necessary. The MADL for chloromethane has not yet been established and, therefore, the compound could not be evaluated. The representative methylene chloride concentrations were less than the established

NSRL. As such, no further evaluation for methylene chloride was necessary. The representative concentrations for benzene and tetrachloroethene were greater than the NSRLs in all four buildings. Therefore, the incremental lifetime cancer risks for benzene and tetrachloroethene were calculated for each building.

To conduct these calculations, ENVIRON used guidance provided by OEHHA, which calculates risk as the average chronic daily dose multiplied by the established cancer slope factor. A few conservative assumptions are utilized in the equation for calculating the average chronic daily dose, such as exposure duration, average body weight, and inhalation rate. For this evaluation, the average exposure duration was assumed to be 20.9 years of exposure in Buildings A, B, and C, using US EPA exposure factors. Since Building D was under construction, exposure duration of 2 years was assumed for a construction worker. As shown in data tables included in Appendix E, an exposure scenario was generated for each building, assuming an 8-hour day for 250 days per year for the exposure period, a daily exposure breathing volume of 10 cubic meters, and the average compound concentration for each building. In all scenarios, the calculated incremental cancer risks were below 1 in 100,000 (i.e., 1.0 E-05). Given these exposure scenarios, Proposition 65 requirements are not applicable for benzene and tetrachlorothene inside the buildings.

3.3 Historical Review

To evaluate the historical uses of the Property, ENVIRON reviewed topographic maps (dated 1903, 1947, and 1967), historic aerial photographs (dated 1928, 1952, 1965, 1976, 1989, and 1994), and city directories (dated 1920 to 2000). Sanborn maps were also requested from EDR. EDR indicated that Sanborn maps were not available for the Property. ENVIRON also conducted an interview with Ms. Samaniego, the current Property manager, and reviewed numerous reports pertaining to the Property. The results of ENVIRON's historical review are presented below.

3.3.1 Historical Operations Interview

During the site visit, ENVIRON interviewed Ms. Samaniego regarding the history of the Property. Ms. Samaniego indicated that the Property was previously owned and occupied by Hughes, then later owned by Coast Federal Savings. The Property is currently owned by West Hills Corporate Village/Shamrock. As discussed previously, Ms. Samaniego indicated that Buildings A through C had been completely remodeled during 1999-2000 and all interior building materials, with the exception of concrete floors and framing, had been removed. Ms. Samaniego also indicated that Building D was constructed in 2000. According to Ms. Samaniego, tenants occupying the Property buildings since the time of the remodeling have

used the spaces for offices, and no manufacturing or chemical use are conducted at the Property.

Ms. Samaniego indicated that additional soil borings had been drilled in the northern portion of the Property during the past month, and that she has been told that the current remediation activities will be completed within approximately the next two years.

3.3.2 Chronological Summary of Historical Topographic Maps, Aerial Photographs, and City Directories

- The 1903 topographic map depicts the Property and surrounding areas as vacant, undeveloped land. The roads currently adjacent to the Property and the reservoir are not shown on this map. The vicinity is depicted as primarily undeveloped land.

- The Property address of 8501 Fallbrook Avenue was not listed in the city directories dated from 1920 to 2000. The surrounding site addresses were not listed in the city directories dated from 1920 to 1961.

- In the 1928 aerial photographs, the Property and adjacent area appear to be agricultural land. Unpaved roads are visible to the east and south of the Property. The vicinity is primarily agricultural land.

- The 1947 topographic map shows the Property as vacant, undeveloped land. Fallbrook Avenue is depicted as an unpaved road adjacent to the east of the Property. Several residential-type structures are shown beyond this road to the east. The Chatsworth Reservoir is depicted to the north of the Property, and vacant, undeveloped land is shown to the west and south. Roscoe Boulevard is depicted further south. The Property vicinity land use is shown as a mixture of agriculture, undeveloped land, and scattered residences.

- In the 1952 aerial photograph, the Property appears to be agricultural land. An unpaved road is located adjacent to the north and west of the Property, and Fallbrook Avenue is visible to the east. Undeveloped land and a small lake are visible to the west of the Property. The Chatsworth Reservoir is located to the north of the Property, north of the unpaved road. Several small structures, which are likely related to the apparent agricultural activities, are located to the south and southeast of

the Property. The remainder of the land to the south of the Property and the vicinity also appears to be used for agricultural purposes.

- Residences are listed in the 1962 city directory for surrounding sites. Surrounding site addresses were not listed in the city directories dated from 1963 to 1969.

- Three of the current Property buildings are visible in the 1965 aerial photograph. Associated paved parking areas are discernable to the east and west of the buildings. Additional commercial structures and parking areas (which appear to be part of the same complex as the Property) are located to the south. A small commercial structure and an apparent residential development are visible to the east of the Property, beyond Fallbrook Avenue. Undeveloped land and a small lake are visible to the west of the Property. Other than the large structures observed south of the Property, the vicinity appears to have been primarily developed for residential uses.

- Three structures are depicted on the 1967 topographic map at the Property. The structures correspond to the current buildings (Buildings A and C). An unnamed road, then the Chatsworth Reservoir, is shown to the north of the Property. Fallbrook Avenue is depicted to the east of the Property, with several small structures, one larger commercial structure and a residential development shown further east. Undeveloped land and Lees Lake are to the west of the Property, with a residential development further west. The vicinity is primarily residential, with scattered areas of agricultural use.

- In the 1970 city directory, the neighboring site address of 8500 Fallbrook Avenue was listed as North American Rockwell and "Rocketdyne/A Division of North America."

- The surrounding site addresses are not listed in the 1971 to 1990 city directories.

- No major changes were noted in the 1976 aerial photograph from the 1965 photograph, with the exception of a residential development to the west of the Property, surrounding the small lake. The Property and vicinity appear to have changed from the 1976 to the 1989 aerial photograph..

- Residences were listed in the 1991 and 1995 city directories for neighboring sites. Surrounding site addresses were not listed in the 2000 city directory.

- The 1994 aerial photograph shows the Property as it is currently developed. The adjacent areas and vicinity appear similar to the 1989 photograph.

3.3.3 Previous Reports Review

ENVIRON reviewed numerous prior reports that included information regarding historical uses of, and activities conducted at, the Property. A detailed summary of each report/letter reviewed by ENVIRON is presented in Appendix D.

3.3.4 Summary of Historical Reviews

Based on available historical aerial photographs and topographic maps, the Property and vicinity appear to have been used for agricultural purposes from the early 1900s to the late 1950s. The first structures were built at the Property in 1959 and were used by several occupants. The historical documents reviewed did not provide details of the operations conducted at the Property from 1959 to 1966. Hughes first occupied the Property in 1966 and was the sole occupant of the Site from 1976 to 1994.

Hughes operations were mainly related to aerospace research and development programs. Six buildings were located at the Property (Buildings 262, 268, 269, 270, 272, and 282); activities conducted in these buildings included solvent cleaning, painting, coating, lubricating, etching, degreasing, soldering, as well as laboratory and garage/repair shop operations. The Property buildings were damaged during the 1994 Northridge earthquake, and it appears from review of various documents, that the buildings were then vacated due to this damage. In November 1995, the Hughes facility, including the Property and adjacent areas to the south, were purchased by Coast Federal Bank. The Property was then sold to Regent Properties, Inc. (Regent) in 1997. During 1997 and/or 1998, Buildings 269, 272, and 282 were demolished. Shamrock later purchased Regent, and the Property is currently owned by West Hills Corporate Village/Shamrock. Only Buildings 262, 268, and 270 remain from the original buildings.

A hazardous waste storage shed also was located at the northern boundary of the Property. Eight USTs were located at the Property (Tanks T-1 to T-4, T-12 to T-14, and T-17). Most of these tanks have been removed; tank T-4 was abandoned in-place; and, according to McLaren/Hart tank T-14 actually was an aboveground storage tank. Soils in the vicinity of these tanks reportedly were impacted by VOCs. The local regulatory agency has not issued closure letters for the USTs.

Two clarifiers were present immediately east of Building 269 (which has been demolished). Soil and ground water investigations have been conducted in the areas surrounding the clarifiers; however, it appears that the clarifiers were backfilled and capped in-place (it is not clear whether they were subsequently removed). A clarifier reportedly also was located in or immediately north of Building 268; according to McLaren/Hart, this clarifier was located on the second floor of the building and received only photographic laboratory effluent. A system of pits and trenches were also located in Building 268. Soil samples in this area showed no detectable contamination; therefore, the pits and trenches were backfilled with sand or slurry and covered with a concrete cap. A large cooling pond reportedly was located between Buildings 268 and 269.

Based on information contained in the Order issued by the LARWQCB in December 1994, in 1985 Hughes discovered that soil and ground water at the Site were impacted with VOCs. Since then, numerous investigations have been conducted to delineate the nature and extent of these impacts. Three areas of the Site are known to be contaminated: (1) Northwestern corner from Building 269 to western edge of the Site (northwestern part of the Property); (2) area of monitoring well CM-8D (outside the Property to the south); and (3) area of monitoring well CM-10 (outside the Property to the south).

In 1990, Hughes and the DTSC entered into a consent agreement whereby Hughes would comply with LARWQCB requirements for the ground water remediation and monitoring at the Site. A CAP was prepared in 1992, and amended in 1994. In 1995, DTSC and the LARWQCB agreed to include the Site on the SB1082 list. It appears that the LARWQCB has provided oversight for the soil and ground water remediation at the Site, while DTSC is the lead agency for RCRA closure at the Site. Two RCRA permitted facilities were located at the Property: Tank T-3 and the HWSA. In a 1995 memorandum, DTSC outlined seven AOCs at the Property: Buildings 272/282, portions of Building 262, Building 268, Building 269, Building 270, Tank T-12, and Tanks T-14/T-16. In addition, several SWMUs were identified at the Property. ENVIRON has not been able to find one document that details all the SWMUs, but based on available records, the following were identified: SWMU#1 at Building 272, SWMU#2 at Building 282, SWMU#3 at Building 269 P-1 and P-2, and SWMU#6 at Tanks T-1/T-2 and associated pump area.

Correspondence from DTSC indicates that the agency has not been fully satisfied with the investigations of the AOCs, the closure of the SWMUs, or post closure of the HWMU. In a letter dated March 12, 1999, DTSC indicated that Raytheon's (Raytheon purchased Hughes

in 1997) approach thus far of investigating small portions of the Facility and submitting such data to DTSC for closure of SWMUs or AOCs was not adequate. DTSC was requiring a RCRA Facility Investigation Workplan, which summarized all SWMUs, AOCs, and HWMUs identified at the Facility and investigations and corrective actions conducted to date. DTSC would then work with Raytheon to prioritize these areas. However, since Raytheon had elected to stop its fee-for-service agreement with DTSC, DTSC staff could not perform significant work on the corrective action activities. DTSC further indicated that Raytheon was in violation of requirements to submit post-closure permit application for Tank T-3.

As previously mentioned, the Property is undergoing remediation. The remediation system includes a ground water recovery system consisting of 17 recovery wells (first started in February 1995 and fully operational since March 1995); the treated effluent is reused for on-site irrigation purposes. An SVE system, which has operated since August 1995, included 54 manifolded extraction wells. The air sparging system operated since March 1996 and consisted of 30 manifolded wells, which are connected to an air compressor. A dual-phase treatment system was tested at the Property in 1999, but has not been fully implemented. Since late 1999, the SVE and air sparging wells have not been in operation. Moreover, as of December 2000, only ten recovery wells have been connected to the treatment system at the Property.

In a letter dated October 12, 1995, the DTSC indicated that initially soil and ground water cleanup standards were established for the Site (1992 CAP) based on the lowest numbers produced from a health risk assessment, background measurement, or MCLs. Based on ENVIRON's review of available documents, the ground water cleanup goals appeared to be 10 times greater than the MCL, and soil cleanup goals were established for total chlorinated VOCs at 100 milligrams per kilogram (mg/kg).

The main chlorinated VOCs detected in soils and ground water at the Property are dichloroethene (DCE), 1,1-dichloroethane (1,1-DCA), 1,2-dichloroethane (1,2-DCA), Tetrachloroethene (PCE), trichloroethane (TCA), and trichloroethene (TCE). In addition, benzene is detected in several wells, and is known to be present in soils near former tanks. Based on the latest available ground water monitoring report (June 2001), DCE, 1,1-DCA, and benzene are still detected in several wells at concentrations exceeding the CAP cleanup goals; however, in general VOCs concentrations have been declining in the monitored wells, which shows progress towards Site cleanup.

During the demolition of the HWSA in June 1998, hexavalent chromium contamination was encountered in soils in this area. At that time, Fluor Daniel/Groundwater Technology, Inc. (FD/GTI) did not recommend any additional subsurface investigation or soil removal because the hexavalent chromium contaminated soils were encountered at minimal depths of 5 to 13 feet bgs. Furthermore, FD/GTI indicated that future grading in this area would raise the ground surface by approximately 5 feet. Therefore, FD/GTI did not believe that the hexavalent chromium encountered in the soils would pose a health threat. FD/GTI recommended sampling monitoring wells located up- and down-gradient of the former HWSA for hexavalent chromium on a quarterly basis for a period of one year to evaluate whether the impacted soils would result in impact to ground water. In its March 1999 letter, the DTSC indicated that Raytheon's plan to keep hexavalent chromium contaminated soils in-place and monitor the ground water in this area was not acceptable.

In 1999, hexavalent chromium was detected in three ground water samples collected from Well RW-15, with concentrations ranging from 0.083 to 0.1 milligrams per liter (mg/L). RW-15 is located adjacent to the former HWSA. RW-15 was disconnected from the remediation system and the LARWQCB and DTSC were notified. Seven ground water monitoring wells were installed in proximity to the HWSA in June of 2000, and monitoring for the presence of hexavalent chromium. Sampling results indicated that the MCL for hexavalent chromium, currently 50 micrograms per liter (µg/l), was exceeded at two monitoring wells (MW-32S and MW-32D), both located within the footprint of the former HWSA. It should be noted that the California Environmental Protection Agency Office of Environmental Health Hazard Assessment (OEHHA) is reviewing the public health goal (PHG) and drinking water standard for hexavalent chromium, and the standards may be decreased in 2003.

3.4 Regulatory Review

To assess the potential for soil and/or ground water contamination at the Property due to on- and off-site sources, ENVIRON conducted a review of federal and state regulatory agency database lists of environmentally impacted sites. Sites from the searched databases are summarized in Table 1 in Section 3.4.3.

3.4.1 Geologic and Hydrogeologic Setting

In the evaluation of the potential for environmental problems from other sites to impact the Property, one must consider the possibility that ground water could transport contamination from sites in the vicinity to the Property. Therefore, the depth and flow direction of ground

water are important. To evaluate the possibility of migration of contaminants from other sites onto the Property, this section presents a discussion regarding the geologic and hydrogeologic setting of the Property.

The geologic and hydrogeologic setting at the Property presented below is generated from a review of numerous previous reports. The Property overlies consolidated bedrock of the Miocene Modelo Formation, over the Lower Miocene-aged Topanga Formations. The Modelo Formation consists of siltstone, clayey siltstone and shale with minor interbedded diatomaceous shale. Soils at the Property and vicinity are comprised of Cenozoic-aged Basin fill, which consists of flat-lying, poorly sorted unconsolidated sands, silts, and clays, with some gravels. A layer of construction fill lies above the native soils.

Shallow ground water is encountered at the Property at depth of 15 to 50 feet bgs. Ground water flow direction across the Property is generally to the south and southeast, however the flow is to the southwest in the northwestern portion of the Property (influenced by the remediation system).

3.4.2 Regulatory Agency File Review

ENVIRON requested, through Environmental Support Services of Santa Ana, California (ESS), information regarding the Property address of 8501 Fallbrook Avenue from the Los Angeles County Environmental Health Department, City of Canoga Park Fire Department, and the City of Canoga Park Building Department. According to ESS, the Health Department and Fire Department did not have files for this address. The Building Department files included a demolition permit for Building 269 (previously located on the Property, adjacent to Building 270, currently Building C). The permit was issued in October 1997 to Coast Federal Bank.

ESS also requested information from the above agencies for the former Property address of 8433 Fallbrook Avenue. ESS has not provided ENVIRON with this information as of the date of this report.

ENVIRON also reviewed available files pertaining to the Property, at the LARWQCB. ENVIRON reviewed available reports for the Property provided by Trammel Crow and Insignia. These documents are summarized in Appendix D.

3.4.3 Regulatory Agency Databases

EDR conducted an environmental regulatory agency database search of sites located within the ASTM radii from the Property. The EDR report is presented in Appendix B. Findings of the database search for sites within the search radii required by ASTM are presented in this section.

The EDR report indicated there was poor or inadequate address information for several sites located in the vicinity of the Property; therefore, these sites could not be mapped by EDR. Because the location of these sites with respect to the Property could not be evaluated, ENVIRON is limited in its ability to express an opinion regarding the potential for impact to the Property from these sites. However, ENVIRON reviewed the list of unmappable sites and could not identify sites located adjacent to the Property that were listed as environmentally impaired.

In this section, only facilities that were listed on databases of environmentally impaired sites, and that are located in the immediate vicinity of the Property or are located upgradient (but are not necessarily located near the Property) are discussed. These facilities were selected based on the assumption that a hazardous material released to the subsurface generally does not migrate laterally within the unsaturated soil for a significant distance, but a hazardous material can migrate in the ground water in a generally downgradient direction; however, there are limitations to this interpretation. A list of these facilities is presented in Table 1.

TABLE 1

Regulatory Data Base Search Results

Site	Location Relative to Property	Data Base(s) Listings	Regulatory Status/ Comments
LA City Fire Station #106 23004 Roscoe Boulevard	Approximately 1/6 mile southwest	LUST RCRIS FINDS HAZNET	This facility is listed as having had a tank release, which occurred during repair and impacted soils. No action reportedly has been taken by the responsible party. This facility is also reported to be a small quantity generator of hazardous waste, with wastes listed as unspecified aqueous solution, unspecified oil-containing waste, asbestos-containing waste, and tank bottom waste.
Missile Systems Group/Hughes	Former Property and	HIST UST FINDS	Facility is listed as having had 14 USTs, which stored gasoline, waste, and other

TABLE 1

Regulatory Data Base Search Results

Site	Location Relative to Property	Data Base(s) Listings	Regulatory Status/ Comments
Aircraft Company 8433 Fallbrook Avenue	southern adjacent area	RCRIS RCRIS-TSD CORRACTS CERC-NFRAP Cal-Sites Cortese LUST	substances. A solvents tank release reportedly impacted the ground water. The abatement method for the site is described as excavation and disposal of contaminated soil, and the status is listed as remedial action in progress. The Facility was assigned a low corrective action priority on the CORRACTS database, and has a status of "no further remedial action planned on the CERCLIS database." The Cal-Sites listing indicates that DTSC action is not required, and the case has been referred to a RCRA lead. The Facility is a large quantity generator of hazardous waste and a TSD facility. Violations are reported as "TSD-other requirements," "TSD-closure/post closure requirements," and "TSD-financial responsibility requirements."
Hughes Aircraft Company/Missile Systems group 8433 Fallbrook Avenue	Former Property and southern adjacent area	CA FID UST HIST UST	This facility is listed as an inactive UST location, that had three waste USTs installed in 1981.

The former occupant of the Property, Hughes, is identified on several databases. These listings appear to include the former Hughes facility at the Property and southern adjacent area. As discussed in Section 3.3.3 and 3.3.4, remediation activities currently are being conducted at the Property.

Listings on the UST, RCRIS, HAZNET, ERNS, or FINDS databases are not necessarily indicative of environmental impairment at a facility, therefore facilities listed on those databases are not included in the table above. As indicated above, there is one LUST listing identified as being located in proximity of the Property. However, this facility is located downgradient of the Property, and therefore, is not expected to have adversely impacted the Property.

3.4.4 Munger Map Book

According to the 2001 Munger Map Book of California and Alaska Oil and Gas Fields, oil or gas wells are not located, and were not previously located, on or within ½ mile of the Property.

3.4.5 Radon

Based on radon information included in the EDR database report, the Property is located in an area noted as Zone 2. Zone 2 has average indoor radon levels of greater than 2 pico Curies per liter (pCi/L) and less than 4 pCi/L. The continuous exposure limit established by the EPA is 4.0 pCi/L, which is the limit at which further testing or remedial action is indicated.

The radon survey results listed in the EDR report cannot predict the radon exposure level measurement in any existing or future buildings at the Property. The only way to determine the amount of radon present in a particular structure is to conduct a radon survey in that structure. However, the results detected in the survey are indicative of similar results that could be expected from a survey conducted at other locations and at other times within this same region, which includes the Property.

4.0 LIMITATIONS

This Assessment has been prepared exclusively for use by AMLGM and MEPT and may not be relied upon by any other person or entity without ENVIRON's express written permission. The conclusions presented in this report represent ENVIRON's professional judgment based upon the information available to us and conditions existing as of the date of the Assessment, and are true and correct to the best of ENVIRON's knowledge as of the date of the Assessment. Future conditions may differ from those described herein and this report is not intended for use in future evaluations of the Property. In performing its assignment, ENVIRON must rely upon publicly available information, information provided by the client, and information provided by third parties. Accordingly, the conclusions in the report are valid only to the extent that the information provided to ENVIRON was accurate and complete. ENVIRON does not make any warranties or representations, whether expressed or implied, regarding the accuracy of such information, and shall not be held accountable or responsible in the event that any such inaccuracies are present.

This report is not intended as a substitute for legal advice. Nor is it an exhaustive review of site conditions. ENVIRON makes no representations or warranties about the condition of the Property.

ENVIRON performed the activities cited herein in conformance with the ASTM Practice E 1527-00 for Phase I environmental site assessments. The work was conducted objectively in accordance with generally accepted professional practice standards for this type of work. ENVIRON's scope of work for this assignment did not include collecting samples of any environmental media. As such, this Assessment cannot rule out the existence of latent conditions, and is intended, consistent with normal standards of practice and care, to assist the client in identifying the risks of such conditions.

5.0 REFERENCES

United States Geological Survey (USGS). Canoga Park, California Quadrangle 7.5-minute quadrangle, scale 1:24,000, 1967.

Calscience Engineering & Laboratories. 1988. *Supplemental Information IRT Excavation Pits T-3 and T-13*. July 12.

McLaren Hart. 1989. *Table 1, Underground Tank Inventory.*

McLaren Hart. 1989. *Potential Source Area Investigation Report for The Hughes Missile Systems Group, Canoga Park, California.* November 30.

McLaren Hart. 1991. *Radioisotope Review and Comparison for the Hughes Missile Systems Group Facility, Canoga Park, California.* July 30.

Hughes Missile Systems Group. 1991. *Fire/Life Safety Violation No. 49456.* December 2.

Groundwater Resources Consultants, Inc. 1992. *Investigation of Radioactivity in Groundwater at The Hughes Aircraft Company, Canoga Park Facility, Canoga Park, California.* January 23.

Groundwater Technology, Inc. 1992. *Feasibility Study for Groundwater Remediation, Hughes Aircraft Company Missile System Group Facility, Canoga Park, California.* February 14.

Groundwater Resources Consultants, Inc. 1992. *Results of Radiological Sampling of Monitor Wells December 1991, Hughes Missile Systems Group Canoga Park Facility, Canoga Park, California.* March 27.

Department of Toxic Substances Control. 1992. *Supporting Documentation for the Radioactive Materials Investigation at Hughes Aircraft Company-MSG-CP Required by the RWQCB.* May.

Hughes Missile Systems Group. 1992. *Tabulated Radiological Results from the Groundwater Monitoring Project at Hughes Aircraft Missile Systems Group.* June 18.

Department of Toxic Substances Control. 1992. *Use of Waste Discharge Requirements for Establishing Closure Standards at the Former Hughes Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park, CA.* October 12.

Groundwater Technology, Inc. 1993. *Phase I Environmental Report: Areas of Potential Chemical Release to Soil and Groundwater, Hughes Missile Systems Company, Canoga Park, California.* December 28.

Groundwater Technology, Inc. 1994. *Report on Facility-Wide Site Assessment, Hughes Missile Systems Company, Canoga Park, California.* January 4.

E and A Environmental Services, Inc. 1994. *Asbestos Sampling and Laboratory Testing Wall and Ceiling Construction Materials in Building 262 and 265 at the Hughes Missile Systems Group Facility in, Canoga Park, California.* February 18.

California Regional Water Quality Control Board. 1994. *Requirements for Active Soil Gas Investigation, Well Investigation Program.* March.

Groundwater Technology, Inc. 1994. *Corrective Action Plan Addendum, Hughes Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park, California.* March 29.

E and A Environmental Services, Inc. 1994. *Asbestos Bulk Sampling at the Hughes Missile Systems Group, Building 270, Canoga Park, California.* April 20.

E and A Environmental Services, Inc. 1994. *Asbestos Bulk Sampling at the Hughes Missile Systems Group, Building 262 and 268, Canoga Park, California.* April 29.

Earth Tech. 1994. *Consultation regarding Property Transfer and Summary of Preliminary Records Review, Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California.* August 30.

CH2M Hill. 1994. *Contingent Closure and Post Closure Plans, Hughes Aircraft Company, Missile Systems Group, Canoga Park Facility.* November 21.

Earth Tech. 1994. *Technical Memorandum Records Review and Limited Site Investigation, Hughes Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park, California.* November 28.

Earth Tech. 1994. *Opinion Costs for removal of Asbestos Containing Marterials (ACMs) at 8433 Fallbrook, Building # 268, Canoga Park, California.* December 6.

California Regional Water Quality Control Board. 1994. *Waste discharge requirements for Hughes Missile Systems Company.* December 14.

Department of Toxic Substances Control. 1995. *Proposed Negative Declaration for Hughes Missile Systems, Canoga Park Facility Closure Plan.* January.

Department of Toxic Substances Control. 1995. *Areas of Concern for Hughes Missile Systems Group, Canoga Park Facility.* January 21.

Environmental Support Technologies, Inc. 1995. *Multi-Depth Soil Gas Survey Report, Former Hughes Missile Systems Facility, Canoga Park, California.* July 6.

Groundwater Technology, Inc. 1995. *Report on Soil Gas Surveying Former Hughes Missile Systems Company Site, Canoga Park, California.* August 1.

Environmental Support Technologies, Inc. 1995. *Phase 2 Soil Gas Survey Report, Former Hughes Missile Systems Facility, Canoga Park, California.* September 15.

Groundwater Resources Consultants, Inc. 1995. *Additional Soil Gas Surveying, Area 5, Former Hughes Missile Systems Facility, Canoga Park, California.* September 21.

Groundwater Resources Consultants, Inc. 1996. *Quarterly Groundwater Monitoring Report Fourth Quarter 1995, Hughes Missile Systems Company, Canoga Park, California.* January 10.

California Regional Water Quality Control Board. 1996. *Lead Agency Confirmation – Hughes Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park.* January 30.

Groundwater Technology, Inc. 1996. *Groundwater Monitoring Quarterly Report, January-March 1996, Hughes Missile Systems Company, Canoga Park, California.* March 27.

Department of Toxic Substances Control. 1996. *Negative Declaration Approval.* August 6.

Department of Toxic Substances Control. 1996. *Response to Comments on the Modified Closure Plan and The Proposed Negative Declaration for Hughes Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park, CA.* August 6.

Fluor Daniel GTI. 1996. *Request to Change Monitoring & Sampling Requirements for Waste Discharge Requirements Order No. 95-012, Hughes Missile Systems Company, Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California.* September 17.

Fluor Daniel GTI. 1997. *Operation and Maintenance Program, Former Hughes Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park.* February 25.

Coast Federal Bank. 1997. *Tract Map No. 7115.* June 20.

Allwest Geoscience, Inc. 1997. *Environmental Sampling and Testing Under Floor Slabs and Clarifiers, Former Hughes Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park, Los Angeles County, California.* June 27.

Fluor Daniel GTI. 1997. *Groundwater and Remediation System Monitoring Quarterly Report April-June 1997, Hughes Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park, California.* July 9.

Allwest Geoscience Inc. 1997. *Summary Review of Environmental Documents, Former Hughes Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park, California.* July 10.

Environmental Inc. 1997. *Regent Properties, Coast Federal Bank Facility, Buildings 262, 268, 269, 270, 272, and 282, Woodland Hills, Ca.* July.

Environmental Inc. 1997. *Asbestos Inspection report, Coast Federal Bank Facility, NWC Fallbrook Ave. and Roscoe Blvd. Buildings 262, 268, 269, 270, 272, and 282, West Hills, Ca.* August 6.

California Environmental Protection Agency. 1997. *Request to change Monitoring and Sampling Requirements for Waste Discharge Requirements Order No. 95-012, Hughes Missile Systems Company-8433 Fallbrook Avenue, Canoga Park.* August 21.

California Environmental Protection Agency. 1997. *Solid Waste Management Units, Areas of Concern, and Closure of Hazardous Waste Management Units, Hughes Missile Systems Company Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California.* November 14.

California Environmental Protection Agency. 1997. *Spills, Leaks, Investigations and Cleanup Oversight Cost Reimbursement Account —Former Hughes Missile Systems Company – 8433 Fallbrook Avenue, Canoga Park, CA.* December 19.

California Environmental Protection Agency. 1998. *Corrective Action (Solid Waste Management Units and Areas of Concern), Hughes Missile Systems Company, Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California.* January 9.

DTSC. 1998. *Hughes Missile System Company, Canoga Park, Summary Data.* February 6.

Fluor Daniel GTI. 1998. *Groundwater and Remediation System Monitoring October-December 1997 Quarterly Report and 1997 Annual Report, Raytheon Missile Systems Company Former Hughes Facility, 8433 Fallbrook Avenue, Canoga Park, California.* February 20.

Raytheon Systems Company. 1998. *Meeting Follow-up, and Transmittal of Hazardous Waste Storage Area Clean Closure Workplan and Additional Information Regarding Former Raytheon Missile Systems Company (formerly known as Hughes Missile Systems Company) Facility in Canoga Park, 8433 Fallbrook Avenue, California.* March 11.

Raytheon Systems Company. 1998. *Cost Reimbursement Account for Former Raytheon Missile Systems Company (RMSC, formerly known as Hughes Missile Systems Company) Canoga Park Facility; 8433 Fallbrook Avenue, Canoga Park, CA.* March 31.

J and H Environmental. 1998. *Regent Properties, Bldg. # 268, Coast Federal Bank Facility, West Hills CA. Asbestos Abatement Observation Report.* April .

Fluor Daniel GTI. 1998. *Quarterly Remediation System and Groundwater Monitoring Report, First Quarter (January-March) 1998, Former Raytheon Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park, California.* April 15.

Raytheon Systems Company. 1998. *Abandonment and Replacement of Groundwater Monitoring Well CM-11 Former Hughes Missile Systems Company Facility, 8433 Fallbrook, Canoga Park, California.* April 28.

Raytheon Systems Company. 1998. *Request for Modification of the Waste Discharge Requirements Permit for the Groundwater Remediation System at the Former Hughes Missile Systems Company (HMSC) Site Located in, Canoga Park, California.* May 8.

Fluor Daniel GTI. 1998. *April 1998 Status Summary for the Groundwater Recovery and Soil Vapor Extraction/Air Sparge Systems, Former Hughes Missile Systems Company Site, 8433 Fallbrook Avenue, Canoga Park, California.* May 15.

Department of Toxic Substances Control. 1998. *Post-Closure Permit Application Requirement: Raytheon (Formerly Hughes) Missile Systems Company, Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* May 19.

Raytheon Systems Company. 1998. *Response to DTSC Letter of 19 May 1998 Requiring Post-Closure Permit Application for Raytheon Missile Systems Company, Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* June 12.

California Environmental Protection Agency. 1998. *Resource Conservation and Recovery Act (RCRA) Closure/Post-Closure and Corrective Action at the Raytheon (Formerly Hughes) Missile Systems Company Former Canoga Park Facility, 8433 Fallbrook Ave., Canoga Park, CA.* June 18.

California Environmental Protection Agency. 1998. *Conditional Approval of A Class I Permit Modification-Ownership and Facility Name Change At Hughes Aircraft Company, Electro-Optical Systems (Hughes-EOS) Hazardous Waste Storage Facility.* June 30.

California Regional Water Quality Control Board. 1998. *Abandonment and Replacement of Groundwater Monitoring Well CM-11, Former Hughes Missile Systems Company Facility, 8433 Fallbrook, Canoga Park, California.* July 2.

Raytheon Systems Company. 1998. *Response to DTSC Comments on Hazardous Waste Storage Area Closure Workplan; Raytheon (Formerly Hughes) Missile Systems Company.* July 2.

Raytheon Systems Company. 1998. *Follow-on Sampling and Analysis Plan for the Hazardous Waste Storage Area; Raytheon (Formerly Hughes) Missile Systems Company, Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* August 26.

Raytheon Systems Company. 1998. *Request for Modification of the Waste Discharge Requirements Permit for the Groundwater Remediation System at the Raytheon Missile Systems Company (RMSC) Site Located in Canoga Park, California.* August 27.

Fluor Daniel GTI. 1998. *Additional Site Assessment Report, Vicinity of CM-10 and Buildings 265, 274, and 276, Former Raytheon Missile Systems Company Facility, 8433 Fallbrook, Canoga Park, California.* September 2.

Fluor Daniel GTI. 1998. *Additional Site Assessment Report Sampling and Analysis for Vicinity of CM-10 and Parking Area adjacent to Buildings 265, 274, Former Raytheon Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park, California.* September 3.

Raytheon Systems Company. 1998. *Report of Additional Site Assessment in Vicinity of CM-10 and Parking Area Adjacent to Buildings 265, 274, and 276 at Raytheon Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California.* September 8.

Raytheon Systems Company. 1998. *Follow-on Sampling and Analysis Plan for the Hazardous Waste Storage Area; Raytheon (Formerly Hughes) Missile Systems Company, Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* September 14.

Errol L. Montgomery & Associates, Inc. 1998. *Plan for Modification of Remediation Systmes Former Hughes Missile Systems Company Facility, 8433 Fallbrook Avenue, Canoga Park, California.* September 16.

Raytheon Systems Company. 1998. *Modification of Remediation System at former Hughes Missile Systems Company Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* September 18.

Upper Los Angeles River Area Watermaster. 1998. *Modification to the Waste Discharge Requirement (WDR) For the Groundwater Remediation System at the Hughes Missile Systems Company, Canoga Park, California.* September 23.

Fluor Daniel GTI. 1998. *Summary Report of Supplemental Sampling and Analysis Performed at the Locations of Former Buildings 269, 272, and 282, Former Raytheon Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park, California.* September 23.

Raytheon Systems Company. 1998. *Comments on Hazardous Waste Storage Area Follow-on Sampling and Analysis Workplan for Former Raytheon Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* September 28.

Raytheon Systems Company. 1998. *Summary Report of Supplemental Sampling and Analysis Performed at the Locations of Former Buildings 269, 272, 282; Raytheon Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California.* October 5.

Fluor Daniel GTI. 1998. *Quarterly Remediation System and Groundwater Monitoring Report, Third Quarter (July-September) 1998, Raytheon (Formerly Hughes) Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park.* October 15.

Fluor Daniel GTI. 1998. *Results of Fallow-on Sampling and Analysis, Conducted September 21, 1998, Hazardous Waste Storage Area.* October 30.

State Water Resources Control Board. 1998. *Rejection of Request for Addition of the Hughes Missile System Company Site to the SLIC Cost Recovery Program.* November 3.

Raytheon Systems Company. 1998. *Results of Follow-on Sampling and Analysis at Former Hazardous Waste Storage Area, September 21, 1998, Raytheon Missile Systems Company, Canoga Park, CA.* November 3.

Raytheon Systems Company. 1998. *Administrative Progress in Close-out of Raytheon Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California.* November 23.

Raytheon Systems Company. 1998. *DTSC Review of Hazardous Waste Storage Area Closure Workplan, Comments, and Responses; DTSC Letter dated 29 October 1998; Raytheon*

Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California. November 23.

Raytheon Systems Company. 1998. *Redevelopment Activities at Canoga Park Site.* December 22.

Allwest Geoscience, Inc. 1999. *Smmary Review of Environmental Documents and Potential Environmental Impacts, Building A (Former Building 262), Wests Hills Corporate Village, 8501 Fallbrook Avenue, Canoga Park, California.* January 15.

Raytheon Systems Company. 1999. *Merger and Name Change for Raytheon Missile Systems Company; Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* January 18.

California Regional Water Quality Control Board. 1999. *Modification of Remediation System at Former Hughes Missile Systems Company Facility (FHMSC) – 8433 Fallbrook Avenue, Canoga Park.* January 20.

Department of Toxic Substances Control. 1999. *Redevelopment Activities: Raytheon (Formerly Hughes) Missile Systems Company, Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* January 21.

Raytheon Systems Company. 1999. *Response to Urgent Letter Regarding Redevelopment Activities at Raytheon Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* January 26.

Raytheon Systems Company. 1999. *Sampling and Analysis Plan for Follow-on Investigation, Former Building 269; Former Raytheon Systems Company Facility in Canoga Park, 8433 Fallbrook Avenue, California.* February 2.

IT Corporation. 1999. *Groundwater and Remediation System Monitoring 1998 Fourth Quarter Report October-December and 1998 Annual Summary, Raytheon Missile Systems Company Former Hughes Facility, 8433 Fallbrook Avenue, Canoga Park, California.* February 20.

Department of Toxic Substances Control. 1999. *Sampling and Analysis Plan for Follow-on VOC Investigation, Former Building 269 – Raytheon (Formerly Hughes Missile) Systems*

Company Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA. March 3.

Department of Toxic Substances Control. 1999. *Administrative Progress, Various Issues, Post-Closure Permit Application Requirement: Raytheon (Formerly Hughes Missile) Systems Company Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* March 12.

IT Corporation. 1999. *Confirmation of Extension Requestion for Submittal of Quarterly Groundwater and Remediaton System Monitoring Report Former Raytheon Systems Company Facility, 8433 Fallbrook Avenue, Canoga Park, California.* March 12.

Raytheon Systems Company. 1999. *Response to DTSC's Comments Regarding Alleged Data Gaps and Other Deficiencies in Investigative and Closure Activities at Raytheon Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park CA.* March 25.

IT Corporation. 1999. *Additional Site Assessment Report Sampling and Analysis for Former Building 269 Location, Former Raytheon Systems Company, Canoga Park, California.* April.

Raytheon Systems Company. 1999. *Additional Site Assessment Report; Sampling and Analysis for Former Building 269 Location, Raytheon Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park CA.* April 30.

IT Corporation. 1999. *Quarterly Remediation System and Groundwater Monitoring Report First Quarter (January-March 1999), Former Raytheon Systems Company Canoga Park, California.* May.

California Regional Water Quality Control Board. 1999. *Modification of Remediation System at Former Hughes Missile Systems Company Facility (FHMSC) – 8433 Fallbrook Avenue, Canoga Park.* June 11.

Department of Toxic Substances Control. 1999. *Hazardous Waste Storage Area Closure and Post-Closure Permit Application Requirement: Raytheon (Formerly Hughes Missile) Systems Company, Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* July 22.

IT Corporation. 1999. *Groundwater and Remediation System Monitoring 1999 Forth Quarter October-December and 1999 Annual Report*. August.

Raytheon Systems Company. 1999. *Groundwater Sampling for Hexavalent Chromium, Raytheon System Company, former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* August 17.

Raytheon Systems Company. 1999. *Hazardous Waste Storage Area Closure and Post-Closure Permit Application; Response to DTSC Letter dated 22 July 1999; Raytheon Systems Company former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* August 19.

IT Corporation. 1999. *Groundwater and Remediation System Monitoring 1999 Second Quarter, April through June and 1999 Semiannual Report, January though June. Raytheon Systems Company Former Hughes Facility -8433 Fallbrook Avenue, Canoga Park.* August 20.

Raytheon Systems Company. 1999. *Implementation of Plan for Modification of Remediation Systems Former Raytheon Systems Company Facility, 8433 Fallbrook Avenue, Canoga Park, California.* September 7.

Allwest Geoscience, Inc. 1999. *Planned Office Building D, West Hills Corporate Center, 8501 Fallbrook Avenue, Canoga Park, California.* September 13.

IT Corporation. 1999. *Quarterly Remediation System and Groundwater Monitoring Report Third Quarter (July-September 1999), Raytheon Company, Canoga Park, California.* October.

Allwest Geoscience, Inc. 1999. *Review of Environmental Documents and Environmental Health Concerns Planned Building D, West Hills Corporate Center, 8501 Fallbrook Avenue, Canoga Park, California.* October 20.

Raytheon Systems Company. 1999. *Allwest Sampling at Former Raytheon Canoga Park, Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* October 25.

Department of Toxic Substances Control. 1999. *West Hills Corporate Village (North Parcel Created from Former Hughes Missile Systems, Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California.* October 27.

J and H Environmental, Inc. 1999. *Emergency Asbestos Clean Up, Patch and Repair Report. Westhills Corporate Village, Building 8521.* November 6.

J and H Environmental, Inc. 1999. *Asbestos Inspection Report. West Hills Corporate Village, Buildings 8501 and 8531.* November 15.

IT Corporation. 1999. *Waste Discharge Requirements Renewal Application. Former, Raytheon System Company Facility, 8433 Fallbrook Avenue, Canoga Park, California.* December 2.

Raytheon Systems Company. 1999. *Delineation of Hexavalent Chromium in Groundwater in the Vicinity of the Former Hazardous Waste Storage Area, Raytheon Company, Former Facility (Raytheon), 8433 Fallbrook Avenue, Canoga Park, CA.* December 10.

Raytheon Systems Company. 1999. *Enclosed Data Maps Summarizing Sampling at Raytheon Former Canoga Park, Facility, 8433 Fallbrook Avenue, Canoga Park, California,* December 15.

Raytheon Systems Company. 1999. *Meeting to Resolve Issues Related to Close-Out of Environmental Concerns at Raytheon Former Canoga Park, Facility, 8433 Fallbrook Avenue, Canoga Park, California,* December 16.

Department of Toxic Substances Control. 2000. *Delineation of Hexavalent Chromium in Groundwater in the Vicinity of the Former Hazardous Waste Storage Area, Raytheon (Formerly Hughes Missile) Systems Company, Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* January 7.

Department of Toxic Substances Control. 2000. *DTSC Review of Corrective Action Investigation Submittals, Raytheon (Formerly Hughes Missile) Systems Company, Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* January 12.

Raytheon Systems Company. 2000. *Pilot Test for Treatment of Hexavalent Chromium Produced from well RW-15, Former Raytheon Facility, Canoga Park, CA.* March 20.

Department of Toxic Substances Control. 2000. *Review of Groundwater Investigation Workplan: Delineation of Hexavalent Chromium in Groundwater in the Vicinity of the Former Hazardous Waste Storage Area, and Groundwater Sampling and analysis plan, Raytheon System Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* April 14.

California Regional Water Quality Control Board. 2000. *Pilot Test for Treatment of Hexavalent Chromium Produced from Well RW-15; Former Hughes Missile System Company-8433 Fallbrook Avenue, Canoga Park.* April 20.

Department of Toxic Substances Control. 2000. *Review of Groundwater Investigation Workplan: Delineation of Hexavalent Chromium in Groundwater in the Vicinity of the Former Analysis Plan, Raytheon Systems Company, Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, CA.* May 8.

Raytheon Systems Company. 2000. *Revised Health and Safety Plan (HASP) for Environmental Activities at Raytheon Former Canoga Park Facility-8433 Fallbrook Avenue, Canoga Park, Ca.* May 31.

Allwest Geoscience. 2000. *Environmental Impacts West Hills Corporate Village, 8501 Fallbrook Avenue, Canoga Park, California.* June 14.

California Regional Water Quality Control Board. 2000. *Annual Estimation for Cost Recovery Program-Former Hughes (Raytheon) Missile Systems Company-8433 Fallbrook Avenue, Canoga Park.* June 22.

Raytheon Systems Company. 2000. *Hexavalent Chromium Attenuation Test at Former Raytheon Canoga Park Facility-8433 Fallbrook Avenue, Canoga Park.* June 29

TN& Associates, Inc. 2001. *Semiannual Groundwater Monitoring and Groundwater Remediation System Report January through June 2001.* September 12

TN& Associates, Inc. 2000. *Semiannual Groundwater Monitoring and Groundwater Remediation System Report January through June 2000.* September 15.

TN& Associates, Inc. 2001. *Annual Groundwater Monitoring and Groundwater Remediation System Report January through December 2000.* January 29.

California Regional Water Quality Control Board. 2001. *Site Cleanup Program-Groundwater Monitoring Well Maintenance and Protection Requirements, Former Hughes Missile Systems Company-8433 Fallbrook Avenue, Conoga Park.* October 22.

California Regional Water Quality Control Board. 2001. *Site Cleanup Program-Groundwater Monitoring Well Maintenance and Protection Requirements, Hughes Missile Compan-8433 Fallbrook Avenue, Conoga Park.* October 23.

EDR. 2001. Radius Map Data Base Report, Inquiry Number: 704883.3s, November 19.

EDR. 2001. "City Directory Abstract, Inquiry Number704883-6," November 19.

EDR. 2001. "Aerial Photography Print Service, Inquiry Number 704883-8, November 21.

EDR. 2001. "Topographic Map Report, Inquiry Number 704883-5, November 20.

Munger Map Book, California-Alaska Oil and Gas Fields, 2001.

Allen, Matkins Leck Gamble & Mallory, LLP. Letter to ENVIRON, dated February 12, 2002, to which are appended a undated map prepared by McLaren/Hart and a table entitled *"Past Chemical Use and Storage Practices at the Hughes Facility, Canoga Park, California."*

TN & A Associates, Inc.. 2002. *Results of Quarterly Groundwater Monitoring, Former Hazardous Waste Storage Area; Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California.* January 23, 2002.

APPENDIX A

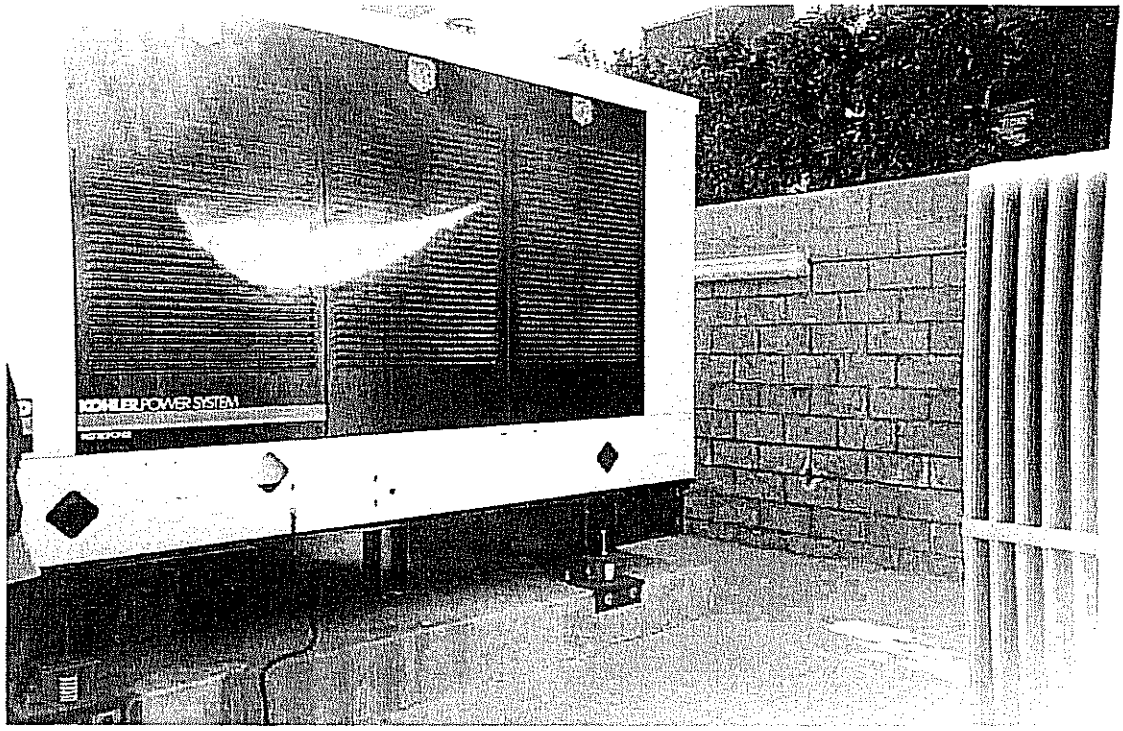
Property Photographs



Photograph #1: Building C and parking.



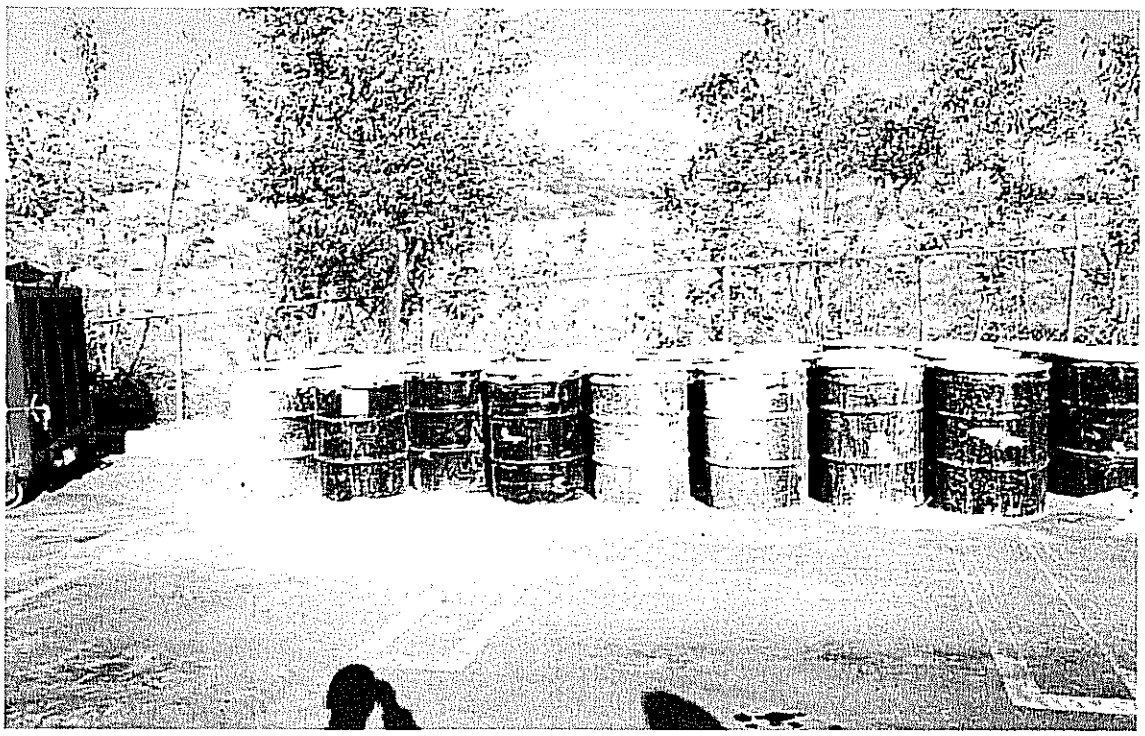
Photograph #2: Buildings B and D.



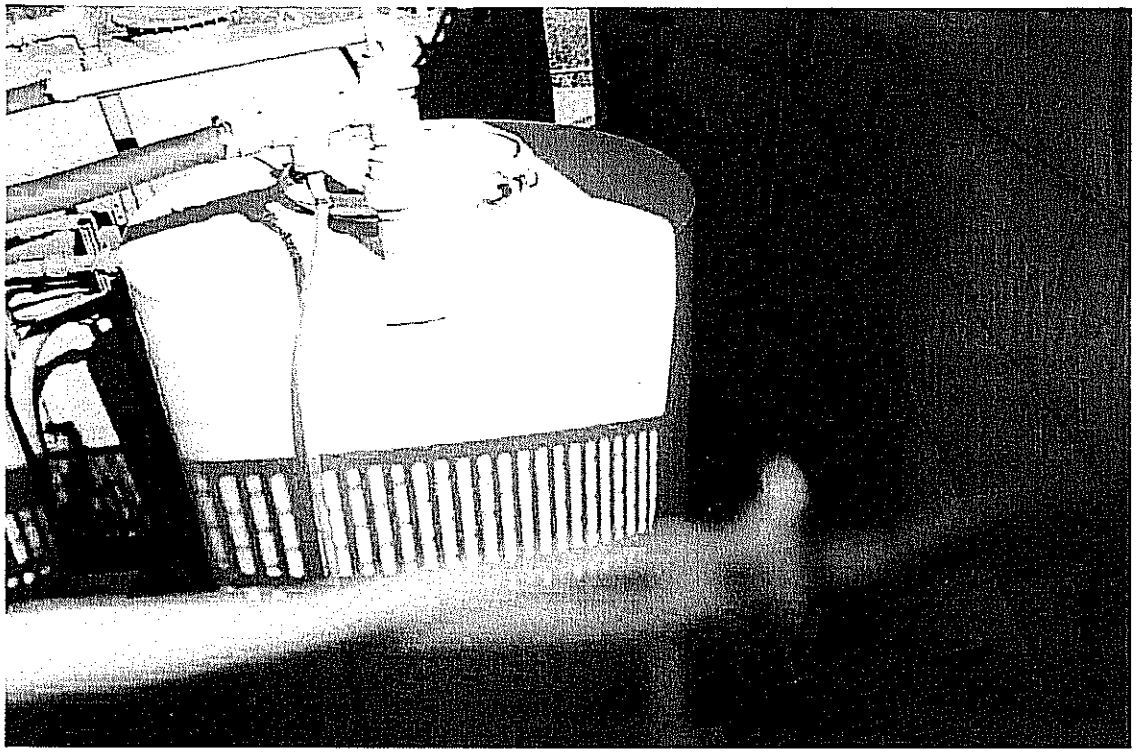
Photograph #3: Diesel emergency generator to east of Building D.



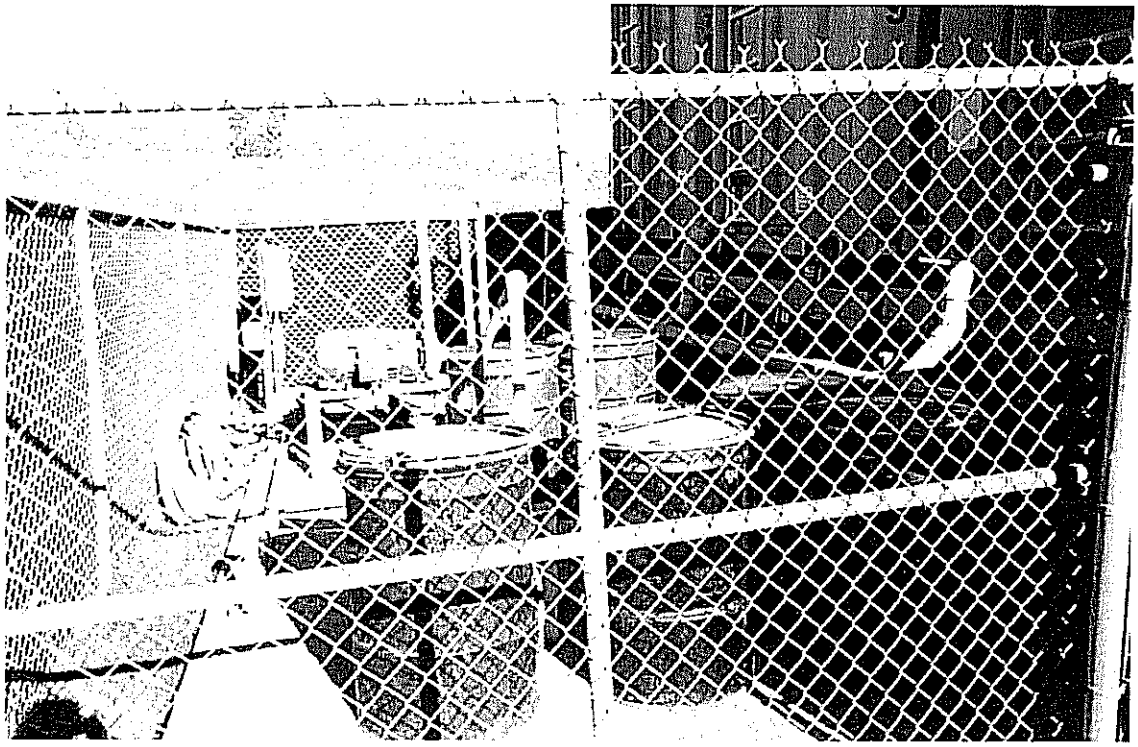
Photograph #4: New borings and roll-off bins at northwest area.



Photograph #5: Decon water drums at northwest part of site.



Photograph #6: Remediation systems.



Photograph #7: Water reclaim system for irrigation and purge water drums.



Photograph #8: Water storage for irrigation system.

APPENDIX B

EDR Report

The EDR Radius Map
with GeoCheck®

Parcel C
8501 Fallbrook Avenue
Canoga Park, CA 91304

Inquiry Number: 704883.3s

November 19, 2001

Environmental Data Resources, Inc.

The Source For Environmental Risk Management Data

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FORM-JM

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	6
Orphan Summary	22
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting Source Map	A-6
Physical Setting Source Map Findings	A-7
Physical Setting Source Records Searched	A-10

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-00. Search distances are per ASTM standard or custom distances requested by the user.

TARGET PROPERTY INFORMATION

ADDRESS

8501 FALLBROOK AVENUE
CANOGA PARK, CA 91304

COORDINATES

Latitude (North):	34.220100 - 34° 13' 12.4"
Longitude (West):	118.624000 - 118° 37' 26.4"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	350404.2
UTM Y (Meters):	3787558.0

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:	2434118-B5 CANOGA PARK, CA
Source:	USGS 7.5 min quad index

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the ASTM E 1527-00 search radius around the target property for the following databases:

FEDERAL ASTM STANDARD

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
ERNS..... Emergency Response Notification System

STATE ASTM STANDARD

AWP..... Annual Workplan Sites
CHMIRS..... California Hazardous Material Incident Report System
Notify 65..... Proposition 65 Records
Toxic Pits..... Toxic Pits Cleanup Act Sites
SWF/LF..... Solid Waste Information System
WMUDS/SWAT..... Waste Management Unit Database
CA BOND EXP. PLAN..... Bond Expenditure Plan
UST..... List of Underground Storage Tank Facilities

FEDERAL ASTM SUPPLEMENTAL

CONSENT..... Superfund (CERCLA) Consent Decrees

EXECUTIVE SUMMARY

ROD..... Records Of Decision
Delisted NPL..... National Priority List Deletions
FINDS..... Facility Index System/Facility Identification Initiative Program Summary Report
HMIRS..... Hazardous Materials Information Reporting System
MLTS..... Material Licensing Tracking System
MINES..... Mines Master Index File
NPL Liens..... Federal Superfund Liens
PADS..... PCB Activity Database System
RAATS..... RCRA Administrative Action Tracking System
TRIS..... Toxic Chemical Release Inventory System
TSCA..... Toxic Substances Control Act
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

STATE OR LOCAL ASTM SUPPLEMENTAL

AST..... Aboveground Petroleum Storage Tank Facilities
CLEANERS..... Drycleaner Facilities
CA WDS..... Waste Discharge System
CA SLIC..... Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
LOS ANGELES CO. HMS.... HMS: Street Number List
LA Co. Site Mitigation..... Site Mitigation List
AOCONCERN..... San Gabriel Valley Areas of Concern

EDR PROPRIETARY DATABASES

Coal Gas..... Former Manufactured Gas (Coal Gas) Sites

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS 1 degree Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. EDR's definition of a site with an elevation equal to the target property includes a tolerance of +/- 10 feet. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property (by more than 10 feet). Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

FEDERAL ASTM STANDARD

CERCLIS-NFRAP: As of February 1995. CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund Action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to

promote economic redevelopment of unproductive urban sites.

A review of the CERC-NFRAP list, as provided by EDR, and dated 07/12/2001 has revealed that there is 1 CERC-NFRAP site within approximately 0.375 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
HUGHES AIRCRAFT COMPANY	*8433 FALLBROOK AVENUE*	*1/4 - 1/2N*	*B6*	*13*

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 09/20/2001 has revealed that there is 1 CORRACTS site within approximately 1.125 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
HUGHES AIRCRAFT COMPANY	*8433 FALLBROOK AVENUE*	*1/4 - 1/2N*	*B6*	*13*

RCRIS: The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-TSD list, as provided by EDR, and dated 06/21/2000 has revealed that there is 1 RCRIS-TSD site within approximately 0.625 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
HUGHES AIRCRAFT COMPANY	*8433 FALLBROOK AVENUE*	*1/4 - 1/2N*	*B6*	*13*

RCRIS: The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-LQG list, as provided by EDR, and dated 06/21/2000 has revealed that there is 1 RCRIS-LQG site within approximately 0.375 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
HUGHES AIRCRAFT COMPANY	*8433 FALLBROOK AVENUE*	*1/4 - 1/2N*	*B6*	*13*

RCRIS: The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-SQG list, as provided by EDR, and dated 06/21/2000 has revealed that there are 2 RCRIS-SQG sites within approximately 0.375 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
LAKEVIEW CLEANERS	*22736 ROSCOE BLVD*	*1/8 - 1/4ESE*	*1*	*6*
LA FIRE STATION 106	*23004 ROSCOE BLVD*	*1/8 - 1/4WSW*	*A4*	*9*

EXECUTIVE SUMMARY

STATE ASTM STANDARD

CAL-SITES: Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control.

A review of the Cal-Sites list, as provided by EDR, has revealed that there are 2 Cal-Sites sites within approximately 1.125 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
HUGHES AIRCRAFT COMPANY	*8433 FALLBROOK AVENUE*	*1/4 - 1/2 N*	*B6*	*13*
Lower Elevation	**Address**	**Dist / Dir**	**Map ID**	**Page**
WEST VALLEY HOSPITAL AND HEALT	*22141 ROSCOE BLVD*	*1/2 - 1 E*	*9*	*18*

CORTESE: This database identifies public drinking water wells with detectable levels of contamination, hazardous substance sites selected for remedial action, sites with known toxic material identified through the abandoned site assessment program, sites with USTs having a reportable release and all solid waste disposal facilities from which there is known migration. The source is the California Environmental Protection Agency/Office of Emergency Information.

A review of the Cortese list, as provided by EDR, has revealed that there are 3 Cortese sites within approximately 1.125 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
HUGHES AIRCRAFT COMPANY	*8433 FALLBROOK AVENUE*	*1/4 - 1/2 N*	*B6*	*13*
CHEVRON #9-3113	*7607 WOODLAKE*	*1/2 - 1 SSW*	*10*	*19*
Lower Elevation	**Address**	**Dist / Dir**	**Map ID**	**Page**
ARCO	*21935 ROSCOE*	*1 - 2 E*	*11*	*19*

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 08/07/2001 has revealed that there are 2 LUST sites within approximately 0.625 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
LA CITY FIRE STATION #106	23004 ROSCOE BLVD	1/8 - 1/4 WSW	A3	8
HUGHES AIRCRAFT COMPANY	*8433 FALLBROOK AVENUE*	*1/4 - 1/2 N*	*B6*	*13*

CA FID: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, has revealed that there are 2 CA FID UST sites within approximately 0.375 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
FIRE STATION 106	23004 ROSCOE BLVD	1/8 - 1/4 WSW	A2	7

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
HUGHES AIRCRAFT COMPANY	8433 FALLBROOK AVE	1/4 - 1/2 N	B7	17

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 2 HIST UST sites within approximately 0.375 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
MISSILE SYSTEMS GROUP	8433 FALLBROOK AVE	1/4 - 1/2 N	B5	11
MISSLE SYSTEMS GROUP	8433 FALLBROOK AVE	1/4 - 1/2 N	B8	17

STATE OR LOCAL ASTM SUPPLEMENTAL

HAZNET: The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000-1,000,000 annually, representing approximately 350,000-500,000 shipments. Data from non-California manifests & continuation sheets are not included at the present time. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, & disposal method. The source is the Department of Toxic Substance Control is the agency

A review of the HAZNET list, as provided by EDR, has revealed that there are 2 HAZNET sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
LAKEVIEW CLEANERS	*22736 ROSCOE BLVD*	*1/8 - 1/4 ESE*	*1*	*6*
LA FIRE STATION 106	*23004 ROSCOE BLVD*	*1/8 - 1/4 WSW*	*A4*	*9*

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
USNASA BOEING SSFL AREA I I	PADS, CERCLIS, FINDS, RCRIS-LQG, RCRIS-TSD, CORRACTS, CERC-NFRAP
THE BOEING CO SSFL AREA I AND I I I	FINDS, RCRIS-LQG, RCRIS-TSD, CORRACTS, CERC-NFRAP
LLANO ILLEGAL DISPOSAL SITE	SWF/LF
CHATSWORTH RESERVOIR	HIST UST
FIRE STATION 106	HIST UST
JOE'S AUTO CARE	HAZNET
WESTSIDE VALLEY AUTO BODY	HAZNET
SIR SPEEDY PRINTING CENTER	HAZNET

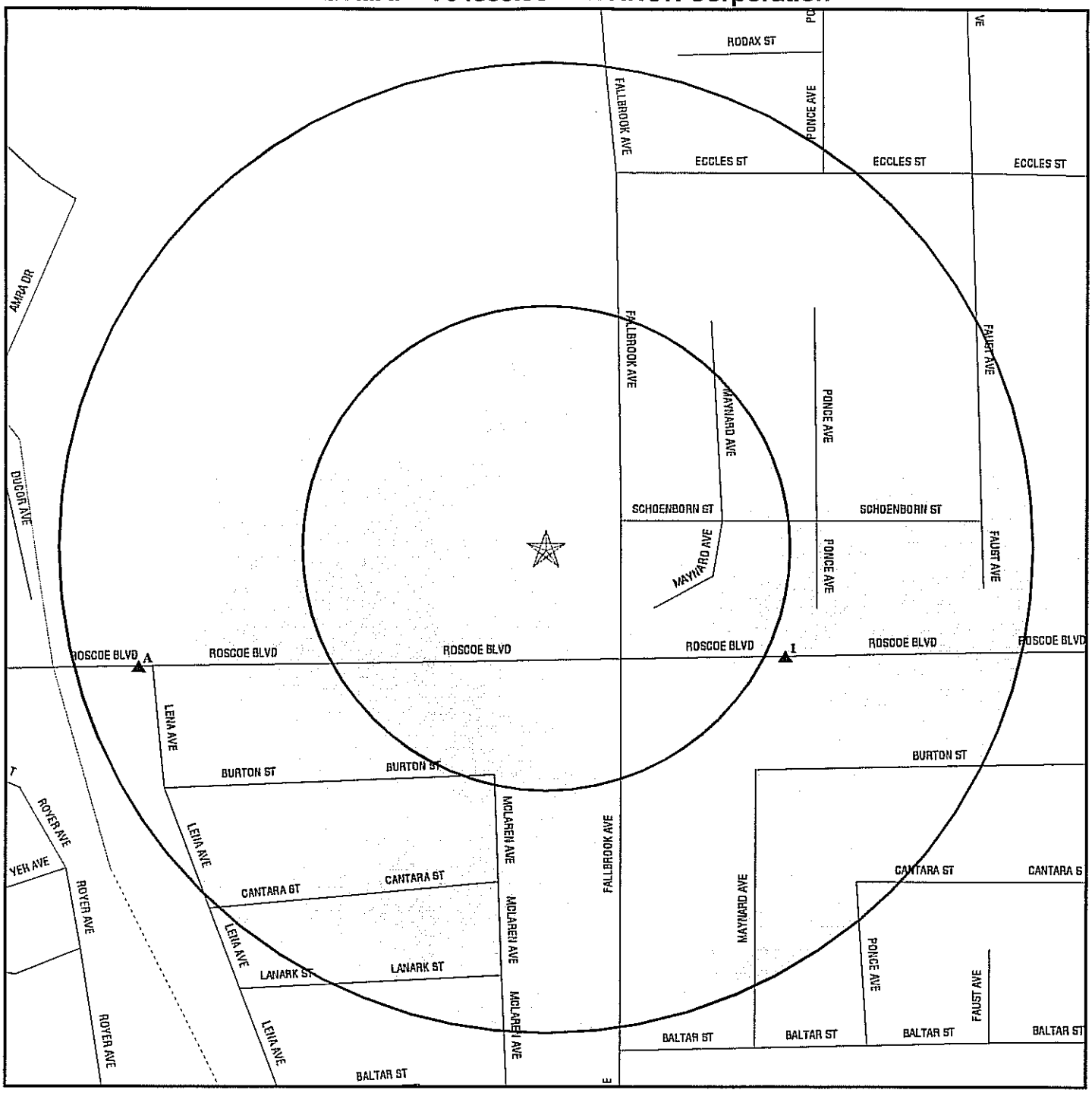
OVERVIEW MAP - 704883.3s - ENVIRON Corporation



- ☆ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites (if requested)
- National Priority List Sites
- Landfill Sites
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- Wetlands
- Areas of Concern

TARGET PROPERTY:	Parcel C	CUSTOMER:	ENVIRON Corporation
ADDRESS:	8501 Fallbrook Avenue	CONTACT:	D. Scanlon
CITY/STATE/ZIP:	Canoga Park CA 91304	INQUIRY #:	704883.3s
LAT/LONG:	34.2201 / 118.6240	DATE:	November 19, 2001 2:51 pm

DETAIL MAP - 704883.3s - ENVIRON Corporation



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Coal Gasification Sites (if requested)
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- Areas of Concern

TARGET PROPERTY:	Parcel C	CUSTOMER:	ENVIRON Corporation
ADDRESS:	8501 Fallbrook Avenue	CONTACT:	D. Scanlon
CITY/STATE/ZIP:	Canoga Park CA 91304	INQUIRY #:	704883.3s
LAT/LONG:	34.2201 / 118.6240	DATE:	November 19, 2001 2:51 pm

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FEDERAL ASTM STANDARD								
NPL		1.125	0	0	0	0	0	0
Proposed NPL		1.125	0	0	0	0	0	0
CERCLIS		0.625	0	0	0	0	NR	0
CERC-NFRAP		0.375	0	0	1	NR	NR	1
CORRACTS		1.125	0	0	1	0	0	1
RCRIS-TSD		0.625	0	0	1	0	NR	1
RCRIS Lg. Quan. Gen.		0.375	0	0	1	NR	NR	1
RCRIS Sm. Quan. Gen.		0.375	0	2	0	NR	NR	2
ERNS		0.125	0	NR	NR	NR	NR	0
STATE ASTM STANDARD								
AWP		1.125	0	0	0	0	0	0
Cal-Sites		1.125	0	0	1	1	0	2
CHMIRS		1.125	0	0	0	0	0	0
Cortese		1.125	0	0	1	1	1	3
Notify 65		1.125	0	0	0	0	0	0
Toxic Pits		1.125	0	0	0	0	0	0
State Landfill		0.625	0	0	0	0	NR	0
WMUDS/SWAT		0.625	0	0	0	0	NR	0
LUST		0.625	0	1	1	0	NR	2
CA Bond Exp. Plan		1.125	0	0	0	0	0	0
UST		0.375	0	0	0	NR	NR	0
CA FID UST		0.375	0	1	1	NR	NR	2
HIST UST		0.375	0	0	2	NR	NR	2
FEDERAL ASTM SUPPLEMENTAL								
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
STATE OR LOCAL ASTM SUPPLEMENTAL								
AST		TP	NR	NR	NR	NR	NR	0
CLEANERS		0.250	0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA WDS		TP	NR	NR	NR	NR	NR	0
CA SLIC		0.500	0	0	0	NR	NR	0
HAZNET		0.250	0	2	NR	NR	NR	2
Los Angeles Co. HMS		TP	NR	NR	NR	NR	NR	0
LA Co. Site Mitigation		TP	NR	NR	NR	NR	NR	0
AOCONCERN		1.000	0	0	0	0	NR	0
EDR PROPRIETARY DATABASES								
Coal Gas		1.000	0	0	0	0	NR	0

AQUIFLOW - see EDR Physical Setting Source Addendum

TP = Target Property

NR = Not Requested at this Search Distance

* Sites may be listed in more than one database

Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.

1
ESE
1/8-1/4
713
Higher

LAKEVIEW CLEANERS
22736 ROSCOE BLVD
CANOGA PARK, CA 91304

RCRIS-SQG **1000224867**
FINDS **CAD981639297**
HAZNET

RCRIS:
Owner: CHOI SOO DONG
(415) 555-1212

Contact: ENVIRONMENTAL MANAGER
(213) 348-1013

Record Date: 09/01/1996
Classification: Small Quantity Generator
Used Oil Recyc: No

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Facility Registry System (FRS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:
Gepaid: CAD981639297
Tepaid: CAT000613992
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0600
Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 22736 ROSCOE BLVD
CANOGA PARK, CA 91304
County Los Angeles

Gepaid: CAD981639297
Tepaid: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1400
Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 22736 ROSCOE BLVD
CANOGA PARK, CA 91304
County Los Angeles

LAKEVIEW CLEANERS (Continued) **1000224867**

Gepaid:	CAD981639297
Tepaid:	CAT000613992
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.1400
Category:	Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method:	Transfer Station
Contact:	Not reported
Telephone:	(000) 000-0000
Mailing Address:	22736 ROSCOE BLVD CANOGA PARK, CA 91304
County	Los Angeles

Gepaid:	CAD981639297
Tepaid:	CAD981397417
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.5381
Category:	Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
Disposal Method:	Recycler
Contact:	Not reported
Telephone:	(000) 000-0000
Mailing Address:	22736 ROSCOE BLVD CANOGA PARK, CA 91304
County	Los Angeles

Gepaid:	CAD981639297
Tepaid:	CAD981397417
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.0000
Category:	
Disposal Method:	Recycler
Contact:	Not reported
Telephone:	(000) 000-0000
Mailing Address:	22736 ROSCOE BLVD CANOGA PARK, CA 91304
County	Los Angeles

The CA HAZNET database contains 4 additional records for this site.
Please contact your EDR Account Executive for more information.

A2 **FIRE STATION 106** **CA FID UST** **S101585525**
WSW **23004 ROSCOE BLVD** **N/A**
1/8-1/4 **CANOGA PARK, CA 91304**
1148
Higher **Site 1 of 3 in cluster A**

FIRE STATION 106 (Continued) **S101585525**

FID:

Facility ID:	19024479	Regulate ID:	Not reported
Reg By:	Active Underground Storage Tank Location		
Cortese Code:	Not reported	SIC Code:	Not reported
Status:	Active	Facility Tel:	(213) 485-5846
Mail To:	Not reported 200 MAIN ST CANOGA PARK, CA 91304		
Contact:	Not reported	Contact Tel:	Not reported
DUNs No:	Not reported	NPDES No:	Not reported
Creation:	10/22/93	Modified:	00/00/00
EPA ID:	Not reported		
Comments:	Not reported		

A3 **LA CITY FIRE STATION #106** **LUST** **S104773279**
WSW **23004 ROSCOE BLVD** **N/A**
1/8-1/4 **CANOGA PARK, CA 91304**
1148
Higher **Site 2 of 3 in cluster A**

State LUST:

Cross Street:	Not reported		
Qty Leaked:	Not reported		
Case Number	913040670		
Reg Board:	Los Angeles Region		
Chemical:	1		
Lead Agency:	Local Agency		
Local Agency :	19050		
Case Type:	Soil only		
Status:	No leak action taken by responsible party after initial report of leak		
County:	Los Angeles		
Review Date:	Not reported	Confirm Leak:	Not reported
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported	Monitoring:	Not reported
Close Date:	Not reported		
Release Date:	10/07/1999		
Cleanup Fund Id :	Not reported		
Discover Date :	08/16/1999		
Enforcement Dt :	Not reported		
Enf Type:	Not reported		
Enter Date :	/ /		
Funding:	Not reported		
Staff Initials:	UNK		
How Discovered:	Repair Tank		
How Stopped:	Close Tank		
Interim :	Not reported		
Lat/Lon :	Not reported		
Leak Cause:	Unknown		
Leak Source:	Unknown		
Local Case # :	Not reported		
Beneficial:	Not reported		
Staff :	UNK		
MTBE Date :	Not reported		
MTBE Tested :	NRQ		
Max MTBE GW :	Not reported		
GW Qualifies :	Not reported		
Max MTBE Soil :	Not reported		

LA CITY FIRE STATION #106 (Continued) **S104773279**

Soil Qualifies : Not reported
Hydr Basin #: Not reported
Operator : CITY OF LA FIRE DEPT.
Oversight Prgm : LIA
Priority : Not reported
Review Date : 10/07/1999
Stop Date : Not reported
Office : Not reported
Work Suspended :Not reported
Responsible PartyCTIY OF LOS ANGELES
RP Address: 419 S. SPRING ST., 12TH FL., LOS ANGELES CA 90013
Global Id: T0603793051
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: 0
Mtbe Fuel: 0
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: Not reported
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported
Mtbe Class: Not reported
Summary: Not reported

LUST Region 4:
Report Date: 10/7/1999
Lead Agency: Local Agency
Local Agency: 19050
Case Number: 913040670
Substance: 1
Case Type: Soil
Status: Leak being confirmed
Region: 4
Staff: Not reported

A4 **LA FIRE STATION 106** **RCRIS-SQG 1000229490**
WSW **23004 ROSCOE BLVD** **FINDS CAD981964208**
1/8-1/4 **CANOGA PARK, CA 90012** **HAZNET**
1148
Higher **Site 3 of 3 in cluster A**

RCRIS:
Owner: CITY OF LOS ANGELES
(415) 555-1212

Contact: ENVIRONMENTAL MANAGER
(213) 485-7527

Record Date: 03/09/1987
Classification: Small Quantity Generator
Used Oil Recyc: No

Violation Status: No violations found

LA FIRE STATION 106 (Continued) **1000229490**

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:

Gepaid:	CAD981964208
Tepaid:	CAD099452708
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.1251
Category:	Unspecified aqueous solution
Disposal Method:	Recycler
Contact:	DEPT OF GENERAL SERVICES
Telephone:	(213) 485-5846
Mailing Address:	111 E 1ST STREET RM 709
	LOS ANGELES, CA 90012
County	Los Angeles

Gepaid:	CAD981964208
Tepaid:	CAT080011059
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.0625
Category:	Unspecified oil-containing waste
Disposal Method:	Recycler
Contact:	DEPT OF GENERAL SERVICES
Telephone:	(213) 485-5846
Mailing Address:	111 E 1ST STREET RM 709
	LOS ANGELES, CA 90012
County	Los Angeles

Gepaid:	CAD981964208
Tepaid:	CAD009007626
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.1685
Category:	Asbestos-containing waste
Disposal Method:	Disposal, Land Fill
Contact:	DEPT OF GENERAL SERVICES
Telephone:	(213) 485-5846
Mailing Address:	111 E 1ST STREET RM 709
	LOS ANGELES, CA 90012
County	Los Angeles

Gepaid:	CAD981964208
Tepaid:	CAD028409019
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.417
Category:	Tank bottom waste
Disposal Method:	Treatment, Tank
Contact:	DEPT OF GENERAL SERVICES
Telephone:	(213) 485-5846
Mailing Address:	111 E 1ST STREET RM 709
	LOS ANGELES, CA 90012
County	Los Angeles

B5 **MISSILE SYSTEMS GROUP** **HIST UST** **U001567141**
North **8433 FALLBROOK AVE** **N/A**
1/4-1/2 **CANOGA PARK, CA 91304**
1570
Higher **Site 1 of 4 in cluster B**

UST HIST:

Facility ID:	35465		
Tank Num:	1	Container Num:	T-1
Tank Capacity:	12000	Year Installed:	1974
Tank Used for:	PRODUCT		
Type of Fuel:	UNLEADED	Tank Construction:	1/4 inches
Leak Detection:	Stock Inventor		
Contact Name:	ROSS A. MOORE	Telephone:	(818) 702-1035
Total Tanks:	14	Region:	STATE
Facility Type:	2	Other Type:	MISSILE RESEARCH AND

Facility ID:	35465		
Tank Num:	2	Container Num:	T-2
Tank Capacity:	10000	Year Installed:	1975
Tank Used for:	PRODUCT		
Type of Fuel:	REGULAR	Tank Construction:	1/4 inches
Leak Detection:	Stock Inventor		
Contact Name:	ROSS A. MOORE	Telephone:	(818) 702-1035
Total Tanks:	14	Region:	STATE
Facility Type:	2	Other Type:	MISSILE RESEARCH AND

Facility ID:	35465		
Tank Num:	3	Container Num:	T-3
Tank Capacity:	4000	Year Installed:	1979
Tank Used for:	WASTE		
Type of Fuel:	Not Reported	Tank Construction:	1/4 inches
Leak Detection:	None		
Contact Name:	ROSS A. MOORE	Telephone:	(818) 702-1035
Total Tanks:	14	Region:	STATE
Facility Type:	2	Other Type:	MISSILE RESEARCH AND

Facility ID:	35465		
Tank Num:	4	Container Num:	T-5
Tank Capacity:	500	Year Installed:	1959
Tank Used for:	Not Reported		
Type of Fuel:	Not Reported	Tank Construction:	3/16 unknown
Leak Detection:	Visual		
Contact Name:	ROSS A. MOORE	Telephone:	(818) 702-1035
Total Tanks:	14	Region:	STATE
Facility Type:	2	Other Type:	MISSILE RESEARCH AND

Facility ID:	35465		
Tank Num:	5	Container Num:	T-6 (ABAND
Tank Capacity:	500	Year Installed:	1959
Tank Used for:	Not Reported		
Type of Fuel:	Not Reported	Tank Construction:	3/16 inches
Leak Detection:	Visual		
Contact Name:	ROSS A. MOORE	Telephone:	(818) 702-1035
Total Tanks:	14	Region:	STATE
Facility Type:	2	Other Type:	MISSILE RESEARCH AND

Facility ID:	35465		
Tank Num:	6	Container Num:	T-7

MISSILE SYSTEMS GROUP (Continued) **U001567141**

Tank Capacity: 12000
Tank Used for: PRODUCT
Type of Fuel: Not Reported
Leak Detection: Stock Inventor
Contact Name: ROSS A. MOORE
Total Tanks: 14
Facility Type: 2
Year Installed: 1979
Tank Construction: 1/4 inches
Telephone: (818) 702-1035
Region: STATE
Other Type: MISSILE RESEARCH AND

Facility ID: 35465
Tank Num: 7
Tank Capacity: 12000
Tank Used for: PRODUCT
Type of Fuel: Not Reported
Leak Detection: Stock Inventor
Contact Name: ROSS A. MOORE
Total Tanks: 14
Facility Type: 2
Container Num: T-8
Year Installed: 1979
Tank Construction: 1/4 inches
Telephone: (818) 702-1035
Region: STATE
Other Type: MISSILE RESEARCH AND

Facility ID: 35465
Tank Num: 8
Tank Capacity: 12000
Tank Used for: PRODUCT
Type of Fuel: Not Reported
Leak Detection: Stock Inventor
Contact Name: ROSS A. MOORE
Total Tanks: 14
Facility Type: 2
Container Num: T-9
Year Installed: 1979
Tank Construction: 1/4 inches
Telephone: (818) 702-1035
Region: STATE
Other Type: MISSILE RESEARCH AND

Facility ID: 35465
Tank Num: 9
Tank Capacity: 10000
Tank Used for: PRODUCT
Type of Fuel: Not Reported
Leak Detection: None
Contact Name: ROSS A. MOORE
Total Tanks: 14
Facility Type: 2
Container Num: T-10
Year Installed: 1959
Tank Construction: 5/16 inches
Telephone: (818) 702-1035
Region: STATE
Other Type: MISSILE RESEARCH AND

Facility ID: 35465
Tank Num: 10
Tank Capacity: 85
Tank Used for: WASTE
Type of Fuel: Not Reported
Leak Detection: None
Contact Name: ROSS A. MOORE
Total Tanks: 14
Facility Type: 2
Container Num: T-12
Year Installed: 1980
Tank Construction: 1/4 inches
Telephone: (818) 702-1035
Region: STATE
Other Type: MISSILE RESEARCH AND

Facility ID: 35465
Tank Num: 11
Tank Capacity: 10000
Tank Used for: PRODUCT
Type of Fuel: Not Reported
Leak Detection: Stock Inventor
Contact Name: ROSS A. MOORE
Total Tanks: 14
Facility Type: 2
Container Num: T-13
Year Installed: 1977
Tank Construction: 1/4 inches
Telephone: (818) 702-1035
Region: STATE
Other Type: MISSILE RESEARCH AND

MISSILE SYSTEMS GROUP (Continued) **U001567141**

Facility ID:	35465		
Tank Num:	12	Container Num:	T-17
Tank Capacity:	40	Year Installed:	1971
Tank Used for:	PRODUCT		
Type of Fuel:	Not Reported	Tank Construction:	Not reported
Leak Detection:	Visual		
Contact Name:	ROSS A. MOORE	Telephone:	(818) 702-1035
Total Tanks:	14	Region:	STATE
Facility Type:	2	Other Type:	MISSILE RESEARCH AND

Facility ID:	35465		
Tank Num:	13	Container Num:	PIT #1
Tank Capacity:	1687	Year Installed:	1981
Tank Used for:	WASTE		
Type of Fuel:	Not Reported	Tank Construction:	6 inches
Leak Detection:	None		
Contact Name:	ROSS A. MOORE	Telephone:	(818) 702-1035
Total Tanks:	14	Region:	STATE
Facility Type:	2	Other Type:	MISSILE RESEARCH AND

Facility ID:	35465		
Tank Num:	14	Container Num:	T-4
Tank Capacity:	135000	Year Installed:	1959
Tank Used for:	Not Reported		
Type of Fuel:	Not Reported	Tank Construction:	16 inches
Leak Detection:	None		
Contact Name:	ROSS A. MOORE	Telephone:	(818) 702-1035
Total Tanks:	14	Region:	STATE
Facility Type:	2	Other Type:	MISSILE RESEARCH AND

B6
North
1/4-1/2
1570
Higher

HUGHES AIRCRAFT COMPANY
8433 FALLBROOK AVENUE
CANOGA PARK, CA 91304

Site 2 of 4 in cluster B

FINDS **1000240986**
RCRIS-LQG **CAD041162124**
RCRIS-TSD
CORRACTS
CERC-NFRAP
Cal-Sites
Cortese
LUST

CERCLIS-NFRAP Classification Data:

Site Incident Category:	Not reported	Federal Facility:	Not a Federal Facility
Non NPL Code:	DR		
Ownership Status:	Private	NPL Status:	Not on the NPL

CERCLIS-NFRAP Assessment History:

Assessment:	DISCOVERY	Completed:	04/01/1991
Assessment:	PRELIMINARY ASSESSMENT	Completed:	08/09/1991

CORRACTS Data:

EPA Id:	CAD041162124
Region:	9
State:	CA
Area Name:	ENTIRE FACILITY
Original Scheduled Date:	Not reported
New Scheduled Date:	Not reported
Actual Date:	07/29/1991
Corrective Action:	CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

EPA Id: CAD041162124
Region: 9
State: CA
Area Name: ENTIRE FACILITY
Original Scheduled Date: Not reported
New Scheduled Date: Not reported
Actual Date: 07/29/1991
Corrective Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority

RCRIS:
Owner: HUGHES AIRCRAFT COMPANY
(213) 702-1000

Contact: ENVIRONMENTAL MANAGER
(213) 702-2102

Record Date: 09/01/1996
Classification: Large Quantity Generator
Used Oil Recyc: No

Violation Status: Violations exist

Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 08/23/1994
Priority of Violation: Low
Schedule Date to Achieve Compliance: 09/23/1994
Actual Date Achieved Compliance: 09/22/1994

Enforcement Action: Initial Formal 3008(a) Compliance Order
Enforcement Action Date: 08/23/1994
Proposed Monetary Penalty: $ 500.00
Final Monetary Penalty: $ 500.00

Regulation Violated: Not reported
Area of Violation: TSD-Financial Responsibility Requirements
Date Violation Determined: 11/22/1991
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 06/01/1994

Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 04/24/1991
Priority of Violation: Low
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 05/28/1991

Enforcement Action: Written Informal
Enforcement Action Date: 06/07/1991
Proposed Monetary Penalty: Not reported
Final Monetary Penalty: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-Other Requirements
Date Violation Determined: 02/22/1989
Priority of Violation: High
Schedule Date to Achieve Compliance: Not reported
Actual Date Achieved Compliance: 10/15/1990

Enforcement Action: Written Informal
Enforcement Action Date: 04/06/1989

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Closure/Post Closure Requirements
Date Violation Determined:	02/22/1989
Priority of Violation:	High
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	10/15/1990
Enforcement Action:	Written Informal
Enforcement Action Date:	04/06/1989
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported

There are 5 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	09/22/1994
Financial Record Review (FRR)	TSD-Financial Responsibility Requirements	06/01/1994
Other Evaluation	TSD-Other Requirements	05/28/1991
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	10/15/1990
	TSD-Closure/Post Closure Requirements	10/15/1990

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Facility Registry System (FRS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

State LUST:

Cross Street:	ECCLES ST		
Qty Leaked:	Not reported		
Case Number	913040352		
Reg Board:	Los Angeles Region		
Chemical:	Solvents		
Lead Agency:	Regional Board		
Local Agency :	19050		
Case Type:	Other ground water affected		
Status:	Remedial action (cleanup) in progress		
County:	Los Angeles		
Abate Method:	Excavate and Dispose - remove contaminated soil and dispose in approved site		
Review Date:	Not reported	Confirm Leak:	Not reported
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported	Monitoring:	Not reported
Close Date:	Not reported		
Release Date:	01/29/1985		
Cleanup Fund Id :	Not reported		
Discover Date :	06/20/1988		
Enforcement Dt :	Not reported		
Enf Type:	Not reported		
Enter Date :	12/31/1986		
Funding:	Not reported		
Staff Initials:	UNK		
How Discovered:	Tank Closure		
How Stopped:	Close Tank		
Interim :	Yes		

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Lat/Lon : -118.6235434 / 34.224103
Leak Cause: Unknown
Leak Source: Unknown
Local Case # : Not reported
Beneficial: Not reported
Staff : SLC
MTBE Date : Not reported
MTBE Tested : NRQ
Max MTBE GW : Not reported
GW Qualifies : Not reported
Max MTBE Soil : Not reported
Soil Qualifies : Not reported
Hydr Basin #: Not reported
Operator : Not reported
Oversight Prgm : SLIC
Priority : Not reported
Review Date : 07/15/1998
Stop Date : Not reported
Office : Not reported
Work Suspended : Not reported
Responsible Party HUGHES AIRCRAFT COMPANY
RP Address: SAME AS SITE
Global Id: T0603702098
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: 0
Mtbe Fuel: 0
Water System Name: ALLAN GREEN
Well Name: LPA REPORTED PRIMARY SOURCE
Distance To Lust: 13531.155956221583606583331749
Waste Discharge Global ID: W0605100510
Waste Disch Assigned Name: 2600510-001GEN
Mtbe Class: Not reported
Summary: QTRLY G/W MON. SOLVENT & TRACE METAL CONTAMINATION. 9-21-88 UPDATE-REDRILLING WELLS 1ST ONE DRY. 4-89 UPDATE-SAP FOR NEWWELLS EXPECTED.
07/15/98 - GW & REMEDIATION SYSTEM MON 1998 Q

LUST Region 4:
Report Date: 1/29/1985
Lead Agency: Regional Board
Local Agency: 19050
Case Number: 913040352
Substance: Solvents
Case Type: Groundwater
Status: Remedial action (cleanup) in progress
Region: 4
Staff: SLC

CAL-SITES:
Facility ID 19360344
Status: REFRC - DOES NOT REQUIRE DTSC ACTION. REFERRED TO RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) LEAD
Status Date: 05/01/1995
Lead: Not reported
Region: 3 - BURBANK
Branch: SA - SOUTHERN CA. - A
File Name: Not reported
Status Name: PROPERTY/SITE REFERRED TO RCRA

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Lead Agency:	N/A	Not reported
NPL:	Not reported	
SIC:	36 MANU - ELECTRONIC & OTHER ELECTRIC EQUIP	
Facility Type:	N/A	
Type Name:	Not reported	
Staff Member Responsible for Site:	Not reported	
Supervisor Responsible for Site:	Not reported	
Region Water Control Board:	Not reported	
Access:	Not reported	
Cortese:	Not reported	
Hazardous Ranking Score:	Not reported	
Date Site Hazard Ranked:	Not reported	
Groundwater Contamination:	Not reported	
No. of Contamination Sources:	0	
Lat/Long:	0° 0' 0.00" / 0° 0' 0.00"	
Lat/long Method:	Not reported	
State Assembly District Code:	Not reported	
State Senate District:	Not reported	

The CAL-SITES database may contain additional details for this site.
Please contact your EDR Account Executive for more information.

CORTESE:
Reg Id: 913040352
Region: CORTESE
Reg By: Leaking Underground Storage Tanks

B7 **HUGHES AIRCRAFT COMPANY** **CA FID UST** **S101582682**
North **8433 FALLBROOK AVE** **N/A**
1/4-1/2 **CANOGA PARK, CA 91304**
1570
Higher **Site 3 of 4 in cluster B**

FID:

Facility ID:	19001041	Regulate ID:	00035465
Reg By:	Inactive Underground Storage Tank Location		
Cortese Code:	Not reported	SIC Code:	Not reported
Status:	Inactive	Facility Tel:	(818) 702-1014
Mail To:	Not reported 8433 FALLBROOK AVE CANOGA PARK, CA 91304		
Contact:	Not reported	Contact Tel:	Not reported
DUNs No:	Not reported	NPDES No:	Not reported
Creation:	10/22/93	Modified:	00/00/00
EPA ID:	Not reported		
Comments:	Not reported		

B8 **MISSLE SYSTEMS GROUP** **HIST UST** **U001567142**
North **8433 FALLBROOK AVE** **N/A**
1/4-1/2 **CANOGA PARK, CA 91304**
1570
Higher **Site 4 of 4 in cluster B**

UST HIST:

Facility ID:	50582		
Tank Num:	1	Container Num:	PIT #2
Tank Capacity:	5476	Year Installed:	1959
Tank Used for:	WASTE		
Type of Fuel:	Not Reported	Tank Construction:	8 inches

MISSLE SYSTEMS GROUP (Continued) **U001567142**

Leak Detection: None
Contact Name: ROSS A. MOORE
Total Tanks: 3
Facility Type: 2
Telephone: (818) 702-1035
Region: STATE
Other Type: MISSILE RESEARCH & D

Facility ID: 50582
Tank Num: 2
Tank Capacity: 11
Tank Used for: WASTE
Type of Fuel: Not Reported
Container Num: S-1
Year Installed: 1981
Tank Construction: 6 inches

Leak Detection: None
Contact Name: ROSS A. MOORE
Total Tanks: 3
Facility Type: 2
Telephone: (818) 702-1035
Region: STATE
Other Type: MISSILE RESEARCH & D

Facility ID: 50582
Tank Num: 3
Tank Capacity: 11
Tank Used for: WASTE
Type of Fuel: Not Reported
Container Num: S-2
Year Installed: 1981
Tank Construction: 6 inches

Leak Detection: None
Contact Name: ROSS A. MOORE
Total Tanks: 3
Facility Type: 2
Telephone: (818) 702-1035
Region: STATE
Other Type: MISSILE RESEARCH & D

9
East
1/2-1
4576
Lower

WEST VALLEY HOSPITAL AND HEALTH CTR
22141 ROSCOE BLVD
CANOGA PARK, CA 91304

RCRIS-SQG **1000297218**
FINDS **CAD982022295**
Cal-Sites

RCRIS:
Owner: TRIAD CORP
(818) 990-2000

Contact: JACK MCGUIRE
(818) 340-0580

Record Date: 08/20/1991
Classification: Small Quantity Generator
Used Oil Recyc: No

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Facility Registry System (FRS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

CAL-SITES:
Facility ID 19800031
Status: NA
Status Date: 12/15/1995
Lead: DTSC
Region: 3 - BURBANK
Branch: CM - CALMORTGAGE
File Name: Not reported
Status Name: NO ACTION - FOR CALMORTGAGE ONLY
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
NPL: Not reported

Not reported

WEST VALLEY HOSPITAL AND HEALTH CTR (Continued) **1000297218**

SIC:	80 HEALTH SERVICES
Facility Type:	CALMORTGAGE ONLY
Type Name:	CMORT
Staff Member Responsible for Site:	SKARINEN
Supervisor Responsible for Site:	BCOLER
Region Water Control Board:	LA - LOS ANGELES
Access:	Not reported
Cortese:	Not reported
Hazardous Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Not reported
No. of Contamination Sources:	0
Lat/Long:	0° 0' 0.00" / 0° 0' 0.00"
Lat/long Method:	Not reported
State Assembly District Code:	Not reported
State Senate District:	Not reported

The CAL-SITES database may contain additional details for this site.
Please contact your EDR Account Executive for more information.

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10 SSW 1/2-1 4940 Higher **CHEVRON #9-3113** **Cortese S103955994**
7607 WOODLAKE **HAZNET N/A**
WEST HILLS, CA 93104

HAZNET:

Gepaid:	CAL000194234
Tepaid:	CAD982484933
Gen County:	Los Angeles
Tsd County:	7
Tons:	.2500
Category:	Empty containers less than 30 gallons
Disposal Method:	Disposal, Other
Contact:	CHEVRON USA
Telephone:	(925) 842-5931
Mailing Address:	PO BOX 6004
	SAN RAMON, CA 94583
County	Los Angeles

CORTESE:

Reg Id:	913040616
Region:	CORTESE
Reg By:	Leaking Underground Storage Tanks

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11 East > 1 5836 Lower **ARCO** **Cortese S101295722**
21935 ROSCOE **LUST N/A**
CANOGA PARK, CA 91304

State LUST:

Cross Street:	TOPANGA CYN
Qty Leaked:	Not reported
Case Number	913040607
Reg Board:	Los Angeles Region
Chemical:	Hydrocarbons
Lead Agency:	Regional Board
Local Agency :	19050

ARCO (Continued) **S101295722**

Case Type: Other ground water affected
Status: Post remedial action monitoring in progress
County: Los Angeles
Review Date: 07/05/1990 Confirm Leak: 07/05/1990
Workplan: 11/07/1990 Prelim Assess: 11/07/1990
Pollution Char: Not reported Remed Plan: Not reported
Remed Action: 02/19/1997 Monitoring: 02/19/1997
Close Date: Not reported
Release Date: 01/16/1992
Cleanup Fund Id : Not reported
Discover Date : / /
Enforcement Dt : 03/19/2001
Enf Type: IEA
Enter Date : 03/21/1992
Funding: Not reported
Staff Initials: UNK
How Discovered: Subsurface Monitoring
How Stopped: Repair Piping
Interim : Not reported
Lat/Lon : -118.6049728 / 34.2198291
Leak Cause: Unknown
Leak Source: Piping
Local Case # : Not reported
Beneficial: Not reported
Staff : TAS
MTBE Date : 01/01/1965
MTBE Tested : YES
Max MTBE GW : 365,000
GW Qualifies : Not reported
Max MTBE Soil : Not reported
Soil Qualifies : Not reported
Hydr Basin #: Not reported
Operator : R & S OIL CO
Oversight Prgm : UST
Priority : 1C
Review Date : 04/12/2001
Stop Date : Not reported
Office : Not reported
Work Suspended : Not reported
Responsible Party: R & S OIL CO.
RP Address: 10974 LE CONTE AVE., LOS ANGELES, CA 90024
Global Id: T0603702102
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: 1
Mtbe Fuel: 0
Water System Name: ALLAN GREEN
Well Name: LPA REPORTED PRIMARY SOURCE
Distance To Lust: 12403.510117669789519830724493
Waste Discharge Global ID: W0605100510
Waste Disch Assigned Name: 2600510-001GEN
Mtbe Class: Not reported
Summary: 10/17/00 3RD QTR GW MON RPT 2000; 11/7/00 PROPOSED WP FOR ADDL SITE ASSESSM.; 1/22/01 4TH QTR GW MONR PT 2000; 4/12/01 1ST QTR GW MON RPT 2001

LUST Region 4:
Report Date: 1/16/1992
Lead Agency: Regional Board

ARCO (Continued) **S101295722**

Local Agency: 19050
Case Number: 913040607
Substance: Hydrocarbons
Case Type: Groundwater
Status: Pollution characterization
Region: 4
Staff: TAS

CORTESE:
Reg Id: 913040607
Region: CORTESE
Reg By: Leaking Underground Storage Tanks

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)	Facility ID
CANOGA PARK	U001567130	CHATSWORTH RESERVOIR	8600 FALLBROOK	91304	HIST UST	19055642
CANOGA PARK	S104583312	JOE'S AUTO CARE	21577 ROSCOE BLVD	91304	HAZNET	CAL000213488
CANOGA PARK	U001567133	FIRE STATION 106	2004 ROSCOE BLVD.	91304	HIST UST	19055521
CANOGA PARK	S104579737	WESTSIDE VALLEY AUTO BODY	21510 SCHOENBORN ST BLDG B	91304	HAZNET	CAL000153683
CANOGA PARK	S103641971	SIR SPEEDY PRINTING CENTER	21430 STRATHERN ST SUITE A	91304	HAZNET	CAL000043881
LOS ANGELES COUNTY	S104889769	LLANO ILLEGAL DISPOSAL SITE	1 MILE SOUTH OF HWY 138 @ 190TH ST EAST		SWF/LF	19-AA-5692
SIMI HILLS	1000273243	USNASA BOEING SSFL AREA I I	SANTA SUSANA FIELD LAB NASA	91311	PADS, CERCLIS, FINDS, RCRIS-LQG RCRIS-TSD, CORRACTS, CERC-NFF	
SIMI HILLS	1000273250	THE BOEING CO SSFL AREA I AND I I I	SANTA SUSANA LAB AREAS 1 2 3 4	91311	FINDS, RCRIS-LQG, RCRIS-TSD, CORRACTS, CERC-NFRAP	

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL ASTM STANDARD RECORDS

NPL: National Priority List
Source: EPA
Telephone: N/A
National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/26/01
Date Made Active at EDR: 08/28/01
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 08/06/01
Elapsed ASTM days: 22
Date of Last EDR Contact: 11/05/01

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 6
Telephone: 214-655-6659

EPA Region 8
Telephone: 303-312-6774

Proposed NPL: Proposed National Priority List Sites
Source: EPA
Telephone: N/A

Date of Government Version: 07/26/01
Date Made Active at EDR: 08/28/01
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 08/06/01
Elapsed ASTM days: 22
Date of Last EDR Contact: 11/05/01

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System
Source: EPA
Telephone: 703-413-0223
CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/12/01
Date Made Active at EDR: 10/16/01
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 09/24/01
Elapsed ASTM days: 22
Date of Last EDR Contact: 09/24/01

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned
Source: EPA
Telephone: 703-413-0223
As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

Date of Government Version: 07/12/01
Date Made Active at EDR: 10/16/01
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 09/24/01
Elapsed ASTM days: 22
Date of Last EDR Contact: 09/24/01

CORRACTS: Corrective Action Report
Source: EPA
Telephone: 800-424-9346
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/20/01
Date Made Active at EDR: 10/30/01
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 09/24/01
Elapsed ASTM days: 36
Date of Last EDR Contact: 09/11/01

RCRIS: Resource Conservation and Recovery Information System
Source: EPA/NTIS
Telephone: 800-424-9346
Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Date of Government Version: 06/21/00
Date Made Active at EDR: 07/31/00
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 07/10/00
Elapsed ASTM days: 21
Date of Last EDR Contact: 11/07/01

ERNS: Emergency Response Notification System
Source: EPA/NTIS
Telephone: 202-260-2342
Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 08/08/00
Date Made Active at EDR: 09/06/00
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 08/11/00
Elapsed ASTM days: 26
Date of Last EDR Contact: 10/25/01

FEDERAL ASTM SUPPLEMENTAL RECORDS

BRS: Biennial Reporting System
Source: EPA/NTIS
Telephone: 800-424-9346
The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/99
Database Release Frequency: Biennially
Date of Last EDR Contact: 09/18/01
Date of Next Scheduled EDR Contact: 12/17/01

CONSENT: Superfund (CERCLA) Consent Decrees
Source: EPA Regional Offices
Telephone: Varies
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: N/A
Database Release Frequency: Varies
Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

ROD: Records Of Decision
Source: NTIS
Telephone: 703-416-0223
Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 09/30/00
Database Release Frequency: Annually

Date of Last EDR Contact: 10/09/01
Date of Next Scheduled EDR Contact: 01/07/02

DELISTED NPL: National Priority List Deletions
Source: EPA
Telephone: N/A
The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/26/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 11/05/01
Date of Next Scheduled EDR Contact: 02/04/02

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report
Source: EPA
Telephone: N/A
Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/13/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/08/01
Date of Next Scheduled EDR Contact: 01/07/02

HMIRS: Hazardous Materials Information Reporting System
Source: U.S. Department of Transportation
Telephone: 202-366-4526
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 05/31/01
Database Release Frequency: Annually

Date of Last EDR Contact: 10/22/01
Date of Next Scheduled EDR Contact: 01/21/02

MLTS: Material Licensing Tracking System
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 05/29/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/08/01
Date of Next Scheduled EDR Contact: 01/07/02

MINES: Mines Master Index File
Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959

Date of Government Version: 08/24/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/01/01
Date of Next Scheduled EDR Contact: 12/31/01

NPL LIENS: Federal Superfund Liens
Source: EPA
Telephone: 205-564-4267
Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/91
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 08/21/01
Date of Next Scheduled EDR Contact: 11/19/01

PADS: PCB Activity Database System
Source: EPA
Telephone: 202-260-3936
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/30/01
Database Release Frequency: Annually
Date of Last EDR Contact: 10/25/01
Date of Next Scheduled EDR Contact: 11/12/01

RAATS: RCRA Administrative Action Tracking System
Source: EPA
Telephone: 202-564-4104
RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/95
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 09/13/01
Date of Next Scheduled EDR Contact: 12/10/01

TRIS: Toxic Chemical Release Inventory System
Source: EPA
Telephone: 202-260-1531
Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/99
Database Release Frequency: Annually
Date of Last EDR Contact: 09/24/01
Date of Next Scheduled EDR Contact: 12/24/01

TSCA: Toxic Substances Control Act
Source: EPA
Telephone: 202-260-1444
Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/98
Database Release Frequency: Every 4 Years
Date of Last EDR Contact: 10/24/01
Date of Next Scheduled EDR Contact: 01/21/02

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-564-2501
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/19/01
Database Release Frequency: Quarterly
Date of Last EDR Contact: 09/25/01
Date of Next Scheduled EDR Contact: 12/24/01

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
Source: EPA
Telephone: 202-564-2501

Date of Government Version: 07/19/01
Database Release Frequency: Quarterly
Date of Last EDR Contact: 09/25/01
Date of Next Scheduled EDR Contact: 12/24/01

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STATE OF CALIFORNIA ASTM STANDARD RECORDS

AWP: Annual Workplan Sites
Source: California Environmental Protection Agency
Telephone: 916-323-3400
Known Hazardous Waste Sites. California DTSC's Annual Workplan (AWP), formerly BEP, identifies known hazardous substance sites targeted for cleanup.

Date of Government Version: 11/08/00
Date Made Active at EDR: 03/02/01
Database Release Frequency: Annually
Date of Data Arrival at EDR: 01/31/01
Elapsed ASTM days: 30
Date of Last EDR Contact: 10/30/01

CAL-SITES: Calsites Database
Source: Department of Toxic Substance Control
Telephone: 916-323-3400
The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database.

Date of Government Version: 10/01/00
Date Made Active at EDR: 11/22/00
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 10/30/00
Elapsed ASTM days: 23
Date of Last EDR Contact: 10/16/01

CHMIRS: California Hazardous Material Incident Report System
Source: Office of Emergency Services
Telephone: 916-464-3283
California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/94
Date Made Active at EDR: 04/24/95
Database Release Frequency: No Update Planned
Date of Data Arrival at EDR: 03/13/95
Elapsed ASTM days: 42
Date of Last EDR Contact: 08/29/01

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
Source: CAL EPA/Office of Emergency Information
Telephone: 916-327-1848
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 04/01/01
Date Made Active at EDR: 07/26/01
Database Release Frequency: Varies
Date of Data Arrival at EDR: 05/29/01
Elapsed ASTM days: 58
Date of Last EDR Contact: 10/30/01

NOTIFY 65: Proposition 65 Records
Source: State Water Resources Control Board
Telephone: 916-657-0696
Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/93
Date Made Active at EDR: 11/19/93
Database Release Frequency: No Update Planned
Date of Data Arrival at EDR: 11/01/93
Elapsed ASTM days: 18
Date of Last EDR Contact: 10/22/01

TOXIC PITS: Toxic Pits Cleanup Act Sites
Source: State Water Resources Control Board
Telephone: 916-227-4364
Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/95
Date Made Active at EDR: 09/26/95
Database Release Frequency: No Update Planned
Date of Data Arrival at EDR: 08/30/95
Elapsed ASTM days: 27
Date of Last EDR Contact: 11/05/01

SWF/LF (SWIS): Solid Waste Information System
Source: Integrated Waste Management Board
Telephone: 916-341-6320
Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/20/01
Date Made Active at EDR: 10/19/01
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 09/21/01
Elapsed ASTM days: 28
Date of Last EDR Contact: 09/21/01

WMUDS/SWAT: Waste Management Unit Database
Source: State Water Resources Control Board
Telephone: 916-227-4448
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/00
Date Made Active at EDR: 05/10/00
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 04/10/00
Elapsed ASTM days: 30
Date of Last EDR Contact: 09/13/01

LUST: Leaking Underground Storage Tank Information System
Source: State Water Resources Control Board
Telephone: 916-445-6532
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 08/07/01
Date Made Active at EDR: 09/07/01
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 08/09/01
Elapsed ASTM days: 29
Date of Last EDR Contact: 11/08/01

CA BOND EXP. PLAN: Bond Expenditure Plan
Source: Department of Health Services
Telephone: 916-255-2118
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/89
Date Made Active at EDR: 08/02/94
Database Release Frequency: No Update Planned
Date of Data Arrival at EDR: 07/27/94
Elapsed ASTM days: 6
Date of Last EDR Contact: 05/31/94

CA UST:

UST: Active UST Facilities
Source: SWRCB
Telephone: 916-341-5700
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 10/30/01
Date Made Active at EDR: 11/14/01
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 11/05/01
Elapsed ASTM days: 9
Date of Last EDR Contact: 10/15/01

CA FID UST: Facility Inventory Database
Source: California Environmental Protection Agency
Telephone: 916-445-6532
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/94
Date Made Active at EDR: 09/29/95
Database Release Frequency: No Update Planned
Date of Data Arrival at EDR: 09/05/95
Elapsed ASTM days: 24
Date of Last EDR Contact: 12/28/98

HIST UST: Hazardous Substance Storage Container Database
Source: State Water Resources Control Board
Telephone: 916-227-4408
The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/90
Date Made Active at EDR: 02/12/91
Database Release Frequency: No Update Planned
Date of Data Arrival at EDR: 01/25/91
Elapsed ASTM days: 18
Date of Last EDR Contact: 07/26/01

STATE OF CALIFORNIA ASTM SUPPLEMENTAL RECORDS

AST: Aboveground Petroleum Storage Tank Facilities
Source: State Water Resources Control Board
Telephone: 916-227-4382
Registered Aboveground Storage Tanks.

Date of Government Version: 08/21/01
Database Release Frequency: Quarterly
Date of Last EDR Contact: 11/05/01
Date of Next Scheduled EDR Contact: 02/04/02

CLEANERS: Drycleaner Facilities
Source: Department of Toxic Substance Control
Telephone: 916-225-0873
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 07/27/01
Database Release Frequency: Annually
Date of Last EDR Contact: 10/08/01
Date of Next Scheduled EDR Contact: 01/07/02

CA WDS: Waste Discharge System
Source: State Water Resources Control Board
Telephone: 916-657-1571
Sites which have been issued waste discharge requirements.

Date of Government Version: 07/19/01
Database Release Frequency: Quarterly
Date of Last EDR Contact: 09/25/01
Date of Next Scheduled EDR Contact: 12/24/01

HAZNET: Hazardous Waste Information System
Source: California Environmental Protection Agency
Telephone: 916-255-1136
Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/00
Database Release Frequency: Annually
Date of Last EDR Contact: 08/17/01
Date of Next Scheduled EDR Contact: 11/12/01

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LOCAL RECORDS

ALAMEDA COUNTY:

Local Oversight Program Listing of UGT Cleanup Sites
Source: Alameda County Environmental Health Services
Telephone: 510-567-6700

Date of Government Version: 07/01/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/30/01
Date of Next Scheduled EDR Contact: 01/28/02

Underground Tanks
Source: Alameda County Environmental Health Services
Telephone: 510-567-6700

Date of Government Version: 12/01/00
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/30/01
Date of Next Scheduled EDR Contact: 01/28/02

CONTRA COSTA COUNTY:

Site List
Source: Contra Costa Health Services Department
Telephone: 925-646-2286
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 09/01/00
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 09/04/01
Date of Next Scheduled EDR Contact: 12/03/01

FRESNO COUNTY:

CUPA Resources List
Source: Dept. of Community Health
Telephone: 559-445-3271
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 08/14/01
Database Release Frequency: N/A

Date of Last EDR Contact: 08/14/01
Date of Next Scheduled EDR Contact: 11/12/01

KERN COUNTY:

Underground Storage Tank Sites & Tanks Listing
Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Kern County Sites and Tanks Listing.

Date of Government Version: 08/01/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 09/04/01
Date of Next Scheduled EDR Contact: 12/03/01

LOS ANGELES COUNTY:

List of Solid Waste Facilities
Source: La County Department of Public Works
Telephone: 818-458-5185

Date of Government Version: 09/16/98
Database Release Frequency: Varies

Date of Last EDR Contact: 08/20/01
Date of Next Scheduled EDR Contact: 11/19/01

City of El Segundo Underground Storage Tank
Source: City of El Segundo Fire Department
Telephone: 310-607-2239

Date of Government Version: 02/01/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 08/20/01
Date of Next Scheduled EDR Contact: 11/19/01

City of Long Beach Underground Storage Tank
Source: City of Long Beach Fire Department
Telephone: 562-570-2543

Date of Government Version: 10/01/99
Database Release Frequency: Annually

Date of Last EDR Contact: 08/31/01
Date of Next Scheduled EDR Contact: 11/26/01

City of Torrance Underground Storage Tank
Source: City of Torrance Fire Department
Telephone: 310-618-2973

Date of Government Version: 02/01/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 08/20/01
Date of Next Scheduled EDR Contact: 11/19/01

City of Los Angeles Landfills
Source: Engineering & Construction Division
Telephone: 213-473-7869

Date of Government Version: 08/31/99
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 09/19/01
Date of Next Scheduled EDR Contact: 12/17/01

HMS: Street Number List
Source: Department of Public Works
Telephone: 626-458-3517
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 06/28/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/30/01
Date of Next Scheduled EDR Contact: 11/19/01

Site Mitigation List
Source: Community Health Services
Telephone: 323-890-7806
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/11/01
Database Release Frequency: Annually

Date of Last EDR Contact: 08/20/01
Date of Next Scheduled EDR Contact: 11/19/01

San Gabriel Valley Areas of Concern
Source: EPA Region 9
Telephone: 415-744-2407
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/98
Database Release Frequency: N/A

Date of Last EDR Contact: 06/29/99
Date of Next Scheduled EDR Contact: N/A

MARIN COUNTY:

Underground Storage Tank Sites
Source: Public Works Department Waste Management
Telephone: 415-499-6647
Currently permitted USTs in Marin County.

Date of Government Version: 03/05/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 11/05/01
Date of Next Scheduled EDR Contact: 02/04/02

NAPA COUNTY:

Sites With Reported Contamination
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269

Date of Government Version: 10/01/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/02/01
Date of Next Scheduled EDR Contact: 12/31/01

Closed and Operating Underground Storage Tank Sites
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269

Date of Government Version: 10/01/01
Database Release Frequency: Annually

Date of Last EDR Contact: 10/02/01
Date of Next Scheduled EDR Contact: 12/31/01

ORANGE COUNTY:

List of Underground Storage Tank Cleanups
Source: Health Care Agency
Telephone: 714-834-3446
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 06/12/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 09/11/01
Date of Next Scheduled EDR Contact: 12/10/01

List of Underground Storage Tank Facilities
Source: Health Care Agency
Telephone: 714-834-3446
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 11/29/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 09/11/01
Date of Next Scheduled EDR Contact: 12/10/01

List of Industrial Site Cleanups
Source: Health Care Agency
Telephone: 714-834-3446
Petroleum and non-petroleum spills.

Date of Government Version: 10/24/00
Database Release Frequency: Annually

Date of Last EDR Contact: 09/11/01
Date of Next Scheduled EDR Contact: 12/10/01

PLACER COUNTY:

Master List of Facilities
Source: Placer County Health and Human Services
Telephone: 530-889-7335
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/25/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 09/25/01
Date of Next Scheduled EDR Contact: 12/24/01

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Source: Department of Public Health
Telephone: 909-358-5055
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 09/05/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/22/01
Date of Next Scheduled EDR Contact: 01/21/02

Underground Storage Tank Tank List
Source: Health Services Agency
Telephone: 909-358-5055

Date of Government Version: 08/01/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/22/01
Date of Next Scheduled EDR Contact: 01/21/02

SACRAMENTO COUNTY:

CS - Contaminated Sites
Source: Sacramento County Environmental Management
Telephone: 916-875-8450

Date of Government Version: 08/08/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/05/01
Date of Next Scheduled EDR Contact: 02/04/02

ML - Regulatory Compliance Master List
Source: Sacramento County Environmental Management
Telephone: 916-875-8450
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/08/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/05/01
Date of Next Scheduled EDR Contact: 02/04/02

SAN BERNARDINO COUNTY:

Hazardous Material Permits
Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 08/13/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 08/13/01
Date of Next Scheduled EDR Contact: 12/10/01

SAN DIEGO COUNTY:

Solid Waste Facilities
Source: Department of Health Services
Telephone: 619-338-2209
San Diego County Solid Waste Facilities.

Date of Government Version: 07/01/98
Database Release Frequency: Annually

Date of Last EDR Contact: 08/29/01
Date of Next Scheduled EDR Contact: 11/26/01

Hazardous Materials Management Division Database
Source: Hazardous Materials Management Division
Telephone: 619-338-2268
The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 10/08/01
Database Release Frequency: Quarterly
Date of Last EDR Contact: 10/08/01
Date of Next Scheduled EDR Contact: 01/07/02

SAN FRANCISCO COUNTY:

Local Oversite Facilities
Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920

Date of Government Version: 09/01/01
Database Release Frequency: Quarterly
Date of Last EDR Contact: 09/11/01
Date of Next Scheduled EDR Contact: 12/10/01

Underground Storage Tank Information
Source: Department of Public Health
Telephone: 415-252-3920

Date of Government Version: 09/01/01
Database Release Frequency: Quarterly
Date of Last EDR Contact: 09/11/01
Date of Next Scheduled EDR Contact: 12/10/01

SAN MATEO COUNTY:

Fuel Leak List
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921

Date of Government Version: 07/05/01
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 10/30/01
Date of Next Scheduled EDR Contact: 01/28/02

Business Inventory
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 05/15/01
Database Release Frequency: Annually
Date of Last EDR Contact: 10/16/01
Date of Next Scheduled EDR Contact: 01/14/02

SANTA CLARA COUNTY:

Fuel Leak Site Activity Report
Source: Santa Clara Valley Water District
Telephone: 408-927-0710

Date of Government Version: 07/09/01
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 10/01/01
Date of Next Scheduled EDR Contact: 12/31/01

Hazardous Material Facilities
Source: City of San Jose Fire Department
Telephone: 408-277-4659

Date of Government Version: 06/13/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 09/11/01
Date of Next Scheduled EDR Contact: 12/10/01

SOLANO COUNTY:

Leaking Underground Storage Tanks
Source: Solano County Department of Environmental Management
Telephone: 707-421-6770

Date of Government Version: 07/01/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 09/19/01
Date of Next Scheduled EDR Contact: 12/17/01

Underground Storage Tanks
Source: Solano County Department of Environmental Management
Telephone: 707-421-6770

Date of Government Version: 07/01/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 09/19/01
Date of Next Scheduled EDR Contact: 12/17/01

SONOMA COUNTY:

Leaking Underground Storage Tank Sites
Source: Department of Health Services
Telephone: 707-525-6565

Date of Government Version: 05/01/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/30/01
Date of Next Scheduled EDR Contact: 01/28/02

SUTTER COUNTY:

Underground Storage Tanks
Source: Sutter County Department of Agriculture
Telephone: 530-822-7500

Date of Government Version: 07/01/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/09/01
Date of Next Scheduled EDR Contact: 01/07/02

VENTURA COUNTY:

Inventory of Illegal Abandoned and Inactive Sites
Source: Environmental Health Division
Telephone: 805-654-2813
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 04/02/01
Database Release Frequency: Annually

Date of Last EDR Contact: 08/29/01
Date of Next Scheduled EDR Contact: 11/26/01

Listing of Underground Tank Cleanup Sites
Source: Environmental Health Division
Telephone: 805-654-2813
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/24/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 09/19/01
Date of Next Scheduled EDR Contact: 12/17/01

Underground Tank Closed Sites List
Source: Environmental Health Division
Telephone: 805-654-2813
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 05/24/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/16/01
Date of Next Scheduled EDR Contact: 01/14/02

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 09/10/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 09/18/01
Date of Next Scheduled EDR Contact: 12/17/01

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Source: Yolo County Department of Health
Telephone: 530-666-8646

Date of Government Version: 01/23/01
Database Release Frequency: Annually

Date of Last EDR Contact: 10/22/01
Date of Next Scheduled EDR Contact: 01/21/02

California Regional Water Quality Control Board (RWQCB) LUST Records

LUST REG 1: Active Toxic Site Investigation
Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-576-2220
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/01
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 10/03/01
Date of Next Scheduled EDR Contact: 11/26/01

LUST REG 2: Fuel Leak List
Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457

Date of Government Version: 07/01/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/18/01
Date of Next Scheduled EDR Contact: 01/14/02

LUST REG 3: Leaking Underground Storage Tank Database
Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147

Date of Government Version: 08/20/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 08/20/01
Date of Next Scheduled EDR Contact: 11/19/01

LUST REG 4: Underground Storage Tank Leak List
Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-266-6600
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 08/09/01
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 10/18/01
Date of Next Scheduled EDR Contact: 12/31/01

LUST REG 5: Leaking Underground Storage Tank Database
Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-255-3125

Date of Government Version: 09/01/01
Database Release Frequency: Quarterly
Date of Last EDR Contact: 10/08/01
Date of Next Scheduled EDR Contact: 01/07/02

LUST REG 6L: Leaking Underground Storage Tank Case Listing
Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 916-542-5424

Date of Government Version: 07/01/01
Database Release Frequency: Quarterly
Date of Last EDR Contact: 10/22/01
Date of Next Scheduled EDR Contact: 01/07/02

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-346-7491

Date of Government Version: 07/01/01
Database Release Frequency: Quarterly
Date of Last EDR Contact: 10/08/01
Date of Next Scheduled EDR Contact: 01/07/02

LUST REG 7: Leaking Underground Storage Tank Case Listing
Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-346-7491

Date of Government Version: 05/14/01
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 10/02/01
Date of Next Scheduled EDR Contact: 12/31/01

LUST REG 8: Leaking Underground Storage Tanks
Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4498
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 07/23/01
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 08/17/01
Date of Next Scheduled EDR Contact: 11/12/01

LUST REG 9: Leaking Underground Storage Tank Report
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 619-467-2952
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/01
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 10/22/01
Date of Next Scheduled EDR Contact: 01/21/02

California Regional Water Quality Control Board (RWQCB) SLIC Records

SLIC REG 1: Active Toxic Site Investigations
Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220

Date of Government Version: 02/01/01
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 09/06/01
Date of Next Scheduled EDR Contact: 11/26/01

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 07/01/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/15/01
Date of Next Scheduled EDR Contact: 01/14/02

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 08/20/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 08/20/01
Date of Next Scheduled EDR Contact: 11/19/01

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 09/13/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/29/01
Date of Next Scheduled EDR Contact: 01/28/02

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-855-3075
Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 06/01/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/10/01
Date of Next Scheduled EDR Contact: 01/07/02

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583

Date of Government Version: 07/19/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/09/01
Date of Next Scheduled EDR Contact: 01/07/02

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-3298

Date of Government Version: 06/11/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/11/01
Date of Next Scheduled EDR Contact: 01/07/02

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980

Date of Government Version: 07/01/01
Database Release Frequency: Annually

Date of Last EDR Contact: 09/04/01
Date of Next Scheduled EDR Contact: 12/03/01

EDR PROPRIETARY DATABASES

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

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The information contained in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HISTORICAL AND OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Oil/Gas Pipelines/Electrical Transmission Lines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines and electrical transmission lines.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 1999 from the U.S. Fish and Wildlife Service.

GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

PARCEL C
8501 FALLBROOK AVENUE
CANOGA PARK, CA 91304

TARGET PROPERTY COORDINATES

Latitude (North):	34.220100 - 34° 13' 12.4"
Longitude (West):	118.624001 - 118° 37' 26.4"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	350404.2
UTM Y (Meters):	3787558.0

EDR's GeoCheck Physical Setting Source Addendum has been developed to assist the environmental professional with the collection of physical setting source information in accordance with ASTM 1527-00, Section 7.2.3. Section 7.2.3 requires that a current USGS 7.5 Minute Topographic Map (or equivalent, such as the USGS Digital Elevation Model) be reviewed. It also requires that one or more additional physical setting sources be sought when (1) conditions have been identified in which hazardous substances or petroleum products are likely to migrate to or from the property, and (2) more information than is provided in the current USGS 7.5 Minute Topographic Map (or equivalent) is generally obtained, pursuant to local good commercial or customary practice, to assess the impact of migration of recognized environmental conditions in connection with the property. Such additional physical setting sources generally include information about the topographic, hydrologic, hydrogeologic, and geologic characteristics of a site, and wells in the area.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata. EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

USGS TOPOGRAPHIC MAP ASSOCIATED WITH THIS SITE

Target Property: 2434118-B5 CANOGA PARK, CA
Source: USGS 7.5 min quad index

GENERAL TOPOGRAPHIC GRADIENT AT TARGET PROPERTY

Target Property: General SE

Source: General Topographic Gradient has been determined from the USGS 1 Degree Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
LOS ANGELES, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 0601370026C / CBPP

Additional Panels in search area:
0604130985B / CBPP
0650430605B / CBPP
0601370017C / CBPP
0601370018C / CBPP
0601370027C / CBPP
0601370025C / CBPP
0601370035C / CBPP

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
CANOGA PARK	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Site-Specific Hydrogeological Data*:

Search Radius:	2.0 miles
Status:	Not found

AQUIFLOW®

Search Radius: 2.000 Miles.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
A2	1 - 2 Miles East	SW
A3	1 - 2 Miles East	NW
4	1 - 2 Miles East	SSW
B5	1 - 2 Miles SE	S
B6	1 - 2 Miles SE	SSE

For additional site information, refer to Physical Setting Source Map Findings.

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Mesozoic
System:	Cretaceous
Series:	Upper Cretaceous
Code:	uK *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Component Name: URBAN LAND

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 10 inches

Depth to Bedrock Max: > 10 inches

Soil Layer Information

	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures:
loam
clay
silt loam
clay loam
sandy loam
gravelly - sandy loam
loamy sand
fine sand
coarse sand
sand
gravelly - sand

Surficial Soil Types:
loam
clay
silt loam
clay loam
sandy loam
gravelly - sandy loam
loamy sand
fine sand
coarse sand
sand
gravelly - sand

Shallow Soil Types:
fine sandy loam
gravelly - loam
sand
silty clay

Deeper Soil Types:
stratified

clay loam
silty clay loam
gravelly - sandy loam
coarse sand
sand
weathered bedrock
very fine sandy loam

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

According to ASTM E 1527-00, Section 7.2.2, "one or more additional state or local sources of environmental records may be checked, in the discretion of the environmental professional, to enhance and supplement federal and state sources... Factors to consider in determining which local or additional state records, if any, should be checked include (1) whether they are reasonably ascertainable, (2) whether they are sufficiently useful, accurate, and complete in light of the objective of the records review (see 7.1.1), and (3) whether they are obtained, pursuant to local, good commercial or customary practice." One of the record sources listed in Section 7.2.2 is water well information. Water well information can be used to assist the environmental professional in assessing sources that may impact groundwater flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

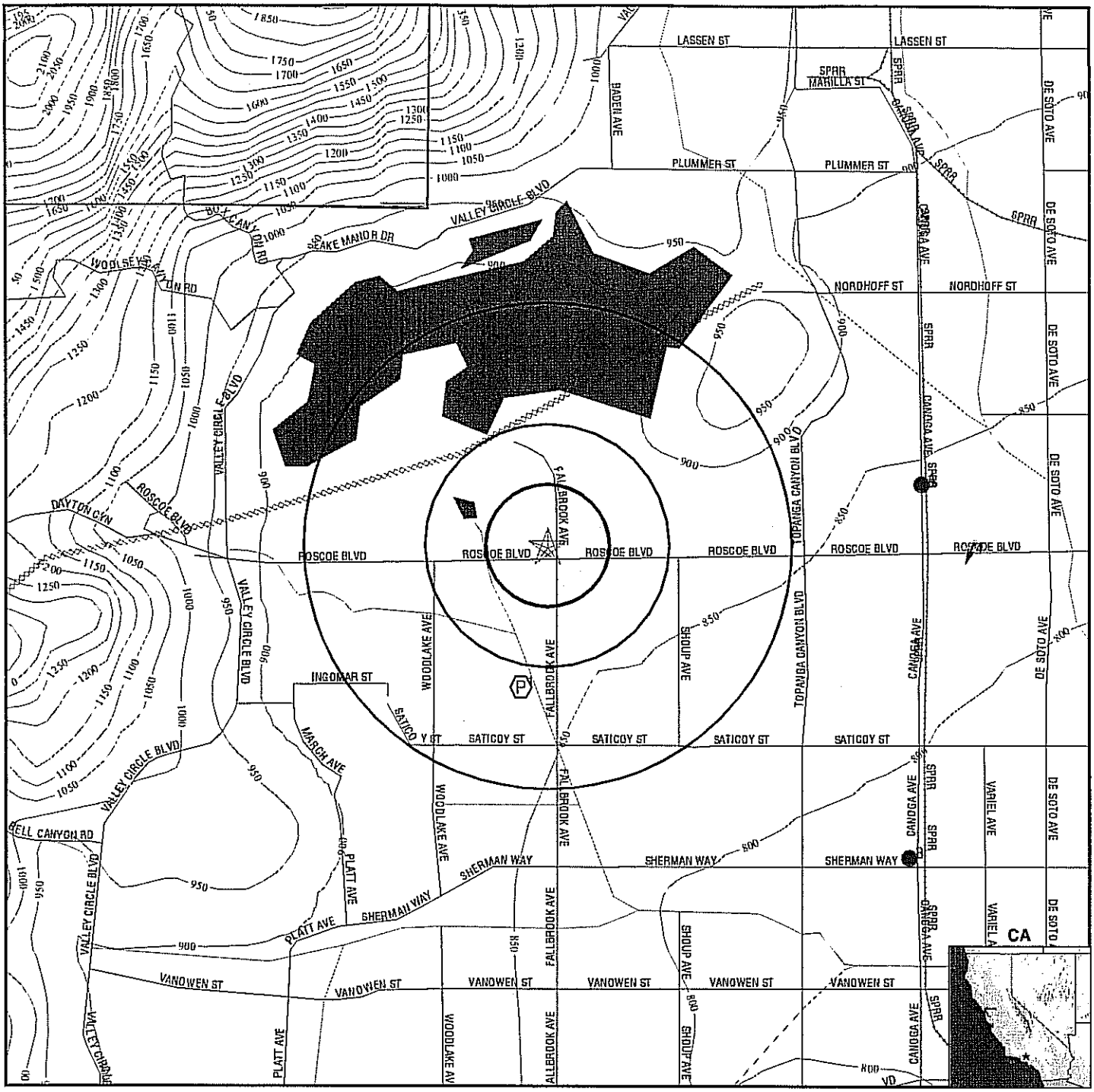
MAP ID	WELL ID	LOCATION FROM TP
1	CA3900735	1/2 - 1 Mile South

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 704883.3s



0 1/2 1 2 Miles

- Major Roads
- Contour Lines
- Earthquake Fault Lines
- (W) Water Wells
- (P) Public Water Supply Wells
- Groundwater Flow Direction
- (GI) Indeterminate Groundwater Flow at Location
- (GV) Groundwater Flow Varies at Location
- Cluster of Multiple Icons
- (O) Earthquake epicenter, Richter 5 or greater
- (HD) Closest Hydrogeological Data
- Oil, gas or related wells

TARGET PROPERTY:	Parcel C	CUSTOMER:	ENVIRON Corporation
ADDRESS:	8501 Fallbrook Avenue	CONTACT:	D. Scanlon
CITY/STATE/ZIP:	Canoga Park CA 91304	INQUIRY #:	704883.3s
LAT/LONG:	34.2201 / 118.6240	DATE:	November 19, 2001 2:52 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
1 **South** **1/2 - 1 Mile** **Higher**	**FRDS PWS**	**CA3900735**

PWS ID: CA3900735 PWS Status: Not Reported
Date Initiated: Not Reported Date Deactivated: Not Reported
PWS Name: CHARTER WAY MOBILE HOME PARK
HUNTINGTON BEACH, CA 926491828

Addressee / Facility: System Owner/Responsible Party
CASA DE SANTIAGO
16582 GRIMAUD LANE
HUNTINGTON BEACH, CA 926491828

Facility Latitude: 34 12 42 Facility Longitude: 118 37 30
City Served: Not Reported
Treatment Class: Untreated Population: 150

PWS currently has or had major violation(s) or enforcement: Yes

Violations information not reported.

ENFORCEMENT INFORMATION:

System Name: CHARTER WAY MOBILE HOME PA
Violation Type: Initial Tap Sampling for Pb and Cu
Contaminant: LEAD & COPPER RULE
Compliance Period: 1993-07-01 - 2015-12-31 Analytical Value: 0000000.000000000
Violation ID: 95V0001 Enforcement ID: Not Reported
Enforcement Date: Not Reported Enf. Action: Not Reported

System Name: CHARTER WAY MOBILE HOME PA
Violation Type: Initial Tap Sampling for Pb and Cu
Contaminant: LEAD & COPPER RULE
Compliance Period: 1993-07-01 - 2015-12-31 Analytical Value: 0000000.000000000
Violation ID: 95V0001 Enforcement ID: Not Reported
Enforcement Date: Not Reported Enf. Action: Not Reported

System Name: CHARTER WAY MOBILE HOME PA
Violation Type: Initial Tap Sampling for Pb and Cu
Contaminant: LEAD & COPPER RULE
Compliance Period: 1993-07-01 - 2000-04-04 Analytical Value: 0000000.000000000
Violation ID: 95V0001 Enforcement ID: 0089899
Enforcement Date: 2000-04-04 Enf. Action: State Compliance Achieved

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A2 **East** **1 - 2 Miles** **Lower**	Site ID: Not Reported Groundwater Flow: SW Shallow Water Depth: 7'bgs Deep Water Depth: 8'bgs Average Water Depth: Not Reported Date: 06/06/1997		**AQUIFLOW**	**69643**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID / Direction / Distance / Elevation			Database	EDR ID Number
A3 **East** **1 - 2 Miles** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	10954 NW 9 10 Not Reported 04/30/1997	**AQUIFLOW**	**66178**
4 **East** **1 - 2 Miles** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	913040589 SSW Not Reported Not Reported 50 07/22/1994	**AQUIFLOW**	**38149**
B5 **SE** **1 - 2 Miles** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	91300725 S 18.62 18.85 Not Reported 10/22/1991	**AQUIFLOW**	**38169**
B6 **SE** **1 - 2 Miles** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	913030752 SSE 17.34 17.68 Not Reported 07/29/1996	**AQUIFLOW**	**38152**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for LOS ANGELES County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 1999 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the national Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-260-2805
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-260-2805
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: In November 1971 the United States Geological Survey (USGS) implemented a national water resource information tracking system. This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on more than 900,000 wells, springs, and other sources of groundwater.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STATE RECORDS

California Drinking Water Quality Database
Source: Department of Health Services
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations for District 2 and 6
Source: Department of Conservation
Telephone: 916-323-1779

RADON

Area Radon Information: The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones: Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

APPENDIX C

Summary of Asbestos Reports

Appendix C
Summary of Asbestos Reports

Asbestos Survey Results, Hughes Aircraft Missile Systems Group, Building 269
This document consists of only a table with sample numbers, sample locations, descriptions, analytical results, and friability. No text report or cover page was included with this document.

Based on a review of this document, materials that were sampled from Building 269 (no longer located at the Property) included: several types of ceiling tiles, ceiling tile mastic, door gasket, drywall, pipe elbow insulation, valve packing, pipe valve insulation, and duct tape. The materials found to contain asbestos included: door gasket in oven #1 in room 1570, pipe elbow insulation, valve packing, and pipe valve insulation in mezzanine 03.

Interdepartmental Correspondence, Hughes Aircraft Company, regarding an asbestos survey conducted by International Technology, Inc. (IT), dated June 27, 1989
This survey included portions of Buildings 262 (Building A) and 270 (Building C). Suspect ACMs sampled in Building 262 included pipe and elbow insulation, pipe insulation debris, drywall, ceiling tile, fireproofing, ceiling tile mastic, plaster, and duct tape. Materials that were found to contain asbestos included pipe and elbow insulation and associated debris, plaster, and drywall. One sample of the drywall material and two samples of the plaster material were found to contain a trace amount of asbestos. The remaining samples of these materials were found to be non-detect for asbestos. Suspect ACMs sampled and found to contain asbestos in Building 270 included valve and gauge insulation pipe and elbow insulation and related debris. It is not known if other materials were sampled in this building. The pipe, elbow, valve, and gauge insulation materials reportedly were rated in a condition of 2 to 6. The rating system appears to be qualitative with 1 (worst condition) to 7 (best condition).

Interdepartmental Correspondence, Hughes Aircraft Company, dated June 20, 1989
This document refers to Buildings 272, 274, and 279, however only information relating to Building 272 (no longer at the Property) was reviewed as part of this scope of work. The remaining buildings were not located at the Property. Suspect ACMs sampled in this building included: drywall and drywall mud material. No asbestos was detected in the samples analyzed. Vinyl floor materials were reportedly assumed to contain asbestos.

Asbestos Survey Buildings 261, 264, and 268, September 13, 1989

Only information for Building 268 (Building B) was reviewed from this report. The remaining buildings were not part of the Property. Suspect ACMs sampled as part of this survey included: pipe elbow insulation, pipe trap insulation, transite vent pipe, "clean out" insulation at the roof drain, plaster, drywall, ceiling tiles, and duct tape. It is not known if the joint compound associated with the drywall was sampled. Sampled materials that were found to contain asbestos included: pipe elbow insulation, "clean out" insulation, and transite vent pipe. The ACMs were reportedly observed in conditions from 2 to 6.

Hughes Interdepartmental Correspondence, dated November 7, 1989

This memorandum indicates that ACM was identified on "some water pipes above the ceilings, drain lines, and in duct chaseways" in Building 262 (Building A). These materials were reportedly planned for removal between November and December 1989. No abatement reports or closeout documents were available to confirm the removal activities.

Asbestos Sampling and Laboratory Testing of Wall & Ceiling Construction Materials in Building 262 and 265 at the Hughes Missile Systems Group Facility, by E&A Environmental Services, Inc. (E&A), dated February 18, 1994

Only information pertaining to Building 262 is included in this review. Building 265 is not a part of the Property. According to this report, plaster and button board materials were sampled due to damage that occurred during the 1994 earthquake. The table of laboratory results included in this report was not legible, however, the text portion indicates that asbestos was detected in the plaster material on the first floor east end stairwell of the building. The material was reported to be damaged, and repair was recommended.

Asbestos Bulk Sampling at The Hughes Missile Systems Group, Building 262 & 268, by E&A, dated April 29, 1994

According to this report, suspect ACMs that were sampled in each of the buildings included: ceiling tiles, floor tiles and associated mastic, vapor barrier, drywall and joint compound, pipe insulation, roofing materials, vibration damper, and exterior paint. Materials that were found to contain asbestos in each of the buildings included: various floor tiles and mastic, drywall joint compound, mastic on an exterior wall base, exterior wall paint, pipe insulation, and roof mastic. The majority of these materials were reported as being in good condition, with damage reported on some pipe insulation and drywall.

Asbestos Bulk Sampling at The Hughes Missile Systems Group, Building 270, by E&A, dated April 20, 1994

According to this report, the suspect ACMs sampled were roofing materials. Asbestos was detected in roof flashing and black mastic patches. These materials were reported as being in good condition.

Visual Asbestos Survey of the Facility Located at 8433 Fallbrook, Canoga Park, California, by Earth Tech, November 30, 1994

This survey includes Buildings 261, 263, 264, 265, 268, 274, 276, 277, and 281. Only those portions of the report related to Building 268 were reviewed. The remaining buildings were not located at the Property. The purpose of the survey reportedly was to inspect the known ACMs and note any change in condition. The building was previously surveyed by IT in 1989.

The report indicates that damaged materials were observed in Building 268. Some areas of this building were not inspected because they were unsafe (presumably from earthquake damage). No information on the types of ACMs or locations was included in the report. According to this report, the majority of the damaged and/or friable pipe insulation identified in various buildings (assumed to include Building 268) in the 1989 IT survey, had been removed. Floor tiles and associated mastic were assumed to contain asbestos during the 1989 survey and reportedly were still in place during this survey.

Asbestos Inspection Report #R970732-2, Coast Federal Bank Facility, Buildings 262, 268, 269, 270, 272 & 282, by J&H Environmental, Inc. (J&H), dated July 21, 1997

This inspection reportedly was conducted to verify the extent of abatement work that had been performed and to collect samples to confirm the existence of non-friable ACMs. As part of the inspection, J&H reviewed prior asbestos documents, dated from 1989 to 1994. The buildings were not occupied at the time of the inspection, due to earthquake damage.

According to the J&H report, flooring materials, drywall joint compound, pipe insulation, exterior stucco (paint), and roofing materials in Buildings 262, 268, 269, and 270 had been found to contain asbestos. Drywall joint compound and roofing materials in Building 272 had been found to contain asbestos, and none of the suspect materials sampled in Building 282 were found to contain asbestos.

Asbestos Inspection Report, Coast Federal Bank Facility, Buildings 262, 268, 269, 270, 272, & 282, by J&H, dated August 6, 1997

The findings of this report are similar to the July 21, 1997 J&H report, moreover, confirmation of the removal of pipe insulation was included in this report. Based on this report, the majority of accessible asbestos-containing pipe insulation had been removed and replaced with fiberglass.

Asbestos Abatement Observation Report, Bldg #268, Coast Federal Bank Facility, by J&H, dated April, 1998

According to this report, floor tiles and mastic were removed from Building 268 during March and April 1998. Clearance air sample results were within the allowable limits. The quantity of material removed is not included in the report.

Emergency Asbestos Clean Up, Patch and Repair Report, Westhills Corporate Village, Building 8521, by J&H, dated November 6, 1999

The cleanup referenced in this report consisted of asbestos pipe insulation and debris located in and near the HVAC system on the roof of Building 8521 (known as Building B). Repairs were also made to damaged pipe, tee, and elbow insulation. Clearance air sampling was conducted and the results were within the allowable limits.

Asbestos Inspection Report, West Hills Corporate Village, Buildings 8501 and 8531, by J&H, dated November 15, 1999

Suspect ACMs sampled as part of this inspection included pipe insulation, silver paint, roof mastic, and several types of insulation. The pipe insulation was found to contain asbestos, and the remainder of the materials were reported as not containing asbestos. J&H recommended abatement of the ACMs, due to the poor condition.

APPENDIX D

Summary of ENVIRON's Review of Previous Reports

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Summary of ENVIRON's Review of Previous Reports

Letter, dated July 12, 1988

The earliest dated document available for ENVIRON's review is a letter from Calscience Engineering & Laboratories, Inc. (CEL) dated July 12, 1988, regarding supplemental information on excavation pits T-3 and T-13 (both of which were located at the Property). The letter indicated that two USTs were closed by abandonment at the Hughes Aircraft Company Missile Systems Group Facility, Canoga Park (Site or Facility), that comprised an area much larger than that of the Property. The letter further indicated that pits were excavated in those areas to approximate depths of 23 feet and samples were collected from the bottom and sides of the pits, and were analyzed for total recoverable petroleum hydrocarbons (TRPH). The letter reported that analytical results showed minimal contamination in pit T-13, while elevated concentrations were detected in pit T-3, and therefore, the extent of contamination in that area had not been delineated.

Potential Source Area Investigation Report for the Hughes Missile Systems Group, Canoga Park, California, prepared by McLaren Hart (Mclaren), dated November 30, 1989

Mclaren indicated that the Site covers approximately 80 acres; the report indicated that a plan view of the Facility showing all areas of chemical use and concern was included (this figure was not included in the report, but was provide to ENVIRON by AMLGM). McLaren further indicted that operations at the Site began in 1959 under ownership and occupants other than Hughes. Hughes first occupied the Site in 1966, and was still operating at the Facility in 1989 (mainly research and development activities in fifteen buildings). Mclaren reported that the main chemicals of concern at the Site included paints, solvents, and petroleum products including oils, diesel and gasoline; corrosives were also used in printed wire board plating. Since 1959, storage tanks have been used at the Site, including twenty-nine ASTs used primarily for processed water storage, six active USTs used for diesel and gasoline storage, seven abandoned USTs previously used for storage of oils and solvents, two polypropylene lined concrete pits, and several areas for drum storage. The USTs reportedly had resulted in releases and have impacted the Site with benzene, trichloroethene (TCE), 1,1-dichloroethene (DCE), and 1,1-dichloroethane (1,1-DCA). Eight of the aforementioned USTs were located at the Property.

Mclaren indicated that the Facility had been investigated for potential sources of contamination and that 53 areas of concern were identified and detailed on a figure, which was later provided to ENVIRON by AMLGM.

The McLaren report included a brief summary of activities in each of the buildings at the Site; only those buildings currently or previously located at the Property are summarized below:

- Building 262: areas used for solvent cleaning, paint storage, coating and lubrication operations.

- Building 268: areas where solvents, lubricants, spray paint and ferric chloride are used, copper etching was also conducted. A clarifier has been active since 1982 and receives photographic lab waste.

- Building 269: areas used for cleaning, vapor degreasing, bonding, metal machining, plating, painting, etching, soldering, photographic developing and laboratory operations.

- Building 270: areas used for degreasing, soldering, solvent cleaning, bonding, laboratory operations.

- Building 272: solvents, acids, bases, caustic materials, flammable and nonflammable liquid storage.

- Building 282: garage with gasoline, motor oil, antifreeze, and kerosene use.

- Hazardous Waste Storage Shed or Area (HWSA): solvent storage.

In addition to tank T-3 area, Mclaren recommended investigations at five areas, all of which are located at the Property:

1) Waste neutralization sump P-2 (clarifier near former building 269)
2) Buildings 269/270 plating areas
3) Building 270 UST T-12
4) Building 272 chemical storage area
5) Former drum storage area east of building 272.

Radioisotope Review and Comparison for the Hughes Missile Systems Group Facility, Canoga Park, California, by Mclaren, dated July 30, 1991

It is not clear what prompted this study. Mclaren reported that the objective was to evaluate whether radioactivity levels observed in ground water beneath the Facility were consistent with background levels within the region.

Uranium was identified as a naturally occurring radioisotope in rock and soil in nearby formations. Mclaren also reviewed a summary of the reported radioisotopes concentrations in ground water in the San Fernando Valley Area. On a regional basis, gross alpha, gross beta, total uranium, and radium-226 were detected at mean concentrations ranging from 2 to 41, 3.7 to 11.9, 18.3, and 0.1 to 0.8 picoCuries per liter (pCi/L), respectively. These radioisotopes were detected in ground water at the Site in the following ranges: Gross alpha 2.5 to 43.4 pCi/L, gross beta 5.5 to 20.4 pCi/L, total uranium 1.0 to 49.7 pCi/L, and radium-226 from 0.1 to 1.9 pCi/L. The drinking water standards (maximum contaminant levels or MCLs) for these radioisotopes are: Gross alpha 15 pCi/L, gross beta 50 pCi/L, total uranium 20 pCi/L, and radium-226 5 pCi/L.

Mclaren indicated that, although rock deposits at the Site have not been tested for radioisotopes, research suggests that uranium and radium are naturally occurring in this area. Mclaren concluded that, although radioisotopes are slightly elevated at the Site in comparison to other parts of San Fernando Valley, the occurrence could be attributed to uranium in geologic deposits. Mclaren recommended continuing to monitor the on-site ground water for uranium and radium-226 on a quarterly basis.

Feasibility Study for Ground Water Remediation at Hughes Aircraft Company Missile System Group Facility, by Groundwater Technology Inc. (GTI), February 14, 1992

ENVIRON was only provided with the executive summary and some of the figures from this report; the reviewed portions did not detail the contaminants present at the Property. The purpose of GTI's feasibility study was to evaluate the remedial activities for ground water containing dissolved-phase volatile organic compounds (VOCs) at the Site (which included the Property).

Based on its calculations of the volume of dissolved VOCs present in the ground water at the northeast portion of the Site, the estimated transmissivity of the underlying aquifer, and using a numerical ground water modeling program, GTI indicated that the capture zones produced by pumping would be sufficiently large to capture and remediate the existing plume within 20 years. GTI further indicated that the ground water pump-and-treat system using liquid-phase carbon would

be the most appropriate remedial technology for this Site. GTI recommended installing a minimum of nine ground water recovery wells to fully contain of the dissolved-phase plume.

Investigation of Radioactivity in Groundwater at the Hughes Aircraft Company, Canoga Park Facility, Canoga Park, California, prepared by Groundwater Resources Consultants, Inc. (GRCI), dated January 23, 1992

GRCI indicated that it collected ground water samples from twenty-seven monitoring wells at the Site. Only the summary and recommendations section of this report was available for ENVIRON's review. GRCI indicated that based on the analytical results from monitoring wells at the Site, all adjusted gross alpha results were below the drinking water standards. Several samples had uranium concentrations that exceeded the proposed MCL; these were attributed to naturally occurring uranium in the region's soils.

Phase I Environmental Report: Areas of Potential Chemical Release to Soil and Ground Water, Hughes Missile Systems Company, prepared by GTI, dated December 28, 1993

This report indicated that thirteen USTs exist or existed at the Site. Based on available figures from other reports, eight USTs were present at the Property (Tanks T-1 to T-4, T-12 to T-14, and T-17). GTI indicated that there are reports documenting the removal of ten tanks (T-1 to T-3, T-5 to T-10, and T-13). T-4 reportedly was abandoned in-place. Soils in the vicinity of these tanks reportedly have been impacted by VOCs.

Two storage pits (likely referring to the clarifiers) are reported to be present immediately east of Building 269, Mclaren identified one of them as a source of contamination. Two large cooling ponds reportedly were present between Buildings 262/263 (outside the Property) and 268/269 (at the Property). Two main chemical storage areas were identified at the Site as Building 272 and the HWSA, both located at the Property.

Report on Facility-Wide Site Assessment, Hughes Missile Systems Company, prepared by GTI, dated January 4, 1994

GTI indicated that investigations have been conducted at the Site since early 1980s but have not been thorough. GTI reported that three areas of the Site are known to be contaminated: (1) Northwestern corner from Building 269 to western edge of the Site (northwestern part of the Property); (2) area of monitoring well CM-8D (outside the Property); and (3) area of monitoring well CM-10 (outside the Property). As part of this investigation, GTI installed seven additional monitoring wells (central and eastern portions of the Facility) and advanced twenty soil borings (near

former plating areas by Building 269, along main sewer line from pit P-2, on periphery of Building 270, and at four random locations). Ground water samples were collected from these seven wells and from three existing wells. Soil samples were analyzed for metals and VOCs.

GTI reported that based on soil sampling analytical results, there was no evidence of releases in the areas sampled. VOCs were detected, however, in the ground water. Freon 11 was detected in samples collected from well CM-10.

Corrective Action Plan Addendum, Hughes Missile Systems Company, prepared by GTI, dated March 29, 1994

The GTI report indicated that VOCs are present in ground water at concentrations exceeding 100 micrograms per liter (µg/L) at three main areas of the Site:

- Northwestern corner of the Facility from north of Building 269 to the extreme northwestern edge of the Site (total petroleum hydrocarbons in the gasoline range [TPH-g] has also been detected in ground water in this area; furthermore, soils in this area are impacted with VOCs and TPH-g). The area includes former Tanks T-1 and T-2 (vicinity of Building 282), and T-3 (near monitoring well M-1).

- Area around monitoring well CM-8D, where tanks T-5, T-6, and T-10 were previously located (outside the Property).

- Area around monitoring well CM-10, ground water impacted with Freon 11 (outside the Property).

The report indicated that an interim ground water remediation system is operating at the Site, and consists of recovery wells RW-1 to RW-5 (operating since early 1993). GTI indicated that this report offers an addendum to the corrective action plan (CAP) previously prepared in 1992. ENVIRON does not have a copy of the 1992 CAP, which reportedly outlined a phased approach to Site remediation, as follows:

- Phase I: Containing the ground water contamination to prevent off-site migration (installing and operating 5 recovery wells).

- Phase II: Continuing Site Assessment and conducting pilot testing of alternative remedial technologies.

- Phase III: Designing and implementing an expanded Facility-wide remediation system.

- Phase IV: Verifying that remediation objectives have been met and requesting Site closure.

GTI indicated that Phase I was partially completed because a system has been installed; however, the system had not been operated because extracted ground water was found to be high in total dissolved solids (TDS) and could not be discharged to the storm drain. Hughes was obtaining a permit from the Regional Water Quality Control Board – Los Angeles Region (LARWQCB) to reuse the extracted ground water for on-site irrigation.

GTI also indicated that a pilot test of vapor extraction, air sparging and ground water pumping was conducted in May 1993. Moreover, in August and October 1993, additional assessments reportedly were conducted at the Facility, and no additional source areas were identified. The main contaminants at the Site are TPH-g, 1,1-DCE, and TCE with maximum concentrations detected in ground water at 24,000, 5,100, and 310 µg/L, respectively. 1,1,1-trichloroethane (TCA), 1,1-DCA, and tetrachloroethene (PCE) were also detected at lower concentrations. The chlorinated VOCs reportedly were detected down to 25 to 30 feet below the ground water table. GTI proposed the following: Seventeen ground water recovery wells (some of which had already been installed as part of Phase I), twenty five vapor extraction wells, and twenty nine air sparging/vapor extraction combination wells. The recovery wells were proposed to be screened from 5 feet above to 35 feet below the ground water table. GTI proposed no remediation but only monitoring of ground water in the area of CM-8D.

The addendum to the CAP did not re-list the cleanup goals, reportedly established in the CAP.

Contingent Closure and Post Closure Plans, Hughes Aircraft Company, Missile Systems Group, Canoga Park Facility, prepared by CH2M Hill, dated November 21, 1994

The Department of Toxics Substances Control (DTSC) had requested a contingent closure plan for Tank T-3, which was permitted under the Resource Conservation and Recovery Act (RCRA) when it was removed in 1988. Two RCRA permitted facilities reportedly were present at the Site: the HWSA, and the Tank T-3 (both are located at the Property). CH2M Hill reported that all remedial activities at T-3 area will be completed during closure, therefore, post closure care is not anticipated.

The contingent closure plan indicated that soil remediation in the tank vicinity was conducted in accordance with the CAP and was detailed in the Final Report for Remediation of Former Tank T-3 Site (November 1991, ENVIRON has no copies). CH2M Hill further reported that soils were excavated in the area of this tank and confirmation soil samples were compared to RCRA Universal Treatment Standards (UTS) and found to be below these standards. Ground water, however, was found to contain 1,1-DCE, TCA, TCE and PCE above UTS. The ground water was being remediated under oversight from the LARWQCB.

Technical Memorandum Records Review and Limited Site Investigation, Hughes Missile Systems Company, prepared by Earth Tech, dated November 28, 1994

Earth Tech conducted the work for a potential buyer with the purpose of: (1) evaluating whether current or past environmental investigations and remedial actions carried out by Hughes sufficiently identified past environmental conditions; (2) evaluating whether Hughes adequately mitigated areas of environmental impacts; and (3) documenting the current regulatory status of the Site. The portion of the Site considered for purchase lies outside the Property (to the south) and includes Buildings 261, 263, 264, 265, 271, 274, 276, 277, and 281. The report reiterates the three main areas of contamination at the Site (same as those described in the GTI 1994 report).

Earth Tech also indicated that based on its reviews, the following additional concerns were identified at the Site: (1) Hughes was still in the process of obtaining regulatory closure for its hazardous waste storage building from DTSC. (2) Chemical staining and powder residues were noted in Building 272 at the Property. (3) No sampling has been conducted for drain lines inside buildings; however, based on sampling in outside areas, contamination would be expected to be minor. (4) Earth Tech recommended that Clarifiers P-1 and P-2 be removed. (5) Although all tanks have been removed, no closure letters were available. Earth Tech conducted supplemental soil sampling in areas of several former USTs (figure shows locations), which did not reveal additional sources of VOCs or TPH-g.

LARWQCB, Order Number 95-012, Waste Discharge Requirements for Hughes Missile Systems (File No. 94-45), dated December 14, 1994

The Order indicated that in 1985 Hughes discovered that soils and ground water at the Facility were contaminated with VOCs, and that the lateral and vertical extent of contamination is believed to have been defined. The Order also indicated that Hughes has prepared a CAP, which has been approved by the LARWQCB. The CAP indicates that shallow ground water will be pumped and treated on-site using activated carbon; the treated water would be reused on-site for irrigation purposes. The

Order lists maximum discharge limitations for treated water for benzene, toluene, ethylbenzene, and xylenes (BTEX), chlorinated VOCs, oil and grease, TDS, sulfate, chloride, and boron. The Order requires quarterly monitoring of ground water and treatment systems at the Site; in addition, an annual summary is required to be submitted to the LARWQCB in March of each year.

Proposed Negative Declaration for Hughes Missile Systems, Canoga Park Facility Closure Plan, prepared by DTSC and dated January 1995

The document was prepared by DTSC for the closure units: HWSA and Tank T-3 (both located at the Property). The negative declaration describes the closure requirements and indicates that Hughes will prepare a final closure certification report upon completion of the closure activities; and if acceptable, the DTSC will issue a letter approving the certification to release DTSC of its financial assurance responsibility; the DTSC, however, indicated that it could still impose additional corrective action to be addressed during post closure if any credible evidence is obtained indicating there are new solid waste management units at the Site.

Memorandum regarding Areas of Concern for Hughes Missile Systems Group, prepared by DTSC and dated February 1995

The memorandum outlines tentative solid waste management units (SWMUs) and areas of concern (AOCs), based on existing data to date. Only areas located at the Property are listed below:

- Buildings 272 and 282, which are located at the Property north of Building 270, were previously used for hazardous waste storage and identified as sources of chlorinated solvents contamination. These buildings are SWMUs that require remediation.

- Portions of Building 262 at the Property are considered AOCs because of the long history of chemical usage and because wells located semi-downgradient (CM-8d, CM-9d, and CM-18) have 1,1-DCE. Further evaluation is required.

- Building 268, located at the Property, had several areas of active chemical use. Well CM-12 is located approximately 100 feet downgradient of this building and has high concentrations of 1,1-DCE. According to DTSC, this building is considered an AOC and a soil gas survey should be conducted in this area.

- Building 269, located at the Property, has been identified as a source of soil and ground water contamination; however, according to DTSC, not all potential sources in this building

have been investigated; therefore, the building remained an AOC requiring additional investigations. DTSC requested that a soil gas survey be conducted in this area.

- Building 270, located at the Property, had several source areas. The DTSC indicated that investigations have been conducted outside the building; however, the building would still need to be considered an AOC requiring further evaluation with respect to the previous interior uses and waste disposal. The DTSC further indicated that a soil gas survey is required as an initial step to evaluate this AOC.

- Tanks T-1, T-2 and associated pump island are located near Building 272 at the Property, are considered SWMUs. Also tanks T-5, T-6, T-7, T-8, T-9, and T-10, which appear to be south of the Property (near Buildings 281 and 263) are considered SWMUs.

- Tank T-12, located at the Property south of Building 270, was used for storage of waste solvent. T-13 was also a short distance away from T-12; both are AOCs requiring further evaluation.

- Tank T-14 reportedly was located south of Building 269, and another tank T-16 is shown on a map south of Building 269; neither tanks are discussed and would be considered AOCs until further evaluation was completed by Hughes.

Report on Soil Gas Surveying at Former Hughes Missile Systems Company, Canoga Park, prepared by GTI, dated August 1, 1995

Only the results and discussions portion of this report was available for ENVIRON's review. VOCs were detected in most soil gas samples. It appears that GTI divided the Site into 5 areas, as follows:

Area 1: East of Building 269, no evidence that there is additional sources other than T-3, T-1 and T-2.

Area 2: South of Building 270, no evidence of sources in this area.

Area 3: Southwest of Building 263 (outside the Property), no evidence of sources in this area.

Area 4: Southeast of Building 263 (outside the Property), no clear source area was identified; therefore GTI was not able to point to the origin of contamination detected in well CM-8D.

Area 5: Southeast of Building 265 (outside the Property), a Freon anomaly was detected in this area and could be attribute to releases from the sewer lines.

Letter, dated October 12, 1995

In a letter dated October 12, 1995, the DTSC indicated that initially soil and ground water cleanup standards were established for the Site based on the lowest numbers produced from a health risk assessment, background measurement, or MCLs. However, since those cleanup levels were established, the LARWQCB has issued a Waste Discharge Requirement (WDR) permit with limitations that are lower than MCLs. The DTSC was requesting from the LARWQCB a determination regarding which cleanup goals to use for the Site.

Letter, dated January 26, 1996

In a letter dated January 26, 1996 to the LARWQCB, the DTSC was requesting confirmation of the lead agency for the corrective action conducted at the Site. The letter indicated that on November 28, 1995, DTSC and LARWQCB agreed to include the Site on the SB1082 list. However, back in August 1990, Hughes and DTSC had entered into a consent agreement and order wherein Hughes would comply with LARWQCB requirements for the ground water remediation and monitoring. The LARWQCB responded in a letter dated January 30, 1996 that it has no objections to the DTSC's request to be the lead agency. The LARWQCB, however, requested to be copied on all future correspondence/reports regarding this case.

Quarterly Ground Water Monitoring Report, Fourth Quarter 1995, by Groundwater Resources Consultants Inc. (GRCI), January 10, 1996

ENVIRON reviewed only a text summary of this report, which did not include figures and tables. GRCI reported that in December 1995, the depth to ground water measured at the Site ranged from approximately 10 feet to 63 feet below ground surface (bgs). During the period from September 1995 to December 1995, water levels generally declined in peripheral wells and rose in wells located in or near the reclamation well field.

GRCI reported that the direction of ground water flow in the shallow portion of the saturated zone was generally to the south and southwest, which was consistent with previously reported ground

water flow. Ground water extraction from reclamation wells in the northwest portion of the Facility was reported to have resulted in a cone of depression. The portions of the report reviewed by ENVIRON did not include analytical results from the sampling activities.

Groundwater Monitoring, Quarterly Report, January-March 1996, Hughes Missile Systems Company, by Groundwater Technology, dated March 27, 1996

Based on this report, a ground water recovery system was in operation at the Site. Seventeen recovery wells reportedly were pumping on a cyclic basis, thirty-four monitoring wells (located on and off the Property) were gauged monthly for depth to ground water, while sixteen monitoring wells were sampled on a quarterly basis. GTI reported that the recovery system was permitted for treatment of up to 22,000-gallons per day (gpd) of extracted ground water. On average 4,000 and 11,000 gpd were treated and reused on-site for irrigation purposes. GTI estimated that remediation of the ground water would be completed sometime between 2001 and 2003.

Based on the first quarter 1996 monitoring, the depth to ground water in shallow wells ranged from 12.78 to 46.40 feet bgs, and the gradient was to the southwest in the northwest portion of the Site and to the south-southeast in the remainder of the Site. Treated ground water effluent reportedly met the discharge requirements specified in the WDR permit. Quarterly ground water sampling results had detectable VOCs in two of the monitoring wells and in twelve of the recovery wells.

Letter, dated August 6, 1996

In a letter dated August 6, 1996, the DTSC approved the Negative Declaration for Hughes' closure plan.

Limited Review of Potential Environmental Impacts to Former Hughes Missile System Company, by AllWest Geoscience, Inc. (Allwest), dated October 11, 1996

This review, conducted by Allwest, included Buildings 262, 268, 270, 272, and 282, all of which are currently, or were previously, located on the Property. The review included a site visit, file reviews at local regulatory agencies, and review of previous documents pertaining to the Property.

Based on its review of previous reports and site visit, Allwest reported the following findings:

- The area of the Property beneath Building 269, and northward to the Property boundary has soil and ground water contaminated with chlorinated VOCs and TPH-g. At the time of Allwest's site visit, this area was undergoing remediation, which included ground water

pumping/treatment, air sparging, and soil vapor extraction (SVE)/treatment. Allwest indicated that GTI was conducting quarterly ground water monitoring at the Site.

- Six USTs were previously located at the Property, and were used for storage of gasoline, waste oil, hydraulic fluid, solvent waste, fuel oil, and water. The tanks reportedly had been removed, however at the time of Allwest's report, no formal closure documents were available from regulatory agencies (most likely would have to be obtained from the Fire Department).

- Two clarifiers, located to the east of Building 269, reportedly were closed in-place. Allwest recommended excavating and removing the clarifiers, as well as sampling the soils beneath these structures.

- A clarifier and a system of pits and trenches were located in Building 268 (current Building B). Allwest recommended removing the pits and trenches and sampling the soils beneath this area.

- Stained floor areas were observed by Allwest in Buildings 268 and 269. Allwest recommended that these areas be sampled for solvents and heavy metals.

- Based on the age of the buildings at the Site, Allwest recommended that asbestos surveys and a structural inspection be conducted in the buildings.

Operation & Maintenance Program, Former Hughes Site, Canoga Park, prepared by GTI, dated February 25, 1997

In a letter submitted to the LARWQCB, GTI described its remediation system and detailed the proposed monitoring and maintenance activities that would be conducted at the Site. The remediation is described to include a ground water recovery system consisting of 17 recovery wells (first started in February 1995 and fully operational since March 1995); the recovery wells are connected to a holding tank, followed by two liquid-phase granular activated carbon (GAC) vessels. The treated effluent is reused for on-site irrigation purposes. An SVE system, which has operated since August 1995, included 54 manifolded extraction wells, which were originally connected to a thermal oxidizer (permitted by the South Coast Air Quality Management District-SCAQMD). The thermal oxidizer was removed in October 1995 and replaced by four vapor-phase GAC vessels

(SCAQMD permitted). The air sparging system operated since March 1996 and consisted of 30 manifolded wells, which are connected to an air compressor.

Environmental Sampling and Testing under Floor Slabs and Clarifiers, Former Hughes Missile Systems Company, by Allwest, dated June 27, 1997

Following its review in 1996, Allwest conducted additional sampling at the Property. Allwest advanced four borings in the pit and trench areas of Building 268, two borings near the former solvent tank in Building 269, and four borings near the clarifiers at Building 269 (all at the Property). Soil samples were collected at a depth of 2 feet bgs in all areas except near the clarifiers where samples were collected at 8 feet bgs. The samples were analyzed for VOCs by EPA Method 8260 and CAM metals by EPA 7000 Series methods.

No VOCs were detected in the soil samples collected during this investigation. Moreover, metals were reported to be within naturally occurring background levels.

Summary Review of Environmental Documents, Former Hughes Missile Systems Company, by Allwest, dated July 10, 1997

The purpose of Allwest's review of environmental documents was (a) to evaluate whether current and past investigations and remedial actions were sufficient to identify environmental conditions at the Property, (b) to evaluate whether areas with environmental impacts have been adequately mitigated, and (c) to document the current regulatory status of the Property.

Allwest summarized the following findings:

- Soil and ground water remediation conducted in the northwestern area of the former Hughes site appeared to be several years from completion.

- All USTs had reportedly been removed, however tank closures had not been granted by regulatory agencies (in this case, the Fire Department) and would reportedly not be granted until "all soil and ground water remediation at the Site is completed."

- Although no detectable contamination was found from soil samples collected from the sides of the clarifiers located near Building 269, additional soil sampling was recommended if the clarifiers were to be removed during demolition of this building.

- Allwest recommended that the pits and trenches in Building 268 be backfilled with sand or slurry and covered with a concrete cap. Soil sampling in this area reportedly showed no detectable contamination.

- Soil sampling in areas below the former solvent tanks at Building 269 reportedly showed no detectable contamination due to solvents or heavy metals.

Allwest concluded that the "existing contamination poses no health threat and will not interfere with the occupancy of the exiting or proposed buildings, provided that requirements of the Remedial Action Plans" were followed.

Letter, dated November 14, 1997

In a letter dated November 14, 1997, DTSC discusses the RCRA closure issues at the Site, which included Hazardous Waste Management Units (HWMUs), Corrective Action SWMUs, and AOCs. The letter does not detail all the RCRA closures required at the Site. The letter, however, indicated that one of the HWMUs is the former HWSA, where much of the closure plan requirements had been implemented. DTSC also indicated that the ground water remediation conducted at the Site also was cleaning up contamination from the other HWMU at the Site (the former underground hazardous waste storage tank T-3). The remediation also was believed to be removing contamination from beneath SWMU #1 (Building 272) and SWMU#2 (Building 282). However, DTSC indicated that additional investigations still were required near many of the SWMUs and AOCs, and would be clarified in a future Corrective Action Order to be issued for the Site (anticipated to be issued in January 1998). Finally, the DTSC letter indicated that Tank T-3 will be subject to post-closure monitoring requirements under Title 22, Article 6.

Letter, dated January 9, 1998

In a letter dated January 9, 1998, DTSC approved the Corrective Action (Solid Waste Management Units and Areas of Concern) Plan (SWMU CAP) proposed by Hughes (ENVIRON has not copies of the SWMU CAP). The DTSC letter indicated that Hughes could proceed with the demolition and disposal of the HWSA. Again, DTSC required that Hughes submit a Post-Closure Operation Plan for the Tank T-3 HWMU.

Ground Water and Remediation System Monitoring, October-December 1997 Quarterly Report and 1997 Annual Report for Raytheon Missile Systems Company by Fluor Daniel GTI, February 20, 1998

This report summarizes the remediation and monitoring activities conducted at the Site in 1997. Fluor Daniel GTI (FD/GTI) monitored ground water conditions and maintained the remediation systems for Raytheon Missile Systems Company. As previously mentioned, the remediation system included ground water recovery/treatment, SVE/treatment, and air sparging.

FD/GTI indicated that approximately 6,800 pounds of VOCs including 500 pounds of chlorinated solvents had been removed since start-up. VOCs were detected in three of the ten ground water monitoring wells sampled on a semiannual basis (none located at the Property); VOCs were also detected in eleven of the seventeen recovery wells sampled on a semiannual basis (RW-1, RW-6 through RW-8, RW-10 through RW-12 and RW-14 through RW-17). Additional samples were collected semiannually from Wells RW-6 and RW-12 and analyzed for TPH-g and BTEX, which reportedly were not detected. VOCs were also detected in two of the twenty-four monitoring wells (CM-13 and CM-18, both located at the Property) sampled annually. Boron, sulfate, chloride and total dissolved solids were detected in the treated ground water effluent samples collected annually.

Letter, dated May 15, 1998

In a letter to Raytheon Missile Systems Company dated May 15, 1998, FD/GTI provided a summary of the status of on-going ground water and soil vapor treatments at the Site. Influent VOCs concentrations measured in the vapor stream were reported to reaching an asymptotic limit of 3 to 4 part per million by volume (ppmv).

FD/GTI reported that demolition and construction activities at the Site had damaged several components of the SVE and air sparging systems.

Letters, dated May 19, 1998 and June 18, 1998

In a letter dated May 19, 1998, the DTSC indicated that Raytheon was in violation of Title 22, because it had failed to provide DTSC with the required post closure plan for T-3. In a letter dated June 18, 1998, DTSC indicated to the LARWQCB that Hughes has not complied with its RCRA closure requests.

Letter, dated June 30, 1998

In a letter dated June 30, 1998, DTSC acknowledged the request for change of ownership at the Facility from Hughes to Raytheon.

Plan for Modification of Remediation the Systems at the Former Hughes Missile Systems Company, prepared by Errol L. Montgomery & Associates, September 16, 1998

Errol L. Montgomery & Associates (EM&A), reported that recent sampling had showed that VOCs concentrations were below the established ground water cleanup criteria in eight of the forty-three ground water monitoring wells sampled. The EM&A report included a table listing the established cleanup goals for soils and ground water at the Site. The ground water cleanup goals appeared to be 10 times greater than the MCL. Furthermore, based on the EM&A table, soil cleanup goals were not established for individual chlorinated VOCs at the Site; the table lists a total chlorinated VOCs cleanup goal of 100 milligrams per kilogram (mg/kg). Finally, the EM&A table did not list any established goals for hexavalent chromium.

EM&A proposed some modifications to the remediation system to expedite cleanup. Based on EM&A's recommendations, Raytheon planned to install additional wells in areas of the Site where concentrations of VOCs in ground water remained above the cleanup criteria. Raytheon also planned to deactivate sixteen air sparging wells, twenty-seven SVE wells and four ground water reclamation wells located at portions of the Site where concentrations of VOCs in ground water were consistently measured to be below the cleanup criteria. In addition, EM&A reported that Raytheon planned to continue pilot testing high-vacuum dual-phase treatment at selected ground water recovery wells.

Summary Report of Supplemental Sampling and Analysis Performed at the Locations of Former Buildings 269, 272, 282; Raytheon Former Canoga Park Facility, Canoga Park, California, by Raytheon Systems Company, dated October 5, 1998

Raytheon prepared and submitted this letter report summarizing recent sampling events conducted by FD/GTI to DTSC. The letter indicated that no metals were detected in these areas above background levels. VOCs impacted soils and ground water were encountered in an area where metal working, finishing, and cleaning operations were known to have occurred within the former Building 269. FD/GTI recommended additional sampling along the western boundary of this area to further delineate the contamination plume. FD/GTI also recommended increasing the number of recovery wells to expedite cleanup, as outlined in the Plan for Modification of Remediation Systems dated September 16, 1998.

Previous sampling conducted by Allwest Geosciences in 1998 concluded that "there have been no environmental impacts from VOCs or metals to subsurface soil directly under the concrete floor slabs or adjacent to the clarifiers due to leaks or migration of contaminants through the concrete slabs." This sampling addressed the following SWMUs and AOCs:

- SWMU#1: Building 272
- SWMU#2: Building 282
- SWMU#3: Building 269, Pits 1 and 2
- AOC#13: Tank T-14

Therefore, Raytheon requested that DTSC remove these SWMUs and AOC from its RCRA Closure requirements (no indication whether DTSC approved this request).

Results of Follow-up Sampling and Analysis, Conducted September 21, 1998, in the HWSA, by FD/GTI, dated October 30, 1998

The FD/GTI sampling was conducted in accordance with a workplan submitted to the DTSC in August 1998 and revised in September 1998.

FD/GTI indicated that the demolition of the former HWSA started in June 1998, and included soil excavation and backfilling. Soil samples reportedly were collected from the walls and floor of the excavation in this area prior to its backfilling. Hexavalent chromium was previously detected at concentrations exceeding the DTSC approved closure plan level of 0.19 mg/kg in the acid and alkaline storage bays of the former HWSA. The purpose of the follow-up sampling conducted by FD/GT was to assess the lateral and vertical extent of hexavalent chromium in subsurface soils beneath the former HWSA. FD/GTI drilled five soil borings: three within the former HWSA, one to the south of the area and one to the east of the area. Samples were collected at depths of 13, 19, and 27 feet bgs within the former HWSA and at depths of 2, 5, 13, 19, and 27 feet bgs at the adjacent areas.

Samples from the former HWSA were analyzed for hexavalent chromium using EPA Method 7196, total organic carbon (TOC) using Test Method SM 5310B, total iron (Fe) using EPA Method 601D, ferrous iron using Test Method SM3500-Fe D, and manganese using EPA Method 6010. The samples collected south and east of the former HWSA were analyzed for hexavalent chromium only. Hexavalent chromium was detected at concentrations ranging from non-detect to 78 mg/kg. The highest detections were encountered at a depth of 19 feet bgs. The TOC concentrations ranged from

1,420 mg/kg to 16,400 mg/kg, the total Fe ranged from 8,800 mg/kg to 26,000 mg/kg, the ferrous Fe was non-detect for all samples analyzed, and the manganese concentrations ranged from 47 mg/kg to 480 mg/kg.

FD/GTI did not recommend any additional subsurface investigation or soil removal because the hexavalent chromium contaminated soils were encountered at minimal depths of 5 to 13 feet bgs. Furthermore, FD/GTI indicated that future grading in this area would raise the ground surface by approximately 5 feet. Therefore, FD/GTI did not believe that the hexavalent chromium encountered in the soils would pose a health threat. FD/GTI recommended sampling monitoring wells located up- and down-gradient of the former HWSA for hexavalent chromium on a quarterly basis for a period of one year to evaluate whether the impacted soils would result in impact to ground water.

Summary Review of Environmental Documents and Potential Environmental Impacts, Building A (Former Building 262), West Hills Corporate Village; prepared by Allwest, dated January 15, 1999
Allwest indicated that based on a 1995 Facility inspection and subsequent document review, the DTSC had concerns that the past usage of solvents may have impacted the soils at the sewer lines connecting to the main sewer from Building 262 (now Building A). Allwest indicated that Hughes was responding to DTSC's recommendations for additional investigations in this area. Allwest further reported that Hughes cleaned and washed down Building A prior to its remodeling. Building A is not captured by the current remediation system at the Property, but no source areas have been identified in this building, to date. Tank T-4 was located at the southeast corner of this building. Although all tanks have been removed, as previously mentioned, closure would not be issued until ground water remediation is completed at the Site. Allwest concluded that environmental conditions at Building A have been adequately characterized and would not interfere with future occupancy of Building A.

Letter, dated January 20, 1999
In a letter dated January 20, 1999, the LARWQCB approved Hughes' request to deactivate select air sparging, SVE, and ground water reclamation wells in areas of the Site where VOCs have been consistently detected at concentration below the established cleanup criteria. The LARWQCB also approved the installation of five additional recovery wells to prevent off-site migration of contaminants in the northwestern part of the Site.

Letter, dated January 21, 1999

In a letter dated January 21, 1999 and marked as URGENT, the DTSC expressed concerns over planned demolition and development activities at the Facility, which may affect areas considered to be SWMUs, AOCs or HWMUs; DTSC considered activities such as grading, demolition or development as unauthorized and would proceed with legal action against Raytheon and Regent Properties, Inc. DTSC requested that the Site owners/developers contact the Attorney General's office for further information.

Letter, dated January 26, 1999

In a letter dated January 26, 1999, Raytheon responded to DTSC and indicated that it does not plan to conduct redevelopment activities in areas of the Site considered to be SWMUs, HWMUs or AOCs. However, Raytheon indicated that it has requested closure of some of these areas from DTSC and has not received a response to date.

Ground Water and Remediation System Monitoring October-December 1998 Fourth Quarter and 1998 Annual Summary, prepared by IT Corporation (IT), dated February 20, 1999

During 1998, IT monitored remediation activities at the Site. The ground water recovery system generally remained at full operating capacity during 1998. The treated effluent was monitored weekly to ensure compliance with limits set by the LARWQCB. Sixty-nine monitoring and vapor extraction wells were gauged quarterly. Ten perimeter monitoring wells and seventeen recovery wells were sampled on a semiannual basis and analyzed for VOCs. During 1998, VOCs were detected in ten of the seventeen recovery wells (RW-1, RW-3, RW-7 RW-10 through RW-12, and RW-14 through RW-17). Additional samples were collected semiannually from wells RW-6 and RW-12 and analyzed for TPH-g and BTEX, which were not detected.

The high-vacuum, dual-phase extraction system were applied to targeted ground water recovery wells RW-1, RW-10, RW-11, RW-14 and RW-15. The evaluation period demonstrated that ground water recovery and vapor-phase volatile organics transport temporarily increased following application of the vacuum.

Letter, dated March 12, 1999

In a letter dated March 12, 1999, DTSC indicated that Raytheon's approach thus far of investigating small portions of the Facility and submitting such data to DTSC for closure of SWMUs or AOCs was not adequate. DTSC was requiring a RCRA Facility Investigation Workplan, which summarized all SWMUs, AOCs, and HWMUs identified at the Facility and investigations and corrective actions

conducted to date. DTSC would then work with Raytheon to prioritize these areas. However, since Raytheon had elected to stop its fee-for-service agreement with DTSC, DTSC staff could not perform significant work on the corrective action activities. DTSC further indicated that Raytheon was in violation of requirements to submit post-closure permit application for Tank T-3. Finally, DTSC indicated that Raytheon's plan to keep hexavalent chromium contaminated soils in-place and monitor the ground water in this area was not acceptable.

Letter, dated March 25, 1999

Raytheon responded to DTSC's comments in a letter dated March 25, 1999 and indicated that much of the data gaps referred to by DTSC had been filled in reports recently submitted to DTSC.

Additional Site Assessment Report, Sampling and Analysis at Former Building 269, Former Raytheon Systems Company, prepared by IT, dated April 1999

According to the IT report, this work included sampling soil and ground water in five temporary ground water wells in the location of former Building 269. The samples were analyzed for VOCs, and none were detected in the soil samples and ground water samples from four of the wells. PCE and TCE were detected in ground water samples collected from one of the wells at the respective concentrations of 5.1 and 13 µg/L.

IT concluded that the contamination was confined to an area of former metal working, finishing, and cleaning operations, and was being addressed by the on-going ground water and soil remediation. Therefore, no additional sampling was recommended in this area.

Letter, dated June 11, 1999

In a letter dated June 11, 1999, the LARWQCB approved Raytheon's request to modify the ground water remediation system at the Facility. The LARWQCB also permitted Raytheon to deactivate some of the air sparging/vapor extraction wells and the ground water extraction wells at the Facility. The pilot testing of the dual-phase treatment system at selected ground water recovery wells was to be continued. The letter also indicated approval of the modification plan to install additional wells in the areas of the Site where VOC concentrations in the ground water remain above the cleanup criteria.

Letter, dated July 22, 1999

In a letter dated July 22, 1999, DTSC reiterated that Raytheon has failed to provide the required closure and post-closure permit application for HWMUs at its Facility.

Letter, dated August 17, 1999

In a letter dated August 17, 1999, Raytheon indicated that it has agreed to include hexavalent chromium in its semiannual sampling events. Hexavalent chromium had been detected in ground water samples collected from Well RW-15 (located at the Property).

Letter, dated August 19, 1999

In a letter dated August 19, 1999, Raytheon responded to DTSC's July letter and indicated that it was making a diligent effort to meet the approved closure requirements for the HWSA.

Environmental Health Concerns, Planned Building D, West Hills Corporate Center, prepared by Allwest, dated September 13, 1999

This report concluded that with the continued operation of the ground water remediation system, there were no environmental impacts on the health or safety of the occupants of planned Building D. Allwest did not conduct a health risk assessment, rather it based its conclusion on the low concentrations of VOCs detected in near surface soils in this area.

Quarterly Remediation System and Ground Water Monitoring Report, July-September 1999, Third Quarter, Raytheon Company, Canoga Park, California, prepared by IT, dated October 1999

The remediation system continued to operate as described in previous monitoring reports. Samples were collected as part of a rebound sampling effort approved by the LARWQCB. VOCs were detected in both ground water and soil gas samples collected during this sampling event.

Hexavalent chromium was detected in three ground water samples collected from Well RW-15, with concentrations ranging from 0.083 to 0.1 milligrams per liter (mg/L). Hexavalent chromium was not detected in the remaining five ground water wells that were sampled during this event (CM-16, M-1, MW-17, RW-13 and RW-16). Upon detection of hexavalent chromium, RW-15 was disconnected from the remediation system and the LARWQCB and DTSC were notified. RW-15 is located adjacent to the former HWSA.

Letter, dated October 27, 1999

In a letter dated October 27, 1999, DTSC indicated that based on available records it does not appear that releases have occurred in the area of the proposed Building D at the Facility and therefore, DTSC did not believe that further investigations or remediation were required in this area prior to the construction of the new building.

Letters, dated December 16, 1999 and January 7, 2000

In a letter dated December 16, 1999, the LARWQCB approved Raytheon's request to install additional ground water monitoring wells as proposed in a letter dated December 10, 1999. Three wells were proposed in areas close to the former HWSA. However, in a letter dated January 7, 2000, DTSC indicated that the proposed workplan was inadequate for accurately determining the nature and extent of releases from the HWSA. The DTSC requested that a rationale be provided for the number, design and placement of ground water monitoring wells, as well as boring logs for nearby wells to justify design protocols.

Letters, dated April 13, 14, and 20, 2000

In letters dated April 13 and 20, 2000, the LARWQCB approved a proposed pilot test plan to evaluate a treatment system for the hexavalent chromium, detected in the ground water at Well RW-15. However, in a letter dated April 14, 2000, DTSC indicated that a workplan that was submitted for the delineation of contamination in the former HWSA was inadequate.

Environmental Impacts, West Hills Corporate Village, prepared by Allwest, dated June 14, 2000

Allwest indicated that its report conclusions are based on several conversations with DTSC and the LARWQCB staff regarding potential environmental health concerns at the Property (Buildings A to D). Moreover, Allwest reviewed select documents pertaining to previous investigations and monitoring conducted at the Property.

1,1-DCE, 1,1-DCA, PCE and TCE were noted as the primary VOCs of concern in the ground water at the Property. The ground water undergoing remediation is at depths of 30 to 40 feet bgs; the lead agency for the remediation is the LARWQCB; while the DTSC is the lead agency for RCRA closure at the Site. Allwest reported that the ground water remediation was progressing to the satisfaction of the LARWQCB. DTSC, however, had remaining concerns regarding identification of all sources of soil and ground water contamination and closure of SWMUs and other AOCs. According to Allwest, Raytheon was actively working with DTSC to address these concerns.

Allwest reported that, with the exception of delineating the hexavalent chromium contamination near the HWSA, adequate soil and ground water investigations had been conducted near the buildings.

Allwest concluded that based on available information, there were no anticipated health or safety impacts on occupants of the buildings.

Ground Water and Remediation System Monitoring October-December1999, Fourth Quarter, and 1999 Annual Report, prepared by IT, and dated August 2000

IT reported that treated ground water effluent continued to meet all discharge requirements specified in the WDR permit with the exception of naturally occurring boron. The treated ground water was reused on-site for irrigation purposes. Influent concentrations of petroleum fuel hydrocarbons had decreased over time to below laboratory detectable levels. Influent concentrations of halogenated VOCs (mainly TCA, 1,1-DCA and TCE) had also decreased over time.

The ground water flow gradient had remained relatively constant, with some anomalies in the northwestern portion of the Site due to fluctuations in the operation of the pumping wells.

Due to redevelopment activities, the SVE and air sparging systems were shut down since December 1998. As of December 1999, the SVE system, which had been operating since August 1995, was estimated to have removed 7,400 pounds of VOCs from the vadose zone. Influent concentrations of TPH-g and chlorinated VOCs had decreased over time.

During the second quarter of 1999, IT initiated a rebound sampling effort as described in the LARWQCB-approved Plan for Modification of Remediation Systems dated September 16, 1998. The main wells where VOC concentrations exceeded cleanup criteria were located along the northern boundary of the Site or in the vicinity of the eastern portion of the former Building 269. 1,1-DCE and 1,2-dichloroethane (1,2-DCA) were the main contaminants detected above their respective cleanup criteria. Soil gas samples were also collected during the third and fourth quarters of 1999. The main contaminants detected in the soil gas samples were 1,1-DCE and TCE.

Hexavalent chromium was detected in ground water samples collected from RW-15 with concentrations ranging from 0.083 to 0.1 mg/L. Hexavalent chromium was also detected in one of the ground water samples collected from Well M-1, at a concentration of 0.02 mg/L. This was the first occurrence of hexavalent chromium in this well, which is not connected to the ground water recovery system. Hexavalent chromium was not detected above the laboratory detection limit of

0.01 mg/L in the remaining four wells sampled in 1999. The six wells selected for hexavalent chromium sampling surround the former HWSA. A workplan to delineate the boundaries of hexavalent chromium in ground water and soil in the vicinity of the former storage area was developed and submitted to the DTSC.

Annual Ground Water Monitoring and Ground Water Remediation System Report January-December 2000, prepared by TN & Associates, Inc., dated January 29, 2001

TN & Associates, Inc. (TN&A) conducted annual ground water sampling and remediation system monitoring for 2000. As of December 2000, ten recovery wells were still pumping; four recovery wells were shut down during the first quarter of 2000 due to continuously low VOCs concentrations. Recovery well RW-15 was shut down during the second quarter of 2000 due to the presence of hexavalent chromium.

The SVE and air sparging systems were not in operation in 2000 because of Site demolition and construction activities.

The main contaminant detected in the influent samples to the ground water treatment system was DCE. Other VOCs detected in the influent ground water samples included: benzene, 1,1-DCA, 1,2-DCA, PCE, TCA and TCE. No VOCs were detected in the effluent samples. DCE was also detected in nine of the monitoring wells and four of the recovery wells at concentrations ranging from 110 to 1,900 µg/L (exceeding the CAP cleanup criteria of 60 µg/L). Other VOCs detected above their respective cleanup criteria were benzene, 1,2-DCA, and TCE.

A pilot test was completed at recovery well RW-15 in May of 2000 to test the effectiveness of the existing system in treating hexavalent chromium. It is not clear how the existing system of carbon vessels would be adequate in treating hexavalent chromium. The pilot test results reportedly showed that the existing remediation system was adequate for treating the hexavalent chromium plume. Nonetheless, RW-15 remained shut off until all the data and options for addressing the hexavalent chromium concentrations were evaluated.

In order to evaluate the extent of hexavalent chromium contamination, TN&A advanced four borings in the vicinity of the former HWSA area to total depths of 55 to 60 feet bgs. One of the borings was drilled through the footprint of the former HWSA and the other three were drilled adjacent to the former HWSA area in up-, cross-, and down-gradient locations. Nested monitoring wells were installed at each of the four locations, and were screened from 35 to 45 feet and 50 to 55 bgs.

Hexavalent chromium was detected in all ground water samples at concentrations ranging from 0.03 µg/L in the deep ground water zone to 120 µg/L in the shallow ground water zone.

Semiannual Ground Water Monitoring and Ground Water Remediation System Report, prepared by TN&A, dated September 12, 2001

TN&A summarized the semiannual ground water monitoring and remediation for January to June 2001. Concentrations of DCE for the first and second quarter 2001 influent samples were 290 µg/L and 220 µg/L, respectively. Other VOCs detected in the influent samples included: benzene, 1,1-DCA, 1,2-DCA, PCE, TCA and TCE. No VOC concentrations were detected in any of the effluent samples.

Weekly influent organic vapor readings from the SVE system ranged from 1 to 3 ppmv. Trace concentrations of DCE (0.19 ppmv), and TCA (0.75 ppmv), were the only contaminants detected in the monthly Tedlar bag samples collected from the influent vapor to the SVE system.

In June 2001, seven of the fourteen recovery wells sampled had DCE concentrations ranging from 100 to 800 µg/L, exceeding the CAP ground water cleanup goal of 60 µg/L. The sample from RW-6 had a benzene concentration at 2.5 µg/L, exceeding the CAP cleanup goal of 1 µg/L and the sample from well RW-14 had a 1,1-DCA concentration at 5.2 µg/L, exceeding the CAP cleanup goal of 5 µg/L.

TN&A was planning to implement a ground water sampling and analysis plan for the HWSA to monitor hexavalent chromium in the ground water. As of September 2001, the plan was still under review by DTSC.

Results of Quarterly Groundwater Monitoring, Former Hazardous Waste Storage Area; Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California, prepared by TN&A, dated January 23, 2002

TN&A reported the results of ground water monitoring for hexavalent chromium near the former HWSA. Eight wells, seven of which were installed in June of 2000, were monitored. Ground water levels were measured on October 29, 2001 and ground water samples were collected from the eight wells on October 29 and November 1, 2001. Hexavalent chromium concentrations ranged from less than 0.1 µg/l to 370 µg/l. The highest concentrations were found in the samples collected from wells MW-32S and MW-32D, both located within the footprint of the former HWSA.

APPENDIX E

Indoor Air Monitoring Results, Calculations and Laboratory Data Reports

Table 1
Exposure Calculations

SUMMARY OF DETECTED VOCS, OSHA PELS, AND PROPOSITION 65 NSRLS AND MADLS

Compounds Name	CAS Number	Molecular Weight (g/gmol)	OSHA PELs 8-hr Permissible Exposure Levels (ug/m^3)	Prop 65 Listed?	Prop 65 NSRL[4] (ug/day)	Prop 65 MADL[4] (ug/day)
Acetone	67641	58.1	2,400,000[3]	no	NA	NA
Benzene	71432	78.1	3,190 (1 ppm [2]) 31,900 (10 ppm [3])	yes, cancer	7.0	NA
Chloromethane	74873	50.5	207,000 (100 ppm [2])	yes, developmental	NA	not established[5]
Methylene Chloride	75092	84.9	86,750 (25 ppm [2])	yes, cancer	200.0	NA
2-Butanone	78933	72.1	590,000[3]	no	NA	NA
o-Xylene	95476	106.2	435,000[3]	no	NA	NA
Ethylbenzene	100414	106.2	435,000[3]	no	NA	NA
4-Methyl-2-Pentanone	108101	100.2	410,000[3]	no	NA	NA
Toluene	108883	92.1	754,000 (200 ppm[2],[3])	yes, developmental	NA	7000.0
Tetrachloroethene	127184	165.8	687,000 (100 ppm [2],[3])	yes, cancer	14.0	NA
Methyl-t-Butyl Ether (MTBE)	1634044	88.1	(not established)	no	NA	NA
p/m-Xylene	13302071/ 136777612	106.2	435,000[3]	no	NA	NA

Building A Compounds Name	Measured Concentrations A1 (ug/m^3)	A2 (ug/m^3)	A3 (ug/m^3)	Average Concentration (ug/m^3)	Is conc. above PEL ?	Daily Intake[1] ug/day	Is intake above Prop65 NSRL or MADL?
Acetone	38.0	45.0	40.0	41.0	no	410	NA
Benzene	3.2	3.7	3.3	3.4	no	34	yes, NSRL
Chloromethane	1.9	1.6	1.7	1.7	no	17	unable to compare[6]
Methylene Chloride	2.2	2.4	2.1	2.2	no	22	no
2-Butanone	5.4	6.1	5.2	5.6	no	56	NA
o-Xylene	2.2	2.8	2.5	2.5	no	25	NA
Ethylbenzene	1.9	2.3	2.2	2.1	no	21	NA
4-Methyl-2-Pentanone	ND	3.2	1.8	2.5	no	25	NA
Toluene	14.0	14.0	18.0	15.3	no	153	no
Tetrachloroethene	2.6	2.3	2.3	2.4	no	24	yes, NSRL
Methyl-t-Butyl Ether (MTBE)	8.9	10.0	9.3	9.4	NA	94	NA
p/m-Xylene	ND	7.3	6.8	7.1	no	71	NA

Sample ID Nos.: A1 (#01109); A2 (#01500); A3 (#01187)

Building B Compounds Name	Measured Concentrations B1 (ug/m^3)	B2 (ug/m^3)	B3 (ug/m^3)	Average Concentration (ug/m^3)	Is conc. above PEL ?	Daily Intake[1] ug/day	Is intake above Prop65 NSRL or MADL?
Acetone	34.0	37.0	34.0	35.0	no	350	NA
Benzene	3.3	3.4	3.3	3.3	no	33	yes, NSRL
Chloromethane	ND	1.7	1.5	1.6	no	16	unable to compare[6]
Methylene Chloride	2.1	2.3	2.0	2.1	no	21	no
2-Butanone	5.3	9.7	4.8	6.6	no	66	NA
o-Xylene	2.2	2.2	2.1	2.2	no	22	NA
Ethylbenzene	1.7	1.9	1.8	1.8	no	18	NA
4-Methyl-2-Pentanone	4.3	12.0	2.3	6.2	no	62	NA
Toluene	12.0	14.0	12.0	12.7	no	127	no
Tetrachloroethene	1.6	1.9	1.7	1.7	no	17	yes, NSRL
Methyl-t-Butyl Ether (MTBE)	8.8	9.0	8.8	8.9	NA	89	NA
p/m-Xylene	5.6	5.9	5.5	5.7	no	57	NA

Sample ID Nos.: B1 (#00357); B2 (#01162); B3 (#01605

Table 1
Exposure Calculations

Building C	Measured Concentrations		Representative	Is conc.	Daily	Is intake
	C1	C2[7]	Concentration	above	Intake[1]	above Prop65
Compounds Name	(ug/m^3)	(ug/m^3)	(ug/m^3)	PEL ?	ug/day	NSRL or MADL?
Acetone	30.0	27.0	30.0	no	300	NA
Benzene	3.5	ND	3.5	no	35	yes, NSRL
Chloromethane	ND	ND	NA	no	NA	NA
Methylene Chloride	2.1	ND	2.1	no	21	no
2-Butanone	4.2	ND	4.2	no	42	NA
o-Xylene	3.6	ND	3.6	no	36	NA
Ethylbenzene	2.4	ND	2.4	no	24	NA
4-Methyl-2-Pentanone	6.7	ND	6.7	no	67	NA
Toluene	13.0	14.0	13.0	no	130	no
Tetrachloroethene	1.8	ND	1.8	no	18	yes, NSRL
Methyl-t-Butyl Ether (MTBE)	9.7	8.7	9.7	NA	97	NA
p/m-Xylene	8.5	ND	8.5	no	85	NA

Sample ID Nos.: C1 (#01326); C2 (#01132)

Building D	Measured Concentration	Representative	Is conc.	Daily	Is intake
	D1	Concentration	above	Intake[1]	above Prop65
Compounds Name	(ug/m^3)	(ug/m^3)	PEL ?	ug/day	NSRL or MADL?
Acetone	32.0	32.0	no	320	NA
Benzene	3.6	3.6	no	36	yes, NSRL
Chloromethane	ND	NA	no	NA	NA
Methylene Chloride	2.1	2.1	no	21	no
2-Butanone	4.2	4.2	no	42	NA
o-Xylene	2.4	2.4	no	24	NA
Ethylbenzene	1.9	1.9	no	19	NA
4-Methyl-2-Pentanone	ND	NA	no	NA	NA
Toluene	13.0	13.0	no	130	no
Tetrachloroethene	1.9	1.9	no	19	yes, NSRL
Methyl-t-Butyl Ether (MTBE)	10.0	10.0	NA	100	NA
p/m-Xylene	6.2	6.2	no	62	NA

Sample ID No.: D1 (#01277)

Notes:

[0] Each sample was obtained using SUMMA canister and 8-hour flow controller; samples were analyzed by EPA Method TO-15.

[1] Intake = Maximum Concentration * Occupational Breathing Rate

10 m^3/day; 8-hr Occupational Breathing Rate,

[2] NIOSH Pocket Guide to Chemical Hazards; June 1997; OSHA Permissible Exposure Level (PEL) 8-hr time weighted average (TWA).

[3] Limits for Air Contaminants. - 29 CFR 1910.1000 TABLE Z-1 and Table Z-2; August 4, 1997.

[4] Proposition 65 Status Report, No Significant Risk Levels (NSRL) for Carcinogens and Maximum Allowable Daily Levels (MADL) for Chemicals Causing Reproductive Toxicity; February 2001.

[5] The MADL has not been established for Chloromethane. It is on the 3rd priority list, which is not likely to be developed for at least 3 years from February 2001.

[6] The California Office of Environmental Health and Hazard Assessment (OEHHA) has not established a chronic Reference Exposure Level (REL) for Chloromethane.

[7] This sample did not obtain a reasonable amount of sample air; hence, the detection limits were roughly 5 times higher.

C:\windows\TEMP\[MEPT_measurements.xls]VOCs

Table 2
Cancer Risk Calculations under Proposition 65

Carcinogenic Risk Calculations for Inhalation Pathway:

Risk = CPS x Dose

where,

Risk - Cancer Risk, 1×10^{-5} (Proposition 65 No Significant Risk Level)

CPS - Cancer Potency Slope, $(mg/kg\text{-}day)^{-1}$, OEHHA, December 2001

Dose, mg/kg-day = (C x IR x EF x ED x CF) / (BW x AT)

C - Concentration in air, ug/m^3 (maximum measured level indoor)

IR - Inhalation Rate - 20 m^3/day for adults and adolescents (24 hrs/day),

Note: half the daily-IR will be used to represent 8 hrs/day due to activity.

EF - Exposure Frequency - 250 days/year for workers (5 days/wk and 50 wks/yr)

ED - Exposure Duration - 20.1 years for workers

CF - Conversion Factor (0.001 mg/ug)

BW - Body Weight - 70 kg for adults

AT - Averaging Time, 25550 days for lifetime

SUMMARY OF OCCUPATIONAL EXPOSURE SCENARIOS

Building A - Adult Workers (8 hours/day, National Median: 20.1 years*):

	Risk	CPS	Dose	C	IR	EF	ED*	CF	BW	AT
Benzene	**9.55E-06**	1.0E-01	9.6E-05	3.4	10	250	20.1	0.001	70	25550
Tetrachloroethene	**1.42E-06**	2.1E-02	6.7E-05	2.4	10	250	20.1	0.001	70	25550

Building B - Adult Workers (8 hours/day, National Median: 20.1 years*):

	Risk	CPS	Dose	C	IR	EF	ED*	CF	BW	AT
Benzene	**9.37E-06**	1.0E-01	9.4E-05	3.3	10	250	20.1	0.001	70	25550
Tetrachloroethene	**1.02E-06**	2.1E-02	4.9E-05	1.7	10	250	20.1	0.001	70	25550

Building C - Adult Workers (8 hours/day, National Median: 20.1 years*):

	Risk	CPS	Dose	C	IR	EF	ED*	CF	BW	AT
Benzene	**9.83E-06**	1.0E-01	9.8E-05	3.5	10	250	20.1	0.001	70	25550
Tetrachloroethene	**1.06E-06**	2.1E-02	5.1E-05	1.8	10	250	20.1	0.001	70	25550

Building D - Adult Workers (8 hours/day, Construction Worker: 2 years):

	Risk	CPS	Dose	C	IR	EF	ED**	CF	BW	AT
Benzene	**1.01E-06**	1.0E-01	1.0E-05	3.6	10	250	2	0.001	70	25550
Tetrachloroethene	**1.12E-07**	2.1E-02	5.3E-06	1.9	10	250	2	0.001	70	25550

*Source: *U.S. EPA Exposure Factors Handbook Volume III - Activity Factors, Table 15-158*. EPA/600/P-95/002Fc, August, 1997.

** Building D is currently under construction.

C:\windows\TEMP\[MEPT_measurements.xls]Inh Cancer Risk (EPA)

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LABORATORY REPORT

Client:	Environ International Corporation	Date of Report:	03/07/02
Address:	707 Wilshire Blvd., Suite 4950	Date Received:	02/28/02
	Los Angeles, CA 90017	PAI Project No:	P2200394
Contact:	Ms. Debbie Scanlon	Purchase Order:	Verbal

Client Project ID: MEPT / Canoga Park

Nine (9) Stainless Steel Summa Canisters labeled:

"C1" "C2" "D1" "A1" "A2" "A3" "B1" "B2" "B3"

The samples were received at the laboratory under chain of custody on February 28, 2002. The samples were received intact. The client requested and received 3 day rush results. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time that they were received at the laboratory.

Volatile Organic Compound Analysis

The samples were analyzed by combined gas chromatography/mass spectrometry (GC/MS) for volatile organic compounds. The analyses were performed according to the methodology outlined in EPA Method TO-15. The analyses were performed by gas chromatography/mass spectrometry, utilizing a direct cryogenic trapping technique. The analytical system used was comprised of a Hewlett Packard Model 5972 GC/MS/DS interfaced to a Tekmar AutoCan Elite whole air inlet system/cryogenic concentrator. A 100% Dimethylpolysiloxane capillary column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation

The results of analyses are given on the attached data sheets.

Reviewed and Approved:

Wade Henton
Senior Chemist

Reviewed and Approved:

Chris Parnell
Senior Chemist

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **C1**
Client Project ID: **METP / Canoga Park**

PAI Project ID: P2200394
PAI Sample ID: P2200394-001

Test Code: EPA TO-15
Instrument ID: HP5972/Tekmar AUTOCan Elite
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: #01326

Date Collected: 2/28/02
Date Received: 2/28/02
Date(s) Analyzed: 3/1/02
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -4.3 Pf 1 = 3.5

D.F. = 1.75

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	2.0	ND	0.52	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	**30**	1.0	**13**	0.42	
75-69-4	Trichlorofluoromethane	ND	2.0	ND	0.36	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	**2.1**	1.0	**0.61**	0.29	
76-13-1	Trichlorotrifluoroethane	ND	3.0	ND	0.39	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	**9.7**	1.0	**2.7**	0.28	
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28	
78-93-3	2-Butanone (MEK)	**4.2**	1.0	**1.4**	0.34	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25	
67-66-3	Chloroform	ND	1.0	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.18	
71-43-2	Benzene	**3.5**	1.0	**1.1**	0.31	
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16	
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 3/5/02

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **C1**
Client Project ID: **METP / Canoga Park**

PAI Project ID: P2200394
PAI Sample ID: P2200394-001

Test Code: EPA TO-15
Instrument ID: HP5972/Tekmar AUTOCan Elite
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: #01326

Date Collected: 2/28/02
Date Received: 2/28/02
Date(s) Analyzed: 3/1/02
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -4.3 Pf 1 = 3.5

D.F. = 1.75

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15	
79-01-6	Trichloroethene	ND	1.0	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22	
108-10-1	4-Methyl-2-pentanone	**6.7**	1.0	**1.6**	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.18	
108-88-3	Toluene	**13**	1.0	**3.6**	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12	
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13	
127-18-4	Tetrachloroethene	**1.8**	1.0	**0.27**	0.15	
108-90-7	Chlorobenzene	ND	1.0	ND	0.22	
100-41-4	Ethylbenzene	**2.4**	1.0	**0.56**	0.23	
136777-61-2	*m,p*-Xylenes	**8.5**	1.0	**2.0**	0.23	
75-25-2	Bromoform	ND	1.0	ND	0.097	
100-42-5	Styrene	ND	1.0	ND	0.23	
95-47-6	o-Xylene	**3.6**	1.0	**0.82**	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 3/5/02

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **C2**
Client Project ID: **METP / Canoga Park**

PAI Project ID: P2200394
PAI Sample ID: P2200394-002

Test Code: EPA TO-15
Instrument ID: HP5972/Tekmar AUTOCan Elite
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: #01132

Date Collected: 2/28/02
Date Received: 2/28/02
Date(s) Analyzed: 3/1/02
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -11.6 Pf 1 = 3.5

D.F. = 5.87

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	5.0	ND	2.4	
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0	
74-83-9	Bromomethane	ND	10	ND	2.6	
75-00-3	Chloroethane	ND	5.0	ND	1.9	
67-64-1	Acetone	**27**	5.0	**11**	2.1	
75-69-4	Trichlorofluoromethane	ND	10	ND	1.8	
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3	
75-09-2	Methylene chloride	ND	5.0	ND	1.4	
76-13-1	Trichlorotrifluoroethane	ND	15	ND	2.0	
75-15-0	Carbon Disulfide	ND	5.0	ND	1.6	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ND	1.3	
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2	
1634-04-4	Methyl tert-Butyl Ether	**8.7**	5.0	**2.4**	1.4	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	5.0	ND	1.7	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ND	1.3	
67-66-3	Chloroform	ND	5.0	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ND	0.92	
71-43-2	Benzene	ND	5.0	ND	1.6	
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80	
78-87-5	1,2-Dichloropropane	ND	5.0	ND	1.1	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RC Date: 3/5/02

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **C2**
Client Project ID: **METP / Canoga Park**

PAI Project ID: P2200394
PAI Sample ID: P2200394-002

Test Code: EPA TO-15
Instrument ID: HP5972/Tekmar AUTOCan Elite
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: #01132

Date Collected: 2/28/02
Date Received: 2/28/02
Date(s) Analyzed: 3/1/02
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -11.6 Pf 1 = 3.5

D.F. = 5.87

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	5.0	ND	0.75	
79-01-6	Trichloroethene	ND	5.0	ND	0.93	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	ND	1.1	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ND	1.2	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	ND	1.1	
79-00-5	1,1,2-Trichloroethane	ND	5.0	ND	0.92	
108-88-3	Toluene	**14**	5.0	**3.8**	1.3	
591-78-6	2-Hexanone	ND	5.0	ND	1.2	
124-48-1	Dibromochloromethane	ND	5.0	ND	0.59	
106-93-4	1,2-Dibromoethane	ND	5.0	ND	0.65	
127-18-4	Tetrachloroethene	ND	5.0	ND	0.74	
108-90-7	Chlorobenzene	ND	5.0	ND	1.1	
100-41-4	Ethylbenzene	ND	5.0	ND	1.2	
136777-61-2	*m,p*-Xylenes	ND	5.0	ND	1.2	
75-25-2	Bromoform	ND	5.0	ND	0.48	
100-42-5	Styrene	ND	5.0	ND	1.2	
95-47-6	o-Xylene	ND	5.0	ND	1.2	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	ND	0.73	
541-73-1	1,3-Dichlorobenzene	ND	5.0	ND	0.83	
106-46-7	1,4-Dichlorobenzene	ND	5.0	ND	0.83	
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.83	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 3/5/02

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **D1** PAI Project ID: P2200394
Client Project ID: **METP / Canoga Park** PAI Sample ID: P2200394-003

Test Code: EPA TO-15 Date Collected: 2/28/02
Instrument ID: HP5972/Tekmar AUTOCan Elite Date Received: 2/28/02
Analyst: Wade Henton Date(s) Analyzed: 3/1/02
Sampling Media: Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: #01277

Pi 1 = -3.3 Pf 1 = 3.5
D.F. = 1.60

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	2.0	ND	0.52	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	**32**	1.0	**13**	0.42	
75-69-4	Trichlorofluoromethane	ND	2.0	ND	0.36	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	**2.1**	1.0	**0.61**	0.29	
76-13-1	Trichlorotrifluoroethane	ND	3.0	ND	0.39	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	**10**	1.0	**2.9**	0.28	
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28	
78-93-3	2-Butanone (MEK)	**4.2**	1.0	**1.4**	0.34	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25	
67-66-3	Chloroform	ND	1.0	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.18	
71-43-2	Benzene	**3.6**	1.0	**1.1**	0.31	
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16	
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RC Date: 3/5/02

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **D1** PAI Project ID: P2200394
Client Project ID: **METP / Canoga Park** PAI Sample ID: P2200394-003

Test Code: EPA TO-15 Date Collected: 2/28/02
Instrument ID: HP5972/Tekmar AUTOCan Elite Date Received: 2/28/02
Analyst: Wade Henton Date(s) Analyzed: 3/1/02
Sampling Media: Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: #01277

Pi 1 = -3.3 Pf 1 = 3.5
D.F. = 1.60

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15	
79-01-6	Trichloroethene	ND	1.0	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22	
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.18	
108-88-3	Toluene	**13**	1.0	**3.5**	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12	
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13	
127-18-4	Tetrachloroethene	**1.9**	1.0	**0.28**	0.15	
108-90-7	Chlorobenzene	ND	1.0	ND	0.22	
100-41-4	Ethylbenzene	**1.9**	1.0	**0.44**	0.23	
136777-61-2	*m,p*-Xylenes	**6.2**	1.0	**1.4**	0.23	
75-25-2	Bromoform	ND	1.0	ND	0.097	
100-42-5	Styrene	ND	1.0	ND	0.23	
95-47-6	o-Xylene	**2.4**	1.0	**0.56**	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **A1**
Client Project ID: **METP / Canoga Park**

PAI Project ID: P2200394
PAI Sample ID: P2200394-004

Test Code: EPA TO-15
Instrument ID: HP5972/Tekmar AUTOCan Elite
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: #01109

Date Collected: 2/28/02
Date Received: 2/28/02
Date(s) Analyzed: 3/1/02
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.5 Pf 1 = 3.5

D.F. = 1.63

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	**1.9**	1.0	**0.92**	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	2.0	ND	0.52	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	**38**	1.0	**16**	0.42	
75-69-4	Trichlorofluoromethane	ND	2.0	ND	0.36	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	**2.2**	1.0	**0.62**	0.29	
76-13-1	Trichlorotrifluoroethane	ND	3.0	ND	0.39	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	**8.9**	1.0	**2.5**	0.28	
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28	
78-93-3	2-Butanone (MEK)	**5.4**	1.0	**1.8**	0.34	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25	
67-66-3	Chloroform	ND	1.0	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.18	
71-43-2	Benzene	**3.2**	1.0	**1.0**	0.31	
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16	
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **A1**
Client Project ID: **METP / Canoga Park**

PAI Project ID: P2200394
PAI Sample ID: P2200394-004

Test Code: EPA TO-15
Instrument ID: HP5972/Tekmar AUTOCan Elite
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: #01109

Date Collected: 2/28/02
Date Received: 2/28/02
Date(s) Analyzed: 3/1/02
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.5 Pf 1 = 3.5

D.F. = 1.63

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15	
79-01-6	Trichloroethene	ND	1.0	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22	
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.18	
108-88-3	Toluene	**14**	1.0	**3.6**	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12	
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13	
127-18-4	Tetrachloroethene	**2.6**	1.0	**0.39**	0.15	
108-90-7	Chlorobenzene	ND	1.0	ND	0.22	
100-41-4	Ethylbenzene	**1.9**	1.0	**0.44**	0.23	
136777-61-2	*m,p*-Xylenes	**6.0**	1.0	**1.4**	0.23	
75-25-2	Bromoform	ND	1.0	ND	0.097	
100-42-5	Styrene	ND	1.0	ND	0.23	
95-47-6	o-Xylene	**2.2**	1.0	**0.52**	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **A2**
Client Project ID: **METP / Canoga Park**

PAI Project ID: P2200394
PAI Sample ID: P2200394-005

Test Code: EPA TO-15
Instrument ID: HP5972/Tekmar AUTOCan Elite
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: #01500

Date Collected: 2/28/02
Date Received: 2/28/02
Date(s) Analyzed: 3/1/02
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.3 Pf 1 = 3.5

D.F. = 1.60

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	**1.6**	1.0	**0.78**	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	2.0	ND	0.52	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	**45**	1.0	**19**	0.42	
75-69-4	Trichlorofluoromethane	ND	2.0	ND	0.36	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	**2.4**	1.0	**0.68**	0.29	
76-13-1	Trichlorotrifluoroethane	ND	3.0	ND	0.39	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	**10**	1.0	**2.8**	0.28	
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28	
78-93-3	2-Butanone (MEK)	**6.1**	1.0	**2.1**	0.34	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25	
67-66-3	Chloroform	ND	1.0	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.18	
71-43-2	Benzene	**3.7**	1.0	**1.2**	0.31	
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16	
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **A2** PAI Project ID: P2200394
Client Project ID: **METP / Canoga Park** PAI Sample ID: P2200394-005

Test Code: EPA TO-15 Date Collected: 2/28/02
Instrument ID: HP5972/Tekmar AUTOCan Elite Date Received: 2/28/02
Analyst: Wade Henton Date(s) Analyzed: 3/1/02
Sampling Media: Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: #01500

Pi 1 = -3.3 Pf 1 = 3.5
D.F. = 1.60

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15	
79-01-6	Trichloroethene	ND	1.0	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22	
108-10-1	4-Methyl-2-pentanone	**3.2**	1.0	**0.78**	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.18	
108-88-3	Toluene	**14**	1.0	**3.7**	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12	
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13	
127-18-4	Tetrachloroethene	**2.3**	1.0	**0.33**	0.15	
108-90-7	Chlorobenzene	ND	1.0	ND	0.22	
100-41-4	Ethylbenzene	**2.3**	1.0	**0.52**	0.23	
136777-61-2	*m,p*-Xylenes	**7.3**	1.0	**1.7**	0.23	
75-25-2	Bromoform	ND	1.0	ND	0.097	
100-42-5	Styrene	ND	1.0	ND	0.23	
95-47-6	o-Xylene	**2.8**	1.0	**0.66**	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **A3** PAI Project ID: P2200394
Client Project ID: **METP / Canoga Park** PAI Sample ID: P2200394-006

Test Code: EPA TO-15 Date Collected: 2/28/02
Instrument ID: HP5972/Tekmar AUTOCan Elite Date Received: 2/28/02
Analyst: Wade Henton Date(s) Analyzed: 3/1/02
Sampling Media: Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: #01187

Pi 1 = -3.0 Pf 1 = 3.5

D.F. = 1.56

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	**1.7**	1.0	**0.80**	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	2.0	ND	0.52	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	**40**	1.0	**17**	0.42	
75-69-4	Trichlorofluoromethane	ND	2.0	ND	0.36	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	**2.1**	1.0	**0.62**	0.29	
76-13-1	Trichlorotrifluoroethane	ND	3.0	ND	0.39	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	**9.3**	1.0	**2.6**	0.28	
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28	
78-93-3	2-Butanone (MEK)	**5.2**	1.0	**1.8**	0.34	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25	
67-66-3	Chloroform	ND	1.0	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.18	
71-43-2	Benzene	**3.3**	1.0	**1.0**	0.31	
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16	
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 3/5/02

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **A3**
Client Project ID: **METP / Canoga Park**

PAI Project ID: P2200394
PAI Sample ID: P2200394-006

Test Code: EPA TO-15
Instrument ID: HP5972/Tekmar AUTOCan Elite
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: #01187

Date Collected: 2/28/02
Date Received: 2/28/02
Date(s) Analyzed: 3/1/02
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.0 Pf 1 = 3.5

D.F. = 1.56

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15	
79-01-6	Trichloroethene	ND	1.0	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22	
108-10-1	4-Methyl-2-pentanone	**1.8**	1.0	**0.45**	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.18	
108-88-3	Toluene	**18**	1.0	**4.7**	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12	
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13	
127-18-4	Tetrachloroethene	**2.3**	1.0	**0.34**	0.15	
108-90-7	Chlorobenzene	ND	1.0	ND	0.22	
100-41-4	Ethylbenzene	**2.2**	1.0	**0.50**	0.23	
136777-61-2	*m,p*-Xylenes	**6.8**	1.0	**1.6**	0.23	
75-25-2	Bromoform	ND	1.0	ND	0.097	
100-42-5	Styrene	ND	1.0	ND	0.23	
95-47-6	o-Xylene	**2.5**	1.0	**0.59**	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 3/5/02

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **B1**
Client Project ID: **METP / Canoga Park**

PAI Project ID: P2200394
PAI Sample ID: P2200394-007

Test Code: EPA TO-15
Instrument ID: HP5972/Tekmar AUTOCan Elite
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: #00357

Date Collected: 2/28/02
Date Received: 2/28/02
Date(s) Analyzed: 3/1/02
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.2 Pf 1 = 3.5

D.F. = 1.58

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	2.0	ND	0.52	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	**34**	1.0	**14**	0.42	
75-69-4	Trichlorofluoromethane	ND	2.0	ND	0.36	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	**2.1**	1.0	**0.62**	0.29	
76-13-1	Trichlorotrifluoroethane	ND	3.0	ND	0.39	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	**8.8**	1.0	**2.5**	0.28	
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28	
78-93-3	2-Butanone (MEK)	**5.3**	1.0	**1.8**	0.34	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25	
67-66-3	Chloroform	ND	1.0	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.18	
71-43-2	Benzene	**3.3**	1.0	**1.0**	0.31	
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16	
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 3/5/02

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **B1** PAI Project ID: P2200394
Client Project ID: **METP / Canoga Park** PAI Sample ID: P2200394-007

Test Code: EPA TO-15 Date Collected: 2/28/02
Instrument ID: HP5972/Tekmar AUTOCan Elite Date Received: 2/28/02
Analyst: Wade Henton Date(s) Analyzed: 3/1/02
Sampling Media: Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: #00357

Pi 1 = -3.2 Pf 1 = 3.5
D.F. = 1.58

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15	
79-01-6	Trichloroethene	ND	1.0	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22	
108-10-1	4-Methyl-2-pentanone	**4.3**	1.0	**1.0**	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.18	
108-88-3	Toluene	**12**	1.0	**3.2**	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12	
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13	
127-18-4	Tetrachloroethene	**1.6**	1.0	**0.24**	0.15	
108-90-7	Chlorobenzene	ND	1.0	ND	0.22	
100-41-4	Ethylbenzene	**1.7**	1.0	**0.40**	0.23	
136777-61-2	*m,p*-Xylenes	**5.6**	1.0	**1.3**	0.23	
75-25-2	Bromoform	ND	1.0	ND	0.097	
100-42-5	Styrene	ND	1.0	ND	0.23	
95-47-6	o-Xylene	**2.2**	1.0	**0.50**	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **B2** PAI Project ID: P2200394
Client Project ID: **METP / Canoga Park** PAI Sample ID: P2200394-008

Test Code: EPA TO-15 Date Collected: 2/28/02
Instrument ID: HP5972/Tekmar AUTOCan Elite Date Received: 2/28/02
Analyst: Wade Henton Date(s) Analyzed: 3/1/02
Sampling Media: Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: #01162

Pi 1 = -2.7 Pf 1 = 3.5

D.F. = 1.52

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	**1.7**	1.0	**0.82**	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	2.0	ND	0.52	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	**37**	1.0	**15**	0.42	
75-69-4	Trichlorofluoromethane	ND	2.0	ND	0.36	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	**2.3**	1.0	**0.67**	0.29	
76-13-1	Trichlorotrifluoroethane	ND	3.0	ND	0.39	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	**9.0**	1.0	**2.5**	0.28	
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28	
78-93-3	2-Butanone (MEK)	**9.7**	1.0	**3.3**	0.34	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25	
67-66-3	Chloroform	ND	1.0	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.18	
71-43-2	Benzene	**3.4**	1.0	**1.1**	0.31	
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16	
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **B2**
Client Project ID: **METP / Canoga Park**

PAI Project ID: P2200394
PAI Sample ID: P2200394-008

Test Code: EPA TO-15
Instrument ID: HP5972/Tekmar AUTOCan Elite
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: #01162

Date Collected: 2/28/02
Date Received: 2/28/02
Date(s) Analyzed: 3/1/02
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.7 Pf 1 = 3.5

D.F. = 1.52

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15	
79-01-6	Trichloroethene	ND	1.0	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22	
108-10-1	4-Methyl-2-pentanone	**12**	1.0	**2.9**	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.18	
108-88-3	Toluene	**14**	1.0	**3.8**	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12	
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13	
127-18-4	Tetrachloroethene	**1.9**	1.0	**0.29**	0.15	
108-90-7	Chlorobenzene	ND	1.0	ND	0.22	
100-41-4	Ethylbenzene	**1.9**	1.0	**0.43**	0.23	
136777-61-2	*m,p*-Xylenes	**5.9**	1.0	**1.4**	0.23	
75-25-2	Bromoform	ND	1.0	ND	0.097	
100-42-5	Styrene	ND	1.0	ND	0.23	
95-47-6	o-Xylene	**2.2**	1.0	**0.52**	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
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Verified By: RG Date: 3/5/02

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **B3** PAI Project ID: P2200394
Client Project ID: **METP / Canoga Park** PAI Sample ID: P2200394-009

Test Code: EPA TO-15 Date Collected: 2/28/02
Instrument ID: HP5972/Tekmar AUTOCan Elite Date Received: 2/28/02
Analyst: Wade Henton Date(s) Analyzed: 3/1/02
Sampling Media: Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: #01605

Pi 1 = -2.2 Pf 1 = 3.5
D.F. = 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	**1.5**	1.0	**0.71**	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	2.0	ND	0.52	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	**34**	1.0	**14**	0.42	
75-69-4	Trichlorofluoromethane	ND	2.0	ND	0.36	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	**2.0**	1.0	**0.59**	0.29	
76-13-1	Trichlorotrifluoroethane	ND	3.0	ND	0.39	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	**8.8**	1.0	**2.5**	0.28	
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28	
78-93-3	2-Butanone (MEK)	**4.8**	1.0	**1.6**	0.34	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25	
67-66-3	Chloroform	ND	1.0	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.18	
71-43-2	Benzene	**3.3**	1.0	**1.0**	0.31	
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16	
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
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Verified By: RG Date: 3/5/02

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **B3**
Client Project ID: **METP / Canoga Park**

PAI Project ID: P2200394
PAI Sample ID: P2200394-009

Test Code: EPA TO-15
Instrument ID: HP5972/Tekmar AUTOCan Elite
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: #01605

Date Collected: 2/28/02
Date Received: 2/28/02
Date(s) Analyzed: 3/1/02
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.2 Pf 1 = 3.5

D.F. = 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15	
79-01-6	Trichloroethene	ND	1.0	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22	
108-10-1	4-Methyl-2-pentanone	**2.3**	1.0	**0.57**	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.18	
108-88-3	Toluene	**12**	1.0	**3.3**	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12	
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13	
127-18-4	Tetrachloroethene	**1.7**	1.0	**0.25**	0.15	
108-90-7	Chlorobenzene	ND	1.0	ND	0.22	
100-41-4	Ethylbenzene	**1.8**	1.0	**0.41**	0.23	
136777-61-2	*m,p*-Xylenes	**5.5**	1.0	**1.3**	0.23	
75-25-2	Bromoform	ND	1.0	ND	0.097	
100-42-5	Styrene	ND	1.0	ND	0.23	
95-47-6	o-Xylene	**2.1**	1.0	**0.49**	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
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Verified By: RC Date: 3/5/02

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **Method Blank**
Client Project ID: **METP / Canoga Park**

PAI Project ID: P2200394
PAI Sample ID: P020228-MB

Test Code: EPA TO-15
Instrument ID: HP5972/Tekmar AUTOCan Elite
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 2/28/02
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	2.0	ND	0.52	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	1.0	ND	0.42	
75-69-4	Trichlorofluoromethane	ND	2.0	ND	0.36	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	3.0	ND	0.39	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.34	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25	
67-66-3	Chloroform	ND	1.0	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.18	
71-43-2	Benzene	ND	1.0	ND	0.31	
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16	
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
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Verified By: RG Date: 3/5/02

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RESULTS OF ANALYSIS

Client: **Environ International Corporation**
Client Sample ID: **Method Blank** PAI Project ID: P2200394
Client Project ID: **METP / Canoga Park** PAI Sample ID: P020228-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: HP5972/Tekmar AUTOCan Elite Date Received: NA
Analyst: Wade Henton Date(s) Analyzed: 2/28/02
Sampling Media: Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15	
79-01-6	Trichloroethene	ND	1.0	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22	
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.18	
108-88-3	Toluene	ND	1.0	ND	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12	
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13	
127-18-4	Tetrachloroethene	ND	1.0	ND	0.15	
108-90-7	Chlorobenzene	ND	1.0	ND	0.22	
100-41-4	Ethylbenzene	ND	1.0	ND	0.23	
136777-61-2	*m,p*-Xylenes	ND	1.0	ND	0.23	
75-25-2	Bromoform	ND	1.0	ND	0.097	
100-42-5	Styrene	ND	1.0	ND	0.23	
95-47-6	o-Xylene	ND	1.0	ND	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 3/5/02

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Performance Analytical Inc.
Sample Acceptance Check Form

Client: Environ International Corporation Work order: P2200394

Project: METP / Canoga Park

Sample(s) received on: 2/28/02 Date opened: 2/28/02 by SM

Note: This form is used for all samples received by PAI. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client or as required by the method/SOP.

		Yes	No	N/A
1	Were **custody seals** on outside of cooler/Box?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
	Were custody seals on outside of sample container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
2	Were **sample containers** marked with client sample ID?	☒	☐	☐
3	Did **sample containers** arrive in good condition?	☒	☐	☐
4	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
5	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
6	Was **sample volume** received adequate for analysis?	☒	☐	☐
7	Are samples within specified holding times?	☒	☐	☐
8	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
	Cooler Temperature NA °C			
	Blank Temperature NA °C			
9	Is pH (acid) **preservation** necessary, according to method/SOP or Client specified information	☐	☒	☐
	Is there a client indication that the submitted samples are **pH** (acid) preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒

Lab Sample ID	Required pH	pH (as received, if required)	VOA Headspace (Presence/Absence)
P2200394-001			NA
P2200394-002			NA
P2200394-003			NA
P2200394-004			NA
P2200394-005			NA
P2200394-006			NA
P2200394-007			NA
P2200394-008			NA
P2200394-009			NA

Explain any discrepancies: (include lab sample ID numbers): _____

Performance Analytical Inc.

Air Quality Laboratory
A Division of Columbia Analytical Services, Inc.
An Employee Owned Company

2665 Park Center Drive, Suite D
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

Chain of Custody Record
Analytical Services Request

Client / Address	Phone	Fax	ANALYSES	PAI Project No.
ENVIRON 707 Wilshire Blvd. Ste 4950 Los Angeles, CA 90017	(213)943-6322	(213)943-6301		P2200394
Client Project Name / Location: MEPT / Canoga Park	Client Project No.			
Contact: Debbie Scanlon	Sampler (Signature): D. Scanlon	P. O. No.		

Client Sample ID	Date Collected	Start Time Collected	Lab Sample No.	Type of Sample	Container ID (Serial#)	Regulator ID (Serial#)	TO-15			end time	Expected Turnaround Time	Remarks
C1 (W. lobby)	2/28	8:15am	-1	Summa	1326	1592	X			4:45pm	3 day	
C2 (E. ext.)		8:20	-2		1132	1662	X			4:50		
D1 (S.W.)		8:25	-3		1277	1660	X			4:56		
A1 (Ste 100 E.)		8:30	-4		1109	1650	X			5:02		
A2 (Ste 200 N.)		8:40	-5		1500	1656	X			5:10		
A3 (Ste 250 S.)		8:42	-6		1187	1645	X			5:12		
B1 (Ste 100 N.)		8:50	-7		357	1658	X			5:25		
B2 (Ste 175 S.)		8:55	-8		1162	1653	X			5:28		
B3 (Ste 6150 W.)		9:00	-9		1605	1628	X			5:32		

Relinquished by : (Signature)	Date	Time	Received by : (Signature)	Date	Time
D. Scanlon	2/28/02	6:15pm		2002.02.28	18:15
Relinquished by : (Signature)	Date	Time	Received by : (Signature)	Date	Time
Relinquished by : (Signature)	Date	Time	Received by : (Signature)	Date	Time

23

White Copy : Accompanies Sampler Yellow Copy : Sampler

Performance Analytical Inc.
Air Quality Laboratory
A Division of Columbia Analytical Services, Inc.
An Employee Owned Company

RESULTS OF ANALYSIS

Client: Environ International Corporation
Client Sample ID: EXTERIOR
Client Project ID: MEPT

PAI Project ID: P2200487
PAI Sample ID: P2200487-001

Test Code: EPA TO-15
Instrument ID: HP5973/Tekmar AUTOCan Elite
Analyst: Christy Saint
Sampling Media: Summa Canister
Test Notes:
Container ID: #01322

Date Collected: 3/14/02
Date Received: 3/14/02
Date(s) Analyzed: 3/15/02
Volume(s) Analyzed: 1.00 Liter(s)

Pf1 = -3.5 Pf1 = 3.5
D.F. = 1.63

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	2.0	ND	0.52	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	11	1.0	4.5	0.42	
75-69-4	Trichlorofluoromethane	ND	2.0	ND	0.36	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	3.0	ND	0.39	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28	
78-93-3	2-Butanone (MEK)	1.8	1.0	0.62	0.34	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25	
67-66-3	Chloroform	ND	1.0	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.18	
71-43-2	Benzene	ND	1.0	ND	0.31	
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16	
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RC Date: 3/19/02

Performance Analytical Inc.
Air Quality Laboratory
A Division of Columbia Analytical Services, Inc.
An Employee Owned Company

RESULTS OF ANALYSIS

Client: Environ International Corporation
Client Sample ID: EXTERIOR
Client Project ID: MEPT

PAI Project ID: P2200487
PAI Sample ID: P2200487-001

Test Code: EPA TO-15
Instrument ID: HP5973/Tekmar AUTOCan Elite
Analyst: Christy Saint
Sampling Media: Summa Canister
Test Notes:
Container ID: #01322

Date Collected: 3/14/02
Date Received: 3/14/02
Date(s) Analyzed: 3/15/02
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.5 Pf 1 = 3.5
D.F. = 1.63

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15	
79-01-6	Trichloroethene	ND	1.0	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22	
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.18	
108-88-3	Toluene	ND	1.0	ND	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12	
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13	
127-18-4	Tetrachloroethene	ND	1.0	ND	0.15	
108-90-7	Chlorobenzene	ND	1.0	ND	0.22	
100-41-4	Ethylbenzene	ND	1.0	ND	0.23	
136777-61-2	*m,p*-Xylenes	ND	1.0	ND	0.23	
75-25-2	Bromoform	ND	1.0	ND	0.097	
100-42-5	Styrene	ND	1.0	ND	0.23	
95-47-6	o-Xylene	ND	1.0	ND	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 3/19/02

Performance Analytical Inc.
Air Quality Laboratory
A Division of Columbia Analytical Services, Inc.
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RESULTS OF ANALYSIS

Client: Environ International Corporation
Client Sample ID: Method Blank
Client Project ID: MEPT

PAI Project ID: P2200487
PAI Sample ID: P020315-MB

Test Code: EPA TO-15
Instrument ID: HP5973/Tekmar AUTOCan Elite
Analyst: Christy Saint
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 3/15/02
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	2.0	ND	0.52	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	1.0	ND	0.42	
75-69-4	Trichlorofluoromethane	ND	2.0	ND	0.36	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	3.0	ND	0.39	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.34	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25	
67-66-3	Chloroform	ND	1.0	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.18	
71-43-2	Benzene	ND	1.0	ND	0.31	
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16	
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22	

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MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 3/19/02

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RESULTS OF ANALYSIS

Client: Environ International Corporation
Client Sample ID: Method Blank
Client Project ID: MEPT

PAI Project ID: P2200487
PAI Sample ID: P020315-MB

Test Code: EPA TO-15
Instrument ID: HP5973/Tekmar AUTOCan Elite
Analyst: Christy Saint
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 3/15/02
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15	
79-01-6	Trichloroethene	ND	1.0	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22	
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.18	
108-88-3	Toluene	ND	1.0	ND	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12	
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13	
127-18-4	Tetrachloroethene	ND	1.0	ND	0.15	
108-90-7	Chlorobenzene	ND	1.0	ND	0.22	
100-41-4	Ethylbenzene	ND	1.0	ND	0.23	
136777-61-2	*m,p*-Xylenes	ND	1.0	ND	0.23	
75-25-2	Bromoform	ND	1.0	ND	0.097	
100-42-5	Styrene	ND	1.0	ND	0.23	
95-47-6	o-Xylene	ND	1.0	ND	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17	

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Verified By: RG Date: 3/19/02

Performance Analytical Inc.

Air Quality Laboratory
A Division of Columbia Analytical Services, Inc.
An Employee Owned Company

2665 Park Center Drive, Suite D
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

Chain of Custody Record
Analytical Services Request

Client / Address	Phone	Fax	ANALYSES	PAI Project No.
ENVIRON 707 Wilshire Blvd. Ste 4950 Los Angeles, CA 90017	213-943-6312	213-943-6301		PA200487
Client Project Name / Location	**Client Project No.**			
MEPT / Cayuga Park				
Contact	**Sampler (Signature)**	**P. O. No.**		
Debbie Scanlon	D. Scanlon		TO-15	

Client Sample ID	Date Collected	Time Collected	Lab Sample No.	Type of Sample	Container ID (Serial#)	Regulator ID (Serial#)	TO-15	Expected Turnaround Time	Remarks
Exterior	3/14/02	8:15 am 3:52 pm		Summa	1322	1647	X	3 day	

Relinquished by : (Signature)	Date	Time	Received by : (Signature)	Date	Time
D. Scanlon	3/14/02	4:30 pm	Andy Dao	3/14/02	4:39 pm
Relinquished by : (Signature)	Date	Time	Received by : (Signature)	Date	Time
Relinquished by : (Signature)	Date	Time	Received by : (Signature)	Date	Time

03-18-2002 11:29 From-ENVIRON 213-943-6301 T-732 P.008/008 F-113

PHASE I ENVIRONMENTAL SITE ASSESSMENT

COAST WESTHILLS PROPERTY
8433 FALLBROOK AVENUE
LOT B
CANOGA PARK, CALIFORNIA

GEOCON

GEOTECHNICAL
&
ENVIRONMENTAL
CONSULTANTS

PREPARED FOR

MEPT WEST HILLS LLC AND
TRAMMELL CROW SO. CAL. PROPERTIES, INC.
LOS ANGELES, CALIFORNIA

FEBRUARY 1999

Project No. A8021-06-01
February 8, 1999

Environmental Asset Services, Inc.
5801 South Eastern Avenue, Suite 100
Los Angeles, California 90040

Attention: Mr. Neal Holdridge, Environmental Manager

Subject: COAST WESTHILLS PROPERTY
8433 FALLBROOK AVENUE
CANOGA PARK, CALIFORNIA
"ENHANCED" PHASE I ENVIRONMENTAL SITE ASSESSMENT

Dear Mr. Holdridge:

In accordance with your request on behalf of MEPT West Hills LLC (MEPT) or its nominated assignee, Environmental Asset Services, Inc. (EASI) and Trammell Crow So. Cal. Properties, Inc. (TCSCPI), Geocon Environmental Consultants, Inc. (Geocon) has conducted an "Enhanced" Phase I Environmental Site Assessment (ESA) of the subject property. The approximately 30-acre property is located to the northwest of the intersection of Fallbrook Avenue and Roscoe Boulevard, in the Canoga Park area of the City of Los Angeles, Los Angeles County, California. The property is further identified by Los Angeles County Assessor's Parcel Numbers 2005-002-001 and 2005-002-002.

We trust the accompanying report provides MEPT, TCSCPI, and EASI and with the information you require at this time. If you have any questions regarding the information presented in the report, or if Geocon may be of further service, please contact us at (213) 538-1282.

Very truly yours,

GEOCON ENVIRONMENTAL CONSULTANTS, INC.

Robin J. Ferber, R.G., R.E.A.
Senior Managing Geologist

Robin M. Blanchard
Project Environmental Scientist

RMB:RJF

(5) Addressee

(1) John J. Allen, Esq., Sonnenschein Nath & Rosenthal

EXECUTIVE SUMMARY

This report presents the results of an *"Enhanced" Phase I Environmental Site Assessment,* performed in general conformance with the scope and limitations of ASTM Designation E 1527-97 of Subdivision B of the property located at 8433 Fallbrook Avenue in the Canoga Park area of the City of Los Angeles, Los Angeles County, (the "subject property") further identified by Los Angeles County Assessor's Parcel Numbers 2005-002-001 and 2005-002-002. Any exceptions to, or deletions from this practice are described in Section 1.3 of this report. The term "Enhanced", as referenced in this report, refers to the extensive review of pertinent environmental documents provided by Environmental Asset Services, Inc. (EASI) and present in files at the offices of the California Regional Water Quality Control Board, Los Angeles Region (CRWQCB) and the California - Environmental Protection Agency, Department of Toxic Substances Control (DTSC) that was specifically requested by Mr. Neal H. Holdridge, Environmental Manager of EASI.

The subject property occupies approximately 30 acres and includes nine buildings and landscaped and paved parking areas. It was formerly a part of an approximately 86-acre property used by Hughes Aircraft Company and Hughes Missiles Systems Company (hereinafter Hughes) as an aerospace research and development facility. The former Hughes property was subsequently divided into subdivisions A, B, C, and D (hereinafter referred to as Lots A, B, C, D). The subject property occupies Lot B, and is currently owned by Home Savings of America (Home) as successor to Coast Federal Bank (Coast). The nine buildings at the subject property were not occupied at the time of the reconnaissance. With the exception of onsite features associated with the ongoing groundwater monitoring program and potential impacts associated with the Raytheon soil vapor and groundwater extraction and treatment systems, evidence of "recognized environmental conditions" was not observed during our site reconnaissance of the subject property.

Hughes sold the site to Coast in 1995; however, it remained responsible for responding to certain environmental impacts discovered on the site during the late 1980's. Raytheon Missiles Systems Group (Raytheon) acquired Hughes in December 1997 and has assumed financial responsibility for certain ongoing and future environmental investigations and remediation activities at the former Hughes facility, including the subject property.

Obvious evidence of hazardous materials use, storage or disposal was not observed onsite in the aerial photographs reviewed. The subject property appears to have been used for agricultural purposes prior to development as an aerospace research and development facility in 1959. Construction of onsite buildings and features occurred roughly from 1959 to 1986.

The USGS topographic map dated 1967 (photorevised 1979) for the Calabasas, California quadrangle depicts onsite elevations ranging from approximately 840 to 900 feet above mean sea level (MSL). Onsite topography slopes to the south, east, and west from a high point located roughly at the center of the northern subject property boundary. Groundwater beneath the subject property flows to the south-southeast with the exception of the Lot C area northwest of the subject property where groundwater flows to the west towards Chatsworth Creek.

A 50-year Chain-of-Title Report was not provided for review. The current owner of the subject property is reported to be Home as successor to Coast.

The subject property was identified in the information sources reviewed by VISTA Information Solutions, Inc. (VISTA). All of the subject property listings appear to relate to the ongoing soil and groundwater investigations at the subject property. Several businesses listed by VISTA in their report were within the appropriate search radii used for this ESA. The properties listed by VISTA are not considered likely to impact soil and groundwater beneath the subject property with hazardous materials based on their distance from the subject property, their location relative to the local hydraulic gradient (interpreted to flow generally to the south-southeast), and/or the absence of information indicating releases of hazardous materials originating from the listed properties.

Releases of diesel fuel, chlorinated and non-chlorinated volatile organic compounds (VOCs), aromatic VOCs, and semi-volatile organic compounds (SVOCs) to soil and/or groundwater have been documented at the former Hughes facility, including the subject property. Investigation of impacts to soil and groundwater from these substances has been ongoing since 1989 under the direction of various regulatory agencies including the City of Los Angeles Fire Department, CRWQCB, California Department of Health Services, and the DTSC. The DTSC and the CRWQCB are currently the key environmental agencies involved at the subject property and neighboring Lots A, C and D comprising the former Hughes properties.

Four underground storage tanks (USTs) containing fuel oil and two USTs containing waste oil and sulfuric acid were formerly operated on Lot B. Five of the six USTs exhibited evidence of leakage.

Historical remedial activity on Lot B consisted of excavation and offsite disposal of soils impacted by the five USTs.

The review of environmental documents indicates that soil and groundwater beneath the subject property have been impacted by chlorinated and non-chlorinated VOCs in two areas. One is located to the south of Building No. 281. Groundwater samples collected from groundwater monitoring well CM-8D have shown the presence of VOCs from an unknown source. Hughes' environmental consultant estimated that the release of approximately 0.2 gallons of VOCs caused the impact to groundwater discovered in that area. Identifying the source of the VOCs detected in the well CM-8D area has been and remains a primary DTSC concern. Soil vapor samples collected in the area of well CM-8D have not been conclusive in identifying a source of the VOCs detected in the groundwater. DTSC could require Raytheon to conduct further environmental investigations in this area. In addition, it may be prudent to conduct indoor air monitoring for VOCs in Building Nos. 263, 264, and 281 to evaluate potential exposure concerns to future building tenants.

Groundwater impacts by VOCs were also detected near monitoring well CM-10 located offsite (on Lot A) to the south-southeast of Building No. 274. Freon 11 was the primary constituent of concern detected here. A soil vapor plume comprised primarily of Freon 11 and other VOCs was identified onsite and to the south of this building in an area hydraulically upgradient of well CM-10. In addition, groundwater well MW-31, located onsite in the central portion of the area where Freon 11 was found in soil vapor, contained Freon at concentrations equal to the US EPA Maximum Contaminant Level (MCL) established for groundwater. Raytheon believes the Freon 11 soil vapor plume is from air conditioning equipment repairs that were conducted in the unpaved portions of the parking lot during the 1960s.

The DTSC identified eight Areas of Concern (AOCs) and three Solid Waste Management Units (SWMUs) on the subject property which may require further investigation. Based on the findings of a soil and groundwater investigation documented in a September 1998 report prepared by GTI, Raytheon requested that DTSC de-list two of the SWMUs and three of the AOCs, all of which are located in the southern portion of the subject property. DTSC has declined to "de-list" SWMUs or AOCs until it is satisfied that its concerns have been adequately addressed.

DTSC has identified additional SWMUs and AOCs for Lot C, which is adjacent to and to the north of the subject property. Lot C also has a former Hazardous Waste Storage Area (for which Raytheon has not yet completed its DTSC approved Closure Plan), and a UST designated as T-3, which is a

regulated hazardous waste unit subject to post-closure care requirements as specified in the California Code of Regulations, Title 22. These two units were and still are under RCRA Permit. Soil vapor and water extraction and treatment systems are active in the northern portion of Lot C. Treated water from the extraction system is used only on Lot C for irrigation of landscaped areas, under NPDES permit from the CRWQCB; however, the treatment system is currently shut down due to construction activities ongoing in the northern portion of Lot C.

According to a November 21, 1994 interview with Hughes employees, mercury may have been present in a soundproofing coating on foam "cones" formerly present on the walls and ceilings of the anechoic chamber present in Building No. 274. This soundproofing material was reportedly removed under appropriate manifest to a disposal site in Arizona. During our site reconnaissance, a minor amount of residual soundproofing material was noted on the floor of the anechoic chamber. A Certified Industrial Hygienist should be retained to evaluate for the presence of mercury in the residual soundproofing material observed in the anechoic chamber.

Personal interviews with DTSC staff suggest that the City of Los Angeles may require DTSC concurrence prior to issuance of future building permits at the subject property if concerns regarding the SWMUs and AOCs are not resolved. DTSC communications with DeVry Inc. who is developing Lot A to the south of the subject property, indicated that the DTSC may require access to that property for soil and groundwater investigations/remediation should future evidence of environmental impacts be discovered on Lot A. Appropriate personnel at the City of Los Angeles should be contacted to evaluate the potential involvement of the DTSC in the acquisition of Building Permits for the subject property. In addition, DTSC input should be obtained regarding new structures to be built in designated areas of the subject property.

Groundwater beneath the subject property and adjoining lots contains levels of uranium and radium above drinking water standards. Groundwater monitoring wells CM-8D and CM-10 generally contain higher levels of uranium and radium in the groundwater, when compared to the other wells throughout the former Hughes facility that were sampled. Previous investigations concerning the presence of these radioactive materials concluded they were naturally occurring and due to local variations in geological deposits. The prior investigations concluded that no man-made radionuclides were indicated. No surface soil investigations regarding the presence of radioactive materials have been conducted at the site. Documents listing the radioactive materials formerly used by Hughes indicate that Hughes' operations have not served as the source for the radioactivity discovered in

groundwater. It may be prudent to conduct a radon gas investigation in the buildings onsite to investigate potential radioactive exposure concerns to Lot B building tenants.

The northern portion of Lot C is undergoing remediation under the guidance of the DTSC and CRWQCB. According to the DTSC, Raytheon is in violation of Title 22, California Code of Regulations for not having submitted an application for post-closure of UST T-3. In addition, the DTSC has asked Raytheon to investigate the lateral and vertical extent of hexavalent chromium detected in soil beneath the former hazardous waste storage area. Raytheon has issued written complaints to the DTSC regarding the DTSC's lack of administrative response concerning environmental issues at the site. The effect of these outstanding issues between the DTSC and Raytheon on the proposed acquisition of Lot B is considered of minimal impact because they appear to only impact Lot C.

TABLE OF CONTENTS

EXECUTIVE SUMMARY i

1. INTRODUCTION 1
   1.1. Purpose 1
   1.2. Credential 2
   1.3. Scope of Services 2
   1.4. Site Location 2

2. GEOLOGIC AND GROUNDWATER CONDITIONS 3
   2.1. Geologic Conditions 3
   2.2. Groundwater Quality and Occurrence 3

3. SITE RECONNAISSANCE 4
   3.1. Onsite Reconnaissance 4
   3.2. Off-Site Observations 11

4. SITE HISTORY 12
   4.1. Review of Historical Aerial Photographs 12
   4.2. Historical Ownership 13
   4.3. Interview - Property Owner Representative 14

5. GOVERNMENTAL AGENCIES - RECORDS REVIEW 14
   5.1. VISTA Report 14
      5.1.1 Subject property 14
      5.1.2. Offsite Properties 15
   5.2. Agency Communications and Review of Records at Public Agencies 16
      5.2.1. California Department of Conservation Division of Oil, Gas and Geothermal Resources (DOGGR) 16
      5.2.2. City of Los Angeles Building and Safety Department 16
      5.2.3. Los Angeles City Fire Department – Underground Storage Tank Division 16
      5.2.4. Health Department, Los Angeles County 16
      5.2.5. Department of Public Works, Los Angeles County 17
      5.2.6. California Regional Water Quality Control Board (CRWQCB) 17
      5.2.7. South Coast Air Quality Control Board (SCAQMD) 17
      5.2.8. California – EPA, Department of Toxic Substance Control (DTSC) 17
   5.3. Interviews with Representatives of the CRWQCB and DTSC 18
      5.3.1. Interview with Ms. Manjulika Chakrabarti of the CRWQCB 18
      5.3.2. Interviews with Mr. Phil Blum and Mr. Phil Chandler of the DTSC 18

6. CONCLUSIONS AND RECOMMENDATIONS 19

7. LIMITATIONS 24

8. REFERENCES 25

Figures:

1. Vicinity Map
2. Site Plan

Tables:

1. Summary of Environmental Documents Provided by EASI, Inc.
2. Summary of Environmental Documents Reviewed at the CRWQCB on January 11, 1998
3. Summary of Environmental Documents Reviewed at the DTSC on January 14, 1998

Appendices:

Note: Appendices D through N are comprised of portions of the reports listed below

A Site Photographs

B VISTA Environmental Solutions, Inc. Regulatory Database Search Report

C SCAQMD Documentation

D *Potential Source Area Investigation Report for the Hughes Missile Systems Group*
McLaren, November 30, 1989

E *Consent Agreement and Order – Docket No. HWCA 89/90 – 001 For: Hughes Aircraft Company Missile Systems Group*
State of California, Health & Welfare Agency, Department of Health Services Toxic Substances Control Program, August 20, 1990

F *Feasibility Study for Groundwater Remediation - Hughes Aircraft Company Missile System Group Facility*
Groundwater Technology, Inc., February 14, 1992

G *Phase I Environmental Report; Areas of Potential Chemical Release to Soil and Groundwater, Hughes Missile Systems Company*
Groundwater Technology, Inc., December 28, 1993

H *Report on Facility-Wide Site Assessment, Hughes Missile Systems Company*
Groundwater Technology, Inc., January 4, 1994

I *Letter and Internal Memorandum Regarding Areas of Concern for Hughes Missile Systems Group, Canoga Park Facility*
From DTSC to Hughes, February 27and 28, 1995

J *Report on Soil Gas Surveying, Former Hughes Missile Systems Company Site*
Groundwater Technology, Inc., August 1, 1995

K *Letter Regarding Upcoming Meeting Regarding Designation of Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) at Former Hughes Missile Systems Company Facility*
From Raytheon to DTSC, February 5, 1998

L *Letter Regarding Devry Institute of [Technology], West Hill Site, 22801 Roscoe Blvd, West Hills*
From DTSC to Devry, July 27, 1998

M *Transmittal Letter and Report of Additional Site Assessment – Vicinity of CM-10 and Buildings 265, 274, 278, former Raytheon Missile Systems Company Facility*
Letter from Raytheon to DTSC, September 8, 1998
Report by Fluor Daniel GTI, September 2, 1998

N *Transmittal Letter and Summary Report of Supplementary Sampling and Analysis Locations of Former Buildings 269, 272, and 282 – former Raytheon Missile Systems Company*
Letter from Raytheon to DTSC, October 5, 1998
Report by Fluor Daniel GTI, September 23, 1998

PHASE I ENVIRONMENTAL SITE ASSESSMENT

1. INTRODUCTION

This report has been prepared by Geocon Environmental Consultants, Inc. (Geocon) in accordance with the request of Mr. Neal H. Holdridge on behalf of the MEPT West Hills LLC (MEPT) or its nominated assignee, Environmental Assets Services, Inc. (EASI), and Trammell Crow So. Cal. Properties, Inc. (TCSCPI). The report presents the results of a "Enhanced" Phase I Environmental Site Assessment (Enhanced-ESA) and document review of the Coast Westhills Property, an approximately 30-acre property located to the northwest of the intersection of Fallbrook Avenue and Roscoe Boulevard (Lot B of 8433 Fallbrook Avenue), in the Canoga Park area of the City of Los Angeles, Los Angeles County, California (the "subject property"). The term "Enhanced", as referenced in this report, refers to the review of pertinent environmental documents provided by EASI and present in the available files at the offices of the California Regional Water Quality Control Board, Los Angeles Region (CRWQCB) and the California - Environmental Protection Agency, Department of Toxic Substances Control (DTSC) that was specifically requested by EASI.

1.1. Purpose

The purpose of this ESA is to review past and present land use practices and site operations to evaluate the potential presence of recognized environmental conditions at the subject property. This assessment was accomplished by, and limited to, a site reconnaissance, a drive-by survey of the subject property vicinity, interviews, review of information provided by TCSCPI and EASI, review of records available at the CRWQCB, DTSC, and other agencies, and a review of presently and readily available pertinent documentation through Geocon's standard resources. Representatives of the CRWQCB and DTSC were also contacted by telephone or in person regarding environmental issues and/or the status of the site investigations. These tasks were performed to evaluate past and current land use for indications of the manufacture, generation, use, storage, and/or disposal of hazardous materials at the subject property. This ESA includes a preliminary evaluation of the potential for soil and/or groundwater impacts resulting from past and present subject property land use activities and nearby offsite operations, based upon the scope of services described. The ESA was conducted in general conformance with ASTM Designation: E1527-97. The collection of soil, groundwater, asbestos, and radon samples or performance of analytical laboratory testing was not included as a part of our scope of services, nor is the sampling and testing of these materials within the normal scope of a Phase I ESA. The guidelines 'used for the definition of hazardous materials/hazardous wastes, as used in this report, are referenced in the *California Code of Regulations (CCR)* "Title 22, Division 4.5".

1.2. Credential

This report has been prepared by Geocon Environmental Consultants, Inc. (Geocon) under the professional supervision of the principal whose seal and signature appears herein. The information contained in this report has received appropriate technical review and approval. The conclusions represent professional judgments and are founded upon the findings of the investigations identified in the report and the interpretation of such data based on our experience and expertise according to the existing standard of care.

1.3. Scope of Services

EASI's Consulting Service Agreement with Geocon, dated December 8, 1998, outlines the scope of services proposed for the ESA. Geocon performed the services outlined in the referenced Consulting Service Agreement with the following exceptions:

- Historical Sanborn Fire Insurance Maps were sought from the Los Angeles County Public Library collection of maps for the west coast of the United States. No historical Sanborn, Inc. Fire Insurance Maps were available for the subject property from this source.
- Some documents provided by EASI and reviewed at the DTSC and CRWQCB were not summarized in the attached Tables 1, 2, and 3 because they were evaluated as not providing relevant information regarding the environmental status of the subject property. In addition, because Geocon's primary focus was on the environmental condition of Lot B, only generalized environmental information affecting the other subdivided former Hughes lots (i.e., Lots A, C, and D) was provided.

1.4. Site Location

The subject property is located to the northwest of the intersection of Fallbrook Avenue and Roscoe Boulevard and is identified as the Coast Federal Bank – West Hills Property, or as Lot "B". It was formerly one of 4 lots forming the approximately 85.7-acre property occupied by Hughes Aircraft Company and Hughes Missile System Group (hereinafter Hughes) until 1994. The entire former Hughes property is bounded by the Chatsworth Reservoir and residential neighborhoods. The approximate location of the subject property is depicted on the reproduction of a portion of the USGS topographic map for the Calabasas, California quadrangle, dated 1967 (photorevised 1979) and presented as Figure 1. A Site Plan is included as Figure 2. The subject property is further identified by Los Angeles County Assessor's Parcel Numbers 2005-002-001 and 2005-002-002.

2. GEOLOGIC AND GROUNDWATER CONDITIONS

2.1. Geologic Conditions

Geologic information was obtained from the September 3, 1998 Fluor Daniel GTI (GTI) *Additional Site Assessment Report – Vicinity of CM-10 and Buildings 265, 274, and 276* and compared with the State of California Department of Conservation Geologic Map of California Los Angeles Sheet. The GTI Report and review of the USGS "Calabasas, California" topographic quadrangle indicated that the subject property is located at an elevation of approximately 840 to 900 feet above mean sea level (MSL). Surface topography generally slopes to the south, east, and west from a high point located at the center of the northern boundary of the subject property. Surface water is directed to storm drains that flow west to the adjacent Chatsworth Creek. The nearest surface water indicated on the topographic map is the Chatsworth Reservoir and Spillways located within 1/8-mile to the north of the subject property and Chatsworth Creek and Lees Lake located adjacent to the west of the subject property.

According to the GTI Report, the geologic materials found near the surface in the vicinity of the subject property are generally composed of flat-lying, poorly sorted, unconsolidated sands, silts, and clays with occasional gravels. These materials are collectively termed the Cenozoic-age Basin fill and overlie more consolidated geologic units. The thickness of these deposits range from approximately 20 feet along the northern portion of the facility, to nearly 75 feet along the southern portion of the facility. A thin layer (up to 10 feet) of construction fill is present across the subject property.

The subject property is situated on the consolidated bedrock of the Miocene-age Modelo Formation, which locally overlies the Lower Miocene-age Topanga Formation. Older Formations include the Cretaceous Chatsworth Formation, which crops out in the nearby Simi hills. The Modelo Formation is comprised of grayish siltstone and shale, brownish siltstone, clayey siltstone, and clayey shale, with some interbedded grayish diatomaceous shale. Beds of the Modelo Formation appear to dip 45 degrees to the south, as seen from exposures in nearby roadcuts and from lithologic samples taken from onsite soil borings. Near the surface and near the contact with the younger Basin fill, the Modelo Formation is highly weathered.

2.2. Groundwater Quality and Occurrence

Based on a review of a April 15, 1998 GTI Report, groundwater throughout the former Hughes facility (Lots A, B, C, D) was encountered at depths ranging from 9.5 feet to 62 feet below grade. Groundwater in two borings drilled to the south of Building No. 274 on the subject property was

encountered by GTI in September 1998 at depths ranging between 36 feet to 48 feet below grade. The Los Angeles County Department of Public Works Hydrologic Records Section records indicate that depth to water in Well #4699, located approximately 1½ miles to the southeast of the subject property, was measured at 21.9 feet bgs on November 12, 1997. The groundwater gradient across the subject property is generally to the south/southeast, with the exception of the western portion of the subject property where groundwater apparently flows to the west towards Chatsworth Creek. Local water quality tends to be unusable for drinking due to concentrations of total dissolved solids (TDS) exceeding 1,000 mg/L. Because of the high TDS groundwater and because of relatively low yields, no drinking water is reportedly pumped locally from the Cenozoic valley fill sediments or the Modelo Formation.

3. SITE RECONNAISSANCE

Representatives of Geocon conducted a reconnaissance of the subject property on December 28, 1998. Geocon representatives were accompanied during portions of the site visit by Mr. Neal Holdridge of EASI and by Mr. Grant Baker of Home Savings of America. The purpose of the site reconnaissance was to observe existing subject property conditions and to evaluate for evidence of recognized environmental conditions, including hazardous materials and/or wastes. Observations noted during the site reconnaissance are summarized below. Selected photographs of the subject property are presented as Appendix A of this report.

3.1. Onsite Reconnaissance

The subject property was occupied by nine recently vacated buildings, a helipad, and landscaped and paved parking areas at the time of the site reconnaissance. Coast Federal Bank (Coast), as predecessor to Home Savings and Loan (Home), occupied the subject property from 1994 to 1998, using it as professional office space. Most of the office furnishings installed by Coast remained at the time of Geocon's reconnaissance on December 28, 1998. According to Mr. Baker, Coast's use of hazardous materials at the subject property was limited to chemicals used in the Central Engineering Plant (Building No. 263), such as corrosive inhibitors, Freon, petroleum based oils and lubricants, ammonia used in onsite duplicating machinery, and general maintenance and cleaning supplies. Observations made for each of the onsite buildings are provided below.

Building No. 264

Building No. 264 was constructed in 1959 as a kitchen and cafeteria and has retained that use to the time of Geocon's onsite reconnaissance. Evidence of use or storage of hazardous materials or wastes in the building, such as storage drums or containers or staining of the floors and walls, was not

observed during the site visit, nor was it reported historically. A grease trap was verbally reported at Building No. 264 by Mr. Grant, but was not available for observation during the site reconnaissance. One grease dumpster was observed in a car washdown room located adjacent to the west of the Building No. 264. The dumpster was labeled as belonging to Baker Commodities and was observed to be approximately half full of grease. Mr. Baker reported that the grease would be transported offsite for recycling or disposal. We did not observe evidence of environmental concerns inside Building No. 264.

Adjacent to the east of Building No. 264 was an air refrigeration unit associated with the walk-in coolers located in the building. No chemicals or evidence of staining were observed in the area of the refrigeration unit. A patched asphalt area and two apparent monitoring wells were observed in this area. This area is reported as the site of former 10,000-gallon UST (T-10), which contained diesel fuel, and was removed from the subject property in 1991. This UST was connected by piping to three other former diesel USTs (T-7, T-8, and T- 9) located further to the east (discussed under Building No. 281 section). The areas near these former USTs and associated piping is included in the ongoing investigation for the entire former Hughes property, as directed by the CRWQCB and DTSC.

Building No. 281

Building No. 281 was constructed in 1986 and contains office space, a large auditorium, a conference room and a main lobby entrance area. Evidence of use or storage of hazardous materials or wastes in the building, such as storage drums or containers or staining of the floors and walls, was not observed during the site visit. Two hydraulic elevators are present in the building and are serviced monthly by an outside contractor. The elevator equipment rooms were observed to contain elevator machinery consisting of self-contained units with built-in oil reservoirs. A minor amount of oil was observed in the pan of one of the units, however, no evidence of spillage or leakage was observed on the floor of the room.

According to Mr. Baker and the November 30, 1989 McLaren Historical Chemical Use Inventory for the Hughes Missile Systems Group Facility, Building No. 281 contained two maintenance shops and a "control material storage" area, on the basement and first floors. Hazardous materials reported in these areas were limited to insecticide storage and use of dichloromethane (methylene chloride) in the maintenance shops. The extent of use of these materials was described as "quantifiably insignificant" and no further investigation was required. No concerns were identified with regard to chemical, use, storage or disposal at Building No. 281.

Three 12,000-gallon USTs (T-7, T-8, and T-9), containing diesel fuel were removed from the parking area located to the southeast of Building No. 281 in 1991. Soil and groundwater impact from releases from these USTs and associated piping was identified and the area is included in the ongoing onsite soil and groundwater investigation and remediation activities, under guidance of the CRWQCB and DTSC. One monitoring well, CM-8D, was observed in this area. Sampling performed by Fluor Daniel/GTI indicates that groundwater in the vicinity of well CM-8D contains chlorinated volatile organic compounds (VOCs) from an unknown source.

Building No. 271

Building No. 271 was constructed in approximately 1959 and has been used as a paint and maintenance shop. An approximately 135,000-gallon concrete or masonry water test tank is present beneath the building. The water test tank was empty at the time of Geocon's site reconnaissance and was observed from the access point in the floor of the building. According to Mr. Baker, this water test tank was formerly filled with water and used for specialized sonar testing, not for storage of regulated material. Spray painting was reportedly conducted in the building in the late 1980's; however; no evidence of environmental impact was observed or reported from these operations.

Building No. 263

Building No. 263 was constructed in 1959 as the Central Engineering Plant for the entire site. All of the major building systems equipment; i.e. boilers, chillers, air handlers, cooling towers, are located within this building. Hazardous materials observed in the Central Plant included: Freon 11 and 12, corrosion control water treatment chemicals, and small quantities of miscellaneous oils and lubricants stored in flammable materials cabinets. No concerns were noted with regard to handling or storage of these materials and no evidence of significant spillage or leakage was noted on the floors or walls. One hydraulic elevator is present in the building. Observation of the elevator equipment did not reveal evidence of leakage or spillage of hydraulic fluid to the surrounding concrete slab.

A series of concrete filled trenches was observed in the ground floor of the boiler room of Building No. 263. According to Mr. Grant, these trenches formerly contained diesel fuel lines connecting the former USTs located to the east of Building Nos. 264 and 281 with the former diesel boilers located within the building. The current boilers are fueled by natural gas, and the chillers by electricity. These areas were investigated as part of the soil and groundwater investigative and remedial activities conducted at the subject property under the direction of the CRWQCB and DTSC and no evidence of impact to subsurface soils has reportedly been encountered beneath the buildings.

A Los Angeles Department of Water and Power (LADWP) transformer yard was observed adjacent to the east of Building No. 263, containing six large liquid-cooled distribution transformers. The northwesternmost transformer appeared to have staining around its base. According to Mr. Donald Giddings of the LADWP, these transformers are owned and maintained by the LADWP and they are not considered to contain polychlorinated biphenyls (PCBs) as a component of their cooling oil. One monitoring well was observed in the parking area to the east of the transformer yard.

Two former 500 gallon USTs (T-4 and T-5) containing waste oil and sulfuric acid were removed from outside the western area of Building No. 263 in 1984. Two large cooling towers are now present in the former locations of these USTs. Impacts to soil and groundwater from releases of chlorinated and non-chlorinated volatile organic compounds and semi-volatile organic compounds from these tanks have been investigated under the ongoing sitewide investigation and remediation program directed by the CRWQCB and DTSC. One monitoring well and two apparent grout-filled borings were observed near the location of the former USTs.

Building No. 265

Building No. 265 was constructed in 1959 and contained offices, maintenance shops, and two anechoic chambers for the testing of radar impacts to missile guidance systems. At the time of the site visit, only office and document storage areas were observed in the building. Previous investigations did not identify this building as a potential source for soil and groundwater impacts. One hydraulic elevator is present in the building. Observation of the elevator equipment did not reveal evidence of leakage or spillage of hydraulic fluid to the surrounding concrete slab.

A diazo blueprint reproducing unit was observed in a small room on the basement level of the building. No ammonia or other chemicals were observed in the room, however a binder containing Material Safety Data Sheets (MSDS) was observed and containing MSDS' for citric metal cleaner and ammonia. No evidence of chemical mishandling or spillage was observed in this area. The east end of the basement of the building was observed to have numerous cuts in the concrete slab. According to Mr. Baker, these areas were formerly occupied by a loading dock and maintenance shops. Mr. Baker further reported that no significant chemical use occurred in these areas and that the concrete cuts marked the locations of former trenches containing electrical and plumbing conduits for the machinery formerly present. Evidence of water staining was noted in the northern basement areas on walls and floors, however, this is not anticipated to represent an environmental concern.

An enclosed fenced area was observed adjacent to the outside of the northeast corner of the building and was labeled as containing corrosive materials. No storage containers or evidence of hazardous

materials or waste storage, including staining, was observed in this area at the time of the site reconnaissance. Mr. Baker reported that this enclosure originally housed a self-contained emergency generator and later was used for storage of waste ammonia and other photo-processing chemicals pending offsite disposal. Mr. Baker further reported that Safety Kleen was contracted to remove these materials from the subject property; however, manifests of pickup and disposal were not available for review onsite. This area has been investigated by the CRWQCB and DTSC as part of the ongoing sitewide soil and groundwater investigation and remediation program and no concerns have been identified with regard to Building No. 265.

Building No. 274

Building No. 274 was constructed in 1981 and houses a large anechoic chamber for testing of radar impacts to missile guidance systems. At the time of the site visit, the chamber soundproofing had been removed from the exposed steel walls and portion of the building had been used by Coast Federal Bank to house the onsite telephone system equipment. According to a transcript of a November 21, 1994 interview with Hughes employees, mercury may have been present in a soundproofing coating on foam "cones" of the anechoic chamber and, according to Mr. Baker, this material was removed under appropriate manifest to a disposal site in Arizona. No documentation of this removal was available for review onsite. During our site visit, a minor amount of soundproofing material was noted on the floor of the anechoic chamber.

A battery bank associated with an uninterrupted power supply system was observed within the building. An emergency electrical generator with an associated 1,500-gallon aboveground storage tank (AST) containing diesel fuel was observed adjacent to the southwest of the outside of the building. No concerns were noted with regard to these features and no evidence of spillage or leakage from the batteries or the outdoor generator system was observed during the site visit.

The area to the south/southeast of Building No. 274 has been investigated during the course of the sitewide soil and groundwater investigation and remediation activities directed by the CRWQCB and DTSC, most recently in September of 1998.

Building No. 277

Building No. 277 was constructed in 1986 as office space. With the exception of less than 5 gallons of photo-processing chemicals observed in a room in this building, no evidence of hazardous materials or hazardous waste use, storage or disposal was observed. The drain in the photo-processing room did not exhibit staining, nor did the floor. According to Mr. Baker, all used photo-

processing and diazo blueprint chemicals were collected for offsite disposal by Safety Kleen and no such materials were discharged to onsite drains. According to a 1989 Phase I ESA report by McLaren, waste photo-processing chemicals were stored in fifty-gallon drums in Building No. 277 (location not identified) and transported offsite for disposal. The McLaren report also identified the use of "quantifiably insignificant" amounts of mineral oil on the first floor of this building; however, no environmental concerns were noted with regard to the use, storage or disposal of the mineral oil.

One hydraulic elevator is present in the building. Observation of the elevator equipment did not reveal evidence of leakage or spillage of hydraulic fluid to the surrounding concrete slab. A self-contained emergency electrical generator was observed outside the southwest end of the building. This generator was equipped with a built-in diesel fuel reservoir. No evidence of leakage or spillage of fuel or oil was observed on the ground surrounding the generator.

Two fenced enclosures were observed to the southwest of the building. These areas were not accessed but appeared to contain electrical supplies for parking area lights. No evidence of chemical use or storage was observed in these areas.

A helicopter landing pad was observed further to the southwest of Building No. 277. No evidence of onsite fueling or servicing of helicopters or other vehicles was observed or reported.

Building No. 276

Building No. 276 was constructed in 1984 as office space. No evidence of hazardous materials or waste use, storage or disposal was observed, with the exception of one former photo-processing room. No hazardous materials or wastes remained in this room and the drain in the photo-processing room did not exhibit staining, nor did the floor. According to Mr. Baker, all used photo-processing and diazo blueprint chemicals were collected for offsite disposal by Safety Kleen and no such materials were discharged to onsite drains. According to a 1989 Phase I ESA report by McLaren, waste photo-processing chemicals were stored in fifty-gallon drums in Building No. 277 (location not identified) and transported offsite for disposal.

A self-contained emergency electrical generator was observed outside the north end of the building. This generator was equipped with a built-in diesel fuel reservoir. No evidence of leakage or spillage of fuel or oil was observed on the ground surrounding the generator.

Building No. 261

Building No. 261 was constructed in 1959 as office space. This building sustained structural damage from the Northridge earthquake in 1994 and reportedly has been vacant since that time. No evidence of the use, storage, or disposal of hazardous materials or wastes at this building was observed or reported. One room in the basement was identified as a print-shop, however, Mr. Baker indicated that only computer generated forms were printed in this location and no wet or dry inks, paints, solvents, or thinners were used at this location. No evidence of such activities, such as staining of walls or floors or evidence of chemical storage was observed in this room. Two cable-type elevators were observed at this building. No hydraulic oils are used in these systems, and as the elevator machinery is located on the roof of the building, the potential for environmental impact from releases of any hazardous materials is considered remote.

A self-contained emergency electrical generator was observed outside the east end of the building. This generator was equipped with a built-in diesel fuel reservoir. Minor staining was noted around the base of the generator, apparently from leakage or spillage of motor oil or diesel fuel. The extent of the staining does not indicate a significant potential for environmental impact to subsurface soils from hazardous materials and this area has been investigated during the course of removal and remediation of the soils surrounding former USTs T-5 and T-6 which were located at the western end of the building in the current location of the cooling towers.

Other Site Features

With the exception of the LADWP electrical transformer station described above, only type "AA" or "dry-type" electrical transformers were observed within the onsite buildings. These types of electrical transformers do not use oil as a coolant and are not considered to pose an environmental concern at the subject property.

Other than the empty former water test tank present beneath Building No. 271, evidence of USTs remaining onsite was not observed. Six USTs have been removed from the subject property since 1984 and releases from five of these UST systems are currently monitored under the sitewide soil and groundwater investigation and remediation program, as directed by the CRWQCB and DTSC. One , approximately 1,500-gallon "Con-Vault" AST containing diesel fuel for an associated emergency electrical generator is present adjacent to Building No. 274.

Eleven monitoring wells are currently present onsite, associated with the ongoing sitewide soil and groundwater investigation and remediation. Treated groundwater discharged from the treatment

units located offsite on Lot C, to the north of the subject property, is used for irrigation on Lot C, under appropriate permits from Los Angeles County and the CRWQCB.

Dumpsters for solid waste were observed at each building location. The dumpsters are owned and maintained by Foothill Waste Disposal Company and evidence of improper dumping or disposal of hazardous materials or wastes was not observed in the dumpster areas.

Utilities reported as providing service to the site were identified as follows:

Electricity:	Los Angeles County Department of Water and Power
Natural Gas:	Southern California Gas Company
Water:	Los Angeles County Department of Water and Power
Sewer:	Los Angeles County Sanitation District
Refuse:	Foothill Waste Disposal Company

With the exception of areas and features noted above and the ongoing soil and groundwater investigation and remediation program, evidence of recognized environmental conditions were not observed at the site. Evidence of dumping of hazardous materials, distressed vegetation, significant soil disturbance or discoloration, ponded or pooled water, septic systems, pits, ponds, or sumps, or indications of hazardous materials use, storage or disposal, was not observed on the subject property.

3.2. Off-Site Observations

Representatives of Geocon observed the adjacent properties from the subject property and from public thoroughfares on December 28, 1998, to assess if facilities and/or structures located on these properties are operated by entities that potentially use, store, generate, or dispose of hazardous materials/wastes.

The subject property is bounded by Lot C (Regent's Property) to the north. At the time of Geocon's site reconnaissance, substantial construction work was underway at the buildings on this property. Reportedly, Lot C is being redeveloped as a business park. Lot C has been impacted by releases of hazardous materials dating from the Hughes occupancy of the entire site and is part of the ongoing soil and groundwater investigation and remediation activities directed by the CRWQCB and DTSC. The subject property has been environmentally impacted by hazardous materials and wastes originating from Lot C. Beyond Lot C is open space containing spillways for the adjacent north Chatsworth Reservoir.

To the east is Fallbrook Avenue followed by residential neighborhoods and a playground for Rockwell Employees. Further east from the playground is Rockwell AID/C at 8500 Fallbrook

Avenue. The Rockwell facility was not visible from Fallbrook Avenue and was not observed during the site visit.

To the south of the subject property are Lots A and D. A large building, reportedly a private school owned by DeVry Inc., is under construction at Lot A. Lot D remains as paved parking areas but is projected to be developed as a Los Angeles Police Department (LAPD) 911 Emergency Center. Roscoe Boulevard, lined by commercial properties follows to the south.

To the west is open space and Lees Lake and the Chatsworth Creek followed by residential areas.

4. SITE HISTORY

4.1. Review of Historical Aerial Photographs

Historical aerial photographs available from Continental Aerial Photography, Inc. (Continental) for the years 1952, 1970, 1972, 1979, 1986, 1988, 1990, 1993, and 1995 were reviewed. Historical Sanborn Fire Insurance maps and City Directories were sought from the Los Angeles County Public Library but were not available for the subject property and vicinity. Observations noted during the historical photograph review are discussed below. In addition, copies of three undated, low-altitude, oblique aerial photographs of the subject property were provided by EASI and are presented in the rear portion of Appendix A.

1952 Aerial Photograph – The subject property appeared as agricultural land with one cluster of rural residential buildings located roughly at the center of the property. Surrounding properties were also agricultural with an area of construction or grading in the location of the residential neighborhood present today to the east of Fallbrook Avenue. A cluster of rural residential type structures was also present to the northeast of the subject property and the Chatsworth Reservoir was present in its current location.

1970 Aerial Photograph - The subject property was developed with Building Nos. 261, 263, 264, 265 and 271, the helipad, and paved parking areas. A few small unidentifiable features appeared in the parking lot to the east of Building No. 264, the current location of the well CM-8D plume. To the north of the subject property was the remainder of the Hughes facility (currently Lot C), including cooling ponds in the center of that property. Areas to the west and south remained undeveloped and residential neighborhoods were present to the east, across Fallbrook Avenue.

1972 Aerial Photograph – The subject property and vicinity appeared similar to the configuration observed on the 1970 photograph.

1979 Aerial Photograph - The subject property appeared to be developed with the five buildings observed on the 1970 photograph and with eight additional structures which were not present during

the December 28, 1998 site visit. These buildings appeared in the center of subject property, to the west of Building No. 265. Offsite areas appeared developed similar to areas observed during the December 28, 1998 site visit.

1986 Aerial Photograph - The subject property was developed with the five buildings observed since 1970 and Building No. 276. Three of the eight structures observed in the 1979 photograph remained as well. An excavated or otherwise disturbed area appeared roughly in the area of the former location of USTs T-7, 8, and 9, to the west of the current location of Building No. 281. Other areas appeared similar to their depiction in the 1972 photograph.

1988 Aerial Photograph - The subject property was depicted essentially the same as during the December 28, 1998 site visit with all nine buildings present. North of the subject property was Lot C, to the east was Fallbrook Avenue followed by residential areas, to the south were Lots A and D. Lot A remained paved parking and Lot D was occupied by a recreation area with fields and a baseball diamond. To the west was paved parking and vacant land.

1990 – 1993 Aerial Photographs - The subject property and vicinity appeared similar to the 1988 photographs.

1995 Aerial Photograph - The subject property and surrounding properties appeared relatively unchanged from the 1993 photograph; however, large piles of assumed construction debris were present in several of the parking lots onsite.

4.2. Historical Ownership

A Chain-of-Title report was not provided for review. Based on a review of historical documentation Geocon has compiled the following chronology of subject property ownership. The subject property was originally developed as an aerospace research and development facility in 1959 by Bunker Ramo. Prior to this time the subject property was used as agricultural land, and may have also been used as a filming site. Hughes Aircraft Company and Bunker Ramo jointly operated onsite through the 1960's when Hughes assumed sole ownership of the site. Rocketdyne was a tenant of the property at one time, according to the DTSC. Hughes vacated the site in approximately 1994 and Coast Federal Bank acquired the property and divided it into four lots which exist today. Coast Federal Bank and its successer Home Savings and Loan maintained administrative offices and a training center onsite until they vacated the subject property in 1998. Raytheon Missiles Systems Group (Raytheon) acquired Hughes in December 1997 and since that time has assumed financial responsibility for ongoing and future environmental investigations and remediation activities at the former Hughes facility, including the subject property.

4.3. Interview - Property Owner Representative

Mr. Grant Baker, of Home Savings of America was interviewed regarding historical use of the subject property. Mr. Baker was an employee of Hughes Aircraft Company for nineteen years and has extensive knowledge of subject property conditions and operations. Information obtained from Mr. Baker regarding historical subject property operations is presented in Section 3.0.

5. GOVERNMENTAL AGENCIES - RECORDS REVIEW

VISTA Environmental Solutions, Inc., retained by Geocon, performed a search of federal and state governmental information sources according to prescribed search distances referenced in American Society for Testing and Materials (ASTM) Designation E 1527-97. A reproduction of the report prepared by VISTA is presented in Appendix B.

5.1. VISTA Report

The report prepared by VISTA entitled *Site Assessment Plus Report* dated January 5, 1998, includes a Site Distribution Summary, a Map of Sites Within 1¼-Miles, a Map of Sites Within 3/8-Mile, a Street Map, a Site Inventory, a Description of the Databases Searched, and Details of the Property, Adjacent Area, and Unmapped Sites. The Unmapped Sites included in the report identified sites that have incomplete address information and could not be plotted. Based on a review of the Unmapped Sites list and comparison with local street maps, none of the Orphan sites appear to be within one mile of the subject property.

A description of each database referenced by VISTA is provided in the report presented as Appendix B. The acronyms used in the VISTA report are defined in the rear portion of the VISTA report. The findings of the VISTA report are discussed as follows. The identification number as plotted in the VISTA report for each listed property is reported in parenthesis to the right of each facility name.

5.1.1 Subject Property

The subject property was identified in the VISTA Report on the ERNS, LA County Site Mitigation, UST, CORTESE, RCRA-Large Generator, CORRACTS, RCRA-Violations, RCRA-TSD CORRACTS, State Equivalent CERCLIS, State LUST, and NFRAP lists. It is referenced variously as part of the Hughes Aircraft, Hughes Aircraft Company, Hughes Missile Systems, Hughes Missile Systems Company, and Hughes T-3 Site. The site description and address refers to the entire former Hughes facility which includes not only the subject property (Lot B) but also Lots A, C, and D. According to the VISTA report, the Hughes facility has had releases of gasoline (not described), volatile organic compounds (VOCs) (not described), solvents (not described) and formaldehyde (20-

gallons). The current site status is reported as "remediation underway". Fourteen various sized USTs used for storing unleaded gasoline and miscellaneous chemicals are reported as closed and removed from the entire former Hughes facility. According to the State LUST list information contained in the VISTA report, solvents and VOCs were released from the onsite USTs and investigation of the releases is currently underway. Nine undefined RCRA violations are reported from 1989 to 1994. The site is not identified on the EPA NPL (Superfund) list.

5.1.2. Offsite Properties

- Rockwell AID/C (2), at 8500 Fallbrook, is located across Fallbrook Avenue to the northeast of the subject property and is likely hydraulically cross-gradient of the subject property. The Rockwell AID property is reported as a registered UST site and as an RCRA Small Quantity Generator of hazardous waste (SmGen). SmGen's are defined as facilities which generate at least 100 kilograms but less than 1,000 kilograms per month of non-acutely hazardous waste. One registered UST is reported at the property but no other information regarding the UST was reported. According to the VISTA report, no indications of violations or release of hazardous materials are identified for this property and based on this information, it is not considered to have significant potential to have affected environmental conditions at the subject property.

- Chatsworth Reservoir (2), at 8600 Fallbrook, is located approximately 1/8-mile to the north of the subject property and is potentially hydraulically upgradient of the subject property. The Chatsworth Reservoir property is reported as having one registered UST. Information regarding the status of this UST is not documented in the VISTA report. According to the VISTA report, no indications of violations or release of hazardous materials are identified for this property and based on this information, it is not considered to have significant potential to have affected environmental conditions at the subject property.

- Fire Station 106 (3), at 23004 Roscoe Boulevard, is located slightly less than ¼-mile to the south of the subject property and is likely to be hydraulically downgradient of the subject property. This site is identified as a registered UST site with one UST of unreported status, and as an RCRA SmGen. According to the VISTA report, no indications of violations or release of hazardous materials are identified for this property and based on this information, it is not considered to have significant potential to have affected environmental conditions at the subject property.

- Lakeview Cleaners (4), at 22736 Roscoe Boulevard, is located slightly over ¼-mile to the southeast of the subject property and is likely to be hydraulically downgradient of the subject property. This site is identified as an RCRA Large Quantity Generator of Hazardous Wastes (LgGen). LgGen's are defined as facilities which generate at least 1,000 kilograms per month of non-acutely hazardous waste or 1 kilogram per month of acutely hazardous waste. According to the VISTA report, no indications of violations or release of hazardous materials are identified for this property and based on this information, it is not considered to have significant potential to have affected environmental conditions at the subject property.

5.2. Agency Communications and Review of Records at Public Agencies

5.2.1. California Department of Conservation Division of Oil, Gas and Geothermal Resources (DOGGR)

The California Department of Conservation Division of Oil, Gas, and Geothermal Resources (DOGGR) Field Map (W 1-2) (June 19, 1986) was reviewed by a representative of Geocon to obtain information concerning the subject property and properties situated within approximately ¼-mile of the subject property. The map depicts the location of oil and gas wells. The map did not indicate the existence of oil or gas wells within ¼-mile of the subject property.

5.2.2. City of Los Angeles Building and Safety Department

The City of Los Angeles Building and Safety Department was visited in person on December 29, 1998. Building permits for the original buildings constructed by Bunker Ramo in 1959-1961 on the entire former Hughes Aircraft Company were identified, as well as various tenant improvements, plumbing and electrical permits. No indications of the use or storage or hazardous materials at the subject property was identified from this review. Mr. Baker of Home Savings of America stated that Hughes Aircraft Company had requested many of the original building permits to be destroyed for security reasons.

5.2.3. Los Angeles City Fire Department – Underground Storage Tank Division

The Los Angeles City Fire Department (LAFD) was visited by Geocon on December 29, 1998. Files reviewed at this agency documented the removal of onsite USTs T-10, T-7, T-8, and T-9, as well as removal of soil impacted by diesel fuel and VOCs. The file also contained information regarding removal and investigation of USTs and clarifiers located on Lot C, located adjacent to the north of the subject property. Oversight for the site investigation was referred to the CRWQCB on December 23, 1991 and no closure letters for removal of the USTs was found in the files.

5.2.4. Health Department, Los Angeles County

The Los Angeles County Health Department was contacted in writing on December 23, 1998. At the time of this report writing, Geocon has not received a response from this agency. Geocon will report any pertinent information received from this agency in a letter addendum to this report.

5.2.5. Department of Public Works, Los Angeles County

The Los Angeles County Department of Public Works (LACDPW) was visited in person on January 13, 1999 and reported that no environmental files were found for the subject property. The LACDPW is not an oversight agency for areas which are contained within City of Los Angeles boundaries.

5.2.6. California Regional Water Quality Control Board (CRWQCB)

Ms. Regina Simms of the CRWQCB reported by telephone on December 23, 1998 that files were found for the subject property in the Site Cleanup Section of the CRWQCB. No files were reported by the WIP, SLIC, NPDES or UST Sections. CRWQCB staff reported that all files previously held by these sections had been transferred to the Site Cleanup Section. The Site Cleanup Section files were reviewed on January 11, 1999 by Mr. Robin Ferber, Senior Managing Geologist, of Geocon. The subject property is included in an ongoing investigation of soil and groundwater impacts from onsite USTs T-5, T-6, T-7, T-8, T-9, and T-10, in addition to environmental impacts from USTs and other features formerly located on Lot C, located adjacent to the north of the subject property. The review of these files is described in detail in Table 2.

5.2.7. South Coast Air Quality Control Board (SCAQMD)

Ms. Flor Tumambing of the SCAQMD reported in writing on January 6, 1999 that numerous files were found for the subject property. A list of permitted equipment was provided comprising equipment permitted between 1967 and 1994. It is not possible to discern which permits apply to the subject property rather than those applicable to Lots A, C, and D. Permitted equipment included: soldering equipment, storage tanks, plating equipment, ovens, degreasers, spray booths, solvents, scrubbers, chemical mills, film cleaning, cooling towers, boilers, flues, circuit board etchers and cleaners, internal combustion engines (emergency generators), and soil vapor extraction treatment systems. A complete list of the equipment provided by SCAQMD is provided in Appendix C.

5.2.8. California – EPA, Department of Toxic Substance Control (DTSC)

Mr. Glen Castillo of the DTSC reported by telephone on January 5, 1999 that files were found for the subject property. The files were reviewed on January 14, 1999 by Mr. Robin Ferber of Geocon. The subject property is included in an ongoing investigation of soil and groundwater impacts from onsite USTs T-5, T-6, T-7, T-8, T-9, and T-10, VOCs detected monitoring wells CM-8D and CM-10, eight Areas of Concern and three Solid Waste Management Units identified by the DTSC, in addition to environmental impacts from USTs and other features formerly located on Lot C, located

adjacent to the north of the subject property. The review of these files is described in detail in Table 3.

5.3. Interviews with Representatives of the CRWQCB and DTSC

5.3.1. Interview with Ms. Manjulika Chakrabarti of the CRWQCB

An interview was conducted with Ms. Manjulika Chakrabarti, Technical Support Unit, CRWQCB Los Angeles Region by Mr. Robin Ferber, Senior Managing Geologist with Geocon on January 5, 1999. Ms. Chakrabarti is currently the project manager for the Raytheon (formerly Hughes) Canoga Park project. Ms. Chakrabarti indicated some existing monitoring wells will be closed and some new wells may be added in Lot C. Ms. Chakrabarti indicated to the best of her knowledge, Raytheon (formerly Hughes) has complied with the requests of the CRWQCB.

5.3.2. Interviews with Mr. Phil Blum and Mr. Phil Chandler of the DTSC

Mr. Phil Blum, Project Manager, Southern California Permitting Branch, DTSC and Mr. Philip Chandler, Supervising Hazardous Substances Engineering Geologist, Southern California Permitting Branch, DTSC were interviewed together on January 14, 1999 by Mr. Robin Ferber of Geocon and Mr. Neal H. Holdridge, Environmental Manager of EASI. Mr. Blum was also interviewed by telephone by Mr. Ferber on January 8, 1999.

During the January 8, 1999 telephone conversation with Mr. Ferber, Mr. Blum indicated that he has been managing the project actively since April 1998. Mr. Blum indicated that the DTSC has notified Raytheon to conduct activities at the site and that Raytheon has not performed these activities. The activities include providing a post-closure permit application for UST T-3 and sampling for hexavalent chromium in the area beneath the former Hazardous Waste Storage Area. Mr. Blum indicated that Raytheon has also been asked to do Corrective Action activities for environmental concerns associated with Building No. 269 (Lot C). Mr. Blum indicated that the DTSC has been shorthanded in response to information and clarifications requested by Raytheon. Mr. Blum indicated the most significant groundwater problem is where the VOCs are present beneath UST T-3. In Mr. Blum's opinion, Raytheon has not defined the lateral and vertical extent of contamination beneath UST T-3. Mr. Blum indicated that Raytheon has contested the necessity of providing a post-closure permit application for UST T-3. Mr. Blum indicated that a DTSC compliance enforcement action may be needed if Raytheon continues to contest the post-closure permit application required for UST T-3.

Mr. Blum indicated that Mr. Chandler is a more senior level DTSC representative and recommended discussing the project with both of them during Mr. Ferber's file review on January 14, 1999. During the joint interview with Mr. Blum and Mr. Chandler on January 14, 1999, Mr. Chandler indicated that Raytheon's position is that the post-closure permit application for UST T-3 is unnecessary. Mr. Chandler indicated that the DTSC has sent three letters to Raytheon to indicate they are not in compliance with the post-closure requirements. The DTSC indicated that they are in the process of preparing a letter providing Raytheon with 90-days to respond and comply to the post-closure application requirements for UST T-3.

Both Mr. Chandler and Mr. Blum indicated that the DTSC still needs to sign off on the AOCs and SWMUs previously identified and that further investigations associated with AOCs and SWMUs are possible for the subject property (i.e., Lot B). Mr. Chandler and Mr. Blum both indicated that they have been short staffed and have not responded to Raytheon's requests in a timely manner. They indicated the DTSC is the lead agency for Corrective Action and closure and post-closure of the permitted units under RCRA. The CRWQCB was described by Mr. Chandler as the lead agency for groundwater protection for the whole former Hughes facility.

Mr. Chandler indicated that the City of Los Angeles may request an environmental clearance by the DTSC prior to authorizing the construction of any building on the former Hughes property. Mr. Chandler also stated that the DeVry Inc. property (Lot A) located south of the subject property had to acquire an environmental clearance letter for the City of Los Angeles from the DTSC prior to the construction of their building.

Mr. Chandler was aware of the elevated uranium and radium levels detected previously in groundwater beneath the site, but did not have an explanation as to the source of the detections. Mr. Chandler did not rule out the possibility that the DTSC may further investigate the radioactivity issue at a later time. Mr. Chandler indicated that Rocketdyne was reportedly a tenant at the site in the past.

6. CONCLUSIONS AND RECOMMENDATIONS

The conclusions and recommendations resulting from the performance of this Enhanced ESA are summarized below:

- During a site reconnaissance of the subject property, the approximately 30-acre subject property was occupied by nine buildings and landscaped and paved parking areas. With the exception of onsite features associated with the ongoing groundwater monitoring program and potential impacts associated with the Raytheon soil vapor and groundwater extraction and treatment

systems, evidence of "recognized environmental conditions" was not observed during our site reconnaissance of the subject property.

- Raytheon acquired Hughes in December 1997 and since that time has assumed financial responsibility for ongoing and future environmental investigations and remediation activities at the former Hughes facility, including the subject property.

- Obvious evidence of hazardous materials use, storage or disposal was not observed onsite in the aerial photographs reviewed. The subject property appears to have been used for agricultural purposes prior to development as an aerospace research and development facility in 1959. Construction of onsite buildings and features occurred roughly from 1959 to 1986.

- Onsite topography slopes to the south, east, and west from a high point located roughly at the center of the northern boundary of the subject property. Groundwater beneath the subject property flows to the south-southeast with the exception of the Lot C area northwest of the subject property where groundwater flows to the west towards Chatsworth Creek.

- The subject property was identified in the information sources reviewed by VISTA. All of the subject property listings appear to relate to the ongoing soil and groundwater investigations at the subject property. Several businesses listed by VISTA in their report were within the appropriate search radii used for this ESA. The properties listed by VISTA are not considered likely to impact soil and groundwater beneath the subject property with hazardous materials based on their distance from the subject property, their location relative to the local hydraulic gradient, and/or the absence of information indicating releases of hazardous materials originating from the listed properties.

- Releases of diesel fuel, chlorinated and non-chlorinated volatile organic compounds (VOCs), aromatic VOCs, and semi-volatile organic compounds (SVOCs) to soil and/or groundwater have been documented onsite. Investigation of impacts to soil and groundwater from these substances has been ongoing since 1989 under the direction of various regulatory agencies including the City of Los Angeles Fire Department, CRWQCB, California Department of Health Services, and the DTSC. The DTSC and the CRWQCB are currently the key environmental agencies involved at the subject property and neighboring former Hughes properties.

- Four USTs containing fuel oil (T-7, T-8, T-9, and T-10) and two USTs containing waste oil and sulfuric acid (T-5 and T-6) were identified at the subject property. Five of these USTs exhibited evidence of leakage; one of the USTs containing fuel oil did not apparently leak. Historical

remedial activity on Lot B consisted of excavation and offsite disposal of soils impacted by the five USTs, which has been documented in previously generated environmental reports.

- The review of environmental documents indicate that soil and groundwater beneath the subject property have been impacted by VOCs in two areas. One of the areas where groundwater has been impacted by VOCs is located to the south of Building No. 281 and east of Building No. 264. Groundwater samples collected from groundwater monitoring well CM-8D have shown the presence of VOCs from an unknown source. Hughes' environmental consultant estimated that approximately 0.2 gallons VOCs caused the impact to groundwater discovered in that area. Identifying the source of the VOCs detected in the well CM-8D area has been and remains one of the major concerns of the DTSC. Soil vapor samples collected in the area of well CM-8D have not been conclusive in identifying a source of the VOCs detected in the groundwater. The possibility exists that the DTSC may require Raytheon to conduct further environmental investigations in this area. It may be prudent to conduct indoor air monitoring for VOCs in Building Nos. 263, 264, and 281 to evaluate potential exposure concerns to future building tenants.

- The second area where groundwater impacts by VOCs were detected is in the area of monitoring well CM-10 located offsite to the south-southeast of Building No. 274. Freon 11 was the primary constituent of concern detected in groundwater from this well. A soil vapor plume comprised primarily of Freon 11 and other VOCs was identified onsite and to the south of Building No. 274 in area hydraulically upgradient of monitoring well CM-10. In addition, groundwater well MW-31, located onsite in the central portion of the Freon 11 soil vapor plume contained Freon at concentrations equal to the US EPA Maximum Contaminant Level (MCL) established for groundwater. The source of the Freon 11 soil vapor plume is speculated by Raytheon to be from air conditioning equipment repairs that were conducted in the unpaved portions of the parking lot during the 1960s. Aside from groundwater monitoring, Raytheon has recommended that further investigation of the Freon 11 soil vapor and groundwater plume be discontinued. The DTSC has not accepted Raytheon's recommendation for this area and therefore, the potential exists that the DTSC will require future soil and/or groundwater investigations in this area.

- The DTSC identified eight Areas of Concern (AOCs) and three Solid Waste Management Units (SWMUs) on the subject property that may require further investigation. Based on the findings of a soil and groundwater investigation documented in a September 1998 report prepared by GTI, Raytheon requested that the DTSC de-list two of the SWMUs and three of the AOCs located in southern portion of the subject property. Geocon did not find a written response from

the DTSC regarding Raytheon's request for de-listing. The DTSC should be contacted to evaluate the status of the AOCs and SWMUs and whether any of them have been de-listed.

- Other SWMUs and AOCs were identified by the DTSC for Lot C, located adjacent to and to the north of the subject property. Lot C also has a former Hazardous Waste Storage Area for which Raytheon has not yet completed its DTSC approved Closure Plan, and a UST designated as T-3, which is a regulated unit and subject to post-closure care requirements as specified in the California Code of Regulations, Title 22. Soil vapor and water extraction and treatment systems are active in the northern portion of Lot C. Treated water from the extraction system is solely on Lot C, for irrigation of landscaped areas, under permit from the CRWQCB; however, the treatment system is currently shut down due to construction activities ongoing in the northern portion of Lot C.

- According to a November 21, 1994 interview with Hughes employees, mercury may have been present in a soundproofing coating on foam "cones" of the anechoic chamber present in Building No. 274. This soundproofing material was reportedly removed under appropriate manifest to a disposal site in Arizona. During our site reconnaissance, a minor amount of residual soundproofing material was noted on the floor of the anechoic chamber. A Certified Industrial Hygienist should be retained to evaluate for the presence of mercury in the residual soundproofing material observed in the anechoic chamber.

- Personal interviews conducted with the DTSC indicate that the City of Los Angeles may request DTSC approval prior to issuance of future building permits at the subject property. DTSC communications with DeVry Inc. who is developing Lot A to the south of the subject property indicated that the DTSC may require access to their property for soil and groundwater investigations/remediation should future evidence of environmental impacts be discovered on Lot A. Appropriate personnel at the City of Los Angeles should be contacted to evaluate the potential involvement of the DTSC in the acquisition of Building Permits for the subject property. In addition, DTSC input should be obtained regarding their concerns if new structures are built in designated areas of the subject property.

- Groundwater beneath the subject property and adjoining lots contains levels of uranium and radium above drinking water standards. Groundwater monitoring wells CM-8D and CM-10 generally contain higher levels of uranium and radium in the groundwater, when compared to the other wells throughout the former Hughes facility that were sampled. Previous investigations concerning the presence of these radioactive materials concluded they were naturally occurring and due to local variations in geological deposits. The prior investigations concluded that no man-made radionuclides were indicated. No surface soil investigations regarding the presence

of radioactive materials have been conducted at the site. Documents listing the radioactive materials formerly used by Hughes indicate that Hughes' operations have not served as the source for the radioactivity discovered in groundwater. It may be prudent to conduct a radon gas investigation in the buildings onsite to investigate potential radioactive exposure concerns to Lot B building tenants.

- The northern portion of Lot C is undergoing remediation under the guidance of the DTSC and CRWQCB. According to the DTSC, Raytheon is in violation of Title 22, California Code of Regulations for not having submitted an application for post-closure of UST T-3. In addition, the DTSC has asked Raytheon to investigate the lateral and vertical extent of hexavalent chromium detected in soil beneath the former hazardous waste storage area. Raytheon has issued written complaints to the DTSC regarding the DTSC's lack of administrative response concerning environmental issues at the site. The effect of these outstanding issues between the DTSC and Raytheon on the proposed acquisition of Lot B is considered of minimal impact in compliance with all directives issued by the oversight agencies. No additional environmental concerns were identified based on the scope of work performed for this Phase I ESA.

As of the date of this report, one regulatory agency referenced in Section 1.3 has not responded to Geocon's request for environmental information. If a response is received from the referenced agency which affects the conclusions of this report, an addendum letter will be provided to TCSCPR, EASI and MEPT.

7. LIMITATIONS

This Phase I environmental site assessment report has been prepared solely for TCSCPI, EASI, and MEPT in consideration of TCSCPI's, EASI's, and MEPT's requirements. Other parties may rely on the findings and conclusions of the report for informational purposes only. However, TCSCPI, and EASI and other parties who may rely on the findings and conclusions of the report should recognize that this report is not a comprehensive site characterization and should not be construed as such. The findings and conclusions in this report are predicated on a site reconnaissance, a review of specified regulatory records, and a review of the historical usage of the property as presented in this report.

The information obtained is only relevant for the dates of the records reviewed or as of the date of the latest site visit. Thus, the information contained herein is only valid as of the date of the report, and will require an update to reflect recent records review/site visits. Therefore, the report should only be deemed conclusive with respect to the information obtained. No guarantee of the results of the study is implied within the intent of this report or any subsequent report, correspondence or consultation, either expressed or implied. The services performed were conducted in accordance with the local standard of care in the geographic region at the time the services were rendered. TCSCPI, EASI and MEPT should also understand that asbestos, lead-based paint, radon, lead in drinking water, wetlands, and methane gas were not addressed in the scope of services of this report.

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We trust this report provides TCSCPI, EASI, and MEPT with the information you require at this time. Should you have any questions regarding the information presented in this report, please call us at (213) 538-1282.

GEOCON ENVIRONMENTAL CONSULTANTS, INC.

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Robin M. Blanchard
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8. REFERENCES

California Department of Toxic Substance Control (DTSC), 1999, agency visit, January 14

California Department of Conservation Division of Oil, Gas, and Geothermal Resources (DOGGR), 1986 Field Map (W 1-2), June 19

California Department of Conservation, Geologic Map of California, Los Angeles Sheet, 1969

California Regional Water Quality Control Board, 1999, personal visit, January 11

Los Angeles County Health Department, 1998, written request, December 28

Los Angeles County Department of Water and Power, 1999, telephone conversation with Mr. Donald Giddings, January 6

Los Angeles County Public Library, 1998, personal visit, December 29

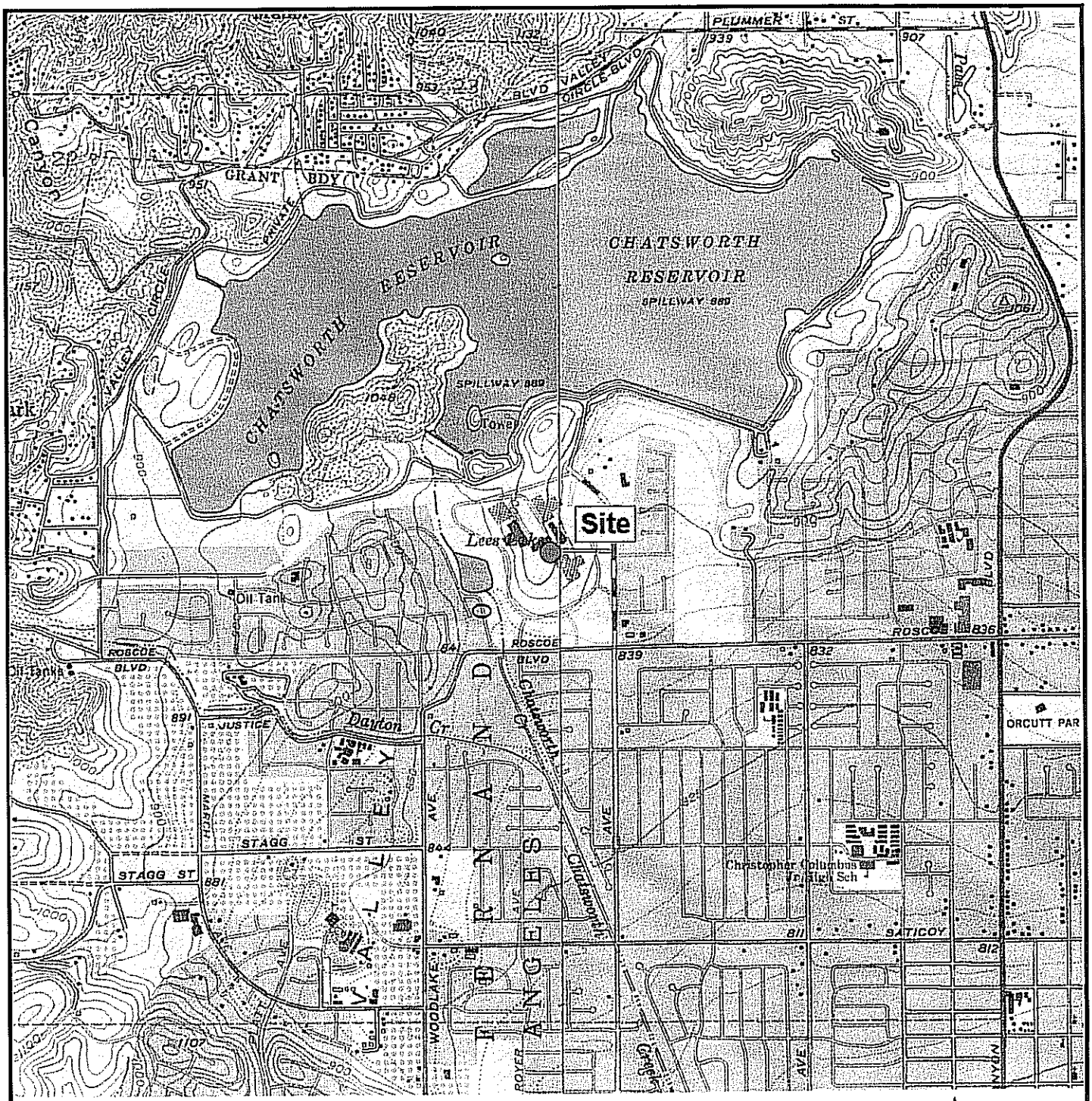
City of Los Angeles Building and Safety Department, 1998, agency visit, December 29

City of Los Angeles Fire Department, 1998, agency visit, December 29

South Coast Air Quality Control Board (SCAQMD), 1999, written correspondence, January 9

United States Geologic Survey 7.5 minute, Calabasas, California quadrangle, 1967, photorevised 1979

Note: Other documents provided by EASI or reviewed at the CRWQCB and DTSC are referenced in the attached Tables 1, 2, and 3.



SOURCE : USGS CALABASAS, CALIFORNIA
7.5' TOPOGRAPHIC QUADRANGLE, 1967
PHOTO REVISED 1979

SCALE : 1" = 24,000'

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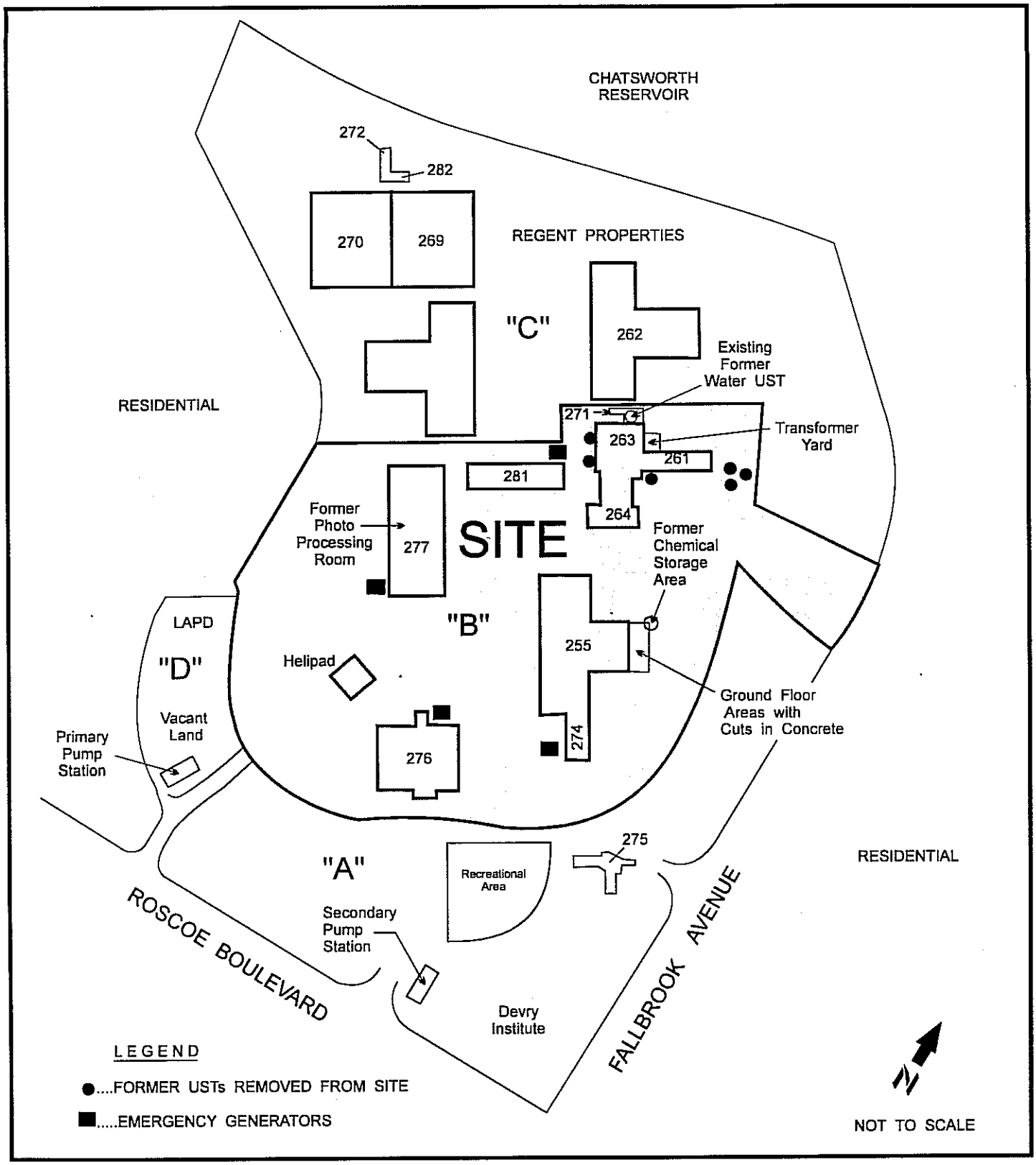
RB / RSS		DSK / E0000

VICINITY MAP

COAST WESTHILLS PROPERTY
8433 FALLBROOK AVENUE
CANOGA PARK, CALIFORNIA

DATE JAN. - 1999	PROJECT NO. A8021 - 06 - 01	FIG. 1

LAVIC



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SITE PLAN

COAST WESTHILLS PROPERTY
8433 FALLBROOK AVENUE
CANOGA PARK, CALIFORNIA

DATE JAN. - 1999	PROJECT NO. A8021 - 06 - 01	FIG. 2

A8021RB

ESTPL2.DGN

TABLE 1: SUMMARY OF ENVIRONMENTAL DOCUMENTS PROVIDED BY EASI, INC.*

Date	From	To	Subject/Title	Comments:
11/30/89	McLaren	Hughes Missile Systems Company (HMSC)	Potential Source Area Investigation Report	This report presents the results of the historical chemical use inventory performed at the Hughes Missile System Group Facility in Canoga Park, California. This report was requested by California Regional Water Quality Control Board. The reports summarized the chemical use inventories for all the buildings at the Hughes facility. This includes Building Nos. 261, 263, 264, 265, 271, 274, 276, 277, and 281. The purpose of the report was to document all relevant chemical use areas at the facility and identify those potential source areas which may have released chemicals to the ground. No chemical use was indicated for Building No. 261. Prior to 1987, a paint spray room existed in Building No. 263, Room 1300. The paint spray room was relocated to Building No. 271 in 1987. The report indicated that there do not appear to be any significant contaminant source areas within Building No. 263. No chemical use was indicated for Building No. 264. Building No. 265 contained two active chemical use areas that involved cleaning, soldering and solvent cleaning operations. General housekeeping practices were determined to be of good quality. There did not appear to be any significant chemical source areas that could impact subsurface soil beneath Building No. 265. Building No. 271 contained one active chemical use area which included a spray paint booth that utilized chemical solvents. There did not appear to be any significant contaminant source areas that could impact subsurface soil in Building No. 271. Building No. 274 had one active chemical use area. Solvent cleaning had reportedly been conducted in Room 305 since after the construction of the building in 1980/1981. There did not appear to be any significant contaminant source areas that could impact subsurface soil in Building No. 274. Building No. 276 had two active chemical use areas. Cleaning operations in Room 1252 and photographic processing operations in Room 1282 had been conducted since sometime after

TABLE 1: SUMMARY OF ENVIRONMENTAL DOCUMENTS PROVIDED BY EASI, INC.*

Date	From	To	Subject/Title	Comments:
				construction of the building in 1986. There did not appear to be any significant contaminant source areas that could impact subsurface soil in Building No. 276. Building No. 277 had one active chemical use area. Mineral oil had been used for lubrication in Room 1528. There did not appear to be any significant contaminant source areas that could impact subsurface soil in Building No. 277. Building No. 281 had two active chemical use areas. Insecticide had been stored in the controlled materials storage area of Room 211 since approximately 1986, when construction of the building was completed. In addition, anti-freeze and mineral oil had been used in the maintenance shop of Room 1261. There did not appear to be any significant contaminant source areas that could impact subsurface soil in Building No. 281.
07/29/91	Ecology and Environment, Inc.	Environmental Protection Agency, Region 9	RCRA Preliminary Assessment	Preliminary Assessment (PA) for the Hughes Aircraft facility located in Canoga Park, California. In 1959, the site was developed by an electrical component design and testing company called Bunker Ramo and it was operated as an industrial park. From 1966 to 1976, Hughes was a co-occupant of the site with Rocketdyne, a division of Rockwell International, and Bunker Ramo. Hughes purchased the entire site in the mid-1970s and became the sole occupant. The report listed and described underground storage tanks (USTs) that were used at the facility. There were three areas of concern identified at the Hughes facility. The first area is the northwest portion of the site (i.e., Lot C) which has historically handled and stored chemicals. Soil and groundwater in this area is contaminated with petroleum hydrocarbons and VOCs that include halogenated compounds. The second area is the southwest corner of Building No. 281. A fuel oil UST was located in this area. Soil and groundwater in this area is contaminated with VOCs that include halogenated compounds. The third area is the recreation center in the southeast corner of the site (i.e., Lot A). Soil and groundwater in this area are contaminated with Freon 11. Elevated levels of radioactivity, above drinking water standards, also appeared in groundwater in this area; however Hughes believes this

TABLE 1: SUMMARY OF ENVIRONMENTAL DOCUMENTS PROVIDED BY EASI, INC.*

Date	From	To	Subject/Title	Comments:
				radioactivity is due to high background levels in the area. The types of radioactive isotopes were not identified. The report indicated that no groundwater wells are used for drinking water within four miles of the Hughes facility. The report summarized the following Hazard Ranking System factors associated with the Hughes facility: (1) low potential for release to air and surface water; (2) low potential for exposure to contaminated soils; and (3) no drinking water wells are located within four miles of the site. The EPA's recommendation was to defer to another authority: RCRA.
11/25/91	American Environmental Management Corp.	Los Angeles City Fire Department	Letter regarding Soil and Groundwater Contamination	This letter requested that the California Regional Water Quality Control Board be allowed to serve as the lead agency for environmental investigations and remediation activities ongoing at the site.
12/02/91	HMSG	Los Angeles City Fire Department	Letter regarding Soil and Groundwater Contamination	This letter confirmed that the California Regional Water Quality Control Board would serve as the lead agency for investigative and remedial activities ongoing at the site.
12/23/91	Los Angeles City Fire Department	HMSC	Letter regarding Groundwater Contamination	This letter indicated that because groundwater contamination was discovered at the site, the California Regional Water Quality Control Board would serve as the lead agency for ongoing investigative and remedial activities at the site.
12/28/93	Groundwater Technology	HMSC	Phase I Environmental Report: Areas of Potential Chemical Release to Soil and Groundwater	GTI was contracted by Hughes to conduct a Phase I ESA of its research and development facility in Canoga Park, California. The review was conducted to identify potential sources of chemical release to area soil and groundwater. This Phase 1 ESA identified soil and groundwater contamination at the site originating from leaking USTs located both on the subject property and in the current Lot C area. USTs located on the site included UST #s T-5, T-6, T-7, T-8, T-9 and T-10. UST #s T-5 and T-6 reportedly contained chlorinated and non-chlorinated VOCs and one semi-volatile compound. UST #s T-7, T-8, and T-9 reportedly contained diesel fuel. The report indicated areas of potential release to be the east end of Building No. 269 and the Building No. 272 hazardous materials and waste storage area. The report also indicated that an additional area of low level environmental concern for metals was the main sewer line route.

TABLE 1: SUMMARY OF ENVIRONMENTAL DOCUMENTS PROVIDED BY EASI, INC.*

Date	From	To	Subject/Title	Comments:
01/04/94	Groundwater Technology	HMSG	Report on Facility-Wide Site Assessment	This report provide details on a site investigation to evaluate the VOCs previously detected in the CM-8D (Lot B) and CM-10 (Lot A) monitoring well areas. GTI indicated that chlorinated VOCs at a combined concentration of just over 1,000 ug/L have been detected in groundwater from well CM-8D. The source of the VOCs is not definitely known; however, three monitoring wells located south of well CM-8D contained detectable concentrations of VOCs. Building No. 264 is located central between the VOC detected in the associated with well CM-8D. GTI estimated the volume of released chlorinated VOCs in groundwater in the well CM-8 D area as 0.2 gallons. The total estimated volume of VOCs near well CM-8D is thought to be sufficiently small that no threat to human health or the environment exists. Freon 11 at a concentration up to 190 ug/L was detected in groundwater from monitoring well CM-10. No Freon 11 has been detected in nearby wells, MW-29, MW-30, or CM-17. A volumetric estimation was not made for Freon 11 in the well CM-10 area. It was thought that the Freon 11 in the well CM-10 area poses no environmental threat. A "Leave in Place" with groundwater monitoring was proposed for the well CM-8D area. Computer modeling suggested that the VOCs will not migrate off the property and that with time the VOCs will degrade to lower concentrations than are now present.
8/30/94	Earth Tech	Coast Federal Bank	Consultation Letter Regarding Property Transfer and Summary of Preliminary Records Review	This report summarized a review of California Regional Water Quality Control Board (CRWQCB) for files from the years 1986 through March 1993 *(these files were not available for review by Geocon on January 11, 1999 at the CRWQCB)*. As related to the subject property, the report indicated that groundwater in the area of Building No. 264 requires continued monitoring for VOCs in Wells MW-25, MW-26 and MW-27, at a minimum. The report indicated that a detailed review of hazardous chemicals used at each building at the site would need to be reviewed. For off-site concerns that could impact the subject property, the report indicated the gasoline plume in northwestern area of the site had not been adequately delineated. Documents reviewed by Earth Tech relating to concerns about radioactivity in groundwater, include reports entitled *Groundwater Quality Analytical Results for Radioisotopes, Off-site Wells*, McLaren

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Date	From	To	Subject/Title	Comments:
				Hart Environmental December 1990 and January 1991; *Investigation of Radioactivity in Groundwater at Hughes,* Groundwater Resources Consultants, Inc., January 23, 1992; and *Results of Radiological Sampling of Wells,* Groundwater Resources Consultants, Inc., July 1, 1992.
11/14/94	Groundwater Technology	HMSC	Letter- Analytical Results for Soil Samples	This document contained a December 7, 1994 facsimile cover sheet for a Nov. 14, 1994 report entitled *Analytical Results for Soil Samples, Remediation System Wells, Hughes Missile Systems Co., Canoga Park, California,* prepared by Groundwater Technology and submitted to Hughes. The report indicated that a vadose and groundwater remediation system was under construction at Hughes and include two groundwater recovery, air sparging, and vapor extraction wells. 71 wells are involved including 17 groundwater recovery wells, 30 combination air sparge/vapor extraction wells, and 24 vapor extraction wells. A plume map prepared for VOCs in soil in the report was unreadable because of poor resolution.
11/18/94	Earth Tech	Coast Federal Bank	Potential Source Area Investigation	This is simply a transmittal of the November 30, 1989 *Potential Source Area* report prepared by McLaren and referenced above.
11/21/94	N/A	N/A	Interview conducted by Coast Federal Bank of Hughes Employees	This is the transcript of a verbal interview conducted by Coast Federal Bank of various Hughes employees. One of the questions asked was *Do you know of any radioactive materials used on the property?* The Hughes employees indicated that *"minor"* amounts were used in the form of *"flat-packs". Geocon's discussions with Grant Baker, formerly of Hughes, currently with Coast Federal Bank, indicated that the referenced flat-packs were used to monitor the quality of electric circuits in printed circuit boards.* The employees were also asked *Do you know of any radioactive materials released or disposed at the property?* The Hughes employees responded that there were *"none".* One of the employees mentioned that mercury may have been present in the "cones" (i.e., soundproofing material) of the "chamber" (i.e., anechoic chamber) present in Building No. 274.
11/21/94	CH2M Hill	HMSC	Contingent Closure and Post Closure Plans	This document, stamped draft, was requested by the California EPA and presents a Contingent Closure Plan for UST T-3 prepared by CH2M Hill for Hughes. The UST was removed in 1991 and was reportedly a 4,000-gallon fiberglass tank that was used to store waste oils and waste oils mixed with solvents. Associated contaminated soils were removed in September 1991 under a Corrective Action Plan (CAP). The Contingent Closure Plan was reportedly prepared in accordance with EPA guidance. The report documents remediation of soil associated with UST T-3. The remediation consisted of excavation and off-site disposal of 1,321 cubic yards of soil contaminated with

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Date	From	To	Subject/Title	Comments:
				petroleum hydrocarbons, DCE, and VOCs. Soils were excavated by using three-foot diameter boreholes to an average depth of 40 feet below the ground surface. A cement/sand slurry was backfilled into the excavated boreholes. A final cover, using asphalt concrete, was placed over the backfilled boreholes. Groundwater remediation will consist of groundwater pumping and treatment, air sparging, and vapor extraction. The report indicated that groundwater remediation was expected to take approximately 4-8 years. The report indicated groundwater monitoring wells would be used to monitor groundwater conditions associated with contamination originating from UST T-3. The site would be considered successfully remediated when concentrations of VOCs averaged per well over the most recent four sampling periods are below the target cleanup levels at all recovery wells. In addition, the report indicated soil vapor constituents would be monitored as part of the groundwater remediation system.
11/28/94	Earth Tech	Coast Federal Bank	Technical Memorandum Records Review Limited Site Investigation	This report documents the Earth Tech's review of reports and documents made available for public review and selected reports and documentation made available by Hughes. The purpose of the review was to evaluate (1) whether current and past environmental investigations in remedial actions carried out by Hughes sufficiently identified past environmental conditions, (2) whether Hughes adequately mitigated areas identified as having environmental impacts, and (3) document the current regulatory status of the site. The report identified areas subject to remediation/corrective action. The three areas that were identified as having resulted in soil and groundwater contamination included: the northwestern area of Lot C with chlorinated VOCs and gasoline contamination reported in both soil and shallow groundwater; the Lot B area of monitoring well CM-8 D containing chlorinated VOCs and groundwater; and the Lot A area of monitoring well CM-10 with Freon 11 contamination in groundwater. The report indicated that USTs T-5 and T-6, formerly located beneath the existing water cooling towers, were investigated by the placement of two vertical, continually sampled boreholes to a depth of approximately 25 feet below ground surface. The chemical test results did not indicate the presence of VOCs or semi-VOCs at concentrations above laboratory instrument detection limits in a soil sample collected at 24 feet below ground surface. It is not known why shallower soil samples

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Date	From	To	Subject/Title	Comments:
				were not analyzed for the VOCs and SVOCs. Although selected soils were chemically tested for CCR metals, it is not known why these results were not reported. Relatively low levels of BTEX were encountered in some of the soil samples. Soils that were encountered included siltstone and interbedded claystone.
12/21/94	Department of Toxic Substances Control	Hughes Missile Systems Group	Letter regarding Notice of Deficiency of Closure Plan	DTSC provided their comments in a Notice of Deficiency to the Draft Closure Plan dated April 1994 provided by Hughes for the facility hazardous waste storage area and UST T-3. The DTSC letter indicated that the Hughes Closure Plan did not meet the closure performance standards of Title 22, California Code of Regulations, Chapter 15, Article 8. Additional information will be required from Hughes to revise the Draft Closure Plan as well as corresponding information to develop a response to the requirements of the California Departmental Quality Act. The DTSC letter focused on written comments to the April 1994 Closure Plan associated with off-site (i.e., Lot C facilities).
02/07/95	Hughes Missile Systems Company	Department of Toxic Substances Control	Submittal of Response to Notice of Deficiency and Revised Closure Plan	Hughes issued a written response to the DTSC Notice of Deficiency on Feb. 7, 1995. The revised Hughes Closure Plan replaced and superseded the Closure Plan for the Hughes facility dated April 1994. Hughes also provided an itemized response to the comments enclosed in the DTSC's Notice of Deficiency. All the comments primarily addressed the T-3 UST area and the hazardous waste storage area which are located in Lot C, upgradient of the site.
02/27/95	Department of Toxic Substances Control	HMSC	Letter regarding areas of concern for Hughes Missile System Group	This DTSC letter notified Hughes that an attached DTSC memorandum (dated February 28, 1995 and discussed below) identifies the solid waste management units (SWMUs) and areas of concern (AOCs) that were identified by the DTSC from the various environmental data developed with reference to the subject site. The DTSC letter also indicated that a revised Closure Plan had been received from Hughes and was undergoing review.
02/28/95	Department of Toxic Substances Control	Department of Toxic Substances Control	Internal Memo regarding areas of concern	The DTSC memornadum primarily discussed Area of Concerns at buildings located in the current Lot C. In regards to specific concerns identified on Lot B, DTSC indicated that Building No. 263, which contained spray paint operations prior to 1987 and used a degreaser and solvents apparently utilized in boiler room cleaning until operations ceased, is located relatively nearby and upgradient of monitoring well CM-8D. DTSC indicated the monitoring well had exhibited concentrations of DCE as high as 760 ug/L. DTSC indicated that Building No. 263 should be considered an Area of Concern and further investigation, such as a soil gas survey, needed to be performed.

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Date	From	To	Subject/Title	Comments:
				DTSC also indicated that Building No. 265 should be considered an Area of Concern until Hughes demonstrates that soils underlying or adjacent to the basement are not responsible for Freon 11 impacts discovered in monitoring well CM-10. DTSC indicated a necessity to evaluate operations formerly conducted in Building No. 265 (in greater detail) and probably a soil vapor investigation of those potential pathways. DTSC indicated Building No. 271 contained a spray paint booth and considers this building an Area of Concern. DTSC recommended a limited soil vapor investigation. DTSC indicated Building No. 274 was an Area of Concern because it was used for solvent cleaning and is located upgradient of the Freon 11 impacted groundwater well CM-10. A soil vapor survey was recommended by DTSC for this building. DTSC identified Building No. 276 as an Area of Concern because of the minor amounts of TCA used in the building. DTSC recommended a soil gas investigation as the first logical step. DTSC identified Building No. 281 as an Area of Concern because of the use of methylene chloride in this building. DTSC recommended that a limited soil gas investigation be performed as *"an initial element"*. DTSC recommended a soil gas investigation in the area of the former T-5 and T-6 USTs. DTSC noted that halogenated and aromatic VOCs were reported in the soil from USTs T-5 and T-6 and the cleanups of the T-7, T-8, and T-9 UST cluster had left some soil hydrocarbon contamination in place. DTSC identified all five of these USTs as Solid Waste Management Units; however, DTSC indicated that designation did not necessarily mean that DTSC will necessarily require any further activity at either location. DTSC indicated that diesel UST T-10, located south of Building No. 281, should not be considered an Area of Concern or Solid Waste Management Unit. DTSC implied that the T-7, T-8, and T-9 UST cluster may be a potential release point to groundwater. DTSC indicated their concern that the main sewer line onsite may be a conduit for the Freon 11 detected in monitoring well CM-10. Wherever the source area or areas for the Freon 11 contamination in monitoring well CM-10 is or are, DTSC indicated it or they should be considered

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Date	From	To	Subject/Title	Comments:
				Areas of Concern. DTSC indicated that Hughes needs to fully extend its soil gas survey to include such source types upgradient from well CM-10 to evaluate the Area of Concerns.
05/08/95	Groundwater Technology	Department of Toxic Substances Control	Letter regarding areas of concern	The resolution and quality of this letter was very poor and it was difficult to discern the referenced building numbers. This letter was written by Groundwater Technology, Inc. (GTI) in response to the DTSC's Feb. 28, 1995 letter listing environmental Areas of Concern for the site. GTI indicated that the soil gas survey would be conducted south and east (near well CM-8D) of Building No. 263. GTI indicated that no further investigation of Building No. 265 or 271 was required, and that Building No. 274 should no longer be considered an Area of Concern. GTI indicated that the soil gas survey associated with the CM-8D investigation would include the area south of Building No. 281 and no further investigation of Building No. 281 was required. GTI indicated that the former UST T-5 and T-6 areas would be included in a soil gas survey but no further investigation was required in the UST T-7, T-8, and T-9 area. GTI indicated that the source of the Freon 11 detected in well CM-10 was not known. The soil gas survey near CM-10, and near the main sewer line junction and the sewer line terminus may help to determine the source if a surface or near surface Freon 11 anomaly can be located. Other information on this letter was difficult to discern because of the poor quality of the copy.
05/11/95	Department of Toxic Substances Control	HMSC	Comments to February 1995 Modified Closure Plan submitted by Hughes	This letter provided comments to the Feb. 1995 modified Closure Plan provided by Hughes to the DTSC. All the comments primarily addressed the T-3 UST area and the hazardous waste storage area which are located in Lot C, upgradient of the site.
05/11/95	Groundwater Technology	Department of Toxic Substances Control	Letter regarding DTSC Areas of Concern	This letter appears to be an identical copy of the May 8, 1995 letter prepared by GTI. This letter was finalized and put on letterhead.

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Date	From	To	Subject/Title	Comments:
10/11/95	Groundwater Resources Consultants, Inc.	HMSC	Quarterly Groundwater Monitoring Report 3rd Quarter 1995	This report summarized the results of the second quarter 1995 groundwater monitoring at the Hughes facility. The depth to groundwater throughout the whole facility, as measured in monitoring wells, ranged from approximately 9 feet to 62 feet below ground surface. Groundwater appears to move towards the southwest, south, and southeast in various areas of the site. Groundwater extraction from reclamation wells in the northwest portion of the facility appears to be causing a cone of depression which can be observed on the site-wide map. The analytical results for VOCs in samples from the monitoring wells were summarized in a figure.
11/29/95	Camp Dresser and McKee, Inc.	Los Angeles Department of Public Works	Environmental Analytical Results of Soil and Groundwater Samples – Valley Communications Dispatch Center	This report described the results of sampling of soil and groundwater to assess whether VOCs, TPH, or metals contamination had impacted the proposed Valley Communications Dispatch Center (formerly Hughes Aircraft Missile System facility) located 8433 Fallbrook Avenue. The proposed Valley Communications Dispatch Center is located in Lot D and offsite to the west of Building No. 276. Four soil borings were drilled to 20 feet below ground surface to collect soil samples. One soil boring was drilled to about 50 feet below ground surface to collect soil and groundwater samples. The work was performed on Nov. 3, 1995. Non-detect to low levels of TRPH were detected (<52 ppm TRPH). No soil samples contained CCR metals exceeding California TTLCs. VOCs, SVOCs, and organochlorine pesticides and PCBs were not detected in the soil samples above laboratory instrument detection limits. VOCs (excluding 51 ug/l Freon 11), SVOCs, organochlorine pesticides, and PCBs, and fuel range hydrocarbons were not detected in the groundwater samples collected. The groundwater exceeded the MCL for chloride, manganese, nitrate, sulfate, and total dissolved solids.
12/11/95	City of Los Angeles City Engineer	Los Angeles Police Chief Department	Letter regarding Soil and Groundwater Contamination	This letter was from the Los Angeles City Engineer to the Los Angeles Police Department regarding the proposed Valley Communications Dispatch Center (Lot D). The letter summarized the results of the November 29, 1995 investigation described above. The letter stated that the report revealed no significant soil or groundwater contamination at the site. It was recommended that the City ensure the previous occupants (i.e., Hughes) assume all responsibility for the minor groundwater contamination that exists under the southern parcel and for any contamination which may migrate into the groundwater in the future.

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Date	From	To	Subject/Title	Comments:
12/18/95	Department of Toxic Substances	General Public	Public Notice – Draft Closure Plan	The DTSC issued a *Notice of Public Comment On a Draft Closure Plan and Proposed Negative Declaration for a Hazardous Waste Storage Area and Underground Storage Tank T-3 Hughes Missile Systems.* The letter indicated that written comments on the draft Closure Plan and proposed Negative Declaration would be accepted the for 60-day period commencing on December 20, 1995.
01/10/96	Groundwater Resources Consultants Inc.	HMSC	Quarterly Groundwater Monitoring Report-Fourth Quarter, 1995	This report summarized the results of the fourth quarter 1995 groundwater monitoring at the Hughes facility. The depth to groundwater throughout the whole facility, as measured in monitoring wells, ranged from approximately 9 feet to 62 feet below ground surface. Groundwater appeared to move towards the Southwest, South, and Southeast in various areas of the site. Groundwater extraction from reclamation wells in the northwest portion of the facility appeared to be causing a cone of depression which can be observed at the scale of the site-wide map. The analytical results for VOCs in samples from the monitoring wells were summarized in a figure.
03/27/96	Groundwater Technology	HMSC	Groundwater Monitoring Report	This report indicated that static groundwater depths measured approximately 13 to 46 feet below grade for the wells measured on Feb. 12, 1996. Some of the metal cables in the recovery wells had to be replaced with polypropylene rope. Some flow rates were increased for recovery wells. VOCs were detected in two monitoring wells, CM-8D (located onsite and south of Building No. 281) and monitoring well CM-10 (located off-site and south of Building No. 274).
07/09/97	Fluor Daniel GTI	HMSC	Groundwater and Remediation System Monitoring Report	This reports summarized the results and observations for the second quarter 1997 groundwater monitoring at the former Hughes facility. Groundwater depths ranged from approximately 12 feet to 63 feet below grade for the monitoring wells measured on May 12, 1997. Groundwater flowed to the west on the northwest portion of the Lot C and to the south-southeast over the remainder of the site (i.e., Lot B). Detectable VOCs were detected in four monitoring wells and in ten recovery wells (including onsite wells CM-8D and CM-10).
01/07/98	Harding Lawson Associates	Home Savings of America	Environmental Site Assessment	**Historical Land-Use**: Vacant agricultural land from 1903-1958; ranch house observed onsite in 1952; Bunker-Ramo developed site into aerospace research and development facility in 1959. In 1965, Rockwell, Westinghouse, and General Electric acquired short term leases for use of the office space until the site was purchased by Hughes Aircraft Company in 1966. Hughes Aircraft Company Missile Systems Group shared the property with Bunker-Ramo until 1976, when Hughes became the only occupant; Coast federal Bank purchased the property in 1994 and in 1997 divided the property into four subdivisions (A-D).

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Date	From	To	Subject/Title	Comments:
				Recognized Environmental Conditions: Evidence of six historical USTs at the site. Two 500-gallon waste oil/sulfuric acid USTs; three 12,000-gallon diesel USTs; and one 10,000-gallon diesel UST. Other USTs, one waste pit, and two clarifiers were found on the property located adjacent to and north of the site. Paints, solvents, petroleum products including oils, diesel, and gasoline, and corrosive materials used in printed wiring board plating were used at the site. Contaminated soil and groundwater have been documented onsite and on the property to the north. The are ~35 groundwater monitoring wells located onsite and on immediate surrounding properties. Groundwater flows southeast and is ~30.11 to 47.56 bgs at the site. Two areas of known releases are documented at the site. 15 yards of VOC and SVOC-impacted soil removed from the waste oil/sulfuric acid UST area and more than 1,000 cubic yards of hydrocarbon impacted soil removed from diesel UST area. One groundwater monitoring well onsite, well CM-8D, has documented chlorinated VOCs in groundwater. It is the prior location of a diesel UST (Tank # 10) and associated underground pipelines. DCE and TCE were detected in the well above MCLs. Well CM-8D is the only well onsite being monitored for contamination and no remedial activities were conducted on the site. City of Los Angeles Fire Department letters dated December 23, 1991 and September 20, 1989 noted the presence of groundwater contamination and referred the matter to the RWQCB. **Offsite:** Contaminated soil and groundwater have been documented on the Hughes property located adjacent to and north of the site. As of February 25, 1997, the SVE system operated by Fluor Daniel GTI has been online since August 1995 and has removed 7,188 pounds of volatile and chlorinated hydrocarbons from the vadose zone. The main sewer line that crosses the site can be considered a combined sanitary sewer and process waste water disposal line. Chlorinated VOCs have impacted groundwater monitoring wells located to the north and potentially upgradient of the site. The RWQCB has approved a reduction in groundwater monitoring from quarterly to semi-annually.
1/23/98	N/A	N/A	Figure- Chemical Use and Associated Activities by Area	This figure highlighted areas of historical chemical use, USTs, chemical storage, and the location of groundwater monitoring wells at the site.

* Some documents provided by EASI were not summarized because they were evaluated as not providing relevant information regarding the environmental status of the site. In addition, because Geocon's primary focus was on the environmental condition of Lot B, only generalized environmental information affecting the other subdivided former Hughes lots (i.e., Lots C, A, and D) was provided.

TABLE 2: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE CRWQCB ON JANUARY 11, 1999

Date	From	To	Subject/Title	Comments:
09/15/95	Environmental Support Technologies, Inc.	Groundwater Technology, Inc. (GTI)	Phase 2 Soil and Gas Survey Report	This report provides the results of a soil gas survey performed in the area of the CM-10 groundwater monitoring well where Freon 11 was previously detected. A map produced in the report displayed isoconcentration contours for Freon 11 in ug/l units. Soil vapor probes were installed to a depth of five feet below ground surface. The soil gas samples collected during the survey contained concentrations of Freon 12, Freon 11, Freon 113, 1,1-DCE, PCE, ethylbenzene, and total xylenes. Freon 12, at a concentration of 16 ug/l, was detected in the probe placed adjacent to Building No. 274. PCE was detected at a concentration of 1 ug/l in a probe placed approximately 50 feet southeast of Building No. 274. The highest isoconcentration contour (1,000 ug/l) for Freon 11 was detected approximately 50 feet to the southwest of Building No. 274 and extended approximately another 150 feet to the southwest. The soil vapor plume as measured was approximately 450 feet to the northwest (and hydraulically upgradient) of monitoring well CM-10.
09/21/95	Groundwater Technology, Inc.	California Department of Toxic Substances Control (DTSC)	Letter regarding Additional Soil and Gas Surveying, Area 5	This report provides the results of a soil gas survey documented in the Environmental Support Technologies report dated September 15, 1995 (see above description). The study was performed in the area of the CM-10 groundwater monitoring well where Freon 11 was previously detected. A map produced in the report displayed isoconcentration contours for Freon 11 in ug/l units. GTI indicated that a Freon 11 soil gas high, not associated with any surface or underground feature, is puzzling. Although there is some linearity to the plume outline that might suggest Building No. 274 is a source, the center of the Freon 11 high is located over 100 feet from the nearest corner of the building. Probes placed around building's cooling unit encountered only low concentrations of Freon 11. GTI speculated that drums or other containers may have been placed in the area proximal to the high and that from 1960 to 1963 this area consisted of exposed soil. GTI indicated the Freon 11 high is positioned "*...precisely upgradient of monitoring well CM-10*". Monitoring well CM-10 is the only Hughes' facility well which has consistently contained concentrations of dissolved Freon 11.

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Date	From	To	Subject/Title	Comments:
10/11/96	Allwest Geoscience	Regent Properties, Inc.	Limited Review of Potential Environmental Impacts to Subject Property Due to Past Onsite Activities	This report presented a limited review of potential environmental impacts on the adjoining Lot C (located to the north of the site, i.e., Lot B) due to previous environmental activities occurring at Lot C. The documents reviewed related to Building Nos. 262, 268, 269, 270, 272, and 282 which are located on Lot C. The summary of environmental concerns indicated that soil and groundwater remediation is currently being performed in the northwestern area of the property and will likely continue for several years. The report indicated Hughes should remain the responsible party for the remedial activities and that Regent Properties should be included on the distribution list for all environmental related reports. The report indicated that Hughes should remain responsible for any environmental problems found during the removal of clarifiers, concrete floor areas, and asbestos abatement.
07/10/97	Allwest Geoscience	Regent Properties, Inc.	Portion of a Report:- UST Summary, Clarifiers, Summary of Environmental Concerns, and Conclusions	This report, relating to be proposed development of Lot C by Regent/Shamrock, provided the same general conclusions as Allwest Geosciences' report dated October 11, 1996. In addition, the report concluded that *" The existing contamination poses no health threat and will not interfere with the occupancy of the existing or proposed buildings, provided the requirements of the Remedial Action Plan continue to be followed."* The report further indicated that *" The property's environmental condition has been adequately characterized, and the soil and groundwater condition will not interfere with Regent/Shamrock's proposed ownership, use, construction or occupancy of the property."* Finally, the documents reviewed by Allwest Geoscience were considered acceptable to assure that Hughes will remain the responsible party for all environmental impacts from Hughes releases to the property, both previously discovered and potentially found during redevelopment of the site.
06/27/97	Allwest Geoscience	Regent Properties, Inc.	Portion of Report:- Findings, Conclusions and Figures	This report presented information regarding Building Nos. 268 and 269 located in Lot C to the north of the site. The report indicated that for Building No. 268, the bottom of the westernmost pits were stained a dark brown to black color. The eastern pit reportedly had a line of *"efflorescence"* along the sidewall of the pit. In Building No. 269, the chemical analysis of three soil samples collected from beneath a former solvent tank showed no detectable concentrations of VOCs. The 17 CAM metals analyzed showed that the metals were generally within acceptable concentrations and probably indicative of naturally occurring background levels. Four soil samples collected from the bottom of four

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Date	From	To	Subject/Title	Comments:
				borings drilled in the area of clarifiers adjacent to and east of Building No. 269, showed no detectable concentrations of VOCs or elevated metals concentrations.
2/20/98	Flour Daniel GTI	Los Angeles Regional Water Quality Control Board (CRWQCB)	Groundwater and Remediation System Monitoring October-December 1997 Quarterly Report and 1997 Annual Report	This report summarized the remediation systems in operation at the Raytheon (former Hughes) facility. The remediation system has been operational since August 1995. The report primarily dealt with VOC recovery data and the condition of the remediation system. The groundwater gradient in the northwestern portion of the site has consistently shown it is being influenced by groundwater extraction so that capture zones, sufficiently large to completely contain and capture contaminated groundwater, are created. GTI indicated that the groundwater recovery system generally remained at full operating capacity during the year 1997. Approximately 6,800 pounds of VOCs and 500 pounds of total chlorinated compounds comprise the total mass removed by the system since start-up. Of 10 perimeter monitoring well sampled on a semi-annual basis, VOCs were identified in groundwater samples collected from three of the wells (CM-8D, CM-10, and MW-19S). Of the three wells where VOCs were detected, only well CM-8D is located onsite, to the south of Building No. 281.
3/31/98	Raytheon Missile Systems Company (RMSC)	CRWQCB	Letter regarding cost reimbursement account for Former RMSC	Raytheon submitted this letter to the CRWQCB and has not initially agreed to establish a Cost Reimbursement Account with the CRWQCB because they already have a reimbursement account established with the DTSC and have concerns about paying two agencies both under the auspices of the California EPA. Raytheon suggested that a meeting be conducted between the DTSC and the CRWQCB to discuss the cost reimbursement account. In addition, Raytheon described their facility as a former "research and development facility", rather than an "aerospace parts manufacturer". They indicated that the chemical use at their facility was in smaller quantities and under much more controlled conditions than would be found in an aerospace parts manufacturing business. Raytheon further indicated that while groundwater beneath the Canoga Park site may technically be considered a "Water of the State" with "potential beneficial uses", the naturally high Total Dissolved Solids severely limits the realistic beneficial uses of the water.

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Date	From	To	Subject/Title	Comments:
04/15/98	Fluor Daniel GTI	CRWQCB	Portion of Report:- Summary and Figures of the First Quarter 1998 Groundwater Monitoring Report.	The results of the first quarter 1998 groundwater monitoring activities at the former Hughes facility were summarized in this report. The general depth of groundwater range from approximately 9.5 feet to 62 feet below grade. The groundwater gradient in the northwestern portion of the site was 0.022 ft/ft and apparent flow was to the west. Over the remainder of the site, the groundwater gradient ranged from 0.027 to 0.043 ft/ft, and apparent flow was to the south-southeast. Treated groundwater effluent met discharge requirements specified in the Waste Discharge Requirements (WDR).
05/08/98	RMSC	CRWQCB	Letter regarding Request for Modification of the Waste Discharge Requirements Permit for the Groundwater Remediation System	The purpose of this letter was to request a modification of the WDR Permit for management of water treated by the groundwater remediation system at the site. The letter indicated that due to issues associated with redevelopment of the property by the new owners, discharge of treated groundwater in this matter has become problematic. Therefore, Raytheon was seeking modification of the WDR permit in order to allow discharge of treated groundwater to a storm drain, as well as continued use for irrigation. The storm drains at the site discharge to Chatsworth Creek, which in turn drains to the Los Angeles River approximately 2.5 miles from the site.
06/12/98	RMSC	DTSC	Letter regarding Response to DTSC Letter of 19 May Requiring Post-Closure Permit Application for RMSC	Raytheon indicated to the DTSC that they were surprised and troubled to receive DTSC's May 19, 1998 letter requiring a " post-closure permit application" and finding Raytheon in violation for failure to submit the application. In a reported Feb. 10, 1998 meeting, Raytheon understood that the post-closure permit issue had been postponed. That understanding was reportedly reiterated in the Raytheon March 11 1998 letter. According to Raytheon, they are not in violation of the California Code of Regulations. Raytheon believed that the post-closure is not applicable for the former tank T-3, and that remedial activities on-going at the site are effectively addressing the contamination and should be allowed to continue without unnecessary hindrance. Raytheon requested a 90-day extension to the June 22, 1998 date for submitting the post-closure permit application. Raytheon indicated they would like to meet with DTSC to continue discussions towards resolution of this issue. Raytheon also criticized DTSC for not realizing that they had been properly notified regarding fieldwork in the Building No. 269 and monitoring well CM-10 area. Raytheon indicated that they have aggressively pursued remedial activities at the site and have made tremendous progress. Raytheon criticized DTSC for unacceptable and serious administrative delays.

TABLE 2: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE CRWQCB ON JANUARY 11, 1999

Date	From	To	Subject/Title	Comments:
06/18/98	California Environmental Protection Agency (Cal EPA)	CRWQCB	Letter regarding RCRA Closure/Post-Closure and Corrective Action at the RMSC Company	DTSC wrote the CRWQCB to notify them that there are still two permitted hazardous waste management units at the site. DTSC indicated that Raytheon has not yet completed its approved Closure Plan for one unit, a small hazardous waste area. The second unit was a UST which did not have secondary containment and from which RCRA wastes were released into the adjacent soils and groundwater. Under Title 22, California Code of Regulations, the UST is a regulated unit and subject to post-closure care requirements as specified in Title 22. DTSC indicated that the application for post-closure has not been received from Raytheon. DTSC reportedly notified Raytheon in a Nov. 14 1997 letter about the post-closure application requirement. A second letter was forwarded to Raytheon from DTSC on May 19, 1998, which indicated that the Raytheon facility is in violation of Title 22. The DTSC letter indicated that Raytheon believed that it had met the cleanup goals for the CRWQCB and would be shutting down its remediation system. However, upon review by DTSC, it became clear that significant amounts of RCRA waste from UST T-3 would be left in-place in the uppermost aquifer unit. DTSC indicated that Hughes and Raytheon have disputed the evaluation of the Solid Waste Management Units and Areas of Concerns identified by the DTSC. DTSC indicated it is currently revising a draft Correction Action Order that it will share with Raytheon within the next two months.
06/30/98	Cal EPA	RMSC	Letter regarding Conditional Approval of a Class I Permit Modification Ownership and Facility Name Change	The DTSC received Raytheon's notification, dated December 19, 1997, that Raytheon plans to have a Class I Permit Modification application for the ownership and facility name change at the former Hughes facility. Raytheon indicated that the new facility owner would be Raytheon Company and that the facility would be operated under the new name of Raytheon Systems Company, Sensor and Electronics Systems. DTSC also determined that Raytheon's facility's financial assurance document, as required in Raytheon's Permit was not satisfactory. DTSC noted that Raytheon indicated they would submit a revised financial document. DTSC approved the Class I Permit Modification with the condition that Raytheon must submit the revised approval financial assurance document within 90 calendar days.
08/11/98	Flour Daniel GTI	RMSC	Groundwater Contour Map	A groundwater contour map prepared by GTI indicated that the groundwater flow direction in the area of Lot B was to the south-southeast. Groundwater flow in the northwestern portion of the site appeared to flow to the west-southwest, apparently due to the groundwater remediation activities conducted in this portion of the site.

TABLE 2: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE CRWQCB ON JANUARY 11, 1999

Date	From	To	Subject/Title	Comments:
09/02/98	Flour Daniel GTI	RMSC	Letter regarding Additional Site Assessment Report	This is a cover letter that summarizes the findings of the GTI report dated September 3, 1998 (summarized by Geocon below).
09/03/98	Flour Daniel GTI	RMSC	Additional Site Assessment Report	This report summarized the field observations and laboratory analytical results at the former Raytheon facility in Canoga Park, California. The report was based on the results of drilling three temporary monitoring wells and one fixed monitoring well (MW-31) in the vicinity of CM-10 and Building Nos. 265, 274, and 276 at the site. GTI indicated that Freon 11 was not detected in the groundwater samples collected from two temporary wells in the area of Building Nos. 265 and 276. Freon 11 was detected in groundwater samples collected from the remaining temporary well (WP-DEV-1) and fixed groundwater monitoring well MW-31 (23 ug/l and 150 ug/l, respectively). The primary MCL for Freon 11 is 150 ug/l. No other VOCs were detected. GTI recommended a course of action that consists of "Monitor Only", indicating that it continues to be appropriate for the CM-10 area of concern. No additional subsurface soil or groundwater assessment activities were recommended for the CM-10 area by GTI. GTI indicated that quarterly sampling and analysis of groundwater collected from MW-31 and CM-10 were recommended to confirm Freon 11 levels remained at or below State MCLs established for this compound. GTI recommended that quarterly monitoring of these wells should continue until samples from four consecutive quarters contained concentrations of Freon 11 less than the State MCL and cleanup criteria of 150 ug/l.
09/08/98	RMSC	Cal DTSC	Letter regarding report of Additional Site Assessment	Raytheon prepared this cover letter that summarizes the findings of a GTI report, entitled *"Additional Site Assessment Report, Sampling and Analysis for Vicinity of CM-10 and Parking Area Adjacent to Building Nos. 265, 264 and 276"*, dated September 23, 1998 (not noted in GTI records by Geocon). Raytheon believes that the results of this assessment support that the Building Nos. 274/276 parking area is the source of the Freon 11 observed in monitoring well CM-10. Further, Raytheon believes that the Freon 11 contamination is derived from air conditioning repairs that were performed on the cooling units at Building No. 263 in 1966, as discussed in the GTI report. Raytheon believes the GTI report addressed the DTSC's concerns expressed in their June 5, 1997 letter regarding the following SWMUs and AOCs:

TABLE 2: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE CRWQCB ON JANUARY 11, 1999

Date	From	To	Subject/Title	Comments:
				SWMU No. 4 Parking area between Building Nos. 274 and 276 SWMU No. 4 Cooling unit at the northeast corner outside Building No. 274 AOC No. 3 Building No. 265 AOC No. 8 Building No. 274 AOC No. 9 Building No. 276 Raytheon requested the DTSC remove the above SWMUs and AOCs from their list as presented in their June 5, 1997 letter. Raytheon indicated that they provided additional data regarding other SWMUs and AOCs that would support Raytheon's request remove those from the DTSC list as well. Raytheon indicated DTSC revised list was promised by DTSC at the February 1998 meeting, but has not been received to date.
09/23/98	Flour Daniel GTI	RMSC	Summary Report, Supplementary Sampling and Analysis	This report summarizes the results of sampling and analysis activities for the Building Nos. 269, 272, and 282 SWMUs and AOCs, in accordance with a GTI work plan submitted to the DTSC on April 16, 1998. GTI indicated no evidence of residual soil contamination beneath former Building Nos. 272 and 282, or in the area of former Pits 1 and 2 at Building No. 269. There was no evidence of residual soil contamination from VOCs beneath the former UST T-14. There was no evidence of residual soil contamination by metals from plating, stripline, or degreasing operations conducted in Building No. 269. Finally, soil and groundwater samples from two new wells indicated soil and groundwater contamination by VOCs. GTI indicated the western extent of this residual contamination had not been determined. However, GTI believed the residual contamination is contained within the limits of the area influenced by the soil in groundwater treatment system that is operating currently.
11/03/98	RMSC	DTSC	Letter regarding Results of Follow-on Sampling and Analysis	This letter relates to Lot C which is located north of the subject site (i.e., Lot B.). Raytheon indicated that GTI detected hexavalent chromium in soil underlying the former acid and alkaline storage base of the former Hazardous Waste Storage Area. Raytheon indicated that GTI indicated that the impacted area has been delineated, and is localized directly beneath the former storage bays. The affected soil is, at a minimum, 5 to 13 feet below grade. Raytheon indicated that the existing groundwater data does not suggest that the hexavalent chromium has impacted the groundwater. As part of ongoing redevelopment plans for this portion of the Lot C parcel, Raytheon requested approval from the DTSC to leave this soil in place and allow for the addition of approximately five feet of overlying soil to accommodate a proposed multi-story parking area

TABLE 2: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE CRWQCB ON JANUARY 11, 1999

Date	From	To	Subject/Title	Comments:
				and other site-wide grade modifications. Raytheon requested the DTSC respond to this request before the end of the 1998 calendar year.
11/23/98	RMSC	DTSC	Letter regarding DTSC Review of Hazardous Waste Storage Area Closure Workplan	Raytheon submitted this letter to the DTSC complaining about the DTSC's lack of attention to work plan modifications and fieldwork (that was conducted on June 4, 1998). Raytheon indicated they provided DTSC with prior notification regarding the proposed modifications to the workplan and implementation, but that the DTSC was late in responding to their notifications and only issued a voice mail outlining the DTSC's concerns the day before the field activities were to be performed. Raytheon indicated that notwithstanding the DTSC's lack of attention to the site, Raytheon has made a tremendous amount of progress remediating the site in moving towards final close out. They indicated that again, DTSC administrative progress on this project continues to be seriously lagging. Raytheon indicated the delays are unacceptable, particularly in light of ongoing site development by the new property owners.
11/23/98	RMSC	DTSC	Letter regarding Administrative Progress in Close-out	Raytheon submitted this letter to the chief of the DTSC complaining about the lack of DTSC administrative progress on this project. Raytheon provided a list of five documents that have not been acted upon by DTSC. Of the five documents, only one related to the subject site, Lot B: *Comments on Report of Additional Assessment in the Vicinity of CM-10,* dated September 8, 1998. The September 8 1998 Raytheon letter requested revision of the DTSC's list of proposed SWMUs and AOCs, and again requested the list of priority areas where the DTSC feels additional work, if any, is needed at the site. Raytheon indicated their desire to complete the remediation and exit the Canoga Park facility as soon as possible. Raytheon indicated they no longer own the facility, nor do they have any control over site redevelopment activities. Raytheon indicated that they would appreciate comments on the five listed documents before the years end and that a meeting should be scheduled in January 1999, almost one year since their last meeting.

* Some documents reviewed at the CRWQCB were not summarized because they were evaluated as not providing relevant information regarding the environmental status of the site. In addition, because Geocon's primary focus was on the environmental condition of Lot B, only generalized environmental information affecting the other subdivided former Hughes lots (i.e., Lots C, A, and D) was provided.

TABLE 3: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE DTSC ON JANUARY 14, 1999*

Date	From	To	Subject/Title	Comments:
01/24/85	Latham & Watkins	Regional Water Quality Control Board (CRWQCB)	Letter regarding proposed monitoring wells near tank clusters	This letter documents location of a proposed single groundwater monitoring well at a hydraulically downgradient location from USTs T-7, T-8, and T-9 that were formerly located in the area of Building No.281. It appears this plan was submitted before actual removal of the USTs.
06/12/88	Calscience Engineering & Laboratories, Inc. (CEL)	Don Stevens Hughes Aircraft Company (HAC)	Letter regarding supplemental information for IRT excavation pits	This letter documents that the UST T-3 area on Lot C was backfilled with contaminated soil from pits T-13 and T-3 followed by clean dry backfill material. The consultant indicated that additional site assessment work is required. The letter also indicated that if remediation of UST T-3 was attempted, there would be no guarantee that the vertical or lateral extent of contamination could be reached. Further, the letter stated that if the limits of contamination were reached, the cost to load, transport, and dispose the contaminated soil off-site would be cost prohibitive.
08/20/90	CA, DOHS, TSC Program	Hughes/Public Notice	Consent Agreement and Order	This document was Enclosure B to the DTSC letter dated January 26, 1996 (summarized below). This document is a CA, Department of Health Services, Toxic Substances Control Program (DOH) "Consent Agreement and Order" entered between Hughes and the DOH, wherein Hughes agreed to comply with the orders of the DOH regarding groundwater monitoring and site remediation as a result of environmental violations observed during past site inspections. The Consent Agreement and Order alleges that Hughes violated provisions of the Hazardous Waste Control Act (HWCA) and the regulations with respect to its hazardous waste operations at the Fallbrook facility and orders certain corrective action. Both Hughes and the DOH entered into the Consent Agreement and Order pursuant to a compromise and settlement of disputed claims. Hughes agreed to pay $5,500 in settlement of the DOH's claims. As part of the agreement, Hughes agreed to work with the CRWQCB to develop and implement a site characterization plan to determine the extent of the soil and groundwater contamination associated with a leaking UST. The document did

TABLE 3: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE DTSC ON JANUARY 14, 1999*

Date	From	To	Subject/Title	Comments:
				not identify the UST; however, Geocon believes the UST to be T-3. After the characterization was completed, a revised closure plan and post-closure plan, if necessary, was to be submitted to the DOH within sixty days. Hughes was required to comply with the orders of the CRWQCB including the orders regarding groundwater monitoring and site mitigation. Hughes was required to permit the DOH to inspect and copy all sampling, testing, monitoring, and other data generated by Hughes or on their behalf.
07/30/91	McLaren/Hart Environmental Engineering Corporation	Hughes Missile Systems Group (HMSG)	Radioisotope Review and Comparison for the Hughes Missile Systems Group Facility	This report presented research concerning radioisotope levels in geological deposits in Southern California and within groundwater in the San Fernando Valley. These levels were compared to levels reported at the Hughes Missiles Systems Group facility in Canoga Park. The results indicated that, although geological deposits at Hughes have not been tested for radioisotopes, research strongly suggests that uranium and radium are naturally occurring in rock and soil at the site. The report also indicated that the maximum values of uranium in groundwater at the Hughes site are slightly elevated when compared to seven other sampling locations in the region. The maximum value for radium at the site exceeds the upper limit of the combined range of the other sampling locations by a factor of five. The report indicated these elevated levels are likely due to local variations in geological deposits. The report recommended a one-time sampling and analysis of groundwater from wells CM-8D, CM-10, and CM-9D for isotopic uranium to evaluate if the observed levels are of natural or man-made origin. In addition, the report recommended quarterly monitoring for uranium and radium at the site.
01/23/92	Groundwater Resources Consultants, Inc.	HMSG	Investigation of Radioactivity in Groundwater at the Hughes Aircraft Company, 3rd Quarter 1991.	This report indicated that groundwater sampled from monitoring wells at the site contained uranium at concentrations that exceeded the proposed MCL established for uranium. The is attributed to the fact that groundwater at the site commonly has natural background TDS concentrations from 3 to 5 times the

TABLE 3: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE DTSC ON JANUARY 14, 1999*

Date	From	To	Subject/Title	Comments:
				Secondary Drinking Water Standard of 500 mg/l, resulting in a proportional increase in uranium salts concentrations. All radium results were below the proposed EPA MCL of 20 picoCuries per liter (pCi/l). The Gross Beta results indicated that there were no man-made radioisotopes present. The letter concluded stating that *"Because no man-made radionuclides are indicated by the data from this investigation, no additional radionuclide sampling is warranted."*
02/14/92	Groundwater Technology	HMSG	Feasibility Study for Groundwater Remediation	This feasibility study was performed to evaluate remedial alternatives for groundwater containing dissolved-phase VOCs. It was determined that a groundwater pump-and-treat system using liquid-phase carbon would be the most appropriate remedial technology. The report recommended at least nine groundwater recovery wells be employed for full containment of the dissolved-phase plume. The remediation project was estimated to continue for least 20 years.
03/27/92	Groundwater Resources Consultants, Inc	HMSG	Results of Radiological Sampling of Monitor Wells, December 1991	This report conveyed the same conclusions and recommendations as their report dated January 23, 1992 (described above). The levels of uranium and radium detected in groundwater monitoring wells CM-10 and CM-8D, when compared to similar levels and other wells, were on the average more than five times higher in concentration. No explanation is provided for these variations. Monitoring well CM-18 also had elevated levels of uranium and radium when compared to the other wells. A groundwater gradient map (prior to the influence of pump-and-treat) as well as several cross sections interpreting the local geologic strata are presented in this report.
05/92	Hughes	CRWQCB	Support Documentation for the Radioactive Materials Investigation the Hughes Aircraft Company	This document identifies the equipment used by Hughes that contains radioactive materials. Most of the radioactive source materials listed appeared to be of a small quantity and used for thickness measuring, static illumination, leak detection, and scanning electron microscopy (x-rays). Some irradiated equipment parts were also indicated.

TABLE 3: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE DTSC ON JANUARY 14, 1999*

Date	From	To	Subject/Title	Comments:
06/18/92	HMSG	CRWQCB	Letter Regarding Radiological Results from Groundwater Monitoring	This report provided tabulated radiological results from the groundwater monitoring project at Hughes. Groundwater monitoring wells CM-8D and CM-10 exhibited elevated levels of radium and uranium when compared to most of the other wells outside.
01/04/94	Groundwater Technology	HMSG	Report on Facility-Wide Site Assessment	This report is identical to the summary provided in Table 1 (i.e., documents provided by EASI).
03/29/94	Groundwater Technology	HMSG	Corrective Action Plan Addendum	This report provides a four-phased approach for contaminant cleanup of the VOCs-contaminated groundwater at the Hughes site. Phase 1 consists of groundwater containment. Phase 2 consists of continued site assessment/characterization and field pilot testing of alternative remedial technologies. Phase 3 consists of site remediation. Phase 4 consists of closure. The report indicated that Phases 1 and 2 are complete. The report indicated that five groundwater recovery wells were drilled during December 1992 and January 1993. Manifolding of wells, pump installation, and activated carbon installation followed. The report indicated full-time operation of the system had not commenced, due to the difficulty of disposing of treated water (high TDS). The report indicated Hughes has proposed using the treated water for irrigation and the Waste Discharge Permit application has been submitted to the California Regional Water Quality Control Board for review.
11/28/94	Earth Tech	Coast Federal Bank	Technical Memorandum Records Review and Limited Site Investigation	This is the same document provided by EASI for review and is summarized in Table 1.
02/27/95	HMSC	Department of Toxic Substances Control (DTSC)	Waste Discharge Requirements (WDRs)	This transmittal letter provides the DTSC with a copy of the WDRs (dated December 14, 1994) applicable to the use of treated groundwater for landscape irrigation at their Canoga Park facility. The letter also indicated that the CRWQCB is designated as the lead agency for this remediation program.

TABLE 3: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE DTSC ON JANUARY 14, 1999*

Date	From	To	Subject/Title	Comments:
				The attached letter describing WDRs from the CRWQCB also included a table of constituents providing the discharge limitations maximum in mg/l and ug/l for the treated water.
09/18/95	GTI	DTSC	Closure Plan Cleanup Criteria	This letter references DTSC letter dated August 16, 1995 pertaining to establishing cleanup criteria and performance standards for the Closure Plan. GTI indicated the DTSC letter suggests that cleanup criteria for certain compounds should be based on WDRs implemented by the CRWQCB for managing the discharge of treated water at the site. GTI indicated the CRWQCB offered the following comments: (1) WDR discharge limits are not cleanup levels for groundwater but are surface discharge limits; (2) To establish target cleanup levels for soil, the CRWQCB recommends using MCLs along with CRWQCB-specified attenuation factors, as described in the *Interim Guidance for Remediation of VOC Impacted Sites*, January 1995. DTSC's response to this letter is provided below.
10/12/95	DTSC	CRWQCB	Letter regarding waste discharge levels	This letter documents that Hughes submitted a revised Closure Plan on Sept. 18, 1995 to the DTSC for the two permitted RCRA units at the facility, which DTSC proposed to approve following notification to the public for review and comments. The RCRA units were identified as the Hazardous Waste Storage Area ("HWSA") and the former UST T-3. Simultaneously, the DTSC noted, Hughes is engaged in a groundwater cleanup under the supervision of the CRWQCB, for waste discharged into the groundwater from at least three USTs, one of which is T-3. The revised Closure Plan established soil cleanup standards based on (for particular compounds) lowest numbers produced by health risk assessment calculations, background measurement, or the MCLs with the attenuation factors

TABLE 3: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE DTSC ON JANUARY 14, 1999*

Date	From	To	Subject/Title	Comments:
				described in the CRWQCB's *Interim Guidance for Remediation of the VOC Impacted Sites,* January 1995. On Feb. 9, 1995, the CRWQCB issued to Hughes the WDRs, which are lower, in several instances, than their respective MCLs. DTSC indicated that CRWQCB's WDRs must be incorporated within DTSC permitting process which includes closure, post-closure, and corrective action. DTSC indicated that the conflicting closure standards with respect to VOCs (the WDRs levels vs. MCLs) are critical issues that need resolution due to Hughes concern of setting a precedent for the post closure process of T-3.
11/28/95	DTSC	CRWQCB	Lead Agency Designation	DTSC indicated to the CRWQCB that the DTSC will be the lead agency for corrective action at the former Hughes facility.
11/29/95	DTSC	Groundwater Technology, Inc.	Letter regarding clean-up levels	DTSC requested that Hughes use WDRs in its calculations to derive closure standards. The DTSC said *"Note that we use the term closure standard, <u>not</u> cleanup criteria."* DTSC indicated that the WDRs are discharge limits for treated water. DTSC indicated that the WDRs are not cleanup levels; however, they represent the level of protection which the CRWQCB requires to protect the San Fernando Basin as per the CRWQCB's Basin Plan. It is the DTSC's position, until DTSC receives a formal response from CRWQCB, that no more waste should be discharged into the groundwater and Hughes former facility from residual soil contamination than would be allowed to be discharged as treated water under the existing WDRs. In summary, this letter did not specify what the actual groundwater cleanup criteria are for the former Hughes site.
01/26/96	DTSC	CRWQCB	Lead Agency Confirmation	This interagency letter from the DTSC to the RWQCB requested clarification and preference of the CRWQCB regarding the Lead Agency status for Corrective Action at the Hughes facility. Since one of the UST's was permitted under RCRA, provisions regarding long-term care and monitoring under a Post Closure process needs to be implemented. This letter suggests that DTSC should

TABLE 3: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE DTSC ON JANUARY 14, 1999*

Date	From	To	Subject/Title	Comments:
				acquire lead agency status for the remediating groundwater contamination underlying the Hughes site.
01/30/96	CRWQCB	DTSC	Lead Agency Confirmation	This interagency letter from the CRWQCB indicated that they have no objections to the DTSC serving as the lead agency for the underground storage tank investigation and cleanup at the former Hughes site under the RCRA corrective action process. The CRWQCB requested to be copied on all future correspondence from the DTSC for this case, especially when closure is pending.
Unknown Date in 1996	DTSC	Unknown, General Public?	Proposed Negative Declaration	This Proposed Negative Declaration for the Hughes facility indicated that Hughes, as part of its RCRA Hazardous Waste Permit, is seeking approval of a revised Closure Plan from the DTSC for its Hazardous Waste Storage Area HWSA and UST T-3. The letter indicated that as a result of Notices of Deficiencies issued to Hughes by the DTSC dated December.1, 1994 and June 6, 1995, the Closure Plan dated February 1995 was revised in August 1995 and modified by the DTSC in December 1995. The letter described the fieldwork, confirmation sampling, and chemical testing remaining for closure of the HWSA. DTSC proposed and described a Contingent Closure and Contingent Post Closure for UST T-3 to comply with DTSC regulations. DTSC indicated that a records review led to the conclusion that hazardous waste residues in soil and groundwater underlying UST T-3 still exists despite tank\soil removal under CRWQCB oversight. DTSC indicated a final Closure Certification Report will be prepared by Hughes (i.e., currently Raytheon) documenting the completion of closure activities. DTSC indicated that the *"DTSC can still impose corrective action to be addressed during the post closure process if any credible evidence(s) is obtained indicating that they are new solid waste management units."*

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Date	From	To	Subject/Title	Comments:
				DTSC indicated that the current groundwater remediation and monitoring activities underlying the UST T-3 are performed under the CRWQCB's oversight. DTSC determined that this project will not have a significant effect on the environment. DTSC indicated that the HWSA closure or the contingent post closure will not result in the creation of any health hazard or adverse environmental effect.
08/06/96	DTSC	N/A	Negative Declaration Approval	This letter provides approval of the Negative Declaration. The DTSC found that on the basis of the Initial Study and comments received on the Negative Declaration that there is no substantial evidence that this project will have a significant effect on the environment.
08/06/96	California Environmental Protection Agency (EPA)	??	Response to Comments on the Modified Closure Plan and the Proposed Negative Declaration	This document was an attachment to the DTSC Negative Declaration Approval dated August 6, 1996. The letter includes comments by Hughes and responses by the DTSC. Of note, the DTSC indicated that the soil remediation (i.e., closure) of UST T-3, which was performed under the supervision of the CRWQCB, does not constitute closure under RCRA and that the DTSC finds that hazardous waste residuals is soil still remain and are continuously contributing to groundwater contamination. DTSC noted *"Furthermore, the hazardous waste constituents contained in T-3 cause contamination of groundwater underlying T-3, hence, T-3 is subject to post closure. Since T-3 did not have a secondary containment, it must be closed under landfill requirements which automatically require a post closure permit. These requirements included, at a minimum, groundwater remediation and monitoring that are both subject to RCRA standards".*
02/06/97	DeVry Inc.	??	Portion of Report	This report indicated that Lot A, south of the site (i.e., Lot B) is in an area of minimal flooding potential (Zone C) as defined by the Federal Insurance Administration.

TABLE 3: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE DTSC ON JANUARY 14, 1999*

Date	From	To	Subject/Title	Comments:
02/05/98	Raytheon Missile Systems Group (RMSG)	DTSC	Letter regarding the Upcoming Meeting Regarding Designation of Solid Waste Management Unit s and Areas of Concern	Raytheon summarized their position regarding corrective action at the proposed Areas of Concern (AOCs) and Solid Waste Management Units (SWMUs) identified by the DTSC at the former Hughes facility. This letter was prepared prior to a proposed face-to-face February 10, 1998 meeting between Raytheon and the DTSC. Raytheon conclusions and recommendations based on DTSC input are summarized into four categories or groups (summarized herein only for the AOCs and SWMUs on Lot B): **Group 1: Designated as Areas for Consideration of Further Action:** The DTSC-proposed AOCs/SWMUs in this category for Lot B (i.e., the site) are: SWMU No. 4 – The parking area between Building Nos. 274/276 SWMU No. 5 – Building No.274 cooler unit AOC No. 8 – Building No.274 AOC No. 9 – Building No.276 **Group 2: Designated as Areas Being Adequately Addressed Through the Ongoing Groundwater/Soil Remediation Currently Being Conducted Under the CRWQCB August 1990 Consent Order:** The DTSC-proposed AOC/SWMU in this category for Lot B (i.e., the site) is: AOC No. 11 – Former USTs T- and T-6 **Group 3: Areas Being Adequately Addressed Through Natural Attenuation:** The DTSC-proposed AOCs/SWMUs in this category for Lot B (i.e., the site) are: SWMU No. 7 – Sewer line near B-SL-4 AOC No. 1 – Building No.263 AOC No. 3 – Building No.265

TABLE 3: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE DTSC ON JANUARY 14, 1999*

Date	From	To	Subject/Title	Comments:
				Group 4: Areas with Inadequate Evidence of a Release: The DTSC-proposed AOCs/SWMUs in this category for Lot B (i.e., the site) are: AOC No. 7 – Building No.271 AOC No. 10 – Building No.281 AOC No. 12 – USTs T-7 and T-9 Raytheon stated that post-closure care for former UST T-3 was not applicable because the unit was "clean-closed" through ongoing corrective action. Raytheon stated that the 1990 Consent Agreement also prevents DTSC from requiring post-closure care for UST T-3. Raytheon further stated that the substantive requirements associated with post-closure make little sense for this site. Raytheon believes that contaminated soils have already been removed from beneath the UST T-3 former location. Raytheon stated that *"Because we continue to firmly believe that post closure is not applicable to Tank T-3, RMSC has no plans to prepare a post-closure operation plan, as requested by DTSC and its letter dated 14 November 1997."* Raytheon concluded that *"...the site poses no threat to human health and the environment, based on all data and reports that have been generated to date."* (Review below, the DTSC's May 19, 1998 Response to this Raytheon Letter) (Also review Raytheon's September 8, 1998 request to DTSC to de-list several of the above-mentioned AOCs and SWMUs)
02/06/98	N/A	N/A	Summary Data Obtained from DTSC that summarizes Radionuclide Data	This is compilation of radiological data obtained from the DTSC that represents groundwater sampling events conducted from December 1990 to March 1992. The radionuclide data has been described previously; however, this is the first table that summarizes the documented sampling events. None of these data appear to test for man-made radionuclides aside from uranium and radium.

TABLE 3: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE DTSC ON JANUARY 14, 1999*

Date	From	To	Subject/Title	Comments:
03/21/98	RMSG	CRWQCB	Letter regarding Cost Reimbursement Account	This letter is identical to the letter reviewed at the CRWQCB (see Table 2) that questions Raytheon' s payment to both the CRWQCB and DTSC as part of Cal-EPA's Cost Reimbursement Program.
05/19/98	EPA	RMSG	Letter regarding Post-Closure Permit Application Requirement	DTSC indicates to Raytheon that they have failed to provide the Post-Closure Application for the former UST T-3. Raytheon is in violation of Title 22 California Code of Regulations. DTSC contends T-3 is subject to post closure requirements per Title 22. DTSC again requires Raytheon to submit a post-closure application for T-3 within 30 days of receipt of their letter.
05/29/98	Langdon Wilson	DTSC	Letter regarding DeVry Institute of Technology	DeVry Institute has prepared a Conditional Use Permit for the private school they are planning to build in Lot A. DeVry requested that the DTSC help them with a Hazardous Material Treatment and Disposal Plan that needs to be submitted to LA City Planning and Dept. of Public Works that certifies that remediation has been completed prior to issuance of a building permit. The attached City of LA, Department of Building and Safety letter to DeVry indicated the following: *Hazardous material treatment and disposal plans shall be submitted to the Department of City Planning and the Department of Public Works for approval and by providing a certification by the DTSC that remediation has been completed in compliance with all applicable federal, state and local regulations and in accordance with approved work plans will be required prior to initiation of construction of the proposed project.* **EASI/TCSCRI should evaluate if the City of LA will require the same for any proposed construction project on Lot B.**
07/02/98	RMSG	DTSC	Letter regarding Response to DTSC Comments on Hazardous Waste Storage Area Closure Workplan	Raytheon provided comments to DTSC's comments to their March 11, 1998 workplan for demolition and disposal of their former HWSA in Lot C. Most of the comments to DTSC comments which apply to Lot C do not appear to impact Lot B use and are therefore not described in detail here. Raytheon indicated that a Clean Closure Certification Report will be submitted to DTSC within 8 weeks

TABLE 3: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE DTSC ON JANUARY 14, 1999*

Date	From	To	Subject/Title	Comments:
				of completion of all closure activities and upon receipt of signed disposal manifests.
07/27/98	DTSC	DeVry Inc.	Letter Informing DeVry of No Contamination on Lot A	DTSC notified DeVry that they did not believe that a release has occurred on the DeVry Parcel (i.e., Lot A) of the former Hughes facility and that DTSC does not believe any investigation or remediation is necessary subject to certain conditions: It is possible that the sewer line, which crosses the DeVry parcel, may need to be investigated in the future even though it is not being required at this time. DTSC desires notification 7 calendar days before initiation of excavation activities so that DTSC can observe the sidewalls or bottom of the excavation. DeVry must provide for access should future borings or wells be needed. DeVry or any subsequent owner may be required to provide site access to areas on their parcel requiring corrective action if identified in the future. Such activities may include, but are not limited to, soil excavation and/or groundwater extraction and treatment. Providing such access may require the owner to vacate and/or demolish existing and/or future facilities at the site.
09/08/98	RMSG	DTSC	Letter regarding Report of Additional Site Assessment in Vicinity of CM-10 and Parking Area Adjacent to Building Nos. 265, 274, and 276	This letter is identical to the letter of the same date reviewed at the CRWQCB (see Table 2 summary).
09/16/98	Errol L. Montgomery & Associates, Inc.	Unknown, Raytheon possibly	Plan for Modification of Remediation Systems	Report indicates that VOCs in groundwater in the vicinity of well CM-8D continue to show a decreasing trend and are presently below groundwater cleanup criteria. In addition, notes no indication that VOCs are migrating down-gradient away from the CM-8D area and is no indication that this area of VOCs will require active remediation in order to meet groundwater cleanup criteria established for the site. No further investigations or remedial actions were recommended for the CM-10 area.

TABLE 3: SUMMARY OF ENVIRONMENTAL DOCUMENTS REVIEWED AT THE DTSC ON JANUARY 14, 1999*

Date	From	To	Subject/Title	Comments:
09/18/98	RMSG	CRWQCB	Letter regarding Modification of Remedial System	Raytheon described modifications (deactivation of some wells and addition of new wells) in order to enhance and expedite the ongoing remediation effort at the former Hughes facility (Lot C). Indicated remediation has been in progress since early 1995. Even though Raytheon has concerns about paying for two agencies involvement, Raytheon requested that a Cost Recovery Account be established to pay for both DTSC and CRWQCB regulatory oversight.
10/05/98	RMSG	DTSC	Letter regarding Summary Report of Supplemental Sampling and Analysis Performed at the Locations of Former Building Nos. 269, and 272, 282.	The letter summarized the findings of site investigations performed on the northern portion of Lot C in the Building Nos.269, 272, and 282 building areas. Raytheon requested that DTSC remove several of the SWMUs and AOCs from their list. Raytheon indicated they need DTSC's response on two key issues: (1) A revised list from DTSC of SWMUs and AOCs. They indicated additional data to remove other SWMUs and AOCs was submitted to the DTSC on February 17, 1998 and September 8, 1998. (2) DTSC's final decision regarding post-closure for former UST T-3. They indicated Raytheon will not proceed with plans for site close-out until the post-closure issue is resolved.
12/11/98	DeVry Institute	DTSC	Letter Describing Exposed Sewer Line on Lot A	DeVry wrote the letter to the DTSC to inform them that they observed an existing sewer line crossing a portion of Lot A. The sewer line was observed to be metal and did not exhibit evidence of leakage.

* Some documents reviewed at the DTSC were not summarized because they were evaluated as not providing relevant information regarding the environmental status of the site. In addition, because Geocon's primary focus was on the environmental condition of Lot B, only generalized environmental information affecting the other subdivided former Hughes lots (i.e., Lots C, A, and D) was provided.



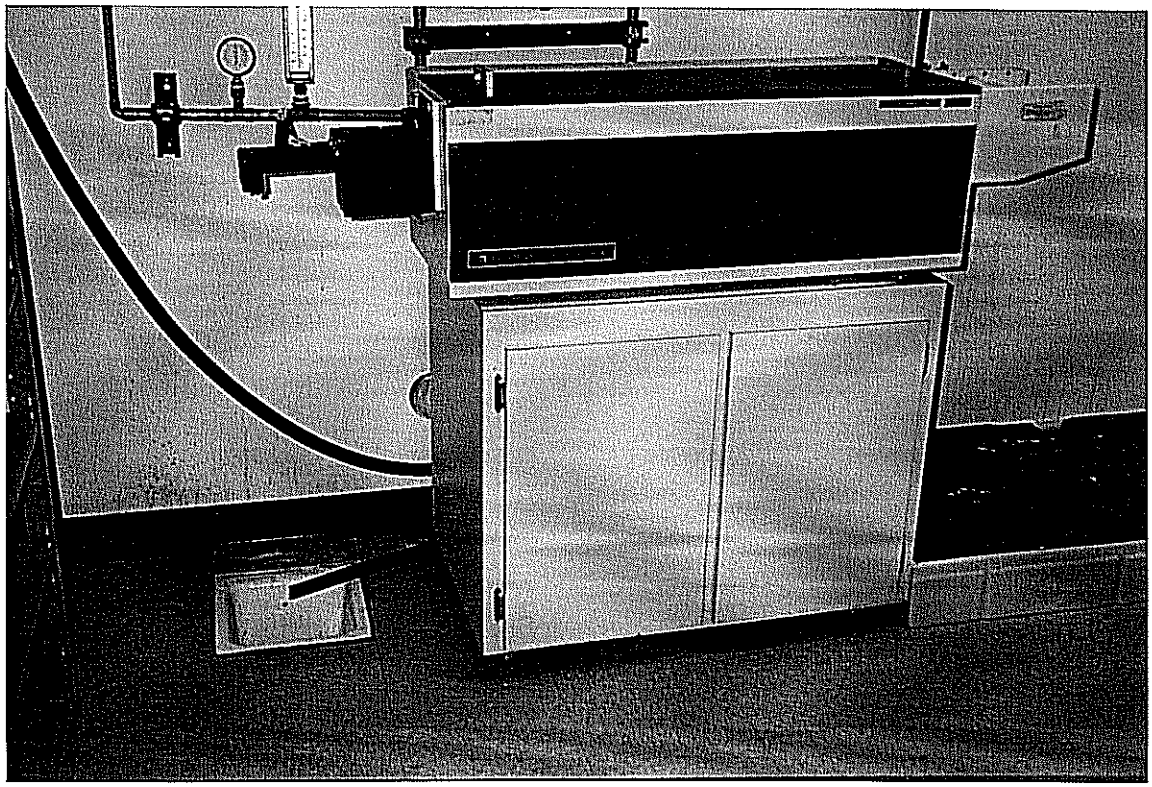
Photograph 1 – General Site Area – Including Building 277 - View to west



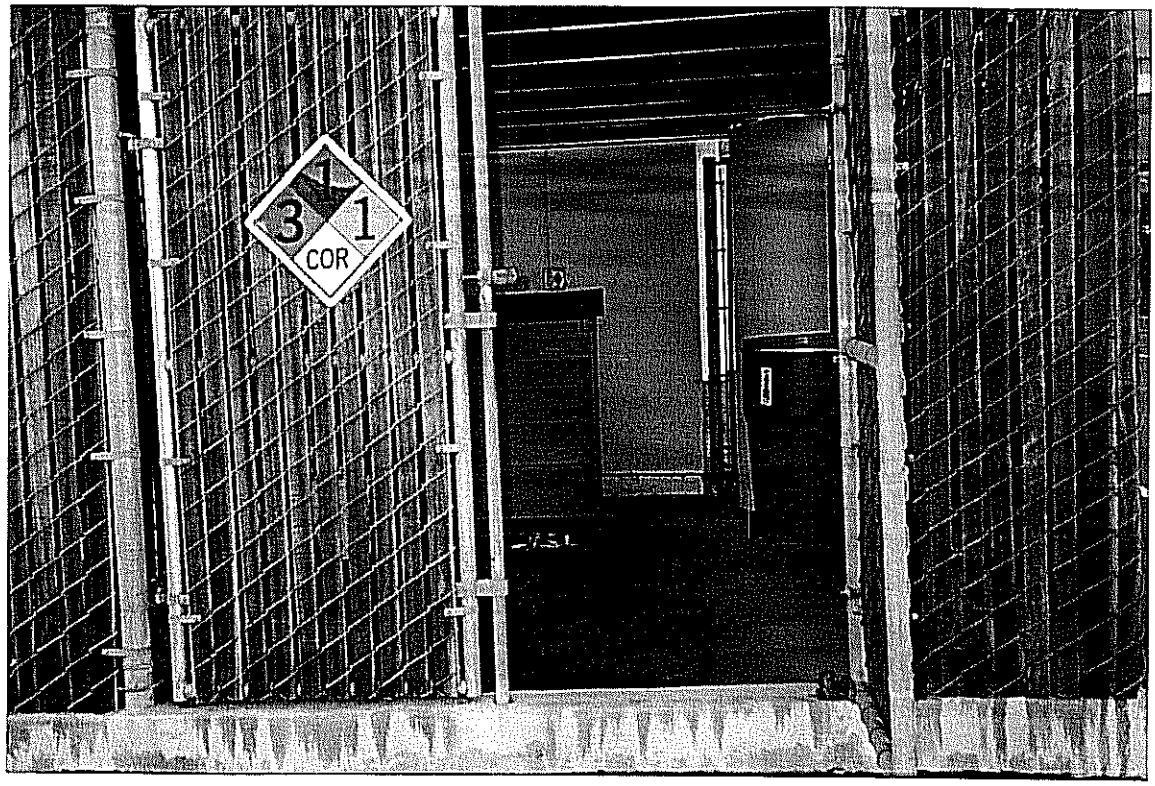
Photograph 2 – Building 261 - View to north



Photograph 3 – Transformer Area – Note staining at base of transformer at right - View to northwest



Photograph 4 – Building 277 – Photoprocessing equipment



Photograph 5 – Building 265 – Former chemical storage area at northeast of building



Photograph 6 – Building 265 – Cuts in concrete floor in basement

SITE ASSESSMENT PLUS REPORT
(EXTENDED BY 1/4 MILE)

PROPERTY INFORMATION	CLIENT INFORMATION
Project Name/Ref #: Not Provided 8433 Fallbrook Avenue Canoga Park, CA 91304 Latitude/Longitude: (34.222899, 118.625757)	

Site Distribution Summary Agency / Database - Type of Records			within 3/8 mile	3/8 to 1/2 mile	1/2 to 3/4 mile	3/4 to 1 1/4 mile
A) Databases searched to 1 1/4 mile:						
US EPA	NPL	National Priority List	0	0	0	0
US EPA	CORRACTS (TSD)	RCRA Corrective Actions and associated TSD	1	0	0	0
STATE	SPL	State equivalent priority list	0	0	0	0
B) Databases searched to 3/4 mile:						
STATE	SCL	State equivalent CERCLIS list	1	0	0	-
US EPA	CERCLIS / NFRAP	Sites currently or formerly under review by US EPA	1	0	0	-
US EPA	TSD	RCRA permitted treatment, storage, disposal facilities	0	0	0	-
STATE REG CO	LUST	Leaking Underground Storage Tanks	1	0	0	-
STATE/ REG/CO	SWLF	Permitted as solid waste landfills, incinerators, or transfer stations	0	0	0	-
STATE	DEED RSTR	Sites with deed restrictions	0	0	0	-
STATE	CORTESE	State index of properties with hazardous waste	1	0	0	-
STATE	TOXIC PITS	Toxic Pits cleanup facilities	0	0	0	-
C) Databases searched to 1/2 mile:						
US EPA	RCRA Viol	RCRA violations/enforcement actions	1	0	-	-
US EPA	TRIS	Toxic Release Inventory database	0	0	-	-
STATE	UST/AST	Registered underground or aboveground storage tanks	4	0	-	-
COUNTY	UNIQUE CO	Unique county databases	3	0	-	-

Site Distribution Summary Agency / Database - Type of Records			within 3/8 mile	3/8 to 1/2 mile	1/2 to 3/4 mile	3/4 to 1 1/4 mile
D) Databases searched to 3/8 mile:						
US EPA	ERNS	Emergency Response Notification System of spills	3	-	-	-
US EPA	GNRTR	RCRA registered small or large generators of hazardous waste	4	-	-	-
STATE	SPILLS	State spills list	0	-	-	-

This report meets the ASTM standard E-1527 for standard federal and state government database research in a Phase I environmental site assessment. A (-) indicates a distance not searched because it exceeds these ASTM search parameters.

LIMITATION OF LIABILITY
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NOTES

SITE ASSESSMENT PLUS REPORT
(EXTENDED BY 1/4 MILE)

Map of Sites within 1 1/4 Miles



If additional databases are listed in the cover page of the report they are also displayed on this map. The map symbol used corresponds to the database category letter A,B,C,D.

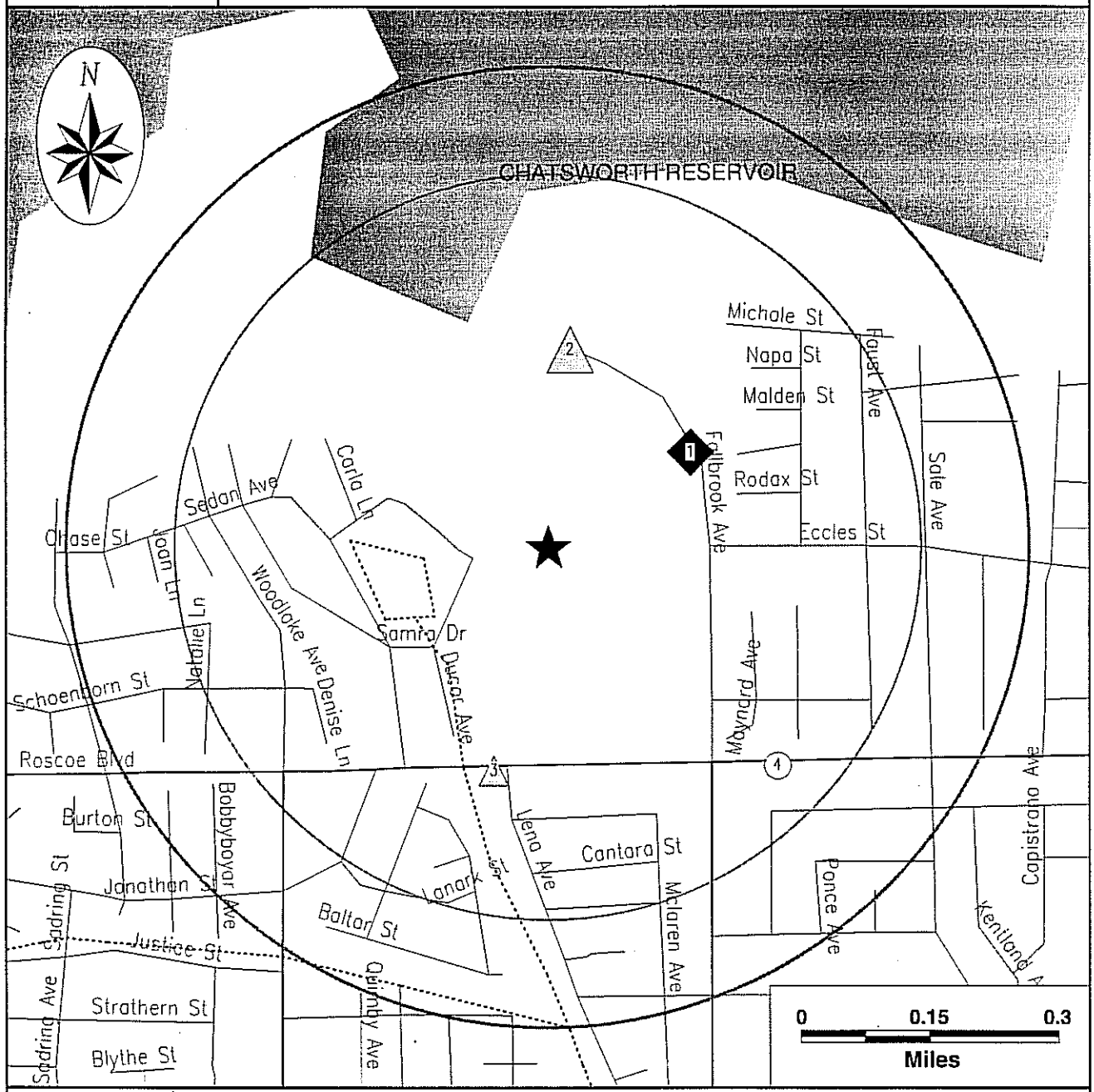
For More Information Call VISTA Information Solutions, Inc. at **1 - 800 - 767 - 0403**

Report ID: **990105200**

Date of Report: **January 5, 1999**

SITE ASSESSMENT PLUS REPORT
(EXTENDED BY 1/4 MILE)

Map of Sites within 3/8 Mile



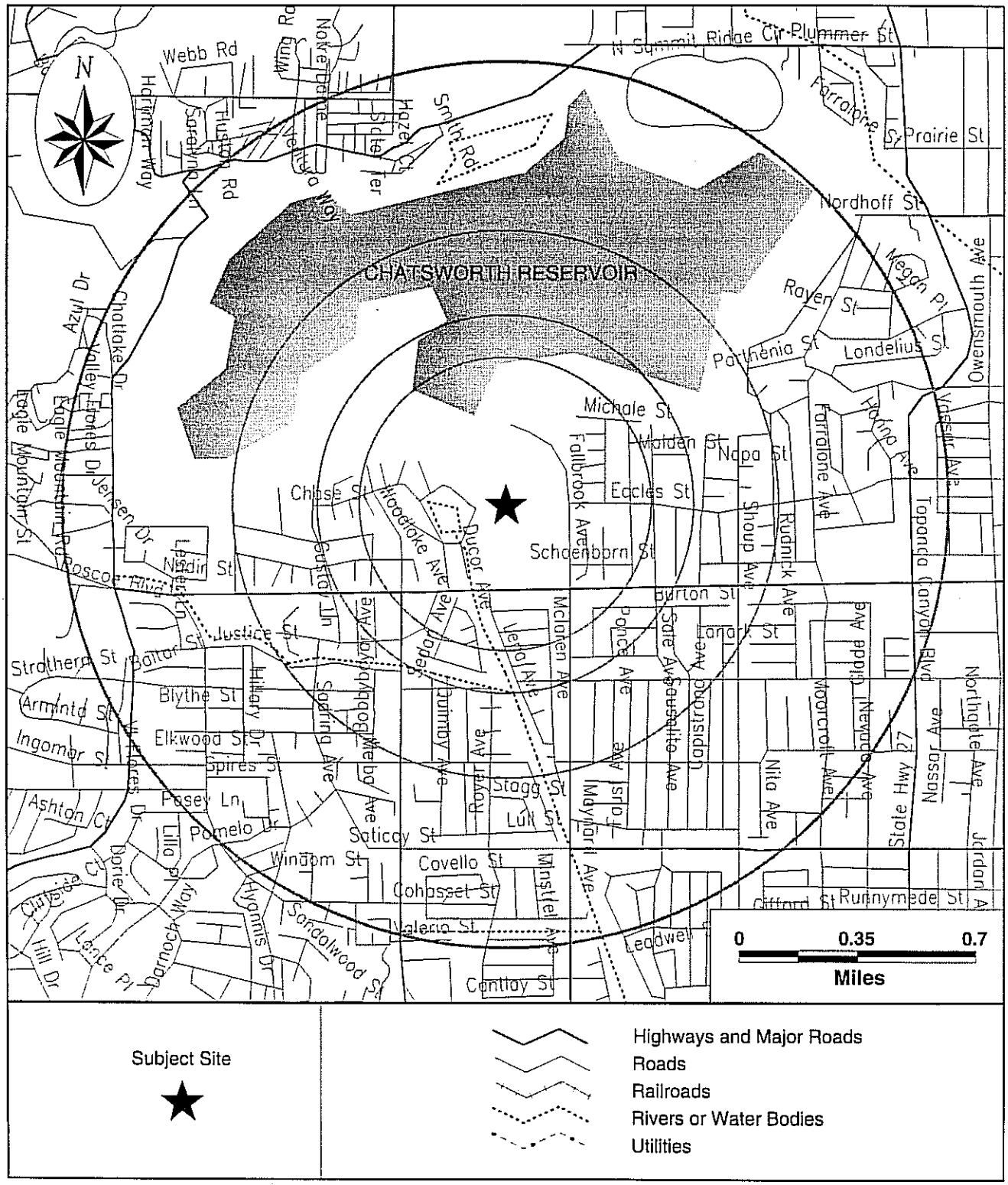
Subject Site	Category:	A	B	C	D
★	Databases Searched to:	1 1/4 mi.	3/4 mi.	1/2 mi.	3/8 mi.
	Single Sites	◆	▩	△	○
	Multiple Sites	◆	▩	△	○
		NPL, SPL, CORRACTS (TSD)	CERCLIS\ NFRAP, TSD, LUST, SWLF, SCL	UST	ERNS, GENERATORS

Highways and Major Roads
Roads
Railroads
Rivers or Water Bodies
Utilities

If additional databases are listed in the cover page of the report they are also displayed on this map. The map symbol used corresponds to the database category letter A,B,C,D.

SITE ASSESSMENT PLUS REPORT
(EXTENDED BY 1/4 MILE)

Street Map



SITE ASSESSMENT PLUS REPORT
(EXTENDED BY 1/4 MILE)

SITE INVENTORY

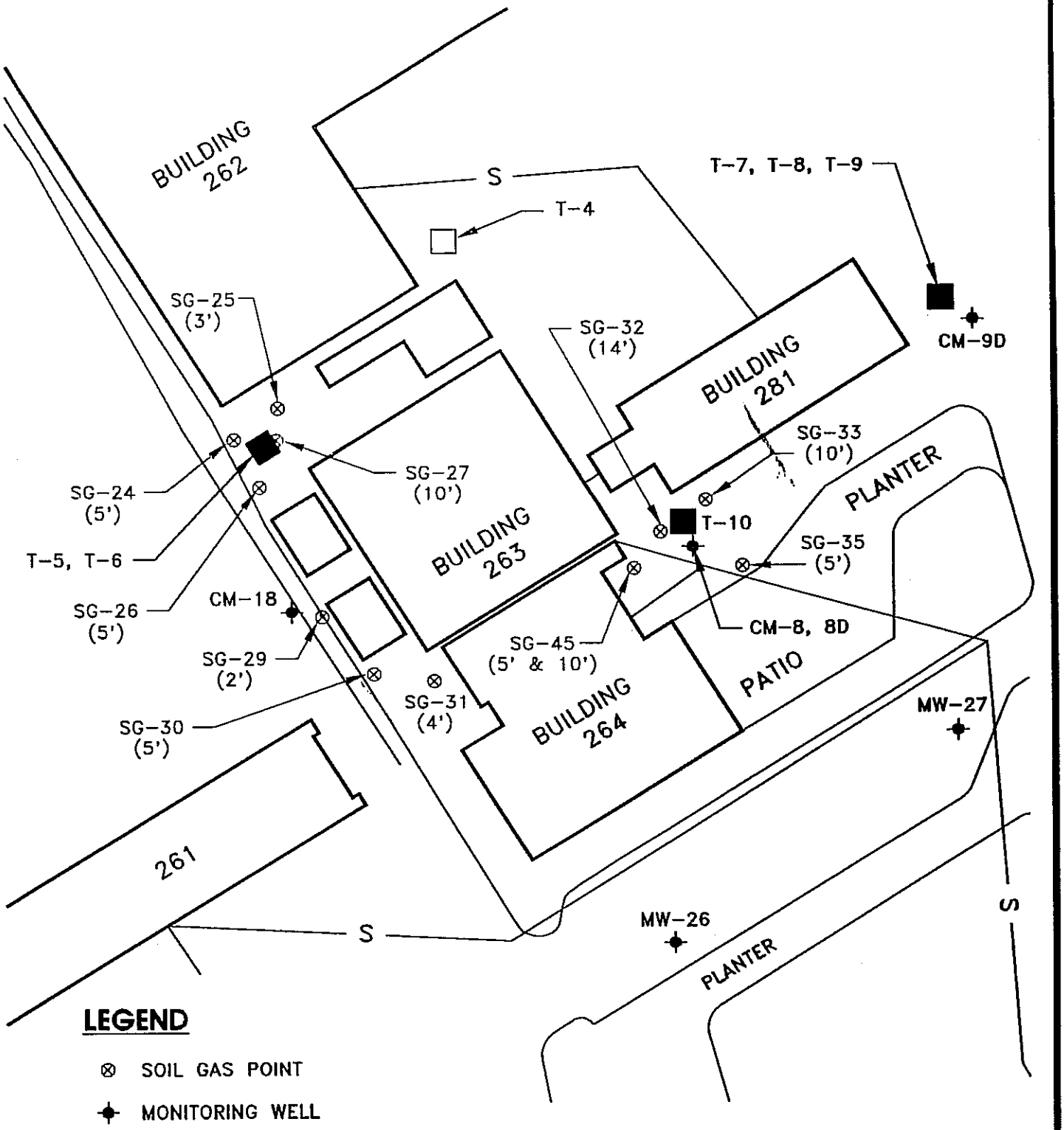
MAP ID	PROPERTY AND THE ADJACENT AREA (within 3/8 mile)	VISTA ID DISTANCE DIRECTION	A			B									C				D		
			NPL	CORRACTS(TSD)	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	DEED RSTR	CORTESE	TOXIC PITS		RCRA VIOL	TRIS	UST/AST	UNIQUE CO	ERNS	GNRTR	SPILLS
1	HUGHES AIRCRAFT 8433 FALL BROOK CANOGA PARK, CA 91304	200097121 0.14 MI NE																	X		
1	HUGHES MISSILE SYSTEMS 8433 FALLBROOK AVE CANOGA PARK, CA 91309	200307287 0.14 MI NE																	X		
1	HUGHES MISSILE SYSTEMS COMPANY 08433 FALLBROOK AV CANOGA PARK, CA 91304	1231907 0.14 MI NE																X			
1	HUGHES AIRCRAFT COMPANY 8433 FALLBROOK CANOGA PARK, CA 91304	202327 0.14 MI NE		X		X	X		X			X			X		X	X		X	
1	HUGHES MISSILE SYSTEMS 8433 FALLBROOK AVE CANOGA PARK, CA 91309	200307569 0.14 MI NE																	X		
1	HUGHES T-3 SITE 08433 FALLBROOK AV CANOGA PARK, CA 91304	6563697 0.14 MI NE																X			
2	CHATSWORTH RESERVOIR 8600 FALLBROOK CANOGA PARK, CA 91304	1258759 0.17 MI N															X				
2	ROCKWELL AID /C 8500 FALLBROOK CANOGA PARK, CA 91304	358341 0.18 MI N															X			X	
3	FIRE STATION 106 23004 ROSCOE CANOGA PARK, CA 91304	235212 0.21 MI S															X			X	
4	LAKEVIEW CLEANERS 22736 ROSCOE BLVD CANOGA PARK, CA 91304	236050 0.31 MI SE																		X	

MAP ID	SITES IN THE SURROUNDING AREA (within 3/8 - 1/2 mile)	A			B								C				D		
	VISTA ID / DISTANCE / DIRECTION	NPL	CORRACTS(TSD)	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	DEED RSTR	CORTESE	TOXIC PITS	RCRA VIOL	TRIS	UST/AST	UNIQUE CO	ERNS	GNRTR	SPILLS
No Records Found																			

MAP ID	SITES IN THE SURROUNDING AREA (within 1/2 - 3/4 mile)	A			B								C				D		
	VISTA ID / DISTANCE / DIRECTION	NPL	CORRACTS(TSD)	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	DEED RSTR	CORTESE	TOXIC PITS	RCRA VIOL	TRIS	UST/AST	UNIQUE CO	ERNS	GNRTR	SPILLS
No Records Found																			

MAP ID	SITES IN THE SURROUNDING AREA (within 3/4 - 1 1/4 mile)	A			B								C				D		
	VISTA ID / DISTANCE / DIRECTION	NPL	CORRACTS(TSD)	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	DEED RSTR	CORTESE	TOXIC PITS	RCRA VIOL	TRIS	UST/AST	UNIQUE CO	ERNS	GNRTR	SPILLS
No Records Found																			

UNMAPPED SITES	VISTA ID	A			B								C				D		
		NPL	CORRACTS(TSD)	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	DEED RSTR	CORTESE	TOXIC PITS	RCRA VIOL	TRIS	UST/AST	UNIQUE CO	ERNS	GNRTR	SPILLS
PAVILLIONS 225 5534 PLATT AVE CANOGA PARK, CA 91304	4062861																	X	
ENERGY TECHNOLOGY ENGINEERING CTR SANTA SUSANA MOUNT-TOP OF WOOLSEY CANYO CHATSWORTH, CA 91311	7636802					X													
CHATSWORTH RESERVOIR 8700 FALLBROOK CHATSWORTH, CA 91311	4026649														X				
RENTEC DIVISION 07647 ALABAMA ST CANOGA PARK, CA 91304	7431173															X			
UNKNOWN UNINCORP BROWN'S CANYON CHATSWORTH, CA 91311	7431594															X			
LACY STREET DUMP-LOS ANGELES 400 26TH AVENUE LOS ANGELES, CA	7447639								X										
AMERICAN LINEN 900 HIGHLAND LOS ANGELES, CA 926700000	7432643										X								
S P COMMERCIAL PROPERTY 501 COMMERCIAL LOS ANGELES, CA	7431826										X								
LOS ANGELES INTERNATIONAL AIRP ALONG SEPULVEDA LOS ANGELES, CA	7448319								X										
LOS ANGELES CITY-TUJUNGA SHE 500' E TUJUNGA, 500' N SHERMAN LOS ANGELES, CA	7448360								X										
2524 HARBOR BLVD , CA	4983201														X				
NEWHALL STATION VALENCIA BLVD. AT NEWHALL AVE. LOS ANGELES, CA	3996881														X				
FLOOD ELEMENT SANTA CLARA YARD 21004 W SOLEDAD CANYON LOS ANGELES, CA	4041730														X				
LA CITY WASHINGTON BLVD LOS ANGELES, CA	6830243								X										
LA CITY DEPARTMENT OF PUBLIC WORKS LOS ANGELES, CA	6830238								X										
3 POINTS DISPOSAL SITE AVE A-8 SOUTH OF KERN CO LOS ANGELES, CA 0	1185005								X										



GROUNDWATER TECHNOLOGY

0 FEET 100
APPROXIMATE

SOIL GAS SURVEY POINTS, AREAS 3 AND 4

CLIENT: HUGHES MISSILE SYSTEM CO.	FILE: 1035PSG3 (1:1000)	PROJECT NO.: 04250-0135	PM	PE/RG	
	REV.		FIGURE: 3		
LOCATION: 8433 FALLBROOK AVENUE CANOGA PARK, CALIFORNIA	DES. SWL	DET. SAC	DATE: 7/13/95		

Raytheon

Raytheon Missile Systems Compa
P.O. Box 11337
Tucson, AZ 85734-1337
(520) 794-3000

In Reply Refer To:
8100/IJR/8298

5 February 1998

VIA FEDERAL EXPRESS

Mr. Philip B. Chandler
Supervising Hazardous Substances Engineering Geologist
California Department of Toxic Substances Control
Southern California Permitting Branch
1011 North Grandview Avenue
Glendale, California 91201

RE: Upcoming Meeting Regarding Designation of Solid Waste Management Units(SWMUs) and Areas of Concern (AOCs) at former Hughes Missile Systems Company facility at Canoga Park, EPA ID CAD 041162124

Dear Mr. Chandler:

Raytheon Missile Systems Company (RMSC, formerly known as Hughes Missile Systems Company) appreciates the opportunity to meet with DTSC on 10 February 1998 to review RMSC's conclusions regarding DTSC's designation of Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) at the Canoga Park facility. A proposed agenda for the meeting will be sent to your attention via telefax on Monday. RMSC will be prepared to provide status of the Hazardous Waste Storage Area closure, the ongoing Groundwater and Soil Remediation system, and redevelopment activities at the site, and to discuss the DTSC-proposed AOCs/SWMUs and post-closure of former Tank T-3.

In preparation for the upcoming meeting, RMSC would like to summarize our position regarding corrective action at proposed AOCs/SWMUs at the site, and post-closure at former Tank T3, as follows:

- **Corrective Action:** Many of the AOCs/SWMUs proposed by DTSC in its 5 June 1997 letter are being addressed through the Corrective Action Plan (CAP) and Addendum. For many of those that remain, DTSC has not demonstrated that actual releases have occurred. The California Health & Safety Code 25187(a) gives DTSC the authority to issue corrective action orders "whenever...the department... determines that there is or has been a release of hazardous waste or constituents into the environment from a hazardous waste facility". DTSC has proposed AOCs/SWMUs at the Canoga Park facility based on the *possibility* that hazardous materials could have been handled or disposed of inappropriately, and a suspicion that a release may have occurred. However, under this provision, "suspected" releases, are not enough. Corrective action cannot be required until actual releases of

hazardous waste or constituents from the unit at issue have been proven. It is not sufficient merely to suggest, as DTSC has, that the record does not yet prove that a particular proposed AOC/SWMU could not be a potential source for contamination observed elsewhere. In addition, there is no evidence that suggests mismanagement of hazardous materials.

Based on the foregoing, RMSC and its consultants have reviewed DTSC's 5 June 1997 letter, and the existing relevant data for each of the AOCs and SWMUs proposed by DTSC. RMSC's conclusions and recommendations based on that review are summarized in four categories or groups below. At our meeting next week, we will be prepared to review in detail the available analytical data (through January 1998) for any and all of the DTSC-proposed AOCs/SWMUs.

Group 1- Areas for consideration of further action. RMSC and its consultants have concluded that additional data might be useful to further characterize certain areas. For example, because Building 269 has been demolished by the new owner's subcontractors and further redevelopment plans are uncertain, RMSC will voluntarily collect additional samples in the area in the near future.

The DTSC-proposed AOCs/SWMUs in this category are:

SWMU No. 3 - Pits at Bldg. 269
SWMU No. 4 - Parking area between Bldgs. 274/276
SWMU No. 5 - Bldg. 274 Cooler Unit
AOC No. 5 - Bldg. 269
AOC No. 8 - Bldg. 274
AOC No. 9 - Bldg. 276

Group 2 - Areas being adequately addressed through the ongoing Groundwater/Soil Remediation currently being conducted under the Los Angeles Regional Water Quality Control Board (LARWQCB), in accordance with the August 1990 Consent Order. These areas are located primarily in the northwestern corner of the site. This group also includes areas that have been adequately addressed through activities such as soil excavation, such as former Tank T-3.

The DTSC-proposed AOCs/SWMUs in this category are:

SWMU Nos. 1 and 2 - Bldgs. 272/282
SWMU No. 6 - Bldg. 272/282 Pump Island (Tanks T-1 and T-2)

Group 2 (cont'd) -
AOC No. 6 - Bldg. 270
AOC No.11 - former Tanks T-5 and T-6
Former Tank T-3

Group 3 - Areas being adequately addressed through natural attenuation, as approved in the 1992/4 Corrective Action Plan & Addendum. This category pertains primarily to CM-10, which contains FREON in concentrations below the maximum contaminant level for drinking water, and CM-8D, which contains DCE at concentrations that have been declining significantly. This category also includes areas in which constituent levels are considered to be naturally-occurring, such as the sewerline near soil boring B-SL-4.

The DTSC-proposed AOCs/SWMUs in this category are:

SWMU No. 7 - Sewerline near B-SL-4
AOC No. 1 - Bldg. 262
AOC No. 2 - Bldg. 263
AOC No. 3 - Bldg. 265

Group 4 - Areas with inadequate evidence of a release.
Most of these are buildings that are suspected by DTSC as possible sources for the contamination observed at CM-10 and CM-8D. However, as discussed above, it is RMSC's position that there is no evidence that these areas are associated with any release.

The DTSC-proposed AOCs/SWMUs in this category are:

AOC No. 4 - Bldg. 268
AOC No. 7 - Bldg. 271
AOC No.10 - Bldg. 281
AOC No.12 - former Tanks T-7 and T-8
AOC No. 13 - former Tank T-14

- **Post-closure care for former Tank T-3:** Post-closure is not applicable to the former Tank T3 because the regulations do not authorize post-closure for tanks that can be clean closed through ongoing corrective action. Post-closure care applies only to those facilities at which "all hazardous wastes, waste residues, contaminated materials and contaminated soils *will not* be removed during closure." In fact, owners/operators of tank systems may only

be required to satisfy post-closure standards where "the owner or operator demonstrates that not all contaminated soils *can be* practicably removed or decontaminated....". The regulations do not specify any time limit for achieving the removal of contaminated soils. RMSC has already removed all contaminated soils associated with releases from Tank T3. While there is no evidence to suggest that any residual contaminants remain in deeper soils or groundwater, if that were the case, those contaminants are being properly addressed through the ongoing corrective action process. Therefore, DTSC is without legal authority to require post-closure care for this tank. [22 C.C.R. § 66264.110(b)(3)]. Neither does section 66264.197(c) of the regulations authorize post-closure for Tank T-3. That section requires only that an owner/operator of a tank without secondary containment include in its closure plan a contingent plan which discusses post-closure care. RMSC met that requirement in its Closure Plan approved August 1996.

The 1990 Consent Agreement also prevents DTSC from requiring post-closure care for Tank T3. The agreement resolved RMSC's liability concerning the closure of Tank T3. In accordance with the agreement, RMSC worked with the LARWQCB, developed the various plans required, obtained LARWQCB approval of the plans, and provided DTSC for opportunities for review and comment. An effective groundwater and soil remediation system has been in place since 1995. All contaminated soils have been excavated and removed, as demonstrated by confirmation sampling. DTSC's attempt to effectively revise the clean closure standards, and thereby require post-closure care, is precluded by RMSC'S satisfactory implementation of the approved Remedial Action Plan and Corrective Action Plan (CAP), in accordance with the Consent Agreement.

Post-closure care is not necessary for Tank T3 in light of ongoing remedial activities at the site. The substantive requirements associated with post-closure care make little sense for this site. For example, installation of a cap to prevent downward migration of percolation waters for a period of 100 years would provide no benefit because contaminated soils have already been removed. Requiring RMSC to obtain a post-closure permit under these circumstances would significantly increase RMSC's costs without advancing the goals of protecting human health and the environment and quickly completing corrective action at this site. Such an order would also run counter to an emerging national trend in favor of the use of corrective action in lieu of post-closure permits. EPA and other states in Region IX have recognized the benefits of corrective action's emphasis on achieving clean closure and are moving away from requiring post-closure permits. In early

1998, EPA will finalize a proposed rule removing the current requirement for a post-closure permit and allowing EPA to use alternative authorities to address facilities with units requiring long-term corrective action. DTSC should follow EPA's lead and continue to rely on its corrective action authority to allow RMSC to continue its efforts to achieve clean closure of Tank T3 through corrective action as an alternative to a post-closure permit

Because we continue to firmly believe that post closure is not applicable to Tank T3, RMSC has no plans to prepare a post-closure operation plan, as requested by DTSC in its letter dated 14 November 1997.

In closing, RMSC would like to emphasize that we vacated the Canoga Park site more than three years ago. We have worked with the agencies to develop an appropriate exit strategy, and have performed more than enough work to adequately investigate and remediate this site. As a result, the site poses no threat to human health and the environment, based on all data and reports that have been generated to date. Because we no longer own the facility, and have no control over current owners and their redevelopment contractors, we must be completely out of this site by the end of this year. However, we continue to be ready and willing to address any legitimate concerns that DTSC may have, if we can successfully agree on a clear path to overall site closure that is prudent, rational, and expeditious.

We look forward to our upcoming meeting, and are hopeful that together we can come to agreement regarding actions that will lead to a prompt and final closure of this site.

Sincerely,

RAYTHEON MISSILE SYSTEMS COMPANY

I. Jean Roberts

for R.A. Padilla, Manager
Environmental & Resource Conservation Programs

cc: P. Blum, DTSC/Glendale
D.L. Grasmick, FD/GTI
J. Kou, DTSC/Glendale
K. Lytz, Latham & Watkins
C.A. Marriott
I.J. Roberts
P.A. Taylor
F. Dellechaie, DTSC/Sacramento

Department of Toxic Substances Control

Jesse R. Huff, Director
1011 N. Grandview Avenue
Glendale, California 91201-2205

Pete Wilson
Governor

Peter M. Rooney
Secretary for
Environmental
Protection

July 27, 1998

CERTIFIED MAIL

Mr. Ken Rutkowski
Vice President
DeVry, Inc.
One Tower Lane, Suite 1000
Oakbrook Terrace, Illinois 60181-4624

Dear Mr. Rutkowski:

DEVRY INSTITUTE OF TECHNICAL, WEST HILL SITE, 22801 ROSCOE BOULEVARD, WEST HILLS, CALIFORNIA (PARCEL CREATED FROM FORMER HUGHES MISSILE SYSTEMS CANOGA PARK FACILITY, 8433 FALLBROOK AVENUE, CANOGA PARK, CALIFORNIA (EPA ID NO. CAD041162124

Mr. Bill Woodson of Langdon and Wilson contacted the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC) in DeVry Inc.'s behalf regarding a parcel that was created out of the former Hughes Missile Systems Company (HMSC) Canoga Park facility in Canoga Park. A condition has been required by the City of Los Angeles with respect to construction on any of the parcels created out of the former HMSC facility due to releases of hazardous waste that had occurred previously at various parts of the facility. This condition is that DTSC indicate that there is either no problem or that it has been satisfactorily cleaned up.

The HMSC site, as a whole, remains subject to Resource Conservation and Recovery Act (RCRA) corrective action requirements because HMSC had received a permit to store hazardous wastes under RCRA and because there have been documented releases of hazardous wastes at various parts of the facility.

As a result of the request by Mr. Woodson, DTSC has reviewed its files concerning the former Hughes Missile Systems Canoga Park facility as well as the following materials submitted by Mr. Woodson, on July 9, 1998 and July 15, 1998:

"Technical Memorandum, Records Review, and Limited Site Investigation, Hughes Missile System Company, 8433 Fallbrook Avenue, Canoga Park", prepared by Earth Tech, dated November 28, 1994

"Corrective Action Plan Addendum, Hughes Missile System Company, 8433 Fallbrook Avenue, Canoga Park", prepared by Groundwater Technology, Inc., dated March 29, 1994

"Phase I Environmental Report: Areas of Potential Chemical Release to Soil and Groundwater, Hughes Missile System Company, Canoga Park, California", prepared by Groundwater Technology, Inc., dated December 28, 1993

"Report of Geotechnical Investigation Proposed DeVry Institute of Technology Facility", prepared by Law/Crandall, dated February 6, 1997

One set of seven aerial photograph enlargements, dated from 1952 to 1979

Based upon our review, we have not determined that any release has occurred on the DeVry parcel of the former HMSC property and DTSC does not at this time believe any investigation or remediation is necessary subject to the following conditions:

1. It must be noted that the main sewer line, into which HMSC discharged various materials — perhaps including some of the compounds found in ground water elsewhere on the site — crosses the DeVry parcel. It is possible that this segment of the sewer line may need to be investigated although that is not being required at this time.

2. DTSC wishes to be notified at least seven (7) calendar days in advance of the initiation of excavation in order to observe and possibly sample the sidewalls and/or bottom of the excavations for the proposed driveway and any other structures.

3. Since corrective action is not complete with regards to remaining parcels, there may be a need for further installation of borings and groundwater monitoring wells. DeVry must provide access for such installation and allow maintenance of existing and future wells.

4. If DTSC determines the need for further investigation on the DeVry parcel, DTSC reserves the right to do so under its statutory authority. If such investigations identify contaminated areas requiring corrective action, DeVry or any subsequent owner may be required to provide access to such areas to facilitate all necessary remediation activities. Such activities may include, but are not limited to soil excavation and/or groundwater

extraction and treatment. Providing such access may require the owner to vacate and/or demolish existing and/or future facilities on the site.

If you have questions regarding the foregoing, please call Mr. Phil Blum at (818) 551-2961.

Sincerely,

Liang Chiang for

Philip B. Chandler, CEG, RG
Supervising Hazardous Substances
Engineering Geologist
Southern California Permitting Branch

Certified Mail
Z 464 584 410
Return Receipt Requested

cc: Mr. Bill Woodson
Langdon and Wilson
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Los Angeles, California 90017

Mr. Dan Konieczka
Real Estate and Facilities
DeVry, Inc.
One Tower Lane, Suite 1000
Oakbrook Terrace, Illinois 60184-4624

Mr. Juan Gutierrez, Esq.
Office of Legal Counsel
Department of Toxic Substances Control
P.O. Box 806
Sacramento, California 95812-0806

Raytheon

Raytheon Systems Company
PO Box 11337
Tucson, AZ 85734-1337
520.794.3000

In Reply Refer To:
8100/IJR/8380

8 September 1998

AIRBORNE EXPRESS

Mr. Phil Blum, Project Manager
Southern California Permitting Branch
California Department of Toxic Substances Control
1011 N. Grandview Avenue
Glendale, California 91201

RE: Report of Additional Site Assessment in Vicinity of CM-10 and Parking Area Adjacent to Buildings 265, 274, and 276 at Raytheon Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California;
EPA ID CAD 041-162-124

Dear Mr. Blum:

Enclosed please find a copy of the report titled "Additional Site Assessment Report, Sampling and Analysis for Vicinity of CM-10 and Parking Area Adjacent to Buildings 265, 274, and 276". The conclusions and recommendations of Fluor Daniel GTI (FD/GTI), who performed the assessment and prepared the report, are summarized in their attached letter of transmittal to Raytheon.

FD/GTI concludes that the areal extent of the FREON-11 impacts to groundwater beneath the monitor well CM-10 area have been defined. Concentrations in CM-10 remain at or below the State maximum contaminant level (MCL) for drinking water, and have been at that level since June 1995. Sampling in the area of what DTSC believes to be the source of the FREON-11 in CM-10, specifically the parking area adjacent to Buildings 265, 274, and 276, indicates the presence of this constituent also at the MCL. FREON-11 was not detected at significant levels in soil or groundwater at any of the other areas sampled during this assessment.

Raytheon believes that the results of this assessment support the Bldg. 274/276 area as the source of the FREON-11 observed in CM-10. Further, we believe that the FREON-11 contamination is derived from air conditioning repairs that were performed on the cooling units at Building 263 in 1966, as discussed further in Section 2.0 of the enclosed report. The report also concludes that the current "monitor only" strategy continues to be the appropriate course of action for the CM-10 area.

As FD/GTI indicates in their transmittal letter, the assessment in the CM-10 area addresses DTSC's concerns expressed in their 5 June 1997 letter regarding the following SWMUs and AOCs:

SWMU No. 4	Parking Area between Buildings 274 and 276
SWMU No. 4	Cooling unit at the northeast corner outside Building 274
AOC No. 3	Building 265
AOC No. 8	Building 274
AOC No. 9	Building 276

Therefore, Raytheon is requesting that DTSC remove the above SWMUs and AOCs from their list as presented in the 5 June 1997 letter. Also, on 17 February 1998, RMSC provided additional data relating to other SWMUs and AOCs which support our request to remove those from the list as well. DTSC's revised list was promised by Phil Chandler at our February meeting, but has not been received to date.

Please contact me at (520)794-9320 should you have any questions about the enclosed document.

Sincerely,

RAYTHEON MISSILE SYSTEMS COMPANY

I. Jean Roberts

I. Jean Roberts, Project Manager
Environmental, Health, & Safety

Enclosure

cc w/enclosure:

D. Konieczka, DeVry
D. Kraska, Latham & Watkins
C.A. Marriott
J. Ross, LARWQCB
R. Sams, DTSC/Glendale

cc w/o enclosure:

D.L. Grasmick, FD/GTI
D.B. Hollywood
J. Kou, DTSC/Glendale
R.A. Padilla
P.A. Taylor
G.S. Taylor
D. Weingarten, DTSC/Berkeley

FLUOR DANIEL GTI

September 2, 1998

Ms. Jean Roberts
Raytheon Missile Systems Company
1151 East Hermans Road
Building 826
Tucson, AZ 85734

Re: **Additional Site Assessment Report, Vicinity of CM-10 and Buildings 265, 274, and 276, Former Raytheon Missile Systems Company Facility, 8433 Fallbrook, Canoga Park, California**

Dear Ms. Roberts:

The attached report summarizes the field observations and laboratory analytical results at the former Raytheon Missile Systems Company Facility, 8433 Fallbrook, Canoga Park, California. The data for this report was based on results from drilling three temporary monitoring wells and one fixed monitoring well in the vicinity of CM-10 and Buildings 265, 274, and 276.

The objectives of this additional site assessment were to determine areal extent of Freon 11 contamination in groundwater in the vicinity of Buildings 265, 274, and 276. These objectives were accomplished by collecting and analyzing groundwater samples from specific sampling locations, and collecting and analyzing soil samples from borings used to construct temporary and fixed wells.

This assessment should address issues raised by the California Environmental Protection Agency (CalEPA) and Department of Toxic Substances Control (DTSC) in their June 5, 1997 letter, with respect to the following SWMUs and AOCs:

SWMU #4	Parking Area between Buildings 274 and 276
SWMU #5	Cooling Unit at the northeast corner outside Building 274
AOC #3	Building 265
AOC #8	Building 274
AOC #9	Building 276

In the Corrective Action Plan Addendum (Groundwater Technology, Inc., 1994) issued for the former Hughes Missile Systems Company Facility, no remedial action was proposed for the CM-10 are of concern because Freon 11 concentrations were below the State Drinking Water Standard or Maximum Contaminant Level (MCL) for this constituent. Based on the findings of the current assessment and the observed continuing decline in Freon 11 concentrations over time, a course of action that consists of "Monitor Only" continues to be appropriate for the CM-10 area of concern. No additional subsurface soil or groundwater assessment activities are recommended at this time. Continued quarterly sampling and analysis of groundwater collected from MW-31 and CM-10 are recommended to confirm Freon 11 levels remain at or below State MCLs established for this compound. It is recommended that quarterly monitoring of these wells continue until samples from four consecutive quarters contain concentrations of Freon 11 less than State MCL and cleanup criteria of 150 μg/L.

If you should have any questions or comments on this Information, please feel free to contact either Dan Grasmick or Bob Davis at (805) 644-9811. Thank you.

Sincerely,
Fluor Daniel GTI, Inc.

Robert A. Davis, Jr., R.E.A.
Lead Geologist

Fluor Daniel GTI, Inc.

Daniel L. Grasmick, P.E.
Project Manager

cc: Walter Kauz, RMSC
file/chron

Attachment

- Surrogate spike recoveries in EPA Method 8240/8260 analyses were within acceptable ranges in all soil and groundwater samples.

- Matrix spike and matrix spike duplicate recoveries in EPA Method 8260 were within acceptable ranges.

4.0 SUMMARY

Sampling and analysis activities for the CM-10 area of concern have been implemented in accordance with the April 1998 work plan prepared for this assessment activity. Activities described in the work plan have been completed. Introductory, historical, and background information are provided in Section 1.0 of this report. Field observations and laboratory analytical results are summarized in Section 2.0 of this report. QA/QC procedures implemented during this site assessment are reviewed in Section 3.0 of this report. A summary of findings of these assessment activities is presented below.

- Geologic materials encountered during subsurface drilling consisted of unconsolidated fill, interbedded siltstone, shale, clayey siltstone, and clayey shale, with some interbedded diatomaceous shale.

- The depths to water in temporary groundwater wells WP-265-1, WP-276-1, and WP-DEV-1 were 44, 44.5, and 35.8 feet, respectively. The depth to water in fixed groundwater monitoring well MW-31 was 48.3 feet. Depths to groundwater are generally consistent with data of previous site assessments and ongoing groundwater monitoring and compliance sampling and analyses.

- A trace concentration of trichlorofluoromethane (Freon 11) was encountered in one soil sample collected from soil boring location WP-276-1, at 50 feet below grade surface. However, Freon 11 was not detected in a duplicate soil sample collected at the same location and depth. No other VOCs were detected in any of the soil samples submitted for chemical analyses using EPA Method 8260.

- Freon 11 was not detected above method detection limits in groundwater samples collected from temporary wells WP-265-1 and WP-276-1. These wells were positioned near Buildings 265 and 276, respectively, and near subsurface utilities (subsurface electrical conduit lines and a sewer main, respectively).

- Freon 11 was detected in groundwater samples collected from the temporary well WP-DEV-1, and fixed groundwater monitoring well MW-31 (23 μg/L and 150 μg/L, respectively). No other VOC constituents were detected. The primary maximum contaminant level (MCL) for Freon 11 is 150 μg/L (as promulgated in California's Safe Drinking Water Standard, Title 22 of California Code of Regulations [CCR], Division 4, Chapter 15). Based on concentrations of Freon 11 in WP-DEV-1 and

MW-31, and ongoing analytical data collected from groundwater monitoring well CM-10, Freon 11 concentrations in groundwater underlying the CM-10 area of concern are at, or below, the State MCL.

Based upon the findings of this and previous site assessment activities (ENSR, 1991; Groundwater Technology Inc., 1995 and 1995a; McLaren Hart 1989), the lateral extent of potential impacts to groundwater underlying the CM-10 area of concern has been defined. Installation of a groundwater monitoring well at what is believed to be the sole source area of Freon 11 impacts to groundwater shows groundwater concentrations at the State MCL for this constituent. Further, groundwater quality data collected from temporary wells indicate that Buildings 265 and 276 are not source areas contributing to Freon 11 impacts to groundwater. Finally, downgradient concentrations of Freon 11 in CM-10 and temporary well WP-DEV-1 are below the State MCL for Freon 11.

5.0 RECOMMENDATIONS

In the Corrective Action Plan Addendum (Groundwater Technology, Inc., 1994) issued for the former Hughes Missile Systems Company Facility, no remedial action was proposed for the CM-10 are of concern because Freon 11 concentrations were below the State Drinking Water Standard or Maximum Contaminant Level (MCL) for this constituent. Based on the findings of the current assessment and the observed continuing decline in Freon 11 concentrations over time, a course of action that consists of "Monitor Only" continues to be appropriate for the CM-10 area of concern. No additional subsurface soil or groundwater assessment activities are recommended at this time. Continued quarterly sampling and analysis of groundwater collected from MW-31 and CM-10 are recommended to confirm Freon 11 levels remain at or below State MCLs established for this compound. It is recommended that quarterly monitoring of these wells continue until samples from four consecutive quarters contain concentrations of Freon 11 less than State MCL and cleanup criteria of 150 μg/L.

Raytheon

Raytheon Systems Company
PO Box 11337
Tucson, AZ 85734-1337
520 794 3000

In Reply Refer To:
8100/IJR/8395

5 October 1998

CERTIFIED MAIL
P 245 371 582

Mr. Phil Blum, Project Manager
Southern California Permitting Branch
California Department of Toxic Substances Control
1011 N. Grandview Avenue
Glendale, California 91201

RE: Summary Report of Supplemental Sampling and Analysis Performed at the Locations of Former Buildings 269, and 272, 282; Raytheon Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California; EPA ID CAD 041-162-124

Dear Mr. Blum:

Enclosed please find a copy of the referenced report, summarizing recent sampling efforts conducted at Raytheon's former Canoga Park facility. RMSC's consultant, Fluor Daniel GTI (FD/GTI), performed the assessment and prepared the enclosed report. The report bears the stamp of a California registered professional engineer.

FD/GTI concludes that concentrations of metals were not detected in soil samples at levels that indicate the need for further action. Further, VOC-impacted soil and groundwater occurs in an area where metal working, finishing, and cleaning operations were known to have occurred within the former Building 269. The lateral extent of the contamination to the east and south has been defined, and the ongoing remediation is adequately addressing the impacted groundwater in those areas. FD/GTI recommends additional sampling to establish the western extent, and a workplan for that effort will be submitted to DTSC in the near future. The contamination in the western area of the former building is being adequately contained by the ongoing remediation. FD/GTI also recommends augmentation of the existing treatment system in order to expedite cleanup. RMSC submitted a plan ("Plan for Modification of Remediation Systems, former Hughes Missile Systems Company Facility", 16 September 1998; copy to DTSC) to the LARWQCB describing proposed system modifications.

In addition to the sampling performed by Raytheon, sampling in the area of the former Building 269 was previously performed by Regent Properties, current owner of the property where the building was formerly located. A copy of their report, titled "Environmental Sampling and Testing Under Floor Slabs and Clarifiers, former Hughes Missile Systems Company", 27 June 1997, was submitted to DTSC on 11 March 1998. The sampling was conducted by Allwest Geosciences in the area beneath the former solvent tank, and in the area of the clarifiers (Pits 1 & 2) at the southeastern corner of the

former building. The Allwest report concluded that "there have been no environmental impacts from VOCs or metals to subsurface soil directly under the concrete floor slabs or adjacent to the clarifiers due to leaks or migration of contaminants through the concrete slabs". Another copy of the Allwest report is enclosed for your convenience.

The assessment in the Building 269/272/282 area, along with the Allwest report, addresses DTSC's concerns expressed in their 5 June 1997 letter regarding the SWMUs and AOCs listed below. Therefore, Raytheon is requesting that DTSC remove the following SWMUs and AOCs from their list:

SWMU No. 1	Building 272
SWMU No. 2	Building 282
SWMU No. 3	Building 269, Pits 1 & 2
AOC No. 13	Tank T-14

With the submittal of the enclosed report, Raytheon has completed several significant investigations at the site. We are anxious to proceed with remaining activities, if any, to satisfy DTSC's concerns and complete site closeout. However, before further plans can be made, we need DTSC's response on two key issues:

1) a revised list of SWMUs and AOCs, which was promised by Phil Chandler at our 17 February meeting. Additional data supporting our request to remove other SWMUs and AOCs from DTSC's list was submitted on 17 February and 8 September.

2) DTSC's final decision regarding post-closure for former Tank T-3. This issue is extremely critical to completion of site close-out. We have thoroughly presented our position regarding the issue on several occasions, and cannot proceed with plans for site close-out until it is resolved.

We would be glad to meet with you to review the recent sampling and assessment activities and our plans for augmenting the remediation system. I will be out of the office until 19 October 1998, but will contact you upon my return to discuss a potential meeting.

Sincerely,

RAYTHEON MISSILE SYSTEMS COMPANY

I. Jean Roberts

I. Jean Roberts, Project Manager
Environmental, Health, & Safety

EXECUTIVE SUMMARY

The former Raytheon Missile Systems Company facility at 8433 Fallbrook Avenue in Canoga Park, California has been the site of environmental assessment work since 1984. A soil and groundwater remediation system has been operating since 1995 to address soil and groundwater containing volatile organic compounds (VOCs) in the northwest part of the property.

The site is currently being redeveloped. Redevelopment activities, specifically building demolition, have created access to obtain soil and groundwater samples from areas which were not completely accessible previously.

This report describes assessment activities and analytical results for an area previously occupied by Building Nos. 269, 272 and 282. These were described as SWMU Nos. 1, 2, 3, and AOC Nos. 5 and 13 in the June, 1997 letter from DTSC. Although this area lies within the area influenced by the currently-operating remediation system, it had been identified as an area of concern by the California Environmental Protection Agency, Department of Toxic Substances Control.

The work performed as part of this assessment included collection and chemical analysis of soil, soil gas, and groundwater samples. The sampling program was designed to determine whether former operations conducted in the subject buildings may have impacted soil and groundwater from releases of metal or VOC constituents.

With respect to concentrations of metals in soil, a total of 36 samples were collected from nine soil borings and analyzed for 14 metals. No samples contained concentrations greater than the Soluble Threshold Limit Concentration for any of the 14 metals. Two metals, silver and hexavalent chromium, were not detected in any of the 36 samples analyzed. Concentrations of other metals detected in certain samples were within ranges considered typical for natural soils in California.

Because significant concentrations of metals were not detected in soil samples, groundwater samples were not analyzed for concentrations of metals.

With respect to VOCs, concentrations of chlorinated hydrocarbons were detected in about half of the soil and soil vapor samples, and four of the five groundwater samples. Although concentrations of VOCs detected in groundwater samples were consistent with adjacent areas (and under influence of the currently-operating remediation system), certain soil samples contained concentrations of VOCs which may warrant further investigation and remedial efforts.

GROUNDWATER RESOURCES CONSULTANTS, INC.

TUCSON, ARIZONA

RESULTS OF RADIOLOGICAL SAMPLING OF MONITOR WELLS

DECEMBER 1991

HUGHES MISSILE SYSTEMS GROUP

CANOGA PARK FACILITY

CANOGA PARK, CALIFORNIA

March 27, 1992
91600M-06

GROUNDWATER RESOURCES CONSULTANTS, INC.

CONSULTING HYDROGEOLOGISTS • ENVIRONMENTAL SPECIALISTS

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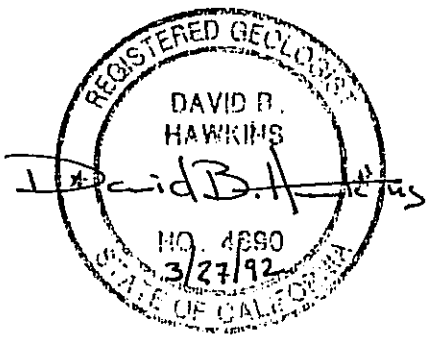
RESULTS OF RADIOLOGICAL SAMPLING OF MONITOR WELLS

DECEMBER 1991

HUGHES MISSILE SYSTEMS GROUP

CANOGA PARK FACILITY

CANOGA PARK, CALIFORNIA



March 27, 1992
91600M-06

RESULTS OF RADIOLOGICAL SAMPLING OF MONITOR WELLS
DECEMBER 1991
HUGHES MISSILE SYSTEMS GROUP
CANOGA PARK FACILITY
CANOGA PARK, CALIFORNIA

CONTENTS

INTRODUCTION 1

ANALYTICAL RESULTS 3

GROSS ALPHA RESULTS 3
URANIUM ISOTOPES 4
RADIUM 226 5
GROSS BETA AND RADIUM-228 5

SUMMARY AND RECOMMENDATIONS 7

REFERENCES 9

TABLES

TABLE	
1	DETECTION LIMITS
2	EPA PROPOSED MAXIMUM CONTAMINANT LEVELS
3	SUMMARY OF ALPHA EMITTERS AND ADJUSTED GROSS ALPHA LEVELS
4	SUMMARY OF URANIUM ISOTOPES
5	CALCULATION OF ACTIVITY/MASS EQUIVALENTS
6	SUMMARY OF BETA EMITTERS

ILLUSTRATION

FIGURE	
1	LOCATION OF MONITOR WELLS

APPENDIX

A	LABORATORY RESULTS

RESULTS OF RADIOLOGICAL SAMPLING OF MONITOR WELLS

DECEMBER 1991

HUGHES MISSILE SYSTEMS GROUP

CANOGA PARK FACILITY

CANOGA PARK, CALIFORNIA

INTRODUCTION

This report presents the results of radiological analyses of groundwater samples collected from monitor wells at the Hughes Missile Systems Group Facility at 8433 Fallbrook Avenue in Canoga Park, California. The groundwater samples were collected from 27 monitor wells on December 10 through 13, 1991. The samples were collected according to the sampling protocol described in the December 1991 workplan (Groundwater Resources Consultants, Inc., 1991a). According to contractual arrangements, the samples were analyzed for Gross Alpha, Gross Beta, isotopic uranium, and radium- 226/radium 228 if Gross Alpha for the sample exceeded five (5) pico curies per liter (pCi/l). Final analytical results were received by this office on March 11, 1992.

The samples were analyzed by IT Analytical Services of Richland Washington, an EPA certified laboratory. The detection limits for the radiological constituents are listed in Table 1. The laboratory results are included as Appendix A.

The proposed EPA Maximum Contaminant Levels (MCLs) for radiological constituents in community and all non-transient, non-community public water systems are summarized in Table 2 (Federal Register, Vol. 56, No. 138, pp. 33050 - 33127, July 18, 1991).

ANALYTICAL RESULTS

GROSS ALPHA RESULTS

Gross Alpha screening is considered to be an indicator of naturally occurring radiological constituents (Federal Register, Vol. 56, No. 138, pp. 33050 - 33127, July 18, 1991). The primary constituents that make up the naturally occurring Alpha emitters are uranium, radium-226, and radon-222. The groundwater samples from the monitor wells were analyzed for both uranium isotopes and radium-226. No samples were analyzed for the volatile gas radon-222 because of the impracticality of sample collection and analysis and because radon is a naturally occurring constituent that could be of interest from a regional standpoint but would not be specific to the Facility and would not have resulted from industrial activities at the Facility.

The proposed EPA Adjusted Gross Alpha MCL of 15 pico-Curies per liter (pCi/l) involves the subtraction of the activity of uranium isotopes, radium-226, and radon-222. The EPA has developed separate MCLs for the common alpha-contributing isotopes (Table 2). Even without the subtraction of radon-222, none of the samples exceeded the Adjusted Gross Alpha MCL of 15 pCi/l (Table 3). The most elevated observed value for adjusted Gross Alpha was 3.8 pCi/l, in the sample from CM-6D.

URANIUM ISOTOPES

The groundwater samples were analyzed for individual uranium isotopes, uranium-234, uranium-235, and uranium-238. The results of the uranium isotope analyses are summarized in **Table 4** in both mass and activity units. Laboratory results were given in terms of activity units. The equation used for the conversion to mass units is illustrated in **Table 5.**

Samples from three wells, CM-8D, CM-10, and CM-18, exceeded the EPA activity level MCL for uranium (30 pCi/l). The EPA MCLs were developed for community water supplies. Community water supplies would commonly have total dissolved solids concentrations (TDS) concentrations of 500 milligrams per liter (mg/l) or less. Elevated uranium levels are attributed to the fact that groundwater at the Facility has elevated natural background TDS ranging up to 2,600 mg/l resulting in proportional elevation in uranium salts concentration.

The EPA defines naturally occurring uranium as (Federal Register, Vol. 56, No. 138, pp. 33050 - 33127, July 18, 1991):

> ...uranium with combined uranium-234 plus uranium-235 plus uranium-238 which has a varying isotopic composition but typically is 0.006% uranium-234, 0.7% uranium-235, and 99.27% uranium-238.

For the groundwater samples in which all three isotopes of uranium were detected above the laboratory detection limit, the associated isotopic mass

percentages fall within the range expected for naturally occurring uranium (Table 4).

This data does not indicate any enrichment of uranium-235 which could be associated with man-made fuels and there would be no reason on the basis of these data to suspect any non-natural alpha emitters.

RADIUM 226

Radium-226 is a naturally occurring alpha emitter. The proposed EPA MCL for radium-226 is 20 pCi/l. The results of the radium-226 analyses are summarized in Table 3. Samples were analyzed for Radium-226 if Gross Alpha exceeded 5 pCi/l. All results were reported to be less than the MCL. The results ranged from less than the detection limit for most samples to 11.3 pCi/l for the sample from MW-21D.

GROSS BETA AND RADIUM-228

The Gross Beta emitter analysis is generally considered to be an indicator of the presence of man-made radionuclides, although there is at least one common naturally-occurring beta emitter, radium-228. Samples were analyzed for radium-228 if Gross Alpha exceeded 5 pCi/l. The Gross Beta and radium-228 analyses are summarized in Table 6. The EPA compliance screening level for Gross Beta is 50 pCi/l and the proposed MCL for radium-228 is 20 pCi/l. All Beta results were below the compliance screening level and ranged from less than the detection limit to 33.7 pCi/l in a sample from CM-

18. All radium-228 results were below the MCL and ranged from below the detection limit to 1.84 pCi/l in a sample from MW-16.

These results do not give any indication of the presence of man-made radionuclides.

SUMMARY AND RECOMMENDATIONS

These analytical results of groundwater samples from monitor wells at the Facility indicate the following:

1. All Adjusted Gross Alpha results were below the proposed EPA MCL of 15 pCi/l.

2. Several samples had uranium concentrations that exceeded the proposed MCLs for uranium. This is attributed to the fact that the groundwater at the Facility commonly has natural background TDS concentrations of from three to five times the Secondary Drinking water standard of 500 mg/l resulting in proportional increase in uranium salts concentrations. An analysis of the isotopic mass percentages of the samples with elevated uranium levels indicates that the percentages conform to the EPA definition of naturally occurring uranium.

3. All radium-226 results were below the proposed EPA MCl of 20 pCi/l.

4. All Gross Beta results were below the compliance screening level of 50 pCi/l. This would indicate that there are no man-made radionuclides present.

5. All radium-228 results were below the proposed EPA MCL of 20 pCi/l.

Because no man-made radionuclides are indicated by the data from this investigation, no additional radionuclide sampling is warranted.

REFERENCES

Federal Register, 1991. Notice of proposed rule making, ***National Primary Drinking Water Regulations: Radionuclides***, Vol. 56, No. 138, pp. 33050-33127, July 18, 1991.

Groundwater Resources Consultants, Inc., 1991. ***Work Plan for Investigation of Radioactivity in Groundwater at the Hughes Aircraft Company, Canoga Park Facility, Canoga Park, California.***

Friedlander, G., J. W. Kennedy, and J. M. Miller, 1981. ***Nuclear and Radiochemistry***, 3rd Edition, John Wiley and Sons: New York.

TABLE 2

EPA PROPOSED MAXIMUM CONTAMINANT LEVELS[1/]

	MCL	REMARKS
1. Adjusted gross alpha emiters	15 pCi/l	Gross alpha minus emission of uranium, radium-226, and radon-222
2. Beta and photon emitters[2/]	4 mrem ede/yr	Beta and photon emitters minus radium-228. Mrem ede/yr refers to the dose committed over a period of 50 years to reference man with an annual intake of two liters of drinking water per day.
3. Uranium	20 µg/l (30 pCi/l)	Mass concentration (activity level); Includes uranium-234, uranium-235, uranium-238.
4. Radium-226	20 pCi/l	
5. Radium-228	20 pCi/l	
6. Radon-222	300 pCi/l	

(µg/l) = micrograms per liter
(pCi/l) = picocuries per liter

1/ Proposed regulations published in Federal Register, Vol. 56, No. 138, July 18, 1991. The proposed regulations would apply to all community and non-transient, non-community public water systems.

2/ The screening level for compliance with the MCL for Gross Beta level is 50 pCi/l.

TABLE 3 (continued)
SUMMARY OF ALPHA EMITTERS
AND ADJUSTED GROSS ALPHA LEVELS

COLUMN NO.	1	2	3	4	5	6	ADJUSTED[2] GROSS ALPHA (pCi/l)
WELL IDENTIFIER	GROSS ALPHA (pCi/l)	URANIUM 234 (pCi/l)	URANIUM 235 (pCi/l)	URANIUM 238 (pCi/l)	RADIUM 226 (pCi/l)	SUM OF 2, 3, 4, & 5[1] (pCi/l)	
M-1	7.7	5.1	0.2	5.4	1.2	11.9	-4.2
MW-15	<4.0	<0.1	<0.1	<0.1	---	---	<4.0
MW-16	9.0	1.5	<0.1	1.1	4.8	7.4	1.6
MW-17	12.4	9.5	0.4	9.6	<0.5	19.5	-7.1
MW-19S	16.0	10.3	0.3	8.6	<0.5	19.2	-3.2
MW-19D	<4.0	0.4	<0.1	0.2	---	0.6	<4.0
MW-20S	<4.0[3]	<0.1	<0.1	<0.1	---	---	<4.0
MW-20D	<4.0	0.2	<0.1	0.2	---	0.4	<4.0
MW-21S	7.3	7.3	0.2	7.0	<0.5	14.5	-7.2
MW-21D	7.4	0.3	<0.1	0.3	11.3	11.9	-4.5
MW-22S	2.3	1.7	<0.1	1.6	---	3.3	-1.0
MW-22D	4.5	3.0	0.1	2.8	---	5.9	-1.4
MW-23	5.3	5.7	0.2	5.3	<0.5	11.2	-5.9
CM-4D	<4.0	5.1	0.2	4.8	---	10.1	<4.0
CM-6D	4.5	0.4	<0.1	0.3	---	0.7	3.8
CM-7	<4.0	0.5	<0.1	0.4	---	0.9	<4.0
CM-8D	50.1	25.1	1.0	23.7	0.9	50.7	-0.6
CM-9D	NA	NA	NA	NA	NA	---	---
CM-10	48.9	25.8	1.0	26.5	<0.5	53.3	-4.4
CM-11	<4.0	3.5	0.1	3.3	---	6.9	<4.0
CM-12	25.7	13.6	0.7	12.7	<0.5	27.0	-1.3
CM-13	11.5	4.4	0.2	4.0	1.5	10.1	1.4
CM-14	6.3	2.4	<0.1	2.0	<0.5	4.4	1.9
CM-15	3.7	2.5	<0.1	1.4	---	3.9	-0.2
CM-16	1.7	3.9	<0.1	2.3	---	6.2	-4.5
CM-17	13.0	13.4	0.4	12.6	<0.5	26.4	-13.4
CM-18	59.2	46.5	2.0	43.9	1.0	92.4	-33.2

TABLE 3 (continued)
SUMMARY OF ALPHA EMITTERS
AND ADJUSTED GROSS ALPHA LEVELS

COLUMN NO.	1	2	3	4	5	6	ADJUSTED[2/] GROSS ALPHA (pCi/l)
WELL IDENTIFIER	GROSS ALPHA (pCi/l)	URANIUM 234 (pCi/l)	URANIUM 235 (pCi/l)	URANIUM 238 (pCi/l)	RADIUM 226 (pCi/l)	SUM OF 2, 3, 4, & 5[1/] (pCi/l)	
CM-19	5.2	5.8	0.1	4.3	<0.5	10.2	-5.0

NOTES: [1/] Column 5 not included if Radium-226 not analyzed. Radium-226 not analyzed if gross alpha did not exceed 5 pCi/l (Col. 5 = ---).

[2/] Adjusted gross alpha = Col. 1 - Col. 6. There were no analyses for Radon 222.

[3/] Background count was higher than sample count.

NA = Not accessible, not sampled

TABLE 4 (continued)
SUMMARY OF URANIUM ISOTOPES

WELL ID	U-234		U-235		U-238		TOTAL		MASS PERCENT		
	ACTIVITY pCi/l	MASS µg/l	ACTIVITY pCi/l	MASS µg/l	ACTIVITY pCi/l	MASS µg/l	ACTIVITY pCi/l	MASS µg/l	U-234 %	U-235 %	U-238 %
M-1	5.09	0.00081	0.23	0.106	5.40	16.04	10.72	16.145	0.005	0.660	99.335
MW-15	<0.10	---	<0.10	---	<0.10	---	---	---	---	---	---
MW-16	1.46	0.00023	<0.10	---	1.14	3.39	2.60	3.386	---	---	---
MW-17	9.51	0.00152	0.36	0.167	9.58	28.45	19.45	28.621	0.005	0.582	99.412
MW-19S	10.30	0.00165	0.30	0.139	8.63	25.63	19.23	25.772	0.006	0.539	99.455
MW-19D	0.39	0.00006	<0.10	---	0.23	0.68	0.62	0.683	---	---	---
MW-20S	<0.10	---	<0.10	---	<0.10	---	---	---	---	---	---
MW-20D	0.22	0.00004	<0.10	---	0.15	0.45	0.37	0.446	---	---	---
MW-21S	7.34	0.00117	0.24	0.111	6.98	20.73	14.56	20.843	0.006	0.533	99.461
MW-21D	0.33	0.00005	<0.10	---	0.30	0.89	0.63	0.891	---	---	---
MW-22S	1.71	0.00027	<0.10	---	1.63	4.84	3.34	4.841	---	---	---
MW-22D	3.00	0.00048	0.10	0.046	2.80	8.32	5.90	8.363	0.006	0.554	99.441
MW-23	5.67	0.00091	0.22	0.102	5.33	15.83	11.22	15.933	0.006	0.639	99.355
CM-4D	5.05	0.00081	0.15	0.069	4.79	14.23	9.99	14.297	0.006	0.486	99.509
CM-6D	0.41	0.00007	<0.10	---	0.33	0.98	0.74	0.980	---	---	---
CM-7	0.46	0.00007	<0.10	---	0.41	1.22	0.87	1.218	---	---	---
CM-8D	25.10	0.00402	0.99	0.458	23.70	70.39	49.79	70.851	0.006	0.647	99.347
CM-9D	NA	---	NA	---	NA	---	---	---	---	---	---
CM-10	25.80	0.00413	1.03	0.477	26.50	78.71	53.33	79.186	0.005	0.602	99.393

TABLE 4 (continued)
SUMMARY OF URANIUM ISOTOPES

WELL ID	U-234		U-235		U-238		TOTAL		MASS PERCENT		
	ACTIVITY pCi/l	MASS µg/l	ACTIVITY pCi/l	MASS µg/l	ACTIVITY pCi/l	MASS µg/l	ACTIVITY pCi/l	MASS µg/l	U-234 %	U-235 %	U-238 %
CM-11	3.54	0.00057	0.13	0.060	3.27	9.71	6.94	9.773	0.006	0.616	99.378
CM-12	13.60	0.00218	0.68	0.315	12.70	37.72	26.98	38.036	0.006	0.828	99.167
CM-13	4.43	0.00071	0.18	0.083	3.97	11.79	8.58	11.875	0.006	0.702	99.292
CM-14	2.42	0.00039	<0.10	---	1.97	5.85	4.39	5.851	---	---	---
CM-15	2.52	0.00040	<0.10	---	1.39	4.13	3.91	4.129	---	---	---
CM-16	3.86	0.00062	<0.10	---	2.34	6.95	6.20	6.950	---	---	---
CM-17	13.40	0.00214	0.43	0.199	12.60	37.42	26.43	37.623	0.006	0.529	99.465
CM-18	46.50	0.00744	2.03	0.940	43.90	130.38	92.43	131.330	0.006	0.716	99.279
CM-19	5.83	0.00093	0.13	0.060	4.31	12.80	10.27	12.862	0.007	0.468	99.525

NA = Not accessible, not sampled
--- = Mass concentration and mass percentages not calculated for samples with isotopes below detection limits.

TABLE 6
(continued)
SUMMARY OF BETA EMITTERS

WELL IDENTIFIER	GROSS BETA pCi/l[1/]	RADIUM 228 pCi/l[2/]
M-1	6.23	<1.0
MW-15	<4.00	---
MW-16	8.53	1.84
MW-17	8.46	<1.0
MW-19S	10.9	<1.0
MW-19D	10.7	---
MW-20S	4.58	---
MW-20D	4.93	---
MW-21S	5.35	<1.0
MW-21D	12.2	1.62
MW-22S	<4.00	---
MW-22D	4.96	---
MW-23	8.08	<1.0
CM-4D	5.36	---
CM-6D	5.20	---
CM-7	10.6	---
CM-8D	12.9	<1.0
CM-9D	NA	NA
CM-10	24.6	<1.0
CM-11	7.08	---
CM-12	11.2	<1.0
CM-13	<4.00	<1.0
CM-14	<4.00	<1.0
CM-15	8.49	---
CM-16	12.6	---
CM-17	13.1	<1.0
CM-18	33.7	<1.0

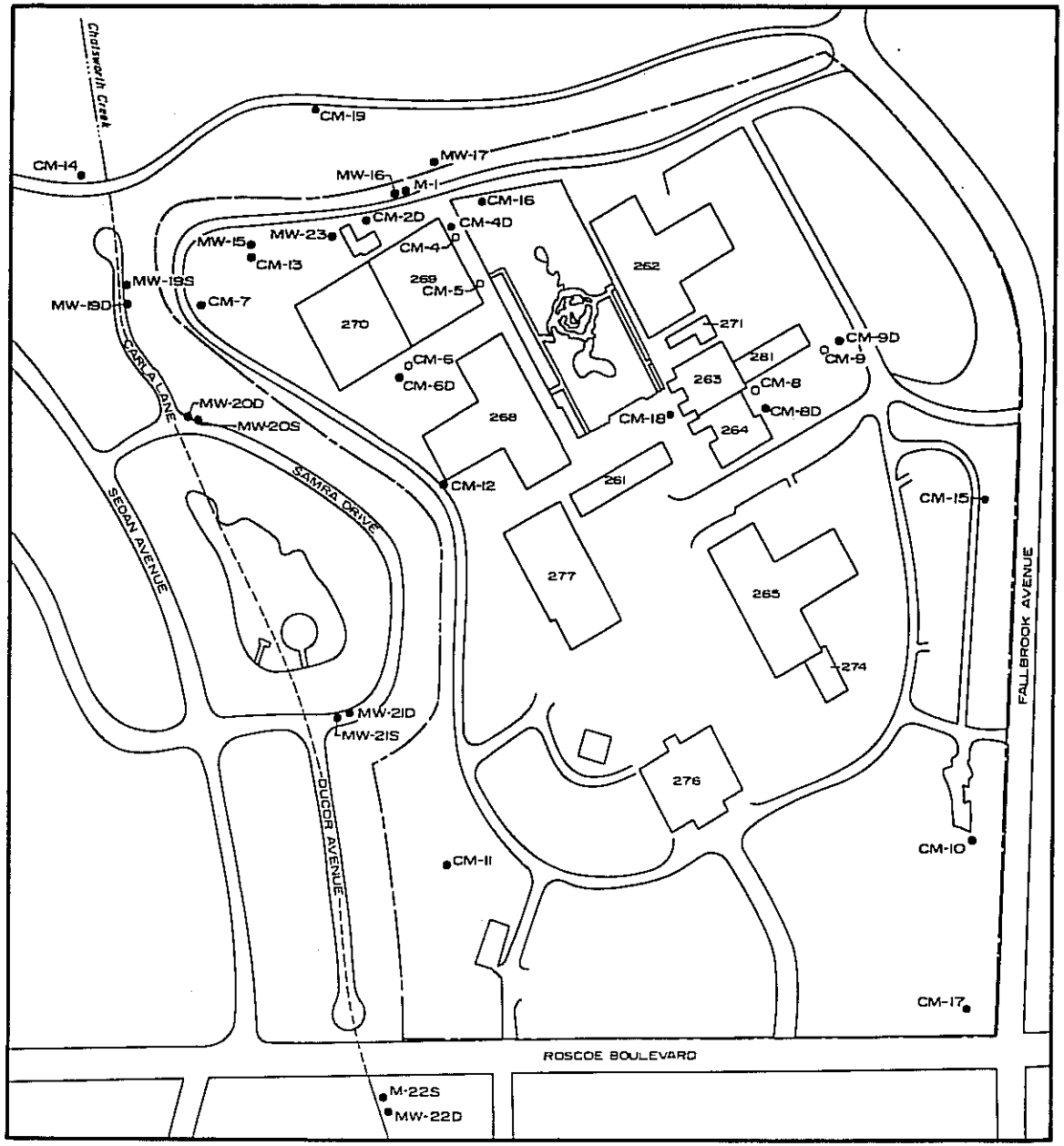
TABLE 6
(continued)
SUMMARY OF BETA EMITTERS

WELL IDENTIFIER	GROSS BETA pCi/l [1/]	RADIUM 228 pCi/l [2/]
CM-19	7.42	<1.0

1/ Gross Beta MCL compliance level is 50 pCi/l

2/ The EPA proposed MCL for Radium-228 is 20 pCi/l

--- The Radium 228 analysis is not performed if Gross Alpha did not exceed 5 pCi/l



EXPLANATION

- FACILITY BOUNDARY
- ● MONITOR WELL
- o DRY MONITOR WELL

N

0 300 600

SCALE IN FT.

HUGHES AIRCRAFT COMPANY
MISSLE SYSTEMS GROUP
CANOGA PARK, CALIFORNIA

LOCATIONS OF MONITOR WELLS

GROUNDWATER RESOURCES CONSULTANTS, INC.
CONSULTANTS IN HYDROGEOLOGY
TUCSON, ARIZONA 91600M-04 FIGURE 1

HUGHES MISSILE SYSTEM COMPANY
CANOGA PARK

SUMMARY DATA

FEBRUARY 6, 1998

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
CM-10	Mar-90	Gross Alpha	236	62.1	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-11	Mar-90	Gross Alpha	6.12	6.63	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-12	Mar-90	Gross Alpha	29.7	13.2	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-13	Mar-90	Gross Alpha	56.50	15.5	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-14	Mar-90	Gross Alpha	13	8.64	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-5	Mar-90	Gross Alpha	3.35	2.7	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-7	Mar-90	Gross Alpha	11	9.31	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
M-1	Mar-90	Gross Alpha	11.8	5.68	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-10	Mar-90	Gross Beta	59.6	17	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-11	Mar-90	Gross Beta	7.13	4.22	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-12	Mar-90	Gross Beta	14.6	5.13	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-13	Mar-90	Gross Beta	18.60	6.18	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-14	Mar-90	Gross Beta	6.92	4.44	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-5	Mar-90	Gross Beta	3.51	2.41	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-7	Mar-90	Gross Beta	3.53	4.63	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
M-1	Mar-90	Gross Beta	5.56	3.09	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-10	Mar-90	Radium 226	1.03	0.239	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-11	Mar-90	Radium 226	0.984	0.234	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-12	Mar-90	Radium 226	0.9	0.228	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-13	Mar-90	Radium 226	7.71	1.37	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-14	Mar-90	Radium 226	1.1	0.25	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-5	Mar-90	Radium 226	0.514	0.143	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-7	Mar-90	Radium 226	0.0264	0.0775	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
M-1	Mar-90	Radium 226	1.14	2.54	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-10	Mar-90	Total Uranium	176.44	49.69	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-11	Mar-90	Total Uranium	8.11	2.38	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-12	Mar-90	Total Uranium	25.1	7.23	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-13	Mar-90	Total Uranium	14.94	5.08	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-14	Mar-90	Total Uranium	4.62	1.43	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-5	Mar-90	Total Uranium	5.15	1.54	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-7	Mar-90	Total Uranium	3.61	1.84	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
M-1	Mar-90	Total Uranium	10.75	3.08	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-10	Apr-90	Gross Alpha	73.7	27.3	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-10	Apr-90	Gross Beta	14.3	3.59	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-10	Apr-90	Radium 226	NA	NA	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-10	Apr-90	Total Uranium	41.91	12.17	pCi/l	groundwater	McLaren Hart, 7/31/90	USTC
CM-10	Jun-90	Gross Alpha	52.5	22.7	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-11	Jun-90	Gross Alpha	5.93	6.38	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-12	Jun-90	Gross Alpha	24.0	12.5	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-13	Jun-90	Gross Alpha	6.90	4.89	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-14	Jun-90	Gross Alpha	12.4	8.01	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-5	Jun-90	Gross Alpha	–	–	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-7	Jun-90	Gross Alpha	1.05	5.32	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
M-1	Jun-90	Gross Alpha	16.9	7.23	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-10	Jun-90	Gross Beta	11.4	5.82	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-11	Jun-90	Gross Beta	2.38	3.68	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-12	Jun-90	Gross Beta	4.7	3.91	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-13	Jun-90	Gross Beta	1.51	1.74	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-14	Jun-90	Gross Beta	3.26	3.34	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-5	Jun-90	Gross Beta	--	--	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-7	Jun-90	Gross Beta	2.04	3.11	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
M-1	Jun-90	Gross Beta	5.74	2.56	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-10	Jun-90	Radium 226	0.203	0.103	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-11	Jun-90	Radium 226	0.0838	0.084	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-12	Jun-90	Radium 226	0.7	0.181	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-13	Jun-90	Radium 226	1.18	0.263	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-14	Jun-90	Radium 226	0.0486	0.0743	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-5	Jun-90	Radium 226	--	--	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-7	Jun-90	Radium 226	0.158	0.091	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
M-1	Jun-90	Radium 226	1.06	0.242	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-10	Jun-90	Radium 228	--	--	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-11	Jun-90	Radium 228	--	--	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-12	Jun-90	Radium 228	--	--	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-13	Jun-90	Radium 228	0.790	0.474	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-14	Jun-90	Radium 228	--	--	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-5	Jun-90	Radium 228	--	--	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-7	Jun-90	Radium 228	--	--	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
M-1	Jun-90	Radium 228	--	--	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-10	Jun-90	Total Uranium	40.4	11.56	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-11	Jun-90	Total Uranium	6.17	1.83	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-12	Jun-90	Total Uranium	19.5	5.54	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-13	Jun-90	Total Uranium	6.96	2.04	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-14	Jun-90	Total Uranium	4.52	1.40	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-5	Jun-90	Total Uranium	--	--	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-7	Jun-90	Total Uranium	5.00	1.52	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
M-1	Jun-90	Total Uranium	8.72	2.49	pCi/l	groundwater	McLaren Hart, 11/16/90	USTC
CM-10	Sep-90	Gross Alpha	54	42	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-11	Sep-90	Gross Alpha	3	18	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-12	Sep-90	Gross Alpha	27	21	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-13	Sep-90	Gross Alpha	10	15	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-14	Sep-90	Gross Alpha	24	29	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-2D	Sep-90	Gross Alpha	NA		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-4D	Sep-90	Gross Alpha	7	12	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-5	Sep-90	Gross Alpha	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-6D	Sep-90	Gross Alpha	5	19	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-7	Sep-90	Gross Alpha	7	19	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
CM-8D	Sep-90	Gross Alpha	17	22	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-9D	Sep-90	Gross Alpha	28	17	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
M-1	Sep-90	Gross Alpha	16	16	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-15	Sep-90	Gross Alpha	-7	23	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-16	Sep-90	Gross Alpha	5	30	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-17	Sep-90	Gross Alpha	15	9	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19D	Sep-90	Gross Alpha	-6	14	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19S	Sep-90	Gross Alpha	NA		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20D	Sep-90	Gross Alpha	0	24	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20S	Sep-90	Gross Alpha	-10	18	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21D	Sep-90	Gross Alpha	2	20	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21S	Sep-90	Gross Alpha	41	24	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22D	Sep-90	Gross Alpha	8	7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22S	Sep-90	Gross Alpha	3	5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-10	Sep-90	Gross Beta	36	16	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-11	Sep-90	Gross Beta	12	13	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-12	Sep-90	Gross Beta	9	12	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-13	Sep-90	Gross Beta	7	6	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-14	Sep-90	Gross Beta	-2	10	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-2D	Sep-90	Gross Beta	NA		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-4D	Sep-90	Gross Beta	5	9	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-5	Sep-90	Gross Beta	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-6D	Sep-90	Gross Beta	16	14	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-7	Sep-90	Gross Beta	-3	13	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-8D	Sep-90	Gross Beta	15	16	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-9D	Sep-90	Gross Beta	14	10	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
M-1	Sep-90	Gross Beta	11	6	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-15	Sep-90	Gross Beta	6	19	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-16	Sep-90	Gross Beta	15	15	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-17	Sep-90	Gross Beta	12	5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19D	Sep-90	Gross Beta	17	12	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19S	Sep-90	Gross Beta	NA		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20D	Sep-90	Gross Beta	25	18	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20S	Sep-90	Gross Beta	11	16	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21D	Sep-90	Gross Beta	13	14	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21S	Sep-90	Gross Beta	18	13	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22D	Sep-90	Gross Beta	5	5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22S	Sep-90	Gross Beta	1	3	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-10	Sep-90	Radium 226	0.3	0.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-11	Sep-90	Radium 226	0.1	0.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-12	Sep-90	Radium 226	0.4	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-13	Sep-90	Radium 226	-0.1	0.3	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-14	Sep-90	Radium 226	0.5	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
CM-2D	Sep-90	Radium 226	NA		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-4D	Sep-90	Radium 226	0.3	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-5	Sep-90	Radium 226	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-6D	Sep-90	Radium 226	1	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-7	Sep-90	Radium 226	0.2	0.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-8D	Sep-90	Radium 226	1.3	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-9D	Sep-90	Radium 226	0.3	0.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
M-1	Sep-90	Radium 226	1.5	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-15	Sep-90	Radium 226	2.6	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-16	Sep-90	Radium 226	2.2	0.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-17	Sep-90	Radium 226	0.4	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19D	Sep-90	Radium 226	0.6	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19S	Sep-90	Radium 226	NA		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20D	Sep-90	Radium 226	0.4	0.6	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20S	Sep-90	Radium 226	0.4	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21D	Sep-90	Radium 226	0.6	0.6	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21S	Sep-90	Radium 226	0.2	0.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22D	Sep-90	Radium 226	0.2	0.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22S	Sep-90	Radium 226	0.2	0.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-10	Sep-90	Total Uranium	60.2	6	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-11	Sep-90	Total Uranium	9.5	0.95	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-12	Sep-90	Total Uranium	23	2.3	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-13	Sep-90	Total Uranium	9.5	0.95	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-14	Sep-90	Total Uranium	4.1	0.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-2D	Sep-90	Total Uranium	NA		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-4D	Sep-90	Total Uranium	10.2	1	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-5	Sep-90	Total Uranium	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-6D	Sep-90	Total Uranium	2	0.2	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-7	Sep-90	Total Uranium	15.6	1.6	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-8D	Sep-90	Total Uranium	36.6	3.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-9D	Sep-90	Total Uranium	19.6	2	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
M-1	Sep-90	Total Uranium	12.2	1.2	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-15	Sep-90	Total Uranium	9.5	0.95	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-16	Sep-90	Total Uranium	3.4	0.34	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-17	Sep-90	Total Uranium	19	1.9	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19D	Sep-90	Total Uranium	<0.7		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19S	Sep-90	Total Uranium	NA		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20D	Sep-90	Total Uranium	<0.7		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20S	Sep-90	Total Uranium	<0.7		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21D	Sep-90	Total Uranium	<0.7		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21S	Sep-90	Total Uranium	30.5	3	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22D	Sep-90	Total Uranium	6.8	0.68	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22S	Sep-90	Total Uranium	3.4	0.34	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
CM-10	Dec-90	Gross Alpha	21.00	22	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-11	Dec-90	Gross Alpha	-2	12	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-12	Dec-90	Gross Alpha	35	18	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-13	Dec-90	Gross Alpha	7.0	8	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-14	Dec-90	Gross Alpha	14	14	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-2D	Dec-90	Gross Alpha	NA	NA	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-4D	Dec-90	Gross Alpha	7	9	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-6D	Dec-90	Gross Alpha	10	16	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-7	Dec-90	Gross Alpha	13	20	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-8D	Dec-90	Gross Alpha	36	24	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-9D	Dec-90	Gross Alpha	23.0	17	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
M-1	Dec-90	Gross Alpha	11	10	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-15	Dec-90	Gross Alpha	15.00	8	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-16	Dec-90	Gross Alpha	5	15	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-17	Dec-90	Gross Alpha	17	9	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-19D	Dec-90	Gross Alpha	3	12	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-19S	Dec-90	Gross Alpha	12	22	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-20D	Dec-90	Gross Alpha	4	20	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-20S	Dec-90	Gross Alpha	4	19	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-21D	Dec-90	Gross Alpha	6	19	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-21S	Dec-90	Gross Alpha	4	16	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-22D	Dec-90	Gross Alpha	2	5	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-22S	Dec-90	Gross Alpha	3	4	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-10	Dec-90	Gross Beta	9.00	13	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-11	Dec-90	Gross Beta	10	10	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-12	Dec-90	Gross Beta	22	12	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-13	Dec-90	Gross Beta	13.0	6	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-14	Dec-90	Gross Beta	6	10	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-2D	Dec-90	Gross Beta	NA	NA	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-4D	Dec-90	Gross Beta	5	6	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-6D	Dec-90	Gross Beta	20	13	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-7	Dec-90	Gross Beta	15	14	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-8D	Dec-90	Gross Beta	25	15	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-9D	Dec-90	Gross Beta	13.0	11	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
M-1	Dec-90	Gross Beta	7	6	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-15	Dec-90	Gross Beta	2.00	4	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-16	Dec-90	Gross Beta	7	10	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-17	Dec-90	Gross Beta	7	5	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-19D	Dec-90	Gross Beta	8	10	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-19S	Dec-90	Gross Beta	13	16	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-20D	Dec-90	Gross Beta	16	15	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-20S	Dec-90	Gross Beta	5	14	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-21D	Dec-90	Gross Beta	11	14	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
MW-21S	Dec-90	Gross Beta	7	12	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-22D	Dec-90	Gross Beta	13	5	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-22S	Dec-90	Gross Beta	3	3	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-10	Dec-90	Radium 226	0.20	0.4	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-11	Dec-90	Radium 226	0.1	0.2	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-12	Dec-90	Radium 226	0.7	0.3	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-13	Dec-90	Radium 226	0.9	0.3	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-14	Dec-90	Radium 226	-0.1	0.2	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-2D	Dec-90	Radium 226	NA	NA	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-4D	Dec-90	Radium 226	0	0.3	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-6D	Dec-90	Radium 226	0.7	0.3	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-7	Dec-90	Radium 226	0.5	0.4	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-8D	Dec-90	Radium 226	1.1	0.4	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-9D	Dec-90	Radium 226	0.4	0.2	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
M-1	Dec-90	Radium 226	0.3	0.3	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-15	Dec-90	Radium 226	2.10	0.4	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-16	Dec-90	Radium 226	3.1	0.5	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-17	Dec-90	Radium 226	0.5	0.3	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-19D	Dec-90	Radium 226	0.0	0.2	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-19S	Dec-90	Radium 226	2.4	0.4	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-20D	Dec-90	Radium 226	2.1	0.5	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-20S	Dec-90	Radium 226	0.1	0.4	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-21D	Dec-90	Radium 226	1.5	0.4	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-21S	Dec-90	Radium 226	-0.2	0.3	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-22D	Dec-90	Radium 226	-0.2	0.2	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-22S	Dec-90	Radium 226	-0.1	0.2	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-10	Dec-90	Total Uranium	49.40	4.9	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-11	Dec-90	Total Uranium	10.2	1	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-12	Dec-90	Total Uranium	29.1	2.9	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-13	Dec-90	Total Uranium	8.8	0.9	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-14	Dec-90	Total Uranium	15.6	1.6	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-2D	Dec-90	Total Uranium	NA	NA	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-4D	Dec-90	Total Uranium	10.8	1.1	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-6D	Dec-90	Total Uranium	5.4	0.5	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-7	Dec-90	Total Uranium	37.2	3.7	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-8D	Dec-90	Total Uranium	44.7	4.5	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
CM-9D	Dec-90	Total Uranium	34.5	3.5	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
M-1	Dec-90	Total Uranium	16.2	1.6	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-15	Dec-90	Total Uranium	16.90	1.7	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-16	Dec-90	Total Uranium	0.7	0.1	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-17	Dec-90	Total Uranium	<.7		pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-19D	Dec-90	Total Uranium	5.4	0.5	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-19S	Dec-90	Total Uranium	19	1.9	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
MW-20D	Dec-90	Total Uranium	<.7		pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-20S	Dec-90	Total Uranium	<.7		pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-21D	Dec-90	Total Uranium	<.7		pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-21S	Dec-90	Total Uranium	21.6	2.2	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-22D	Dec-90	Total Uranium	6.8	0.7	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-22S	Dec-90	Total Uranium	4.1	0.4	pCi/l	groundwater	McLaren Hart, 4/29/91	Accu-Labs Research, Inc.
MW-17	Jan-91	Gross Alpha	18	8	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-19D	Jan-91	Gross Alpha	12	14	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-19S	Jan-91	Gross Alpha	13	19	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20D	Jan-91	Gross Alpha	9	19	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20S	Jan-91	Gross Alpha	9	18	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21D	Jan-91	Gross Alpha	10	15	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21S	Jan-91	Gross Alpha	18	16	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22D	Jan-91	Gross Alpha	5	6	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22S	Jan-91	Gross Alpha	6	4	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-17	Jan-91	Gross Beta	12	5	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-19D	Jan-91	Gross Beta	9	11	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-19S	Jan-91	Gross Beta	3	14	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20D	Jan-91	Gross Beta	26	16	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20S	Jan-91	Gross Beta	7	14	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21D	Jan-91	Gross Beta	11	11	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21S	Jan-91	Gross Beta	3	11	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22D	Jan-91	Gross Beta	2	4	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22S	Jan-91	Gross Beta	0	3	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-17	Jan-91	Radium 226	1.0	0.5	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-19D	Jan-91	Radium 226	0.9	0.5	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-19S	Jan-91	Radium 226	0.2	0.4	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20D	Jan-91	Radium 226	8.5	0.8	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20S	Jan-91	Radium 226	1.0	0.5	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21D	Jan-91	Radium 226	3.4	0.6	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21S	Jan-91	Radium 226	0.1	0.4	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22D	Jan-91	Radium 226	0.3	0.4	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22S	Jan-91	Radium 226	0.4	0.4	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-17	Jan-91	Total Uranium	1.7	0.2	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-19D	Jan-91	Total Uranium	13.5	1.4	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-19S	Jan-91	Total Uranium	12.8	1.3	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20D	Jan-91	Total Uranium	<.7		pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20S	Jan-91	Total Uranium	2.7	0.3	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21D	Jan-91	Total Uranium	0.7		pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21S	Jan-91	Total Uranium	24.4	2.4	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22D	Jan-91	Total Uranium	8.1	0.8	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22S	Jan-91	Total Uranium	2.7	0.3	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-17	Feb-91	Gross Alpha	9	6	pCi/l	groundwater	McLaren Hart, 4/29/91	

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
MW-19D	Feb-91	Gross Alpha	-6	9	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-19S	Feb-91	Gross Alpha	12	25	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20D	Feb-91	Gross Alpha	28	20	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20S	Feb-91	Gross Alpha	-8	17	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21D	Feb-91	Gross Alpha	-2	21	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21S	Feb-91	Gross Alpha	25	16	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22D	Feb-91	Gross Alpha	9	6	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22S	Feb-91	Gross Alpha	8	5	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-17	Feb-91	Gross Beta	0	4	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-19D	Feb-91	Gross Beta	13	10	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-19S	Feb-91	Gross Beta	-3	21	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20D	Feb-91	Gross Beta	14	14	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20S	Feb-91	Gross Beta	0	17	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21D	Feb-91	Gross Beta	-2	20	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21S	Feb-91	Gross Beta	0	11	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22D	Feb-91	Gross Beta	4	4	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22S	Feb-91	Gross Beta	14	4	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-17	Feb-91	Radium 226	0.6	0.5	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-19D	Feb-91	Radium 226	0.6	0.5	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-19S	Feb-91	Radium 226	0.0	0.4	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20D	Feb-91	Radium 226	8.4	0.8	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20S	Feb-91	Radium 226	1.7	0.6	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21D	Feb-91	Radium 226	1.1	0.6	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21S	Feb-91	Radium 226	0.4	0.5	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22D	Feb-91	Radium 226	0.4	0.5	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22S	Feb-91	Radium 226	0.5	0.5	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-17	Feb-91	Total Uranium	16.2	1.6	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-19D	Feb-91	Total Uranium	0.7	0.07	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-19S	Feb-91	Total Uranium	19.0	1.9	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20D	Feb-91	Total Uranium	4.7	0.5	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-20S	Feb-91	Total Uranium	1.4	0.1	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21D	Feb-91	Total Uranium	<.7		pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-21S	Feb-91	Total Uranium	23.0	2.3	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22D	Feb-91	Total Uranium	3.4	0.3	pCi/l	groundwater	McLaren Hart, 4/29/91	
MW-22S	Feb-91	Total Uranium	8.1	0.8	pCi/l	groundwater	McLaren Hart, 4/29/91	
CM-10	Mar-91	Gross Alpha	46	25	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-11	Mar-91	Gross Alpha	3	8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-12	Mar-91	Gross Alpha	37	19	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-13	Mar-91	Gross Alpha	12	8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-14	Mar-91	Gross Alpha	1	9	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-2D	Mar-91	Gross Alpha	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-4D	Mar-91	Gross Alpha	8	7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-5	Mar-91	Gross Alpha	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
CM-6D	Mar-91	Gross Alpha	9	16	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-7	Mar-91	Gross Alpha	10	14	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-8D	Mar-91	Gross Alpha	56	25	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-9D	Mar-91	Gross Alpha	42	19	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
M-1	Mar-91	Gross Alpha	10	8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-15	Mar-91	Gross Alpha	21	14	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-16	Mar-91	Gross Alpha	15	13	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-17	Mar-91	Gross Alpha	12	7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19D	Mar-91	Gross Alpha	19	14	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19S	Mar-91	Gross Alpha	31	21	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20D	Mar-91	Gross Alpha	28	21	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20S	Mar-91	Gross Alpha	11	16	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21D	Mar-91	Gross Alpha	14	16	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21S	Mar-91	Gross Alpha	10	13	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22D	Mar-91	Gross Alpha	3	5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22S	Mar-91	Gross Alpha	4	4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-10	Mar-91	Gross Beta	25	15	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-11	Mar-91	Gross Beta	9	8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-12	Mar-91	Gross Beta	15	10	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-13	Mar-91	Gross Beta	3	5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-14	Mar-91	Gross Beta	7	10	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-2D	Mar-91	Gross Beta	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-4D	Mar-91	Gross Beta	4	5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-5	Mar-91	Gross Beta	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-6D	Mar-91	Gross Beta	15	14	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-7	Mar-91	Gross Beta	8	12	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-8D	Mar-91	Gross Beta	14	13	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-9D	Mar-91	Gross Beta	19	11	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
M-1	Mar-91	Gross Beta	9	6	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-15	Mar-91	Gross Beta	13	9	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-16	Mar-91	Gross Beta	14	9	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-17	Mar-91	Gross Beta	6	5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19D	Mar-91	Gross Beta	15	10	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19S	Mar-91	Gross Beta	22	13	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20D	Mar-91	Gross Beta	19	14	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20S	Mar-91	Gross Beta	16	13	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21D	Mar-91	Gross Beta	17	12	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21S	Mar-91	Gross Beta	13	10	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22D	Mar-91	Gross Beta	2	4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22S	Mar-91	Gross Beta	3	3	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-10	Mar-91	Radium 226	0.5	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-11	Mar-91	Radium 226	0.2	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-12	Mar-91	Radium 226	0.5	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
CM-13	Mar-91	Radium 226	0.7	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-14	Mar-91	Radium 226	0	0.8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-2D	Mar-91	Radium 226	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-4D	Mar-91	Radium 226	0.5	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-5	Mar-91	Radium 226	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-6D	Mar-91	Radium 226	0.9	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-7	Mar-91	Radium 226	0.4	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-8D	Mar-91	Radium 226	1.6	0.8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-9D	Mar-91	Radium 226	0.7	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
M-1	Mar-91	Radium 226	0.4	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-15	Mar-91	Radium 226	0.8	0.6	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-16	Mar-91	Radium 226	1.3	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-17	Mar-91	Radium 226	1	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19D	Mar-91	Radium 226	0.1	0.8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19S	Mar-91	Radium 226	-0.1	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20D	Mar-91	Radium 226	3.9	0.8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20S	Mar-91	Radium 226	1.6	0.8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21D	Mar-91	Radium 226	4.3	0.8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21S	Mar-91	Radium 226	-0.3	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22D	Mar-91	Radium 226	0.3	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22S	Mar-91	Radium 226	0.3	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-16	Mar-91	Radium 228	1.3	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20D	Mar-91	Radium 228	0.5	0.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21D	Mar-91	Radium 228	0.6	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-10	Mar-91	Total Uranium	48.7	4.9	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-11	Mar-91	Total Uranium	2.7	0.3	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-12	Mar-91	Total Uranium	24.4	2.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-13	Mar-91	Total Uranium	6.1	1	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-14	Mar-91	Total Uranium	5.4	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-2D	Mar-91	Total Uranium	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-4D	Mar-91	Total Uranium	10.2	1.1	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-5	Mar-91	Total Uranium	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-6D	Mar-91	Total Uranium	6.8	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-7	Mar-91	Total Uranium	23.7	2.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-8D	Mar-91	Total Uranium	40.6	4.1	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-9D	Mar-91	Total Uranium	52.8	5.3	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
M-1	Mar-91	Total Uranium	15.6	1.6	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-15	Mar-91	Total Uranium	3.4	0.8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-16	Mar-91	Total Uranium	3	0.8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-17	Mar-91	Total Uranium	19	1.9	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19D	Mar-91	Total Uranium	<0.7		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19S	Mar-91	Total Uranium	17.6	1.8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20D	Mar-91	Total Uranium	<0.7		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
MW-20S	Mar-91	Total Uranium	0.7	0.07	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21D	Mar-91	Total Uranium	<0.7		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21S	Mar-91	Total Uranium	13.5	1.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22D	Mar-91	Total Uranium	4.7	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22S	Mar-91	Total Uranium	2	0.2	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-10	Jun-91	Gross Alpha	26	34	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-11	Jun-91	Gross Alpha	8	11	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-12	Jun-91	Gross Alpha	11	16	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-13	Jun-91	Gross Alpha	-1	8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-14	Jun-91	Gross Alpha	10	12	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-2D	Jun-91	Gross Alpha	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-4D	Jun-91	Gross Alpha	-2	9	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-5	Jun-91	Gross Alpha	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-6D	Jun-91	Gross Alpha	3	13	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-7	Jun-91	Gross Alpha	-8	16	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-8D	Jun-91	Gross Alpha	52	21	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-9D	Jun-91	Gross Alpha	50	20	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
M-1	Jun-91	Gross Alpha	-3	9	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-15	Jun-91	Gross Alpha	-3	14	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-16	Jun-91	Gross Alpha	3	15	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-17	Jun-91	Gross Alpha	8	9	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19D	Jun-91	Gross Alpha	-5	12	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19S	Jun-91	Gross Alpha	0	21	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20D	Jun-91	Gross Alpha	-6	15	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20S	Jun-91	Gross Alpha	-16	20	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21D	Jun-91	Gross Alpha	-14	17	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21S	Jun-91	Gross Alpha	30	22	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22D	Jun-91	Gross Alpha	5	5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22S	Jun-91	Gross Alpha	-3	4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-10	Jun-91	Gross Beta	-6	20	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-11	Jun-91	Gross Beta	5	10	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-12	Jun-91	Gross Beta	3	10	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-13	Jun-91	Gross Beta	2	5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-14	Jun-91	Gross Beta	-5	10	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-2D	Jun-91	Gross Beta	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-4D	Jun-91	Gross Beta	5	6	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-5	Jun-91	Gross Beta	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-6D	Jun-91	Gross Beta	-4	13	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-7	Jun-91	Gross Beta	1	11	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-8D	Jun-91	Gross Beta	6	13	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-9D	Jun-91	Gross Beta	5	12	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
M-1	Jun-91	Gross Beta	-4	6	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-15	Jun-91	Gross Beta	4	10	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
MW-16	Jun-91	Gross Beta	2	10	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-17	Jun-91	Gross Beta	2	5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19D	Jun-91	Gross Beta	0	8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19S	Jun-91	Gross Beta	5	14	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20D	Jun-91	Gross Beta	5	11	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20S	Jun-91	Gross Beta	8	14	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21D	Jun-91	Gross Beta	9	14	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21S	Jun-91	Gross Beta	5	10	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22D	Jun-91	Gross Beta	0	4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22S	Jun-91	Gross Beta	0	3	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-10	Jun-91	Radium 226	0.4	0.3	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-11	Jun-91	Radium 226	0.6	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-12	Jun-91	Radium 226	1.1	0.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-13	Jun-91	Radium 226	1.2	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-14	Jun-91	Radium 226	0.4	0.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-2D	Jun-91	Radium 226	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-4D	Jun-91	Radium 226	0.4	0.3	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-5	Jun-91	Radium 226	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-6D	Jun-91	Radium 226	1.1	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-7	Jun-91	Radium 226	0.9	0.6	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-8D	Jun-91	Radium 226	1.2	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-9D	Jun-91	Radium 226	0.8	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
M-1	Jun-91	Radium 226	2	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-15	Jun-91	Radium 226	2.9	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-16	Jun-91	Radium 226	2.9	0.6	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-17	Jun-91	Radium 226	1.5	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19D	Jun-91	Radium 226	0.4	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19S	Jun-91	Radium 226	0.2	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20D	Jun-91	Radium 226	6.5	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20S	Jun-91	Radium 226	1.2	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21D	Jun-91	Radium 226	4.7	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21S	Jun-91	Radium 226	0.3	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22D	Jun-91	Radium 226	0.5	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22S	Jun-91	Radium 226	0.3	0.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-16	Jun-91	Radium 228	2.9	0.6	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20D	Jun-91	Radium 228	3.5	0.8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21D	Jun-91	Radium 228	6	2.4	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-10	Jun-91	Total Uranium	2.7	0.3	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-11	Jun-91	Total Uranium	0.7	0.1	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-12	Jun-91	Total Uranium	28.4	2.8	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-13	Jun-91	Total Uranium	10.2	1	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-14	Jun-91	Total Uranium	<0.7		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-2D	Jun-91	Total Uranium	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.

HMSC - CANOGA PARK

SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
CM-4D	Jun-91	Total Uranium	7.5	0.7	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-5	Jun-91	Total Uranium	NS		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-6D	Jun-91	Total Uranium	<0.7		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-7	Jun-91	Total Uranium	2.7	0.3	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-8D	Jun-91	Total Uranium	32.5	3.3	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-9D	Jun-91	Total Uranium	39.3	3.9	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
M-1	Jun-91	Total Uranium	3.4	0.3	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-15	Jun-91	Total Uranium	<0.7		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-16	Jun-91	Total Uranium	4.2	0.9	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-17	Jun-91	Total Uranium	19.6	2	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19D	Jun-91	Total Uranium	<0.7		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-19S	Jun-91	Total Uranium	21.6	2.2	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20D	Jun-91	Total Uranium	0.7	0.1	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-20S	Jun-91	Total Uranium	0.7	0.1	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21D	Jun-91	Total Uranium	<0.7		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-21S	Jun-91	Total Uranium	25	2.5	pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22D	Jun-91	Total Uranium	<0.7		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
MW-22S	Jun-91	Total Uranium	<0.7		pCi/l	groundwater	McLaren Hart, date n/a	Accu-Labs Research, Inc.
CM-10	Oct-91	Gross Alpha	60.2		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-11	Oct-91	Gross Alpha	1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-12	Oct-91	Gross Alpha	15.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-13	Oct-91	Gross Alpha	6.3		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-14	Oct-91	Gross Alpha	3.2		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-4D	Oct-91	Gross Alpha	1.4		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-6D	Oct-91	Gross Alpha	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-7	Oct-91	Gross Alpha	7.4		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-8D	Oct-91	Gross Alpha	37.8		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-9D	Oct-91	Gross Alpha	28.3		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
M-1	Oct-91	Gross Alpha	7.4		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-15	Oct-91	Gross Alpha	2.3		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-16	Oct-91	Gross Alpha	5.3		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-17	Oct-91	Gross Alpha	14.2		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-19D	Oct-91	Gross Alpha	2.8		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-19S	Oct-91	Gross Alpha	12.5		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-20D	Oct-91	Gross Alpha	15.7		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-20S	Oct-91	Gross Alpha	1.7		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-21D	Oct-91	Gross Alpha	7.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-21S	Oct-91	Gross Alpha	16.2		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-22D	Oct-91	Gross Alpha	7.8		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-22S	Oct-91	Gross Alpha	1.9		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-10	Oct-91	Gross Beta	21.1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-11	Oct-91	Gross Beta	7.1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-12	Oct-91	Gross Beta	12.3		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
CM-13	Oct-91	Gross Beta	4.4		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-14	Oct-91	Gross Beta	3.8		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-4D	Oct-91	Gross Beta	2.8		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-6D	Oct-91	Gross Beta	2.1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-7	Oct-91	Gross Beta	11.8		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-8D	Oct-91	Gross Beta	27.4		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-9D	Oct-91	Gross Beta	15.8		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
M-1	Oct-91	Gross Beta	8.1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-15	Oct-91	Gross Beta	3.1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-16	Oct-91	Gross Beta	5		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-17	Oct-91	Gross Beta	7.1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-19D	Oct-91	Gross Beta	7.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-19S	Oct-91	Gross Beta	10.9		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-20D	Oct-91	Gross Beta	6.2		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-20S	Oct-91	Gross Beta	8.8		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-21D	Oct-91	Gross Beta	14		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-21S	Oct-91	Gross Beta	7.7		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-22D	Oct-91	Gross Beta	5.1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-22S	Oct-91	Gross Beta	<2.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-10	Oct-91	Radium 226	<1.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-11	Oct-91	Radium 226	<1.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-12	Oct-91	Radium 226	<1.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-13	Oct-91	Radium 226	1.1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-14	Oct-91	Radium 226	<1.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-4D	Oct-91	Radium 226	<1.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-6D	Oct-91	Radium 226	<1.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-7	Oct-91	Radium 226	<1.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-8D	Oct-91	Radium 226	<1.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-9D	Oct-91	Radium 226	<1.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
M-1	Oct-91	Radium 226	1.3		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-15	Oct-91	Radium 226	2.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-16	Oct-91	Radium 226	5.2		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-17	Oct-91	Radium 226	<1.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-19D	Oct-91	Radium 226	<1.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-19S	Oct-91	Radium 226	<1.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-20D	Oct-91	Radium 226	5.3		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-20S	Oct-91	Radium 226	1.4		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-21D	Oct-91	Radium 226	8.2		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-21S	Oct-91	Radium 226	<1.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-22D	Oct-91	Radium 226	<1.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-22S	Oct-91	Radium 226	<1.0		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-10	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-11	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services

HMSC - CANOGA PARK

SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
CM-12	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-13	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-14	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-4D	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-6D	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-7	Oct-91	Radium 228	1.3		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-8D	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-9D	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
M-1	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-15	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-16	Oct-91	Radium 228	1.7		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-17	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-19D	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-19S	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-20D	Oct-91	Radium 228	1.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-20S	Oct-91	Radium 228	2.4		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-21D	Oct-91	Radium 228	1.8		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-21S	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-22D	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-22S	Oct-91	Radium 228	<1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-10	Oct-91	Uranium 234	26		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-11	Oct-91	Uranium 234	2.2		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-12	Oct-91	Uranium 234	3.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-13	Oct-91	Uranium 234	4.4		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-14	Oct-91	Uranium 234	2.7		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-4D	Oct-91	Uranium 234	4.9		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-6D	Oct-91	Uranium 234	0.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-7	Oct-91	Uranium 234	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-8D	Oct-91	Uranium 234	27.3		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-9D	Oct-91	Uranium 234	20.2		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
M-1	Oct-91	Uranium 234	6.4		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-15	Oct-91	Uranium 234	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-16	Oct-91	Uranium 234	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-17	Oct-91	Uranium 234	9.1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-19D	Oct-91	Uranium 234	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-19S	Oct-91	Uranium 234	15.2		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-20D	Oct-91	Uranium 234	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-20S	Oct-91	Uranium 234	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-21D	Oct-91	Uranium 234	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-21S	Oct-91	Uranium 234	11.8		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-22D	Oct-91	Uranium 234	3		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-22S	Oct-91	Uranium 234	1.7		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-10	Oct-91	Uranium 235	1.1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
CM-11	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-12	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-13	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-14	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-4D	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-6D	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-7	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-8D	Oct-91	Uranium 235	1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-9D	Oct-91	Uranium 235	0.7		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
M-1	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-15	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-16	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-17	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-19D	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-19S	Oct-91	Uranium 235	0.7		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-20D	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-20S	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-21D	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-21S	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-22D	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-22S	Oct-91	Uranium 235	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-10	Oct-91	Uranium 238	26.3		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-11	Oct-91	Uranium 238	2.1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-12	Oct-91	Uranium 238	4.8		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-13	Oct-91	Uranium 238	4.1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-14	Oct-91	Uranium 238	2.2		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-4D	Oct-91	Uranium 238	4.3		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-6D	Oct-91	Uranium 238	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-7	Oct-91	Uranium 238	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-8D	Oct-91	Uranium 238	25.9		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
CM-9D	Oct-91	Uranium 238	18.8		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
M-1	Oct-91	Uranium 238	6.9		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-15	Oct-91	Uranium 238	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-16	Oct-91	Uranium 238	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-17	Oct-91	Uranium 238	9.5		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-19D	Oct-91	Uranium 238	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-19S	Oct-91	Uranium 238	12.1		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-20D	Oct-91	Uranium 238	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-20S	Oct-91	Uranium 238	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-21D	Oct-91	Uranium 238	<.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-21S	Oct-91	Uranium 238	10.8		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-22D	Oct-91	Uranium 238	2.7		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services
MW-22S	Oct-91	Uranium 238	1.6		pCi/l	groundwater	GRC, 1/23/92	IT Analytical Services

HMSC - CANOGA PARK

SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
CM-10	Dec-91	Gross Alpha	48.9		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-11	Dec-91	Gross Alpha	<4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-12	Dec-91	Gross Alpha	25.7		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-13	Dec-91	Gross Alpha	11.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-14	Dec-91	Gross Alpha	6.3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-15	Dec-91	Gross Alpha	3.7		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-16	Dec-91	Gross Alpha	1.7		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-17	Dec-91	Gross Alpha	13		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-18	Dec-91	Gross Alpha	59.2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-19	Dec-91	Gross Alpha	5.2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-4D	Dec-91	Gross Alpha	<4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-6D	Dec-91	Gross Alpha	4.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-7	Dec-91	Gross Alpha	<4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-8D	Dec-91	Gross Alpha	50.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-9D	Dec-91	Gross Alpha	NA		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
M-1	Dec-91	Gross Alpha	7.7		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-15	Dec-91	Gross Alpha	<4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-16	Dec-91	Gross Alpha	9		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-17	Dec-91	Gross Alpha	12.4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-19D	Dec-91	Gross Alpha	<4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-19S	Dec-91	Gross Alpha	16		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-20D	Dec-91	Gross Alpha	<4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-20S	Dec-91	Gross Alpha	<4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-21D	Dec-91	Gross Alpha	7.4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-21S	Dec-91	Gross Alpha	7.3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-22D	Dec-91	Gross Alpha	4.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-22S	Dec-91	Gross Alpha	2.3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-23	Dec-91	Gross Alpha	5.3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-10	Dec-91	Gross Beta	24.6		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-11	Dec-91	Gross Beta	7.08		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-12	Dec-91	Gross Beta	11.2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-13	Dec-91	Gross Beta	<4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-14	Dec-91	Gross Beta	<4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-15	Dec-91	Gross Beta	8.49		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-16	Dec-91	Gross Beta	12.6		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-17	Dec-91	Gross Beta	13.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-18	Dec-91	Gross Beta	33.7		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-19	Dec-91	Gross Beta	7.42		pCi/l	groundwater	GRC, 3/27/92	
CM-4D	Dec-91	Gross Beta	5.36		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-6D	Dec-91	Gross Beta	5.2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-7	Dec-91	Gross Beta	10.6		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-8D	Dec-91	Gross Beta	12.9		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-9D	Dec-91	Gross Beta	NA		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
M-1	Dec-91	Gross Beta	6.23		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-15	Dec-91	Gross Beta	<4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-16	Dec-91	Gross Beta	8.53		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-17	Dec-91	Gross Beta	8.46		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-19D	Dec-91	Gross Beta	10.7		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-19S	Dec-91	Gross Beta	10.9		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-20D	Dec-91	Gross Beta	4.93		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-20S	Dec-91	Gross Beta	4.58		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-21D	Dec-91	Gross Beta	12.2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-21S	Dec-91	Gross Beta	5.35		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-22D	Dec-91	Gross Beta	4.96		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-22S	Dec-91	Gross Beta	<4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-23	Dec-91	Gross Beta	8.08		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-10	Dec-91	Radium 226	<.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-11	Dec-91	Radium 226	--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-12	Dec-91	Radium 226	<.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-13	Dec-91	Radium 226	1.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-14	Dec-91	Radium 226	<.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-15	Dec-91	Radium 226	--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-16	Dec-91	Radium 226	--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-17	Dec-91	Radium 226	<.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-18	Dec-91	Radium 226	1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-19	Dec-91	Radium 226	<.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-4D	Dec-91	Radium 226	--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-6D	Dec-91	Radium 226	--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-7	Dec-91	Radium 226	--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-8D	Dec-91	Radium 226	0.9		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-9D	Dec-91	Radium 226	NA		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
M-1	Dec-91	Radium 226	1.2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-15	Dec-91	Radium 226	--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-16	Dec-91	Radium 226	4.8		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-17	Dec-91	Radium 226	<.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-19D	Dec-91	Radium 226	--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-19S	Dec-91	Radium 226	<.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-20D	Dec-91	Radium 226	--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-20S	Dec-91	Radium 226	--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-21D	Dec-91	Radium 226	11.3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-21S	Dec-91	Radium 226	<.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-22D	Dec-91	Radium 226	--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-22S	Dec-91	Radium 226	--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-23	Dec-91	Radium 226	<.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-10	Dec-91	Radium 228	<1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-11	Dec-91	Radium 228	NAR--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services

HMSC - CANOGA PARK

SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
CM-12	Dec-91	Radium 228	<1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-13	Dec-91	Radium 228	<1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-14	Dec-91	Radium 228	<1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-15	Dec-91	Radium 228	NAR--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-16	Dec-91	Radium 228	NAR--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-17	Dec-91	Radium 228	<1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-18	Dec-91	Radium 228	<1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-19	Dec-91	Radium 228	<1		pCi/l	groundwater	GRC, 3/27/92	
CM-4D	Dec-91	Radium 228	NAR--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-6D	Dec-91	Radium 228	NAR--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-7	Dec-91	Radium 228	NAR--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-8D	Dec-91	Radium 228	<1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-9D	Dec-91	Radium 228	NA		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
M-1	Dec-91	Radium 228	<1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-15	Dec-91	Radium 228	NAR--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-16	Dec-91	Radium 228	1.84		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-17	Dec-91	Radium 228	<1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-19D	Dec-91	Radium 228	NAR--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-19S	Dec-91	Radium 228	<1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-20D	Dec-91	Radium 228	NAR--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-20S	Dec-91	Radium 228	NAR--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-21D	Dec-91	Radium 228	1.62		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-21S	Dec-91	Radium 228	<1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-22D	Dec-91	Radium 228	NAR--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-22S	Dec-91	Radium 228	NAR--		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-23	Dec-91	Radium 228	<1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-10	Dec-91	Uranium 234	25.8		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-11	Dec-91	Uranium 234	3.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-12	Dec-91	Uranium 234	13.6		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-13	Dec-91	Uranium 234	4.4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-14	Dec-91	Uranium 234	2.4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-15	Dec-91	Uranium 234	2.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-16	Dec-91	Uranium 234	3.9		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-17	Dec-91	Uranium 234	13.4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-18	Dec-91	Uranium 234	46.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-19	Dec-91	Uranium 234	5.8		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-4D	Dec-91	Uranium 234	5.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-6D	Dec-91	Uranium 234	0.4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-7	Dec-91	Uranium 234	0.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-8D	Dec-91	Uranium 234	25.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-9D	Dec-91	Uranium 234	NA		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
M-1	Dec-91	Uranium 234	5.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-15	Dec-91	Uranium 234	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services

HMSC - CANOGA PARK

SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
MW-16	Dec-91	Uranium 234	1.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-17	Dec-91	Uranium 234	9.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-19D	Dec-91	Uranium 234	0.4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-19S	Dec-91	Uranium 234	10.3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-20D	Dec-91	Uranium 234	0.2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-20S	Dec-91	Uranium 234	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-21D	Dec-91	Uranium 234	0.3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-21S	Dec-91	Uranium 234	7.3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-22D	Dec-91	Uranium 234	3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-22S	Dec-91	Uranium 234	1.7		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-23	Dec-91	Uranium 234	5.7		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-10	Dec-91	Uranium 235	1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-11	Dec-91	Uranium 235	0.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-12	Dec-91	Uranium 235	0.7		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-13	Dec-91	Uranium 235	0.2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-14	Dec-91	Uranium 235	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-15	Dec-91	Uranium 235	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-16	Dec-91	Uranium 235	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-17	Dec-91	Uranium 235	0.4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-18	Dec-91	Uranium 235	2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-19	Dec-91	Uranium 235	0.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-4D	Dec-91	Uranium 235	0.2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-6D	Dec-91	Uranium 235	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-7	Dec-91	Uranium 235	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-8D	Dec-91	Uranium 235	1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-9D	Dec-91	Uranium 235	NA		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
M-1	Dec-91	Uranium 235	0.2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-15	Dec-91	Uranium 235	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-16	Dec-91	Uranium 235	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-17	Dec-91	Uranium 235	0.4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-19D	Dec-91	Uranium 235	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-19S	Dec-91	Uranium 235	0.3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-20D	Dec-91	Uranium 235	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-20S	Dec-91	Uranium 235	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-21D	Dec-91	Uranium 235	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-21S	Dec-91	Uranium 235	0.2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-22D	Dec-91	Uranium 235	0.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-22S	Dec-91	Uranium 235	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-23	Dec-91	Uranium 235	0.2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-10	Dec-91	Uranium 238	26.5		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-11	Dec-91	Uranium 238	3.3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-12	Dec-91	Uranium 238	12.7		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-13	Dec-91	Uranium 238	4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services

HMSC - CANOGA PARK

SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
CM-14	Dec-91	Uranium 238	2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-15	Dec-91	Uranium 238	1.4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-16	Dec-91	Uranium 238	2.3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-17	Dec-91	Uranium 238	12.6		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-18	Dec-91	Uranium 238	43.9		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-19	Dec-91	Uranium 238	4.3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-4D	Dec-91	Uranium 238	4.8		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-6D	Dec-91	Uranium 238	0.3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-7	Dec-91	Uranium 238	0.4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-8D	Dec-91	Uranium 238	23.7		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-9D	Dec-91	Uranium 238	NA		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
M-1	Dec-91	Uranium 238	5.4		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-15	Dec-91	Uranium 238	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-16	Dec-91	Uranium 238	1.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-17	Dec-91	Uranium 238	9.6		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-19D	Dec-91	Uranium 238	0.2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-19S	Dec-91	Uranium 238	8.6		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-20D	Dec-91	Uranium 238	0.2		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-20S	Dec-91	Uranium 238	<.1		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-21D	Dec-91	Uranium 238	0.3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-21S	Dec-91	Uranium 238	7		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-22D	Dec-91	Uranium 238	2.8		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-22S	Dec-91	Uranium 238	1.6		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
MW-23	Dec-91	Uranium 238	5.3		pCi/l	groundwater	GRC, 3/27/92	IT Analytical Services
CM-10	Mar-92	Gross Alpha	17		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-11	Mar-92	Gross Alpha	11		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-12	Mar-92	Gross Alpha	9		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-13	Mar-92	Gross Alpha	3		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-14	Mar-92	Gross Alpha	4		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-15	Mar-92	Gross Alpha	4		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-16	Mar-92	Gross Alpha	<2		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-17	Mar-92	Gross Alpha	8		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-18	Mar-92	Gross Alpha	25		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-19	Mar-92	Gross Alpha	5		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-4D	Mar-92	Gross Alpha	3		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-6D	Mar-92	Gross Alpha	5		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-7	Mar-92	Gross Alpha	4		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-8D	Mar-92	Gross Alpha	10		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-9D	Mar-92	Gross Alpha	24		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-1	Mar-92	Gross Alpha	6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-15	Mar-92	Gross Alpha	6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-16	Mar-92	Gross Alpha	6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-17	Mar-92	Gross Alpha	4		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.

HMSC - CANOGA PARK

SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
MW-19D	Mar-92	Gross Alpha	9		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-19S	Mar-92	Gross Alpha	12		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-20D	Mar-92	Gross Alpha	<2		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-20S	Mar-92	Gross Alpha	6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-21D	Mar-92	Gross Alpha	5		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-21S	Mar-92	Gross Alpha	11		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-22D	Mar-92	Gross Alpha	3		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-22S	Mar-92	Gross Alpha	4		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-23	Mar-92	Gross Alpha	7		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-10	Mar-92	Gross Beta	12		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-11	Mar-92	Gross Beta	10		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-12	Mar-92	Gross Beta	5		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-13	Mar-92	Gross Beta	4		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-14	Mar-92	Gross Beta	11		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-15	Mar-92	Gross Beta	8		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-16	Mar-92	Gross Beta	6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-17	Mar-92	Gross Beta	10		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-18	Mar-92	Gross Beta	13		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-19	Mar-92	Gross Beta	8		pCi/l	groundwater	GRC, 7/1/92	
CM-4D	Mar-92	Gross Beta	5		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-6D	Mar-92	Gross Beta	7		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-7	Mar-92	Gross Beta	6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-8D	Mar-92	Gross Beta	8		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-9D	Mar-92	Gross Beta	17		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
M-1	Mar-92	Gross Beta	15		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-15	Mar-92	Gross Beta	8		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-16	Mar-92	Gross Beta	12		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-17	Mar-92	Gross Beta	7		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-19D	Mar-92	Gross Beta	10		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-19S	Mar-92	Gross Beta	12		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-20D	Mar-92	Gross Beta	<3		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-20S	Mar-92	Gross Beta	8		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-21D	Mar-92	Gross Beta	6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-21S	Mar-92	Gross Beta	9		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-22D	Mar-92	Gross Beta	8		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-22S	Mar-92	Gross Beta	12		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-23	Mar-92	Gross Beta	12		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-10	Mar-92	Radium 226	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-11	Mar-92	Radium 226	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-12	Mar-92	Radium 226	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-13	Mar-92	Radium 226	--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-14	Mar-92	Radium 226	--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-15	Mar-92	Radium 226	--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.

HMSC - CANOGA PARK

SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
CM-16	Mar-92	Radium 226	--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-17	Mar-92	Radium 226	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-18	Mar-92	Radium 226	1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-19	Mar-92	Radium 226	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-4D	Mar-92	Radium 226	--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-6D	Mar-92	Radium 226	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-7	Mar-92	Radium 226	--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-8D	Mar-92	Radium 226	0.9		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-9D	Mar-92	Radium 226	0.9		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-1	Mar-92	Radium 226	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-15	Mar-92	Radium 226	0.9		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-16	Mar-92	Radium 226	3.0		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-17	Mar-92	Radium 226	--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-19D	Mar-92	Radium 226	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-19S	Mar-92	Radium 226	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-20D	Mar-92	Radium 226	--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-20S	Mar-92	Radium 226	0.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-21D	Mar-92	Radium 226	5.2		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-21S	Mar-92	Radium 226	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-22D	Mar-92	Radium 226	--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-22S	Mar-92	Radium 226	--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-23	Mar-92	Radium 226	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-10	Mar-92	Radium 228	<1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-11	Mar-92	Radium 228	<1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-12	Mar-92	Radium 228	<1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-13	Mar-92	Radium 228	<1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-14	Mar-92	Radium 228	NAR--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-15	Mar-92	Radium 228	NAR--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-16	Mar-92	Radium 228	NAR--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-17	Mar-92	Radium 228	<1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-18	Mar-92	Radium 228	<1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-19	Mar-92	Radium 228	<1		pCi/l	groundwater	GRC, 7/1/92	
CM-4D	Mar-92	Radium 228	NAR--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-6D	Mar-92	Radium 228	<1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-7	Mar-92	Radium 228	NAR--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-8D	Mar-92	Radium 228	<1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-9D	Mar-92	Radium 228	<1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
M-1	Mar-92	Radium 228	<1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-15	Mar-92	Radium 228	<1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-16	Mar-92	Radium 228	4		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-17	Mar-92	Radium 228	NAR--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-19D	Mar-92	Radium 228	5		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-19S	Mar-92	Radium 228	8		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.

HMSC - CANOGA PARK

SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
MW-20D	Mar-92	Radium 228	NAR--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-20S	Mar-92	Radium 228	5		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-21D	Mar-92	Radium 228	<1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-21S	Mar-92	Radium 228	<1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-22D	Mar-92	Radium 228	NAR--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-22S	Mar-92	Radium 228	NAR--		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-23	Mar-92	Radium 228	<1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-10	Mar-92	Uranium 234	3.5		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-11	Mar-92	Uranium 234	4.5		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-12	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-13	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-14	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-15	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-16	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-17	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-18	Mar-92	Uranium 234	2.1		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-19	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-4D	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-6D	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-7	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-8D	Mar-92	Uranium 234	3.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-9D	Mar-92	Uranium 234	5.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-1	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-15	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-16	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-17	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-19D	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-19S	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-20D	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-20S	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-21D	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-21S	Mar-92	Uranium 234	3.2		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-22D	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-22S	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-23	Mar-92	Uranium 234	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-10	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-11	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-12	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-13	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-14	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-15	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-16	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-17	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.

HMSC - CANOGA PARK
SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
CM-18	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-19	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-4D	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-6D	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-7	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-8D	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-9D	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-1	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-15	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-16	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-17	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-19D	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-19S	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-20D	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-20S	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-21D	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-21S	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-22D	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-22S	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-23	Mar-92	Uranium 235	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-10	Mar-92	Uranium 238	2.9		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-11	Mar-92	Uranium 238	10.3		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-12	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-13	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-14	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-15	Mar-92	Uranium 238	1.8		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-16	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-17	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-18	Mar-92	Uranium 238	1.8		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-19	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-4D	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-6D	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-7	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-8D	Mar-92	Uranium 238	6.9		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
CM-9D	Mar-92	Uranium 238	7.2		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-1	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-15	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-16	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-17	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-19D	Mar-92	Uranium 238	0.9		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-19S	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-20D	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-20S	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.

HMSC - CANOGA PARK

SUMMARY OF RADIONUCLIDE DATA

SAMP_ID	SAMP_DATE	ANALYTE	RESULT	+/-	UNITS	MEDIUM	REPORT	LABORATORY
MW-21D	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-21S	Mar-92	Uranium 238	7.0		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-22D	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-22S	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.
MW-23	Mar-92	Uranium 238	<.6		pCi/l	groundwater	GRC, 7/1/92	CEP, Inc.

RECEIVED
AUG 11 2006

PHASE I ENVIRONMENTAL SITE ASSESSMENT



Site:

DeVry University
22801 Roscoe Boulevard
West Hills, California 91304

Prepared For:

Trammell Crow Company
8413 Fallbrook Avenue,
West Hills, California 91304

Prepared by:

Unmack Corporation
1379 Park Western Drive, PMB 282
San Pedro, California 90732

July 28, 2006

Unmack Corporation Project # 06.109.03

1. EXECUTIVE SUMMARY

Unmack Corporation (UC) was retained by Trammell Crow Company to perform a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-00 at the DeVry University located at 22801 Roscoe Boulevard in West Hills, California 91304 herein referred to as the SITE. Any exceptions to, or deletions from, this practice is described in Section 1 of this report.

The purpose of a Phase I is not only to assist a purchaser or lender to qualify for the innocent landowner defense under the federal Superfund statute, it is also intended to provide reliable, early information on the environmental condition of the property and on the possible need for additional, more extensive and costly investigation.

In short, the Phase I assessment is designed to recognize and catalog those concerns or problems that the environmental professional believes deserve further investigation. A major purpose of the Phase I assessment is to evaluate the need for more intrusive research. The recommendations provided in a Phase I report reflect professional judgments made by the assessment team based on observations of the SITE and a thorough review of available agency and other historical records, including information provided by the SITE's owner or representative, within the time constraints of the reporting period. Precise information about actual SITE contamination can only be obtained through a different and subsequent level of investigation, as would occur in a Phase II study, which might involve sampling of soil and/or groundwater to determine actual levels of contamination, or of building materials to determine the presence of asbestos or lead containing materials.

In performing this Phase I investigation, Unmack Corporation's team completed the following steps: review of government records and databases for evidence of possible environmental contamination; site reconnaissance through a site walk of the property; interviews with current owners and occupants of the property or their representative(s), as well as with appropriate government agency staff; and an evaluation of the evidence developed during the site assessment presented in a written report to the individual ordering the performance of the Phase I.

This assessment has revealed no evidence of recognized environmental conditions (RECs) in connection with the SITE.

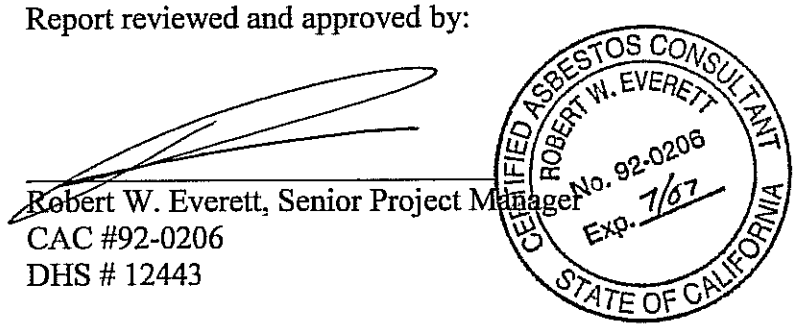
In conclusion, the SITE presents evidence of low environmental risk, stemming from any undocumented underground storage tanks (USTs), underground piping and the former adjoining northern property previously owned and occupied by Hughes Missile System Company.

Based on the results of the Phase I Environmental Site Assessment, Unmack Corporation recommends the following:

- A closure letter should be obtained from the Los Angeles Regional Water Quality Control Board (LARWQCB) regarding the four groundwater monitoring wells located on the SITE if these wells are considered to be a no further action activity.

- Prior to any renovation or demolition of the current building, a Hazardous Materials Survey should be performed to determine if any hazardous materials such as asbestos containing materials or lead-containing materials are present in the building.

Report reviewed and approved by:



Robert W. Everett, Senior Project Manager
CAC #92-0206
DHS # 12443

TABLE OF CONTENTS

1. **EXECUTIVE SUMMARY** I

I. **INTRODUCTION** 1

PURPOSE 1
Property and Client 1
Purpose of a Phase I Environmental Site Assessment 1
DETAILED SCOPE-OF-SERVICES 2
SIGNIFICANT ASSUMPTIONS 2
LIMITATIONS AND EXCEPTIONS OF ASSESSMENT 3
SPECIAL TERMS AND CONDITIONS 3
USER RELIANCE 3

II. **SITE DESCRIPTION** 4

LOCATION AND LEGAL DESCRIPTION 4
SITE AND VICINITY GENERAL CHARACTERISTICS 4
CURRENT USE OF PROPERTY 4
SITE STRUCTURES, ROADS AND OTHER IMPROVEMENTS 4
CURRENT USES OF ADJOINING PROPERTIES 4
SITE PLAN 4

III. **USER PROVIDED INFORMATION** 5

TITLE RECORDS 5
ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS 5
SPECIALIZED KNOWLEDGE 5
VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES 5
OWNER, PROPERTY MANAGER, AND OCCUPANT INFORMATION 5
REASON FOR PERFORMING PHASE I 5
PREVIOUS ENVIRONMENTAL INVESTIGATIONS 5

IV. **RECORDS REVIEW** 7

STANDARD ENVIRONMENTAL RECORD SOURCES 7
Subject Property 9
Adjoining Properties 9
Orphan Sites 10
Summary of Database Review 10
PHYSICAL SETTING 10
Site Geology 11
Site Geohydrology 11
Groundwater Well Information 11
HISTORICAL USE INFORMATION ON THE PROPERTY 12
Building Records 12
Aerial Photo Review 12
Sanborn Insurance Maps 12
Division of Oil, Gas and Geothermal Resources Records 12
HISTORICAL USE INFORMATION ON ADJOINING PROPERTIES 13
Sanborn Insurance Maps 13
SUMMARY OF HISTORICAL USE INFORMATION 13
HISTORICAL USE INFORMATION SOURCES 13
ENVIRONMENTAL SETTING SOURCES 13

V. **SITE RECONNAISSANCE** 14

METHODOLOGY AND LIMITING CONDITIONS 14
GENERAL SITE SETTING 14
Current Use of the Property *14*
Past Use of the Property *14*
Current Uses of Adjoining Properties *14*
Past Use of Adjoining Properties *14*
Current or Past Uses in the Surrounding Area *14*
General Description of Structures *15*
Roads *15*
Potable Water Supply *15*
INTERIOR AND EXTERIOR OBSERVATIONS 15
Hazardous Substances and Petroleum Products in Connection with Identified Uses *15*
PCBs *16*
INTERIOR OBSERVATIONS 16
Hazardous Materials, Hazardous Waste and Petroleum Products *16*
Asbestos-Containing Materials *16*
Lead-Based Paints *16*
PCBs *16*
EXTERIOR OBSERVATIONS 17
Wells *17*

VI. INTERVIEWS 18

INTERVIEW WITH OWNER 18
Proceedings Involving the Property *18*
Previous Environmental Investigations *18*
INTERVIEW WITH SITE MANAGER 18
INTERVIEWS WITH LOCAL GOVERNMENT OFFICIALS 18
Los Angeles Regional Water Quality Control Board (LARWQCB) *18*
City of Los Angeles Fire Department Hazardous Materials Division *18*
City of Los Angeles Fire Department Underground Storage Tank Division *18*

VII. CONCLUSIONS AND RECOMMENDATIONS 19

CONCLUSIONS 19

VIII. SIGNATURE AND QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL 20

QUALIFICATIONS 20
SIGNATURE OF ENVIRONMENTAL PROFESSIONAL 20

APPENDICES 21

Exhibit A. Topographic Site Map ..... *A*
Exhibit B. Site Plot Plan ..... *B*
Exhibit C. Photographs Taken During Site Walk ..... *C*
Exhibit D. City of Los Angeles Building & Safety Permits ..... *D*
Exhibit E. Government Records Data Base Search and Radius Site Map ..... *E*
Exhibit F. Transaction Questionnaire ..... *F*
Exhibit G. City of Los Angeles Fire Dept. Responses ..... *G*
Exhibit H. Assessor's Parcel Map ..... *H*
Exhibit I. Fluor Daniel GTI Additional Site Assessment Report ..... *I*

I. INTRODUCTION

Purpose

Property and Client

The property subject to this Phase I Environmental Site Assessment is the DeVry University located at 22801 Roscoe Boulevard in West Hills, California 91304. The Unmack Corporation retained W&K to prepare this assessment.

Purpose of a Phase I Environmental Site Assessment

Under the federal Comprehensive Environmental Response, Compensation and Liability Act (CERCLA, or "Superfund"), owners of property where hazardous substances have been released (including deposited or disposed of) are strictly liable for the costs of response and cleanup. This liability, which can amount to millions of dollars, generally extends to landowners who receive title after the release has occurred, unless the landowner can demonstrate that at the time of acquisition, he had no knowledge or reason to know of the release or disposal. Such an "innocent landowner" must meet certain statutory requirements and bears the burden of proof in establishing this defense. Generally, the landowner must demonstrate that prior to acquisition, he undertook "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice in an effort to minimize liability."[1] Potential environmental liability may also result under other federal and state laws, and under common law tort suits based on contamination. In addition, the Federal Deposit Insurance Corporation since 1993 has required that all insured lending institutions have in place "appropriate safeguards and controls to limit exposure to potential environmental liability associated with real property held as collateral or as an investment... Examiners will review the institution's compliance with its own environmental risk program as part of the examination of lending and investment activities."[2] As a result, essentially all nonresidential real estate transactions now include an environmental site assessment.

The legal standard exists defining what a site assessment must include, both the Environmental Protection Agency (EPA) and the American Society for Testing and Materials (ASTM) has published a standard defining recommended elements to be included. However, the standard does not take effect until December 2006. According to this standard[3], the goal of the Phase I Environmental Site Assessment process is to identify *recognized environmental conditions*, which means:

> the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimus

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[1] 42 USC 9601(35)(B)

[2] Poling, Stanley J., Director, Federal Deposit Insurance Corporation, *Guidelines for an Environmental Risk Program*, FIL-14-93, February 25, 1993.

[3] ASTM E 1527-05, page 1

conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate government agencies.[4]

The purpose of a Phase I is not only to assist a purchaser or lender qualify for the innocent landowner defense; it is also intended to provide reliable, early information on the environmental condition of the property and on the possible need for additional, more extensive and costly investigation. In the terminology currently used in the industry, site investigation and cleanup entails up to three discrete steps: Phase I, which involves nonintrusive investigation designed to spot the most common contamination problems and sources; Phase II, which involves sampling and analysis to characterize the nature and extent of contamination, considering the Phase I findings; and Phase III, which covers the actual site cleanup, based on information from the Phase II study.

More specifically, a Phase I Environmental Site Assessment entails nonintrusive research to identify areas of potentially significant liability for the current or prospective owner. Conditions suggesting possible onsite contamination are described, and the client notified that further investigation may be warranted to confirm the existence and/or extent of contamination; cleanup remedies and costs can then be more confidently evaluated. Such a subsequent investigation involves intrusive measures such as soil and/or groundwater testing; this level of investigation is termed a "Phase II" study. In short, the Phase I assessment is designed to recognize and catalog those concerns or problems that the environmental professional believes deserve further investigation. A major purpose of the Phase I assessment is to evaluate the need for more intrusive research. The recommendations provided in a Phase I report reflect professional judgments made by the assessment team based on observations of the site and a thorough review of available agency and other historical records; precise information about actual site contamination can only be obtained through a different and subsequent level of investigation, as would occur in a Phase II study.

This Environmental Site Assessment has been performed to meet the ASTM standard and to assist in fulfilling both purposes described above.

Detailed Scope-of-Services

A Phase I Environmental Site Assessment generally has four elements: Review of government records and databases for evidence of possible environmental contamination; site reconnaissance through a site walk of the property; interviews with current owners and occupants of the property, as well as with appropriate government agency representatives; and an evaluation of the evidence developed during the site assessment presented in a written report to the individual ordering the performance of the Phase I.

Significant Assumptions

None

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[4] *op cit.*, p. 6

Limitations and Exceptions of Assessment

Consistent with customary practice and the ASTM standard, this Phase I did not include a specific evaluation of the potential presence of asbestos, radon, lead-based paint, lead in drinking water, or fungus/mold.

Any sketch appearing in or attached to this report, or any statement of dimensions, capacities, quantities or distances, are approximate and are included to assist the reader in visualizing the property. No survey of the property has been made as part of this Phase I assessment. W&K assumes that there are no hidden, unapparent or latent conditions or defects in or of the property, subsoil, or structures, other than those noted in this report. No responsibility for such conditions or for their repair is assumed. Information, estimates and opinions furnished to W&K and contained in this report were furnished from sources considered reliable and believed to be true and correct. However, no independent investigation as to such matters has been made, and W&K assumes no further responsibility for their accuracy.

A Phase I Environmental Site Assessment is not an audit of a facility's compliance with applicable environmental, health and safety standards. Although such a compliance audit may sometimes be useful in connection with the acquisition of a commercial or industrial enterprise, it involves a different approach as well as higher levels of scrutiny and effort than those involved in a Phase I scope of work.

Special Terms and Conditions

None

User Reliance

An environmental professional is not required to verify independently the information provided but may rely on information provided unless he or she has *actual knowledge* that certain information is incorrect or unless it is *obvious* that certain information is incorrect based on other information obtained in the Phase I Environmental site assessment or otherwise actually known to the *environmental professional.*

II. SITE DESCRIPTION

Location and Legal Description

The SITE consists of the DrVry University located at 22801 Roscoe Boulevard in community of West Hills in the City of Los Angeles, California 91739. The SITE is located on approximately 15.25 acres of land and 106,190 square feet of building and consists of Parcel A with APN number of: 2005-002-001 in the City of Los Angeles, County of Los Angeles, California.

A topographic map is provided in Exhibit A.

Site and Vicinity General Characteristics

Fallbrook Avenue is to the east and adjoining to the SITE, Roscoe Boulevard is to the south and adjoining to the SITE, residential development is to the west and adjoining to the SITE and West Hills Corp Pointe commercial center is to the north and adjoining to the SITE. Residential developments are located along the east side of Fallbrook Avenue and the south side of Roscoe Boulevard.

Current Use of Property

The SITE is currently occupied by DeVry University a computer training school and the adjoining parking lots.

Site Structures, Roads and Other Improvements

The SITE is currently occupied by DeVry University, a two-story 106,000 square foot building on approximately 15.25 acres of land with several parking lots. West Hills Corp Pointe commercial center is to the north, Fallbrook Avenue is to the east, Roscoe Boulevard is to the south and residential development is to the west.

Current Uses of Adjoining Properties

At present, West Hills Corp Pointe commercial center is to the north with the remainder of the surrounding area predominately residential development. West Hills Corp. Pointe used to be the Hughes Missile System Company complex.

Site Plan

A site plan sketch is included in Exhibit B showing the general layout of the properties.

III. USER PROVIDED INFORMATION

Title Records

No current title records were requested nor provided to Winzler & Kelly Consulting Engineers.

Environmental Liens or Activity and Use Limitations

Mr. Kenneth Katich of Trammell Crow Company the representative of MEPT West Hills, LLC, the potential buyer reported that to the best of their knowledge, there are no pending, threatened or past litigation, administrative proceedings, liens, or notices from any governmental entity regarding possible violation of environmental laws or possible liability regarding hazardous substances or petroleum products.

Specialized Knowledge

If the *user* is aware of any specialized knowledge or experience that is material to *recognized environmental conditions* in connection with the property, it is the user's responsibility to communicate any information based on such specialized knowledge or experience to the *environmental professional.* No specialized knowledge was reported to Winzler & Kelly.

Valuation Reduction for Environmental Issues

No reduction in value to compensate for environmental issues is known to the Unmack Corporation.

Owner, Property Manager, and Occupant Information

DeVry University is the current owner.

Reason for Performing Phase I

The Phase I Environmental Site Assessment was performed to investigate the site for potential purchase.

Previous Environmental Investigations

There have been numerous environmental investigations of the SITE which was included in the Hughes Missile Systems Company site. Unmack Corp provided Winzler and Kelly with a copy of several reports including the following:

1. *Technical Memorandum Records Review and Limited Site Investigation* performed by Earth Tech, November 28, 1994
2. *Environmental Assessment* performed by Environmental Planning Associates, Inc. August 15, 1996

3. *Traffic Impact Study* performed by Environmental Planning Associates, Inc. August 15, 1996
4. *Report of Geotechnical Investigation* performed by Law Crandall February 6, 1997.
5. *Site Assessment* performed by Fluor Daniel GTI September 2, 1998.

The conclusions and recommendations of these reports are as follows:

1. *Technical Memorandum Records Review and Limited Site Investigation* performed by Earth Tech, November 28, 1994

This report reviewed various records that dealt with the buildings associated with the Hughes Missile Systems Company since the DeVry building was not built until 1999. The impact of the Hughes facility on the subject SITE is the possible groundwater contamination from the previous activities at the Hughes facility. According to records reviewed by Earth Tech at the Los Angeles Regional Water Quality Control Board (LARWQCB) groundwater monitoring wells were installed throughout the Hughes property and the Subject SITE and Quarterly groundwater monitoring was ongoing since 1990.

2. *Environmental Assessment* performed by Environmental Planning Associates, Inc. August 15, 1996.

This report appears to be a documentation of the impact on the surrounding area if the DeVry University site is built.

3. *Traffic Impact Study* performed by Environmental Planning Associates, Inc. August 15, 1996

This report appears to be a documentation of the impact on the surrounding streets and traffic flow if the DeVry University site is built.

4. *Report of Geotechnical Investigation* performed by Law Crandall February 6, 1997.

This report is of the geotechnical investigation for the proposed DeVry facility building. This report dealt with geotechnical aspects of construction of the subject SITE.

5. *Site Assessment* performed by Fluor Daniel GTI September 2, 1998.

This report dealt with additional sampling and analysis of the groundwater monitoring, CM-10 which is the nearest groundwater monitoring well. In previous groundwater monitoring events Freon 11 was found in this groundwater monitoring well. Fluor Daniel GTI's recommendation was to continue quarterly groundwater monitoring until the concentrations of Freon 11 become less than the State Maximum Contaminant Level (MCL) for Freon 11 which is 150 µg/L. Part of this report is included in Exhibit I.

IV. RECORDS REVIEW

Standard Environmental Record Sources

W&K contracted with Environmental Data Resources, Inc. (EDR) to review databases constructed by federal, state, and local regulatory agencies. This review was designed to identify facilities and properties recently or currently under investigation for environmental contamination within a specific radius of the site. Additionally, this search noted any reported hazardous waste sites, landfills, Superfund sites, or businesses generating or treating hazardous wastes within the radius area. Finally, records of spills and other types of releases of hazardous materials were reviewed for properties within a smaller radius.

W&K does not assert to the completeness or accuracy of the database report. Our review is therefore only as current and accurate as that given in the database report, and this may not represent all known or potential hazardous waste or contaminated sites. Further, there may be errors in the database information reported for a site resulting from a number of different operations involved in processing the search. These errors could result in a site being included in the database due to a similar street name as a street within the search radius, when in fact the site is outside the search distance for the report. Additionally, a site within the search radius may be omitted resulting from errors in the data entry phase of the search process. While W&K periodically reviews the EDR Information database report against another leading vendor's database report for the same site to ensure quality assurance and control, the accuracy and completeness of each report cannot be guaranteed by W&K. *What follows is an interpretation of this information, based on a careful evaluation of the database report, a USGS topographical map, an area street map, knowledge of the region, and professional judgment about potential environmental conditions.* A complete copy of the regulatory agency database search report is included with this report as Exhibit E in the Appendices. The Site Information Map, contained in the database report, illustrate the locations of the site relative to the listed properties that are discussed and reviewed in the following section.

In each case, the radius distance was chosen on the basis of the potential hazards that identified neighboring properties could pose to the SITE, the type of information provided, and the extent of overlap with other, more extensive databases. The resulting database search provided information that meets or exceeds the ASTM requirements. The date of the most recent update for each database is noted parenthetically below, following a description of the database. The name, address, status, and distance from subject site for each site identified by the database are also given.

The results are organized by listing sites, which were identified on a particular database. Since some of the sites appear on more than one database, these sites may be listed more than once.

These sites are listed according to closest proximity relative to the subject site. Further, information on the topographic gradient relative to the subject site is given to aid in the assessment of potential impact to the subject site from groundwater contamination. This information is based on the assumption, as explained in the section on hydrogeology, that the

direction of groundwater flow in the shallow groundwater aquifer generally follows topography. Also, the database report site number is noted parenthetically.

TABLE I	
REGULATORY DATABASES per ASTM 1527-00	
Federal Data Bases	**Search Radius**
National Priorities List (NPL)	One Mile
Proposed NPL	One Mile
Delisted NPL	One Mile
NPL Recovery	Target Property
Comprehensive Environmental Responsibility, Compensation and Liability Information System (CERCLIS)	One-Half Mile
No Further Remedial Action Planned (CERCLIS-NFRAP)	One-Half Mile
Corrective Action Reports (CORRACTS)	One Mile
Resource Conservation and Recovery Information System Transfer, Storage and Disposal Facilities (RCRA TSD)	One-Half Mile
RCRIS Small Quantity Generator (SQG)	One-Quarter Mile
RCRIS Large Quantity Generator (LQG)	One-Quarter Mile
Emergency Response Notification System (ERNS)	Target Property
Facility Index System (FINDS)	Target Property
Hazardous Materials Information Reporting System (HMIRS)	Target Property
Engineering Controls Sites List (US ENG CONTROLS)	One-Half Mile
Sites with Institutional Controls (US INST CONTROLS)	One-Half Mile
Department of Defense Sites (DOD)	One Mile
Formerly Used Defense Sites (FUDS)	One Mile
Superfund (CERCLA) Consent Decrees (CONSENT)	One Mile
A Listing of Brownfields Sites (US BROWNFIELDS)	One-Half Mile
Record of Decision (ROD)	One Mile
Uranium Mill Tailings Sites (UMTRA)	One-Half Mile
Open Dump Inventory (ODI)	One-Half Mile
Toxic Chemical Release Inventory System (TRIS)	Target Property
Toxic Substances Control Act (TSCA)	Target Property
Federal Insecticide, Fungicide & Rodenticide Act (FIFRA/TSCA) Tracking System (FTTS)	Target Property
Section 7 Tracking System (SSTS)	Target Property
PCB Activity Database System (PADS)	Target Property
Material Licensing Tracking System (MLTS)	Target Property
Mines Master Index File (MINES)	One-Quarter Mile
Facility Index System (FINDS)	Target Property
RCRA Administrative Action Tracking System (RAATS)	Target Property
STATE DATA BASES	**Search Radius**
Annual Workplan Sites (AWS)	One Mile
Calsites Database (CAL-SITES)	One Mile
Toxic Pits Cleanup Act Sites (TOXIC PITS)	One Mile
Bond Expenditure Plan (CA BOND EXP. PLAN)	One Mile
No Further Action Determination (NFA)	One-Quarter Mile
Properties Needing Further Action (NFE)	One-Quarter Mile
Unconfirmed Properties Referred To Another Agency (REF)	One-Quarter Mile
School Property Evaluation Program (SCH)	One-Quarter Mile
State Landfill (SWIS)	One-Half Mile
Waste Discharge System (CA WSD)	Target Property
Waste Management Unit Database (WMUDS/SWAT)	One-Half Mile

"Cortese" Hazardous Waste Substances Sites List (CORTESE)	One-Half Mile
Geotracker's Leaking Underground Fuel Tank Report (LUST)	One-Half Mile
Statewide SLIC Cases(SLIC)	One-Half Mile
Active UST Facilities (UST)	One-Quarter Mile
Facility Inventory Database (CA FID UST)	One-Quarter Mile
Hazardous Substance Storage Container Database (HIST UST)	One-Quarter Mile
Recycler Database (SWRCY)	One-Half Mile
Aboveground Petroleum Storage Tank Facilities (AST)	One-Quarter Mile
SWEEPS UST Listing (SWEEPS UST)	One-Quarter Mile
California Hazardous Material Incident Report System (CHMIRS)	Target Property
Proposition 65 Records (NOTIFY 65)	One Mile
Deed Restriction Listing (DEED)	One-Half Mile
Voluntary Cleanup Program Properties (VCP)	One-Half Mile
Cleaner Facilities (CLEANERS)	One-Quarter Mile
Well Investigation Program Case List (WIP)	One-Quarter Mile
San Diego County Hazardous Materials Management Division Database	Target Property
Facility and Manifest Data (HAZNET)	Target Property
Emissions Inventory Data (EMI)	Target Property
TRIBAL RECORDS	**Search Radius**
Indian Reservations (INDIAN RESERV)	One Mile
Leaking Underground Storage Tanks on Indian Land (INDIAN LUST)	One-Half Mile
Underground Storage Tanks on Indian Land (INDIAN UST)	One-Quarter Mile
EDR PROPRIETARY HISTORICAL DATABASES	**Search Radius**
Gas Stations/Dry Cleaners	One-Quarter Mile
Coal Gas	One Mile

Subject Property

The database review indicates that at this time, the SITE is not known to have released hazardous substances, or to currently be under investigation by a state or federal environmental regulatory agency, or to have been a facility involved in generating, treating, or disposing of hazardous waste onsite, or to have stored or used hazardous materials.

Adjoining Properties

The database review indicates that, at this time, there are two properties immediately adjoining the site that are listed as being identified or under investigation by a state or federal environmental regulatory agency, or to have been a facility involved in generating, treating, or disposing of hazardous wastes onsite. In addition to these two sites there are two other sites listed.

Table: AREA WIDE REGULATORY CASES

Site name, address & ID number	*Database(s) & Status*	*Distance & Direct from Subject Site*	*Risk*
Hughes Aircraft Company (Map ID #C9) 8433 Fallbrook Avenue	CERCLIS-NFRAP: No Further Action CORRACTS: RCRA corrective action–low priority RCRA Info: RCRA TSDF closed CORTESE: Cal-EPA listing of leaking UST LUST: solvents –Remedial Action Underway	<0.125 mile north; up gradient Adjoining northern site	Low

Table: AREA WIDE REGULATORY CASES			
Site name, address & ID number	***Database(s) & Status***	***Distance & Direct from Subject Site***	***Risk***
Quest Diagnostics (Map ID B6) 8401 & 8403 Fallbrook Avenue	RCRA Info: Large Quantity Generator; no violations found	<0.125 mile northeast; up gradient	Low
Lakeview Cleaners (Map ID 1) 22736 Roscoe Blvd.	RCRA Info: Small Quantity Generator-No violations found	0.125-0.25 mile southeast; down gradient	Low
LA Fire Station 106 (Map ID A3) 23004 Roscoe Blvd.	RCRA Info: Small Quantity Generator-No violations found HAZNET: Asbestos-containing waste LUST: Diesel- soil only affected	0.125-0.25 mile west; down gradient	Low

Orphan Sites

Two sites were listed as "orphan sites," in other words, there was a lack of available information in the agency databases to precisely identify the site or its location relative to the subject site, other than its shared zip code or city name. However, upon closer review, all sites with open agency files were located beyond the radius search distance from the subject site.

Summary of Database Review

The review of regulatory agency database lists indicates that at this time, the SITE is not known to have released hazardous substances, or to currently be under investigation by a state or federal environmental regulatory agency, or to have been a facility involved in generating, treating, or disposing of hazardous waste onsite, or to have stored or used hazardous materials.

There are two adjoining property: Hughes Aircraft Company located at 8433 Fallbrook Avenue is listed on the CERCLIS-NFRAP list as a site that has been removed and archived from the inventory of CERCLIS sites and the EPA has determined no further action for this site. It is also listed on several other lists including: CORRACTS as a RCRA site with a low corrective action priority; as a RCRA Large Quantity Generator and as a Treatment, Storage, Disposal Facility (TSDF) both of which are now closed; as a LUST site from the numerous underground storage tanks that had leaked but now have been removed with groundwater monitoring wells in place. The second adjoining site is Quest Diagnostics located at 8401 and 8403 Fallbrook Avenue and is listed as a large quantity generator with no violations.

Two other properties were listed: Los Angeles Fire Station #106 located at 23004 Roscoe Boulevard. is listed as a Small Quantity Generator of hazardous waste with the waste being asbestos-containing materials that had been removed and it is listed on the LUST list as a site with a leaking underground storage tank that leaked diesel fuel but only affected the soil. The second site listed is the Lakeview cleaners located at 22736 Roscoe Boulevard is listed as a RCRA Small Quantity Generator of hazardous waste from dry cleaning

Physical Setting

General property information and property use are summarized in Table 2. Refer to the Vicinity Map (included in Exhibit A).

TABLE 2	
Summary of Property Information	
Topographic Map:	Canoga Park/Calabasas
Topography:	Slopes to the southeast at approximately 25 feet per mile.
General Location:	The northwest corner of Roscoe Boulevard and Fallbrook Avenue in West Hills, California
Assessor's Parcel Numbers:	2005-002-001
Regional Groundwater Flow Direction:	South / southeast
Existing use:	DeVry University computer training school

An Assessor's Parcel Map is included in Exhibit H.

Site Geology

Regionally, the SITE is mapped as being underlain by primarily consolidated bedrock of the Miocene Modelo Formation (Geological Map of California). This formation consists of tan to grayish siltstone, clayey siltstone and shale with minor interbedded diatomaceous shale. The SITE is located upon recent alluvium and stream bed deposits that make up the valley fill and outwash from the nearby surrounding hills and mountains. The Modelo Formation is believed to be present below the valley fill. Ground water has historically been used for private and agricultural purposes.

Site Geohydrology

The SITE is located within the Central Basin of the Los Angeles County Groundwater Basin as shown in the Hydrologic Report of the Los Angeles County Department of Public Works (1989). The SITE is located within the San Fernando Ground Water Basin of the South Coast Hydrologic Region as shown in the Hydrologic Report of the State of California Bulletin No. 118 (2003). The Chatsworth Creek Channel is located approximately one-quarter mile to the west of the SITE.

Groundwater Well Information

According to the most recent available well data records that were obtained on July 25, 2006 from Carnie with the Los Angeles County Department of Public Works (LACDPW), Hydraulic/Water Conservation Division, the closest active groundwater well to the SITE, Well # 4699, is located southeast at Valerio Street and Glade Avenue, which is approximately one and one-half miles southeast of the SITE. The depth to groundwater at this well was last recorded on May 8, 2006 as being 21.3 feet below ground surface. The ground surface elevation at that location is 807.7. Therefore, the water surface level is at 786.4 feet above Mean Sea Level. The shallow groundwater gradient would be expected to follow the local topographical gradient, which is to the southeast.

The depth to groundwater recorded in the well data is *generally not* the first encountered groundwater. It is the depth to the main potable, or deep, aquifer. As a general rule, topography is often indicative of the groundwater flow direction for the perched aquifer, or the first encountered groundwater. Local groundwater contamination usually affects this shallow-level aquifer.

In the evaluation of the regulatory records, the hydrogeologic conditions of a listed property relative to the subject site is given to aid in the evaluation of the potential hazard or

threat to the subject site of groundwater contamination from the listed site. In this evaluation, it is assumed that the shallow-level aquifer follows topography. Reference to the hydrogeologic conditions is given by stating the relationship of the listed site, either up-, down-, or cross-gradient relative to the site. There is a greater threat of migration of contaminated groundwater when the listed site is up-gradient versus down or cross-gradient from the site. Further, the threat decreases with distance from the listed site.

Historical Use Information on the Property

Building Records

A request for information with regards to the building records was made at the City of Los Angeles Building and Safety. These records showed the following highlights:

Date	Type of Permit	Activity	Owner
01/10/1952	Building	Erect a new single family house	Mr. & Mrs. Thomas R. Dempsey
07/16/1998	Building	Demo dwelling and garage	DeVry Inc.
08/06/1998	Building	Erect a school building	DeVry Inc.

Copies of some of these permits are included as Exhibit D.

Aerial Photo Review

Aerial photos of the site were reviewed for the period from 1928 through 2002 at the collection of Environmental Date Resources (EDR). Highlights include:

Date	Site Description
1928	The SITE consists of agricultural land. The main street of Roscoe Boulevard is in place A creek appears to in place west of the SITE.
1938	The SITE is unchanged; Fallbrook Avenue is in place to the east.
1947	Same as previous.
1956	Same as previous
1965	The SITE is now graded vacant land.
1976	Same as previous
1989	The eastern side of the SITE is now a baseball field. The remainder of the SITE is still vacant.
1994	Same as previous
2002	The SITE has the current building and parking lots on it.

Sanborn Insurance Maps

Historical Sanborn fire insurance maps were not available for the SITE or the surrounding area in the EDR collection for the period covering the years 1894 – 1970.

Division of Oil, Gas and Geothermal Resources Records

A review of California Department of Conservation, Division of Oil, Gas and Geothermal Resources Map Website indicates that there were no oil wells located within one

mile of the SITE. However, it is possible that wildcat drilling may have occurred in the area in the past.

Historical Use Information on Adjoining Properties

Aerial photos of the site were reviewed for the period from 1938 through 2002 at the collection of Environmental Date Resources (EDR). Highlights include:

Date	Surrounding Site Description
1928	The surrounding area consists of agricultural land. The main street of Roscoe Boulevard is in place A creek appears to in place west of the SITE. The Chatsworth Reservoir is visible to the far north.
1938	Same as previous. Fallbrook Avenue is now in place to the east.
1947	Same as previous. There is a road in place that surrounds the northern property.
1956	The northern property now has a small building in the center of it and another building to the east of the center building. The surrounding area is still agricultural land.
1965	The northern adjoining property (Hughes Missile Systems Company) is now built. There is residential development to the south and east of the SITE.
1976	Same as previous
1989	Same as previous with heavy residential development in all directions.
1994	Same as previous
2002	Same as previous

Sanborn Insurance Maps

Historical Sanborn fire insurance maps were not available for the SITE or the surrounding area in the EDR collection for the period covering the years 1894 – 1970.

Summary of Historical Use Information

Site history information was obtained from aerial photographs and City of Los Angeles Building and Safety permits. The aerial photographs indicate the SITE had been agricultural land from at least 1928 until 1989 when the eastern portion was a baseball field. In 1999 the current building and parking lots were constructed.

Historical Use Information Sources

- City of Los Angeles Building & Safety Department, July 25, 2006.
- EDR Aerial Photography, aerial photos from 1928-2002, reviewed July 26, 2006.

Environmental Setting Sources

- EDR Historical U.S. Geological Survey, Canoga Park, California quadrangle, 1967.
- California Department of Water Resources. *State of California Bulletin 118 (2003).*
- Assessor's Parcel Map

V. SITE RECONNAISSANCE

Methodology and Limiting Conditions

The methodology used to observe the site was to walk the entire site, both interior and exterior areas, and to observe the adjoining properties from public areas, i.e., sidewalks and streets.

General Site Setting

Current Use of the Property

Ms. Candice M. Cassato of Winzler and Kelly performed a site walk investigation of the site on the morning of July 24, 2006. The weather was sunny and hot. The temperature was in the low 90s (F). Access to the site was unimpeded.

The site is currently occupied by a 106,190 square feet two-story steel and glass building on 15.25 acres of land which is primarily asphalt-paved parking lots. The building is currently occupied by DeVry University a computer training school. The SITE is bounded by Fallbrook Avenue on the east, Roscoe Boulevard on the south, residential development to the west and West Hills Corp Pointe commercial development (formerly Hughes Missile Systems Company) on the north. Photographs taken during the site walk are included as Exhibit C.

Past Use of the Property

The aerial photographs indicate the SITE had been agricultural land from at least 1928 until 1989 when the eastern portion was a baseball field. In 1999 the current building and parking lots were constructed.

Current Uses of Adjoining Properties

Table 3 summarizes the current roads and site uses observed during the site reconnaissance.

TABLE 3
Adjacent Streets and Property Use

Direction	Adjacent Street	Adjacent Property Use
North	None	West Hills Corp Pointe
East	Fallbrook Avenue	Residential
South	Roscoe Boulevard	Residential
West	None	Residential

Past Use of Adjoining Properties

Based on the aerial photos and other information, the adjoining properties had been agricultural land from 1928 to 1965.

Current or Past Uses in the Surrounding Area

Generally the area has been agricultural land from at least 1928 to 1965.

TABLE 4 Summary of Site Reconnaissance		
Feature	**Observed**	**Not Observed**
Structures (existing)	X	
Evidence of past uses		X
Hazardous Substances and/or petroleum products (including containers)	X	
Aboveground storage tanks (ASTs)		X
Underground storage tanks (USTs) or evidence of USTs		X
Strong, pungent, or noxious odors		X
Pools of liquid likely to be hazardous materials or petroleum products		X
Drums / Areas of Storage containers	X	
Unidentified substance containers		X
Pad-mounted transformer/Pole-mounted transformer	X	
Subsurface hydraulic equipment		X
Heating/ventilation/air-conditioning (HVAC)	X	
Stains or corrosion on floors, walls, or ceilings		X
Floor drains and sumps		X
Pits, ponds, or lagoons		X
Stained soil and or/pavement		X
Stressed vegetation		X
Waste or wastewater discharges to surface or surface waters on subject site (including stormwater)		X
Wells (irrigation, domestic, dry, injection, abandoned, monitoring wells)	X	
Utilities	X	
Petroleum and/or natural gas pipelines		X
Suspect asbestos containing building materials	X	
Suspect lead-based painted surfaces and/or lead-containing substances	X	
Septic systems		X

General Description of Structures

The site is currently occupied by a 106,190 square feet two-story steel and glass building on 15.25 acres of land which is primarily asphalt-paved parking lots. The building is currently occupied by DeVry University a computer training school. The 1st floor consists primarily of classrooms with a cafeteria and the 2nd floor is offices.

Roads

Fallbrook Avenue is directly east and adjoining to the SITE. Roscoe Boulevard is directly south and adjoining to the SITE. Valley Circle Boulevard is approximately two miles to the west. The Chatsworth Reservoir is to the north. All streets are within the community of West hills in the City of Los Angeles, California.

Potable Water Supply

The City of Los Angeles Department of Water and Power (LACDWP) is the provider of potable water for the site and surrounding area.

Interior and Exterior Observations

Hazardous Substances and Petroleum Products in Connection with Identified Uses

There is one diesel powered emergency generator observed in the pump room on the 1st floor. No stains or spills were observed. There are two other battery operated emergency

backup lighting systems. No stains or spills were observed. The maintenance room had several five gallon paint containers and other small quantities of lubricating oils and maintenance supplies. The room is kept locked. There is a locked cleaning supply room; the cleaning itself is performed by an outside contractor. The HVAC equipment is located on the roof; all areas were observed to be clean and free of stains or spills at the time of the SITE visit.

PCBs

Transformers, elevators, hydraulic lifts, and fluorescent lighting ballasts are potential sources of PCB-containing insulating fluids. One elevator was observed inside the building. It is a hydraulic elevator, however, no stains or spills were observed in the elevator room. One LACDWP pad-mounted transformer was observed on the eastern side of the building. No stains or spills were observed during the SITE visit.

Interior Observations

Hazardous Materials, Hazardous Waste and Petroleum Products

There is one diesel powered emergency generator observed in the pump room on the 1st floor. No stains or spills were observed. There are two other battery operated emergency backup lighting systems. No stains or spills were observed. The maintenance room had several five gallon paint containers and other small quantities of lubricating oils and maintenance supplies. The room is kept locked. There is a locked cleaning supply room; the cleaning itself is performed by an outside contractor.

Asbestos-Containing Materials

Suspect asbestos-containing building materials were observed throughout the building. Materials included wallboard systems, various colored 12" x 12" resilient vinyl floor tiles, vinyl baseboard, 2' x 4' drop-in ceiling panels, carpet mastic and roofing materials. Based on the age of construction, 1999, the potential for asbestos-containing building materials is low.

Lead-Based Paints

No peeling paint was observed either inside or outside the building. Based on the age of construction, 1999, the potential for lead-based paints is low.

PCBs

Transformers, elevators, hydraulic lifts, and fluorescent lighting ballasts are potential sources of PCB-containing insulating fluids. One elevator was observed inside the building. It is a hydraulic elevator, however, no stains or spills were observed in the elevator room. One LACDWP pad-mounted transformer was observed on the eastern side of the building. No stains or spills were observed during the SITE visit.

Exterior Observations

Wells

There were three groundwater monitoring wells observed in the parking lots. According to the last site assessment report performed in 1998, these wells were to be monitored on a quarterly basis.

VI. INTERVIEWS

Interview With Owner

Mr. Kenneth Katich, the Project Manager for Trammell Crow Company, was interviewed on July 24, 2006. Mr. Katich has been associated with the SITE for more than five years with the SITE. Mr. Katich answered the Transaction questionnaire which is included in Exhibit G.

Proceedings Involving the Property

Mr. Katich reported that to the best of his knowledge, there are no pending, threatened or past litigation, administrative proceedings, liens, or notices from any governmental entity regarding possible violation of environmental laws or possible liability regarding hazardous substances or petroleum products.

Previous Environmental Investigations

There were five previous Environmental Reports given to W&K and are detailed in Section III.

Interview with Site Manager

Mr. Katich is the on-site manger of the SITE.

Interviews with Local Government Officials

Los Angeles Regional Water Quality Control Board (LARWQCB)

A written request for information was faxed to the Los Angeles Regional Water Quality Control Board with regards to the groundwater monitoring wells observed on the SITE. To date, there has been no response from LARWQCB. Should any negative environmental information be obtained from any files the LARWQCB might have, an addendum letter will be issued to the client from W&K.

City of Los Angeles Fire Department Hazardous Materials Division

A written request for information was faxed to the City of Los Angeles Fire Department, Hazardous Materials Division with regards to the SITE address. There are no records for the SITE address. The request and response documentation is included in Exhibit G.

City of Los Angeles Fire Department Underground Storage Tank Division

A written request for information was faxed to the City of Los Angeles Fire Department, Underground Storage Tank Division with regards to the SITE address. There are no records for the SITE address. To date, there has been no response from Fire Department. Should any negative environmental information be obtained from any files the Fire Department might have, an addendum letter will be issued to the client from W&K. The request documentation is included in Exhibit G.

VII. CONCLUSIONS AND RECOMMENDATIONS

Conclusions

Winzler & Kelly Consulting Engineers (W&K) was retained by Unmack Corporation to perform a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-00 at the DeVry University located at 22801 Roscoe Boulevard in West Hills, California 91304 herein referred to as the SITE. Any exceptions to, or deletions from, this practice is described in Section I of this report.

This assessment has revealed no evidence of recognized environmental conditions (RECs) in connection with the SITE.

In conclusion, the SITE presents evidence of low environmental risk, stemming from any undocumented underground storage tanks (USTs), underground piping and the former adjoining northern property previously owned and occupied by Hughes Missile System company.

Based on the results of the Phase I Environmental Site Assessment, W&K recommends the following:

- A closure letter should be obtained from the Los Angeles Regional Water Quality Control Board (LARWQCB) regarding the four groundwater monitoring wells located on the SITE if these wells are considered to be a no further action activity.

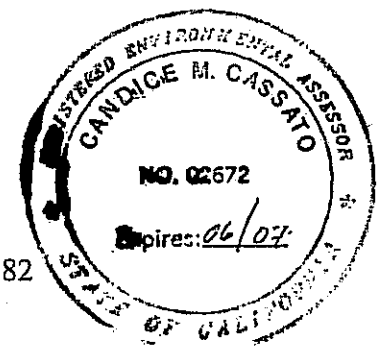
- Prior to any renovation or demolition of the current building, a Hazardous Materials Survey should be performed to determine, if any, hazardous substances such as asbestos-containing substances or lead-based substances are present in the building.

VIII. SIGNATURE AND QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL

Qualifications

Ms. Candice M. Cassato, an Environmental Analyst of W&K, directed the performance and reporting of this Phase I Environmental Site Assessment. Ms. Cassato has performed environmental site assessments and project management since 1989. Ms. Cassato is an experienced auditor, performing evaluations of facilities ranging from office buildings to industrial factories to assess their compliance with all applicable health, safety, and environmental standards. She has conducted audits throughout the western United States. She has performed Phase I Environmental Site Assessments for property transfers and financing, prepared independent reviews of Phase I reports, and managed asbestos surveys. Ms. Cassato is a California Certified Asbestos Consultant and a California Certified Lead-Related Construction Inspector/Assessor.

Signature of Environmental Professional



Report prepared by:

Candice M Cassato

Candice M. Cassato, REA #2672, Certified Asbestos Consultant No. 94-1382
Certified Lead-Related Construction Inspector/Assessor No. I-2817

Report reviewed by:

Michael C Legerski

Michael Legerski, MSIH
Managing Principal

APPENDICES

Exhibit A.	**Topographic Site Map**
Exhibit B.	**Site Plot Plan**
Exhibit C.	**Photographs Taken During Site Walk**
Exhibit D.	**City of Los Angeles Building and Safety permits**
Exhibit E.	**Government Records Data Base Search and Radius Site Map**
Exhibit F.	**Transaction Questionnaire**
Exhibit G.	**City of Los Angeles Fire Dept. Responses**
Exhibit H.	**Assessor's Parcel Map**
Exhibit I.	**Flour Daniel GTI Report**

Exhibit A. Topographic Site Map

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 06/26/2006
Next Scheduled EDR Contact: 09/25/2006
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 916-542-5424
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-4130
Last EDR Contact: 05/08/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Varies

LUST REG 7: Leaking Underground Storage Tank Case Listing

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-346-7491
Last EDR Contact: 05/22/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-346-7491
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Date of Government Version: 04/01/2006
Date Data Arrived at EDR: 04/27/2006
Date Made Active in Reports: 05/26/2006
Number of Days to Update: 29

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 07/07/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 05/15/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-576-2220
Last EDR Contact: 05/22/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 07/10/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SLIC: Statewide SLIC Cases

The Spills, Leaks, Investigations, and Cleanups (SLIC) listings includes unauthorized discharges from spills and leaks, other than from underground storage tanks or other regulated sites.

Date of Government Version: 04/10/2006
Date Data Arrived at EDR: 04/11/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-341-5752
Last EDR Contact: 07/12/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 07/10/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 05/15/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/24/2006
Next Scheduled EDR Contact: 10/23/2006
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 07/06/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 04/06/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 05/31/2006
Date Data Arrived at EDR: 06/01/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 14

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 05/30/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Annually

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 04/10/2006
Date Data Arrived at EDR: 04/11/2006
Date Made Active in Reports: 05/01/2006
Number of Days to Update: 20

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 07/12/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Semi-Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

AST: Aboveground Petroleum Storage Tank Facilities

Registered Aboveground Storage Tanks.

Date of Government Version: 01/30/2006
Date Data Arrived at EDR: 01/30/2006
Date Made Active in Reports: 02/17/2006
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5712
Last EDR Contact: 05/26/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Quarterly

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1980's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 11/30/2005
Date Made Active in Reports: 01/19/2006
Number of Days to Update: 50

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 05/22/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Varies

NOTIFY 65: Proposition 65 Records

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993
Date Data Arrived at EDR: 11/01/1993
Date Made Active in Reports: 11/19/1993
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: No Update Planned

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 04/04/2006
Date Data Arrived at EDR: 04/05/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/06/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Semi-Annually

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 06/06/2006
Date Data Arrived at EDR: 06/07/2006
Date Made Active in Reports: 07/06/2006
Number of Days to Update: 29

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 06/07/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Quarterly

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 04/18/2005
Date Data Arrived at EDR: 04/18/2005
Date Made Active in Reports: 05/06/2005
Number of Days to Update: 18

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 04/30/2006
Date Data Arrived at EDR: 05/04/2006
Date Made Active in Reports: 05/26/2006
Number of Days to Update: 22

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 07/24/2006
Next Scheduled EDR Contact: 10/23/2006
Data Release Frequency: Varies

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 05/17/2006
Date Data Arrived at EDR: 05/17/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 29

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 07/24/2006
Next Scheduled EDR Contact: 10/23/2006
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2003
Date Data Arrived at EDR: 10/11/2005
Date Made Active in Reports: 10/31/2005
Number of Days to Update: 20

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 05/11/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 27

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 07/21/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: Varies

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 05/12/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Semi-Annually

INDIAN LUST: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 09/07/2005
Date Data Arrived at EDR: 09/08/2005
Date Made Active in Reports: 10/31/2005
Number of Days to Update: 53

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Varies

INDIAN LUST: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 03/22/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 22

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 02/20/2006
Next Scheduled EDR Contact: 05/22/2006
Data Release Frequency: Varies

INDIAN UST: Underground Storage Tanks on Indian Land

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 03/22/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 22

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Varies

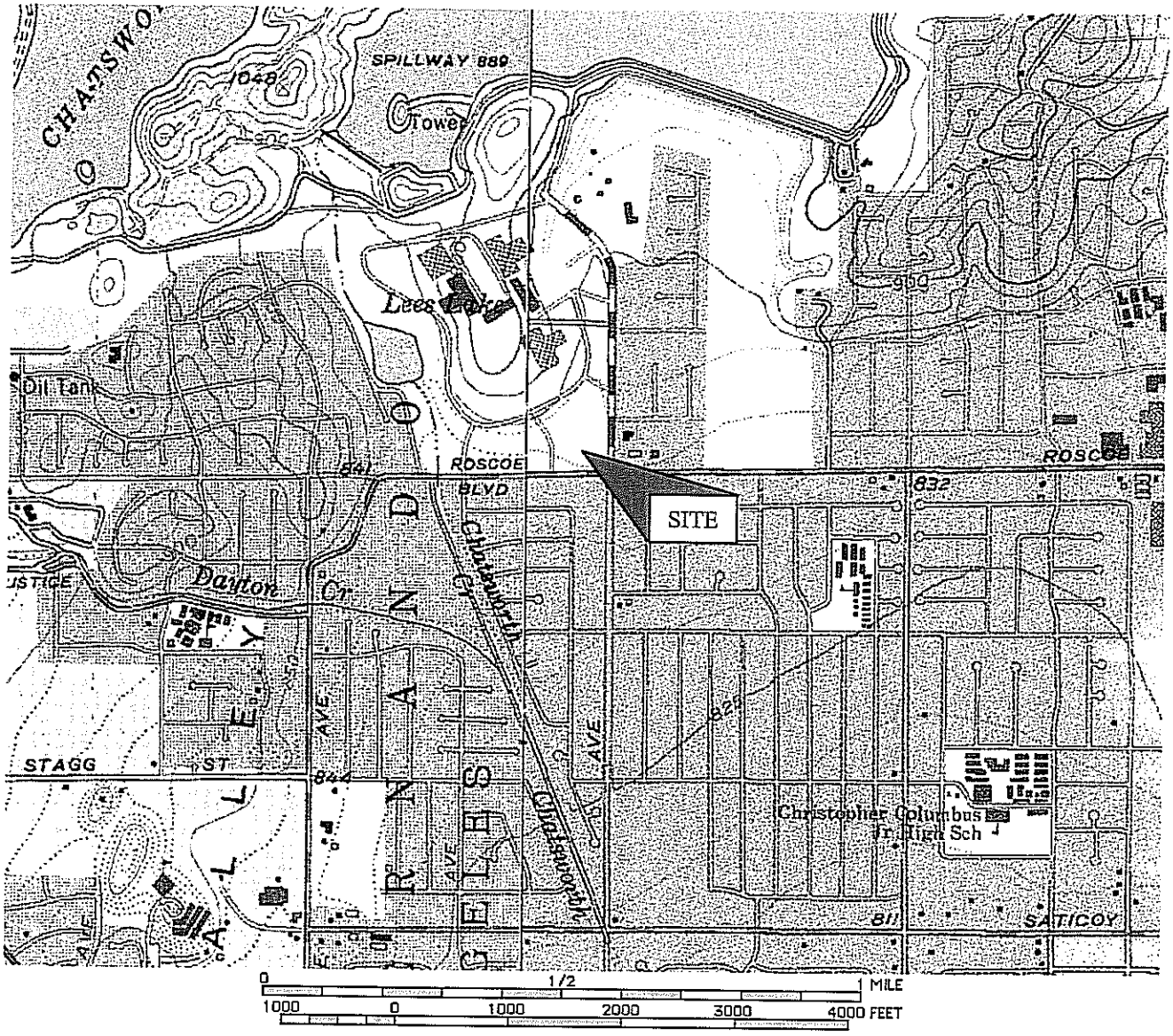


Figure 1: Vicinity Map

WINZLER & KELLY
CONSULTING ENGINEERS

Site Name: DeVry University	Prepared By: Winzler & Kelly Consulting Engineers
Site Address: 22801 Roscoe Blvd., West Hills, CA 91304	Address: 3531 East Miraloma Avenue Anaheim, CA 92806

Exhibit B. Site Plot Plan

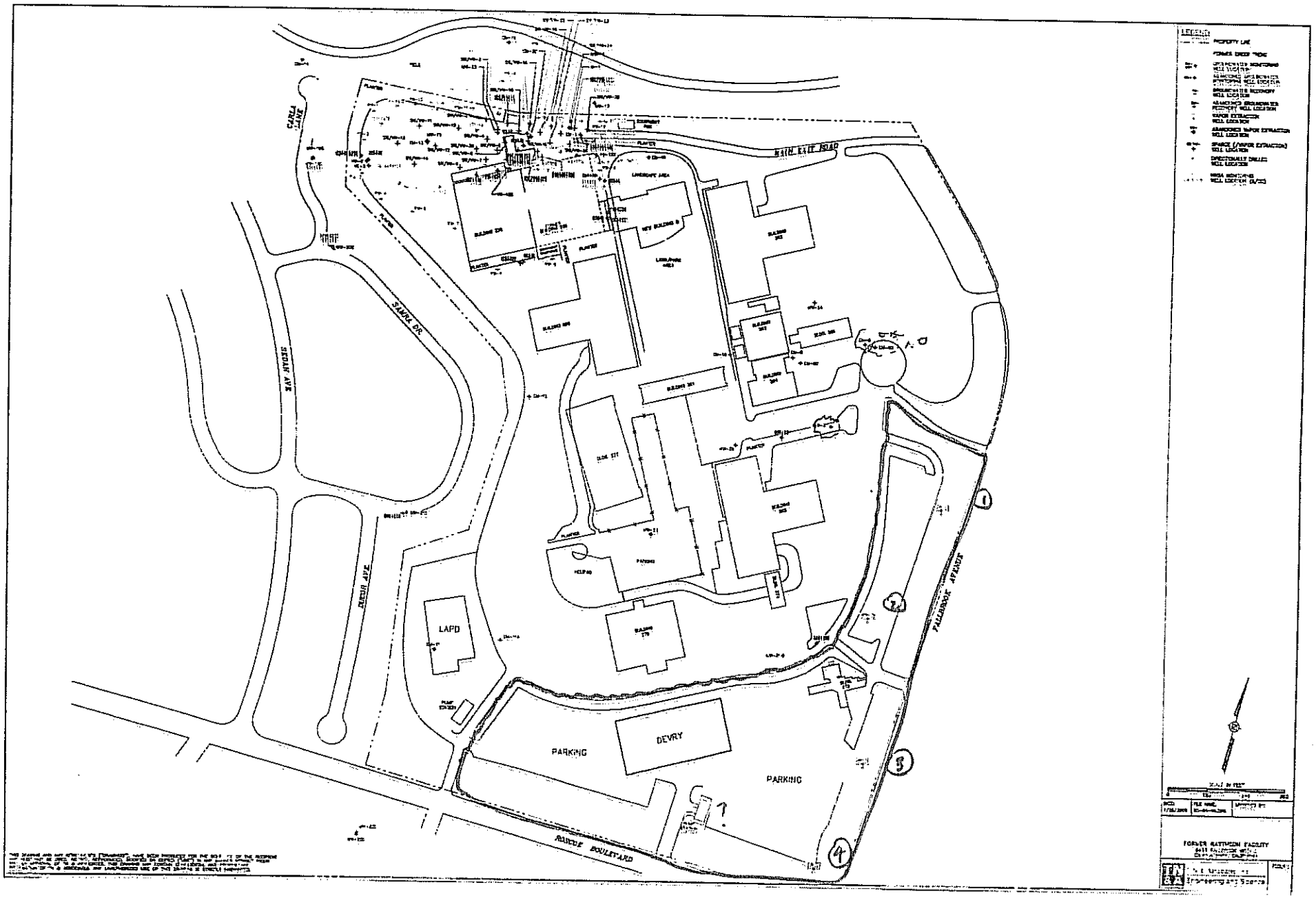

LEGEND
PROPERTY LINE
FORMER GATEWAY FACILITY
CARSON LANE
MAIN GATE ROAD
SAMUEL DR.
MAIN AVE.
ARCOLA AVE.
LAPD
PARKING
DEVRY
PARKING
RUSSELL BOULEVARD
PALLADIUM AVENUE
1
2
3
4

Exhibit C. Photographs Taken During Site Walk



1. View of the front entrance to DeVry University.



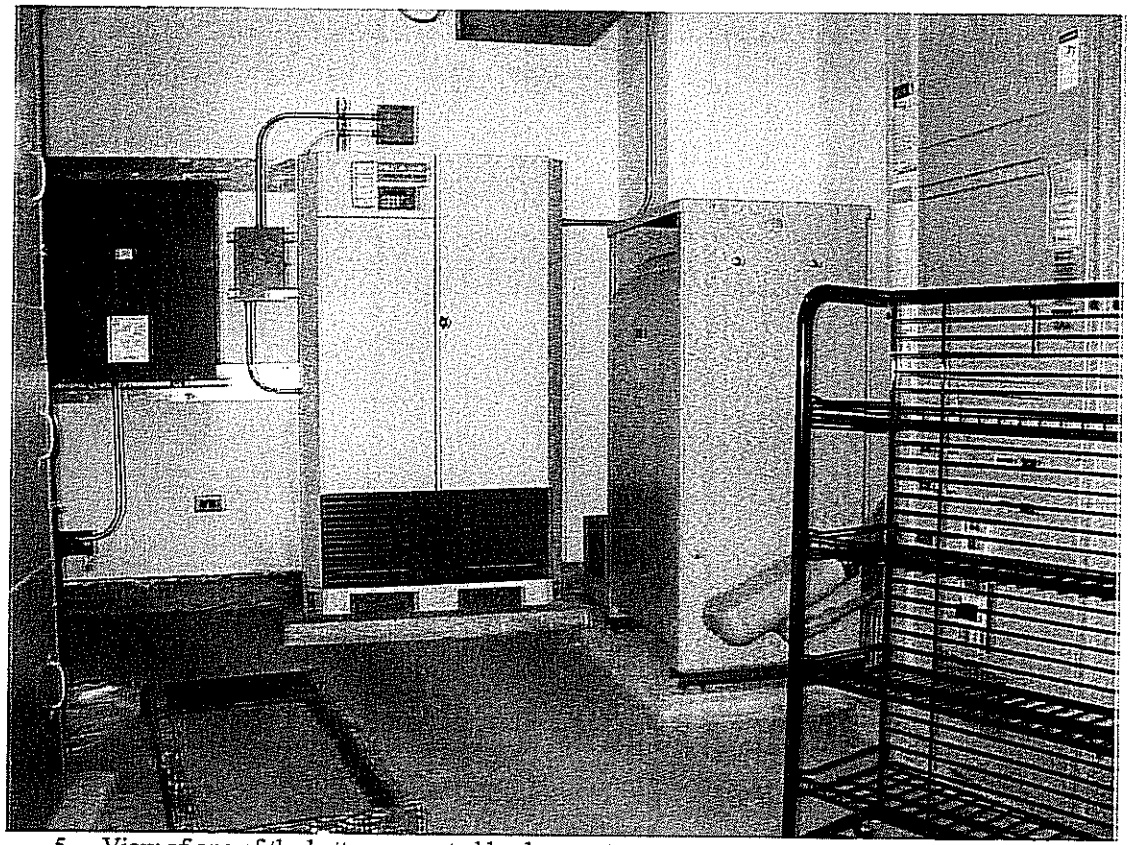
2. View of the eastern side of the front of the SITE building.



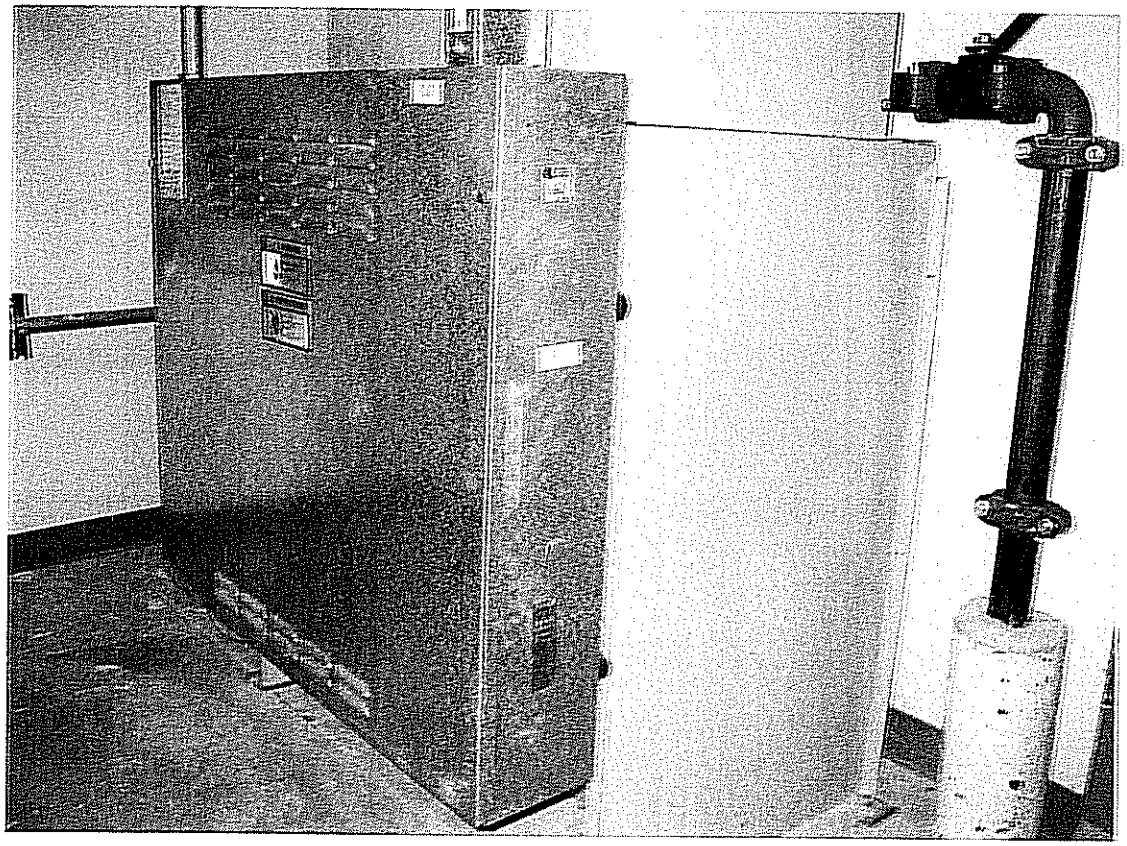
3. View of a typical hallway.



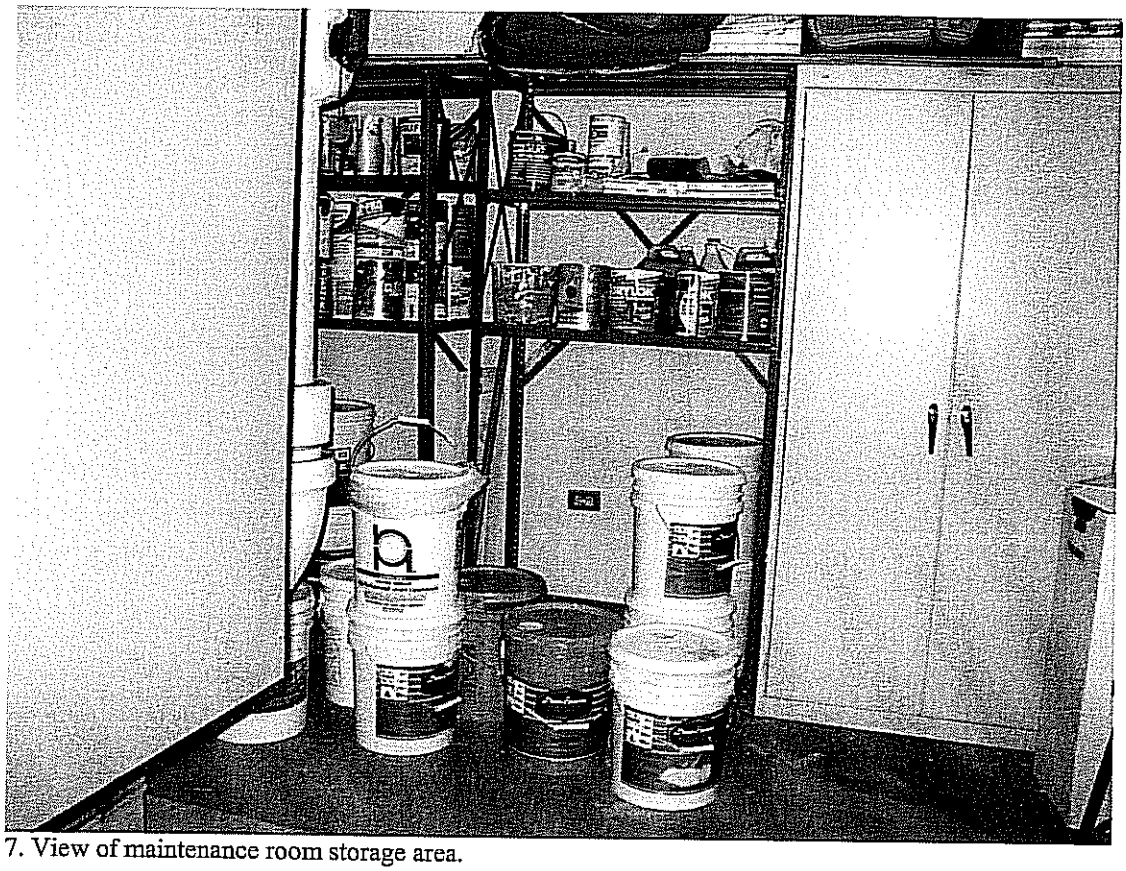
4. View of a typical classroom.



5. View of one of the battery operated backup systems.



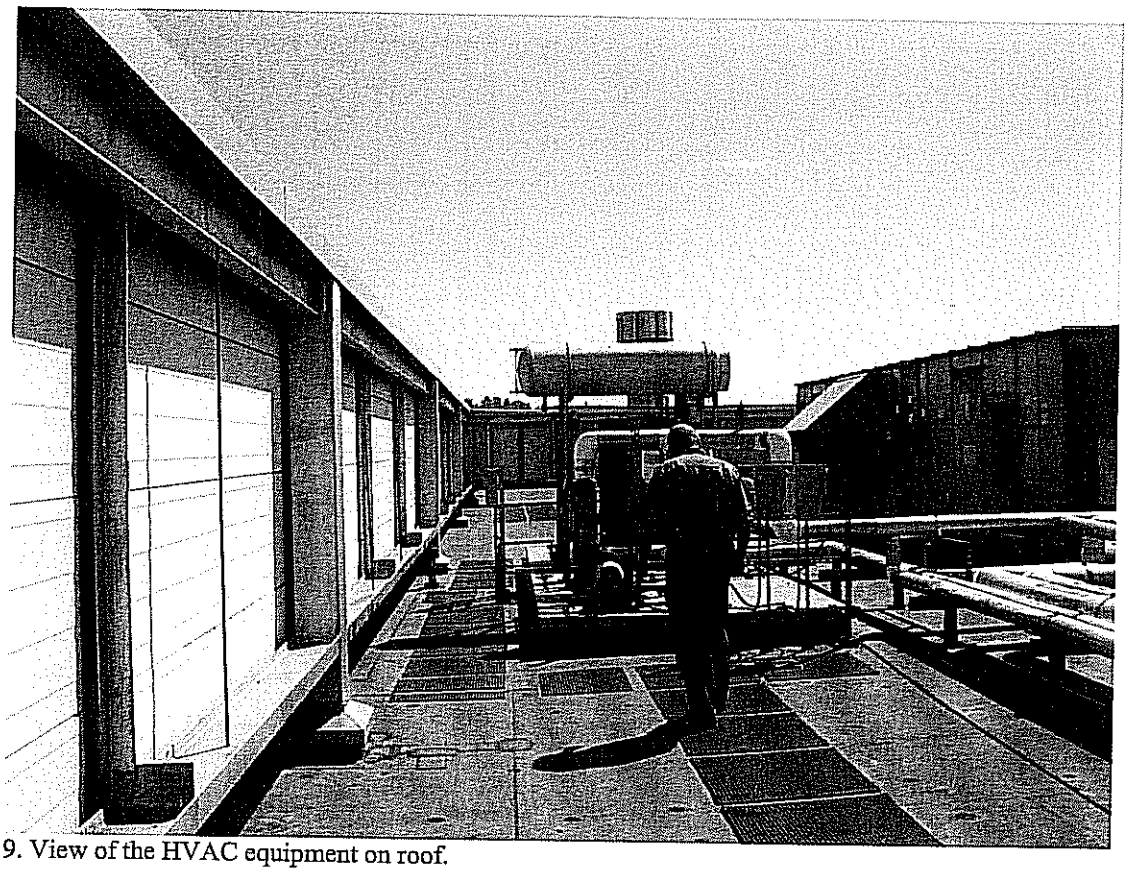
6. View of emergency generator.



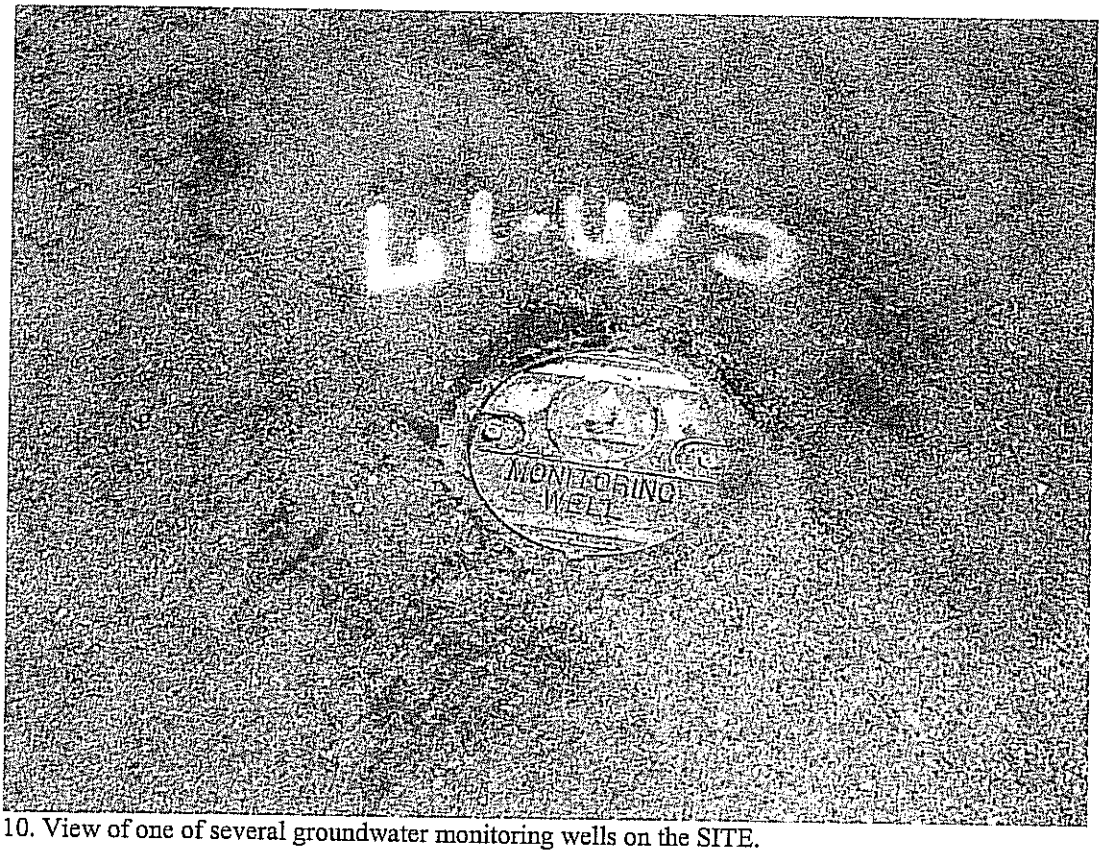
7. View of maintenance room storage area.



8. View of cleaning materials locked storage room.



9. View of the HVAC equipment on roof.



10. View of one of several groundwater monitoring wells on the SITE.

Exhibit D. City of Los Angeles Building & Safety Permits

1

APPLICATION TO ERECT A NEW BUILDING AND FOR A Certificate of Occupancy

Form B-1

CITY OF LOS ANGELES
DEPARTMENT OF BUILDING AND SAFETY
BUILDING DIVISION

Lot No. FOR LEGAL DESCRIPTION SEE APPLICATION 2 OF 5

Tract

Location of Building 22801 ROSCOE BLVD (House Number and Street)

Between what cross streets? JONATHAN + FALLBROOK

Approved by City Engineer

Deputy.

USE INK OR INDELIBLE PENCIL

1. Purpose of building DWELLING # 2 (State: Dwelling, Apartment House, Hotel or other purpose) Families 1 Rooms 4
2. Owner MR & MRS THOMAS R DEMPSEY (Print Name) Phone AR 36556
3. Owner's Address 13151 SUNSET BL P. O. L A
4. Certificated Architect None State License No. Phone
5. Licensed Engineer John E. Mackel State License No. 3701 Phone
6. Contractor Owner State License No. Phone
7. Contractor's Address
8. VALUATION OF PROPOSED WORK (Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electrical wiring and elevator equipment therein or thereon.) $ 7000.00 J.A.M. 8,500
9. State how many buildings NOW on lot and give use of each None (Store, Dwelling, Apartment House, Hotel or other purpose)
10. Size of new building 35 x 46 No. Stories 1 Height to highest point 15 Size lot 88 Acres
11. Material Exterior Walls Frame & Siding Type of Roofing Shakes
12. For Accessory Buildings and similar structures:
    (a) Footing: Width 12 Depth in Ground 12 Width of Wall 6
    (b) Size of Studs 2 x 4 Material of Floor Wood
    (c) Size of Floor Joists 2 x 6 Size of Rafters 2 x 4

I hereby certify that to the best of my knowledge and belief the above application is correct and that this building or construction work will comply with all laws, and that in the doing of the work authorized thereby I will not employ any person in violation of the Labor Code of the State of California relating to Workmen's Compensation Insurance.

Sign here Thomas R Dempsey (Owner or Authorized Agent)

By John E Mackel

DISTRICT OFFICE V. N.

3 of 5

FOR DEPARTMENT USE ONLY

PLAN CHECKING

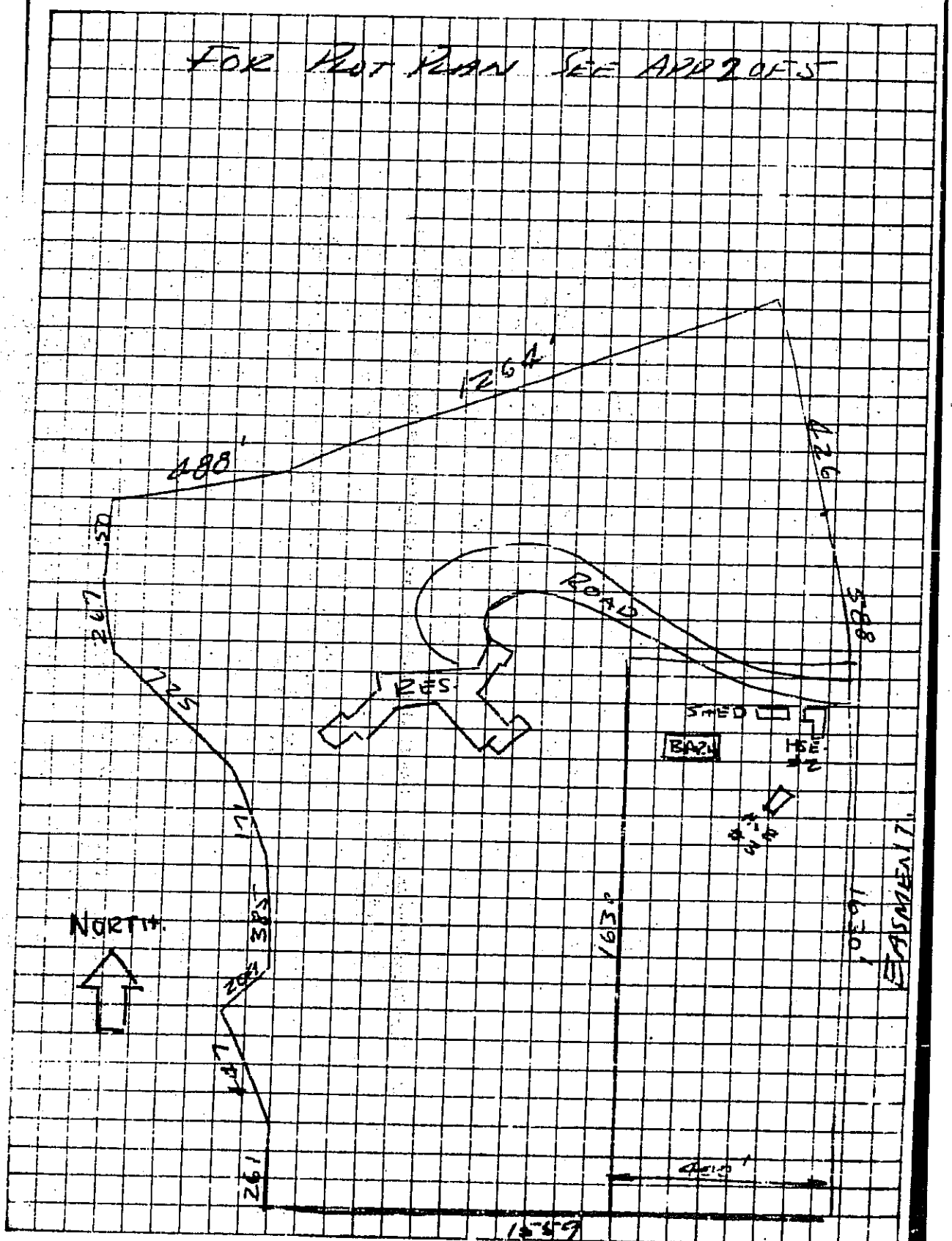
Valuation $ 52,000 Fee $ 75.00 $ $

Investigation Fee $
Bldg. Permit Fee $ 75.00
Total $

TYPE V	Maximum No. Occupants	Inside Lot Corner Lot	Key Lot Average Corner Lot Key:	Lot Size Irreg	Ft. rear alley Ft. side alley	Checked by J.A.M.
GROUP R-1	Plans and Specifications checked J.A.M.		Zone A1	Fire District No.	District Map No. 7510	
New Plans Fee	Correction Verified		Bldg. Line — Ft.	Street Widening — Ft.	Approved for Issuance 4 1957	
Filed with	Plans, Specifications and Application Examined and approved.		Preliminary Inspection	SPRINKLER Specified—Required Valuation Included Yes No	Inspector	Clerk

DO NOT WRITE BELOW THIS LINE

TYPE OF RECEIPT	DATE ISSUED	TRACER NO.	RECEIPT NO.	CODE	FEE PAID
Plan Checking			LA 4723		
Supplemental Plan Checking					
Building Permit	APR 10 '57				


FOR PLOT PLAN SEE APP 2 OF 5
1264'
488'
426'
ROAD
RES.
SHED
BARN
HSE. #2
163'
EASEMENT
16.50'
NORTH
ROSCOE BLVD.

DESCRIPTION OF PROPERTY OWNED
BY T. R. DEMPSEY ON WHICH
TWO HOUSES ARE TO BE LOCATED

Beginning at the westerly terminus of the course given as North 73° 00' East 1400 feet in the deed to the Board of Public Service Commissioners of the city of Los Angeles, recorded in book 43, page 16 of Official Records of said county; thence North 73° 00' East 1264.20 feet along said course to the westerly line of the 25 foot easement as granted to the City of Los Angeles, in the deed recorded in book 11522, page 156 of Official Records of said county; thence South 47° 56' 11" East 426.53 feet along the westerly line of said easement, to the beginning of a curve concave southwesterly having a radius of 703.70 feet; thence southerly on the arc of said curve 588.78 feet, which is the true point of beginning; thence South 0° 0' 10" West 1630.11 feet along said westerly line to the northerly line of Roscoe Boulevard; thence South 89° 03' 20" West 400 feet along said northerly line; thence North 0° 0' 10" East 1630.11 feet; thence North 89° 03' 20" East to the true point of beginning.

(The true point of beginning is 1630.11 feet North 0° 00' 10" East of the northerly line of Roscoe Boulevard.)

14-3473

APPLICATION TO ERECT A NEW BUILDING AND FOR A Certificate of Occupancy

Form B-1

CITY OF LOS ANGELES
DEPARTMENT
OF
BUILDING AND SAFETY
BUILDING DIVISION

No.

ct

ation of Building 2280 Roscoe Bl.
(House Number and Street)

Approved by City Engineer

ween what cross streets? N.W. Cor. Roscoe & Fallbrook

Deputy.

E INK OR INDELIBLE PENCIL

Purpose of building Swimming Pool- Private Families Rooms
(Store, Dwelling, Apartment House, Hotel or other purpose)

Owner T. R. Dempsey Phone
(Print Name)

Owner's Address 2280 Roscoe Bl. P. O.

Certificated Architect None State License No Phone

Licensed Engineeer Willis Albery State License No. 6336 Phone CH 68481

Contractor London Inc. State License No. 372?2 Phone ST 81191

Contractor's Address 5920 Sepulveda Blvd.

VALUATION OF PROPOSED WORK (Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electrical wiring and elevator equipment therein or thereon) $ 3000.00

State how many buildings NOW on lot and give use of each Dwelling & Garage
(Store, Dwelling, Stables, House, Hotel or other purposes)

Size of new building 20', 40' No. Stories Height to highest point Size lot x

Material Exterior Walls Pneumatically Applied Concrete Type of Roofing

Accessory Buildings and similar structures
(a) Footing, Width Depth in Ground Width of Wall
(b) Size of Studs Material of Floor
(c) Size of Floor Joists x Size of Rafters x

I hereby certify that to the best of my knowledge and belief the above application is correct and that this building or construction work will comply with all laws, and that in the doing of the work authorized thereby I will not employ any person in violation of the Labor Code of the State of California relating to Workmen's Compensation Insurance.

Sign here London Inc.
(Owner or Authorized Agent)

By D. O'Kelly

FOR DEPARTMENT USE ONLY

PLAN CHECKING

Valuation $ $
$ $

Investigation Fee $
Bldg. Permit Fee $
Total $ 12.00

TYPE	Map Book No. Dedicated	Existing Lot	Key Lot	Lot Size	Ft. rear alley / Ft. side alley	Clerk
GROUP	Plans and Specifications Checked	Corner Lot	Corner Lot Key No.	Fire District		
			A-1	No.	District Map No. 7510	
No. Plans Rec'd	Correction Verified		Bldg. Line	Street Widening	Application checked and approved	
Fee with	Plans, Specifications and Application received and approved		Ft. Continuous Inspection	Ft. SPRINKLER Sprinkler—Required Valuation Included Yes — No	Clerk Inspector	

DO NOT WRITE BELOW THIS LINE

TYPE OF RECEIPT	DATE ISSUED	TRACER NO. (M)	RECEIPT NO.	CODE	FEE PAID
Plan Checking					

PLOT PLAN
SCALE 1" = 40'-0"

22801 Roscoe Blvd

Application #: **98010 - 10000 - 01185**
Plan Check #: CC07492 Printed: 07/25/06 08:12 AM
Event Code:

Bldg-New
Commercial
Regular Plan Check
Plan Check

City of Los Angeles - Department of Building and Safety

APPLICATION FOR BUILDING PERMIT AND CERTIFICATE OF OCCUPANCY

Issued On: 08/06/1998
Last Status: Permit Finaled
Status Date: 09/16/1999

1. TRACT	BLOCK	LOT(s)	ARB	COUNTY MAP REF #	PARCEL ID # (PIN #)	2. ASSESSOR PARCEL #
PM 7115		LT A		MB 276-1/4	192B097 36	2005 - 002 - 001

3. PARCEL INFORMATION

LADBS Branch Office - VN
Council District - 12
Census Tract - 1132.31
District Map - 192B97
Energy Zone - 9
Fire District - FBZ
Hillside Grading Area - YES
Hillside Ordinance - YES
Lot Size - IRRG
Lot Type - COR
Thomas Brothers Map Grid - 529

ZONE(S): A1-1 /

4. DOCUMENTS

ZA - 15263
ZA - 94-0595
CPC - 20636
CPC - 21216
CPC - 26675
CPC - 87-205
CPC - 9268
AFF - 95-882842

5. CHECKLIST ITEMS

Special Inspect - Anchor Bolts
Special Inspect - Concrete>2.5ksi
Special Inspect - Field Welding
Special Inspect - Grade Beam/Caisson
Special Inspect - Grading:Area>60,000Sqft
Special Inspect - H/S Bolt
Special Inspect - Masonry
Special Inspect - Structural Observation
Fabricator Reqd - Shop Welds

6. PROPERTY OWNER, TENANT, APPLICANT INFORMATION

Owner(s):
Devry Inc. 1 Tower Lane OAKBROOK TERR. ILLINOIS 6018

Tenant:

Applicant: (Relationship: Agent for Owner)
Mehron Ghazanfarpour - Langdon/Wilson 1055 Wilshire Blvd. #1500 LOS ANGELES, CA. 90017 (213) 250-1186

7. EXISTING USE

PROPOSED USE
(18) School Building

8. DESCRIPTION OF WORK

1.NEW 2-STORY TYPE II-N, B & A-3 OCCUPANCY (106,200 SQ. FT.) COMPUTER SCHOOL. GPI & POSTING DONE SEE 98030-10000-00379 NOTE: " CIVIL PLANS ARE FOR REFERENCE ONLY" 2.DEMO PERMIT #98LA76875 3.GRADING PERMIT#98VN39289 4.RET.WALL PERMIT #98VN39287 5."COMMERCIAL KITCHEN" I

9. # Bldgs on Site & Use:

10. APPLICATION PROCESSING INFORMATION

BLDG. PC By: Dean Lee
DAS PC By: Peter Lam
OK for Cashier: Dean Lee
Coord. OK:
Signature:
Date:

For information and/or inspection requests originating within LA County,
Call toll-free (888) LA4BUILD (524-2845)
Outside LA County, call (213) 482-0000 or visit www.ladbs.org

For Cashier's Use Only W/O #: **81001185**

11. PROJECT VALUATION & FEE INFORMATION Final Fee Period

Permit Valuation: $9,250,000 PC Valuation:

NAL TOTAL Bldg-New	72,455.27	Permit Issuing Fee	0.00
rmit Fee Subtotal Bldg-New	33,421.06		
Energy Surcharge			
Handicapped Access			
pp. Plan Check	0.00		
an Maintenance	300.00		
Fire Hydrant Refuse-To-Pay			
E.Q. Instrumentation	1,942.50		
pp. O.S. Surcharge	713.27		
pp. Sys. Surcharge	2,139.81		
Planning Surcharge Misc Fee	5.00		
Supp. Planning Surcharge	1,011.63		
hool District Commercial Area	32,922.00		

ver Cap ID: Total Bond(s) Due:

12. ATTACHMENTS

ot Plan

Payment Date: 08/06/98
Receipt No: LA06-6524
Amount: $72,455.27
Method: Check

1998LA77665



(DO NOT DRAW, WRITE, OR PASTE ATTACHMENTS OUTSIDE BORDER)

PLOT PLAN ATTACHMENT

City of Los Angeles - Department of Building and Safety

Permit Application Number: 98010-10000-01185

Plan Check Number: 98010-10000-01185

Printed on: 06/01/98 10:00:13

COUNCIL DISTRICT: 12

PLOT PLAN ATTACHMENT

NEW 2-STORY SCHOOL STRUCTURE
TYPE II-N WITH OCCUPANCY B, A-3
(106,190 S.F. F.F. ELEV. 853.0')

EXISTING 1-STORY STRUCTURE TO BE REMOVED

EXISTING LOOP DRIVE

EXTEND OF DEMO CONSTRUCTION

DEVP'D NORTH PARKING (N.I.C.)

COMERCIAL PROPERTIES (N.I.C.)

COMERCIAL PROPERTIES (N.I.C.)

RESIDENTIAL PROPERTIES (N.I.C.)

EXIST'G SANITARY EASEMENT

PROP. LINE

474'±

50'

164'

334'

STUDENT PARKING

STAFF PARKING

FUTURE LAPD PROPERTY (N.I.C.)

PROP. LINE

20'

EXIST'G STORM EASEMENT

FALLBROOK AVENUE

RESIDENTIAL PROPERTIES (N.I.C.)

PROP. LINE

55'

ROSCOE BOULEVARD

EXIST'G WATER EASEMENT

RESIDENTIAL PROPERTIES (N.I.C.)

PLOT PLAN
SCALE: 1"=200' ±

TRUE

RESIDENTIAL PROPERTIES (N.I.C.)

RESIDENTIAL PROPERTIES (N.I.C.)

CITY LA DBS
DEPARTMENT OF BUILDING AND SAFETY

There are two ways to request a copy of the document image.
1) By fax using the request form. Click on the following link
http://www.ladbs.org/permits/permit_related_forms/Research_Request_form.pdf to download the request form.
2) In person. Bring the following summary to one of the following Record counters.

COUNTER HOURS

MONDAY, TUESDAY, THURSDAY, FRIDAY: 7:30 AM to 4:30 PM
WEDNESDAY: 9:00 AM to 4:30 PM

Metro	Van Nuys
201, N. Figueroa St. 1st Floor, Room 110 Record Counter Los Angeles,CA 90012	6262 Van Nuys Blvd Record Counter Van Nuys,CA 91401

Address: 22801 ROSCOE BLVD

Document Type	Sub Type	Document Date	Document Number	Reel Batch Frame	
ADMINISTRATIVE APPROVAL	MISCELLANEOUS	10/10/1997		HIST: B0262 006 0481	
ADMINISTRATIVE APPROVAL	MISCELLANEOUS	4/21/1998		HIST: B0265 004 0297	
ADMINISTRATIVE APPROVAL	MISCELLANEOUS	5/7/1998		HIST: B0266 003 0286	
ADMINISTRATIVE APPROVAL	MISCELLANEOUS	7/24/1998		HIST: B0266 005 0242	
ADMINISTRATIVE APPROVAL	MISCELLANEOUS	4/26/1999		HIST: B0268 009 0326	
ADMINISTRATIVE APPROVAL	MISCELLANEOUS	5/7/1999		HIST: B0269 002 0314	
ADMINISTRATIVE APPROVAL	MISCELLANEOUS	8/23/1999		HIST: B0270 002 0097	
BUILDING PERMIT	BLDG-NEW	1/10/1952	1952LA24723	HIST: P1457 002 0205	
BUILDING PERMIT	BLDG-NEW	3/3/1952	1952VN21897	HIST: P1467 002 1671	
BUILDING PERMIT	BLDG-DEMOLITION	7/16/1998	98019-10000-00726	HIST: P663 5 42	
BUILDING PERMIT	GRADING	7/31/1998	98030-20000-00379	HIST: P664 8 499	
BUILDING PERMIT	NONBLDG-NEW	7/31/1998	98020-20000-01841	HIST: P664 8 493	
BUILDING PERMIT	BLDG-NEW	8/6/1998	98010-10000-01185	HIST: P665 4 94	
BUILDING PERMIT	NONBLDG-NEW	11/18/1998	98020-70000-02996	HIST: P674 4 188	
BUILDING PERMIT	BLDG-ALTER/REPAIR	1/7/1999	98016-10000-23326	HIST: P677 6 497	
BUILDING PERMIT	BLDG-ALTER/REPAIR	1/25/1999	98016-10000-25317	HIST: P678 8 69	
BUILDING PERMIT	BLDG-NEW	2/10/1999	98010-70001-01185	HIST: P679 9 151	

Document Type	Sub Type	Document Date	Document Number	Reel Batch Frame	
BUILDING PERMIT	BLDG-NEW	6/4/1999	99010-10000-00845	HIST: P688 5 412	
BUILDING PERMIT	BLDG-ALTER/REPAIR	7/1/2002	01016-10000-21711	HIST: P775 6 397	
CERTIFICATE OF OCCUPANCY		10/9/1952	1952LA24723	HIST: O227 2 2520	
CERTIFICATE OF OCCUPANCY		9/13/1999	98010-10000-01185		
CERTIFICATE OF OCCUPANCY		9/13/1999	98010-70001-01185		
CERTIFICATE OF OCCUPANCY		9/13/1999	98016-10000-23326		
CERTIFICATE OF OCCUPANCY		9/13/1999	98016-10000-25317		
CERTIFICATE OF OCCUPANCY		9/13/1999	98019-10000-00726		
CERTIFICATE OF OCCUPANCY		9/13/1999	98020-70000-02996		
CERTIFICATE OF OCCUPANCY		9/15/1999	99010-10000-00845	IDIS: O0500 00577 0000 HIST: M1189 006 0174	
CERTIFICATE OF OCCUPANCY		11/18/2002	01016-10000-21711	IDIS: O0508 01766 0000	
CERTIFICATE OF OCCUPANCY-TEMP		9/11/1999	98010-10000-01185	HIST: M1189 004 0450	
COMMISSION	BAAB BOARD FILE	1/1/1998	BF 980073	HIST: B0332 006 0272	
GRADING	SOILS & GEOLOGY FILE	4/10/1998		HIST: M1174 006 0262	
GRADING	COMPACTION FILE	10/1/1998		HIST: M1178 002 0001	
GRADING	COMPACTION FILE	8/16/1999		HIST: M1277 006 0054	
GRADING	GRADING CERTIFICATE	9/9/1999	98030-20000-00379	HIST: M1189 006 0458	
OVERSIZED DOCUMENT	BOARD FILE	5/22/1998	BF 980073	HIST: J1495 001 0072	
OVERSIZED DOCUMENT	GRADING	8/3/1999		HIST: J1180 002 0131	
PLAN MAINTENANCE		8/6/1998	98010-10000-01185	HIST: J1158 1 442	
PLAN MAINTENANCE		1/7/1999	98016-10000-23326	HIST: J1114 2 48	
PLAN MAINTENANCE		1/25/1999	98016-10000-25317	HIST: J1119 1 504	
PLAN MAINTENANCE		6/4/1999	99010-10000-00845	HIST: J1180 2 138	
PLAN MAINTENANCE		7/1/2002	01016-10000-21711	HIST: J1712 1 233	

Exhibit E. Government Records Data Base Search and Radius Site Map

The EDR Radius Map
with GeoCheck®

DeVry University
22801 Roscoe Boulevard
West Hills, CA 91304

Inquiry Number: 1721915.2s

July 24, 2006



EDR® Environmental
Data Resources Inc

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	6
Orphan Summary	22
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting Source Map	A-7
Physical Setting Source Map Findings	A-8
Physical Setting Source Records Searched	A-10

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

22801 ROSCOE BOULEVARD
WEST HILLS, CA 91304

COORDINATES

Latitude (North):	34.219900 - 34° 13' 11.6"
Longitude (West):	118.624400 - 118° 37' 27.8"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	350367.0
UTM Y (Meters):	3787536.5
Elevation:	845 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	34118-B6 CALABASAS, CA
Most Recent Revision:	1967
East Map:	34118-B5 CANOGA PARK, CA
Most Recent Revision:	1967

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL	National Priority List
Proposed NPL	Proposed National Priority List Sites
Delisted NPL	National Priority List Deletions
NPL RECOVERY	Federal Superfund Liens
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
ERNS	Emergency Response Notification System

HMIRS	Hazardous Materials Information Reporting System
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
US BROWNFIELDS	A Listing of Brownfields Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
ODI	Open Dump Inventory
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

AWP	Annual Workplan Sites
Cal-Sites	Calsites Database
CA BOND EXP. PLAN	Bond Expenditure Plan
NFA	No Further Action Determination
NFE	Properties Needing Further Evaluation
REF	Unconfirmed Properties Referred to Another Agency
SCH	School Property Evaluation Program
Toxic Pits	Toxic Pits Cleanup Act Sites
SWF/LF	Solid Waste Information System
CA WDS	Waste Discharge System
WMUDS/SWAT	Waste Management Unit Database
SWRCY	Recycler Database
AOCONCERN	San Gabriel Valley Areas of Concern
UST	Active UST Facilities
AST	Aboveground Petroleum Storage Tank Facilities
CHMIRS	California Hazardous Material Incident Report System
Notify 65	Proposition 65 Records
LA Co. Site Mitigation	Site Mitigation List
DEED	Deed Restriction Listing
VCP	Voluntary Cleanup Program Properties
LOS ANGELES CO. HMS	HMS: Street Number List
WIP	Well Investigation Program Case List
CDL	Clandestine Drug Labs
HAZNET	Facility and Manifest Data
EMI	Emissions Inventory Data

TRIBAL RECORDS

INDIAN RESERV	Indian Reservations
INDIAN LUST	Leaking Underground Storage Tanks on Indian Land
INDIAN UST	Underground Storage Tanks on Indian Land

EXECUTIVE SUMMARY

EDR PROPRIETARY RECORDS

Manufactured Gas Plants... EDR Proprietary Manufactured Gas Plants
EDR Historical Auto StationsEDR Proprietary Historic Gas Stations
EDR Historical Cleaners.... EDR Proprietary Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

FEDERAL RECORDS

CERCLIS-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 02/01/2006 has revealed that there is 1 CERC-NFRAP site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
HUGHES AIRCRAFT COMPANY	*8433 FALLBROOK AVENUE*	*1/4 - 1/2N*	*C9*	*15*

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 03/15/2006 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
HUGHES AIRCRAFT COMPANY	*8433 FALLBROOK AVENUE*	*1/4 - 1/2N*	*C9*	*15*

EXECUTIVE SUMMARY

RCRAInfo: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System(RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month Large quantity generators generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-TSDF list, as provided by EDR, and dated 03/09/2006 has revealed that there is 1 RCRA-TSDF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
HUGHES AIRCRAFT COMPANY	*8433 FALLBROOK AVENUE*	*1/4 - 1/2 N*	*C9*	*15*

RCRAInfo: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System(RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month Large quantity generators generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/09/2006 has revealed that there are 2 RCRA-LQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
QUEST DIAGNOSTICS	8401 FALLBROOK AVENUE	1/8 - 1/4 NNE	B6	14
QUEST DIAGNOSTICS	8403 FALLBROOK AVENUE	1/8 - 1/4 NNE	B7	15

RCRAInfo: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System(RCRIS). The database includes selective information on sites which generate, transport, store , treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month Large quantity generators generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/09/2006 has revealed that there are 2 RCRA-SQG sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
LAKEVIEW CLEANERS	*22736 ROSCOE BLVD*	*1/8 - 1/4 ESE*	*1*	*6*

Lower Elevation	Address	Dist / Dir	Map ID	Page
LA FIRE STATION 106	*23004 ROSCOE BLVD*	*1/8 - 1/4W*	*A3*	*10*

STATE AND LOCAL RECORDS

CORTESE: This database identifies public drinking water wells with detectable levels of contamination, hazardous substance sites selected for remedial action, sites with known toxic material identified through the abandoned site assessment program, sites with USTs having a reportable release and all solid waste disposal facilities from which there is known migration. The source is the California Environmental Protection Agency/Office of Emergency Information.

A review of the Cortese list, as provided by EDR, and dated 04/01/2001 has revealed that there is 1 Cortese site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
HUGHES AIRCRAFT COMPANY	*8433 FALLBROOK AVENUE*	*1/4 - 1/2N*	*C9*	*15*

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 04/10/2006 has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
HUGHES AIRCRAFT COMPANY Facility Status: Remedial action (cleanup) Underway	*8433 FALLBROOK AVENUE*	*1/4 - 1/2N*	*C9*	*15*

Lower Elevation	Address	Dist / Dir	Map ID	Page
LA CITY FIRE STATION #106 Facility Status: Leak being confirmed	23004 ROSCOE BLVD	1/8 - 1/4W	A5	12

CA FID: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there is 1 CA FID UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
LOS ANGELES FIRE STATION 106	*23004 ROSCOE BLVD*	*1/8 - 1/4W*	*A4*	*11*

CA SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 04/10/2006 has revealed that there are 2 SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
HUGHES MISSILE SYSTEMS	8433 FALLBROOK	1/4 - 1/2N	C8	15
HUGHES AIRCRAFT COMPANY	***8433 FALLBROOK AVENUE***	***1/4 - 1/2N***	***C9***	***15***
Facility Status: Remedial Action Underway				

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there is 1 HIST UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
FIRE STATION 106	2004 ROSCOE BLVD.	1/8 - 1/4WSW	A2	9

SWEEPS: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1980's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there is 1 SWEEPS UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
LOS ANGELES FIRE STATION 106	***23004 ROSCOE BLVD***	***1/8 - 1/4W***	***A4***	***11***

DRYCLEANERS: A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the CLEANERS list, as provided by EDR, and dated 04/18/2005 has revealed that there is 1 CLEANERS site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
LAKEVIEW CLEANERS	***22736 ROSCOE BLVD***	***1/8 - 1/4ESE***	***1***	***6***

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
THE BOEING COMPANY-SANTA SUSANA 1,2,3,4	RCRA-LQG, RCRA-TSDF, CORRACTS, CERC-NFRAP, US INST CONTROL
2 / 3 MI DUE SOUTH NEWPORT BEACH PIER CENTEX-STERLING PROPERTY	HAZNET, LUST, CHMIRS VCP

OVERVIEW MAP - 1721915.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: DeVry University ADDRESS: 22801 Roscoe Boulevard West Hills CA 91304 LAT/LONG: 34.2199 / 118.6244	CLIENT: Winzler & Kelly CONTACT: Candice M. Cassato INQUIRY #: 1721915.2s DATE: July 24, 2006

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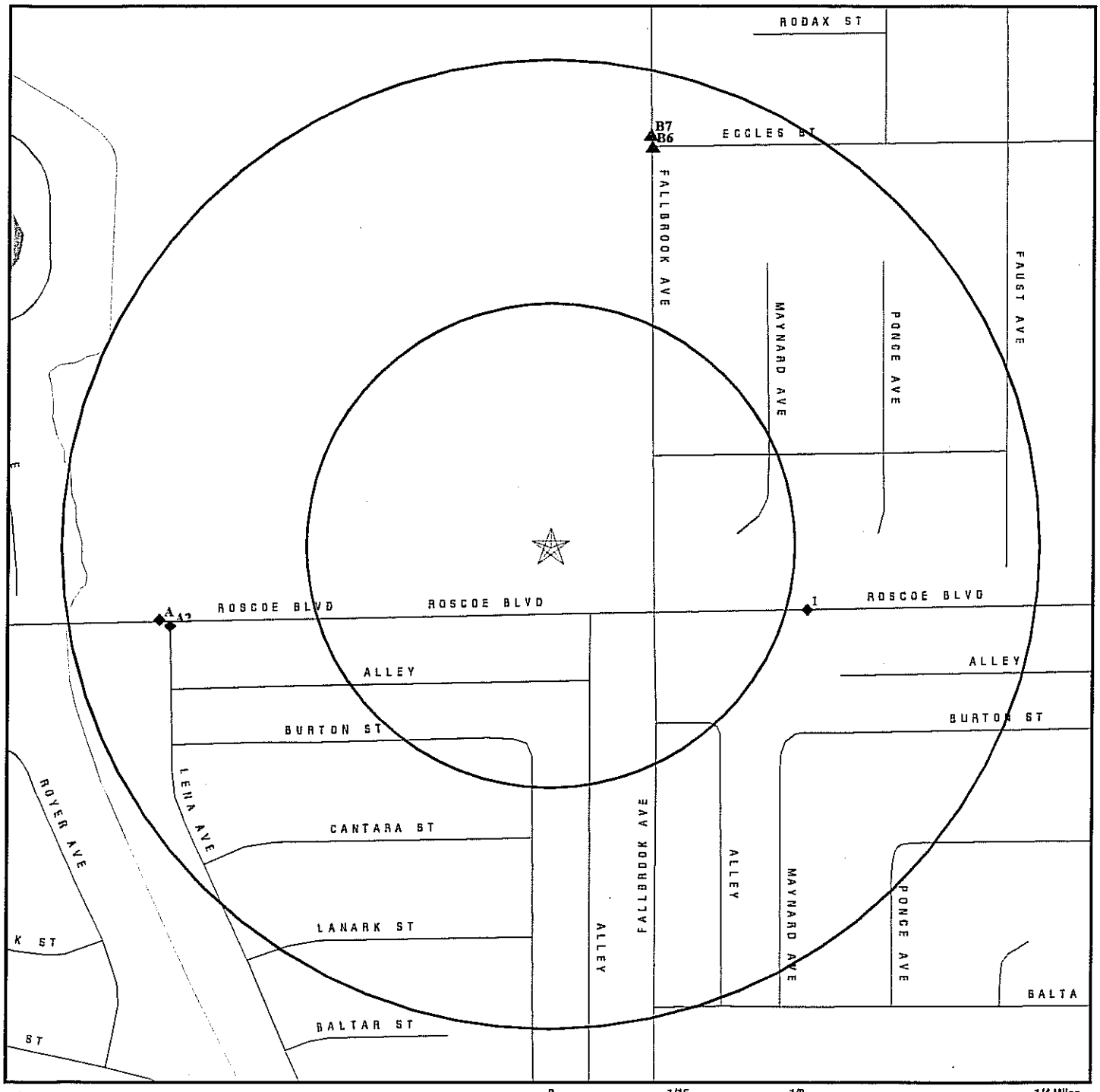
DETAIL MAP - 1721915.2s



★ Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Landfill Sites

Dept. Defense Sites

Indian Reservations BIA

Oil & Gas pipelines

100-year flood zone

500-year flood zone

National Wetland Inventory

Areas of Concern

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SITE NAME: DeVry University	CLIENT: Winzler & Kelly
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LAT/LONG: 34.2199 / 118.6244	INQUIRY #: 1721915.2s DATE: July 24, 2006

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MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FEDERAL RECORDS								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL RECOVERY		TP	NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.500	0	0	1	NR	NR	1
CORRACTS		1.000	0	0	1	0	NR	1
RCRA TSD		0.500	0	0	1	NR	NR	1
RCRA Lg. Quan. Gen.		0.250	0	2	NR	NR	NR	2
RCRA Sm. Quan. Gen.		0.250	0	2	NR	NR	NR	2
ERNS		TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
STATE AND LOCAL RECORDS								
AWP		1.000	0	0	0	0	NR	0
Cal-Sites		1.000	0	0	0	0	NR	0
CA Bond Exp. Plan		1.000	0	0	0	0	NR	0
NFA		0.250	0	0	NR	NR	NR	0
NFE		0.250	0	0	NR	NR	NR	0
REF		0.250	0	0	NR	NR	NR	0
SCH		0.250	0	0	NR	NR	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
CA WDS		TP	NR	NR	NR	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
Cortese		0.500	0	0	1	NR	NR	1
SWRCY		0.500	0	0	0	NR	NR	0
LUST		0.500	0	1	1	NR	NR	2

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA FID UST		0.250	0	1	NR	NR	NR	1
SLIC		0.500	0	0	2	NR	NR	2
AOCONCERN		1.000	0	0	0	0	NR	0
UST		0.250	0	0	NR	NR	NR	0
HIST UST		0.250	0	1	NR	NR	NR	1
AST		0.250	0	0	NR	NR	NR	0
SWEEPS UST		0.250	0	1	NR	NR	NR	1
CHMIRS		TP	NR	NR	NR	NR	NR	0
Notify 65		1.000	0	0	0	0	NR	0
LA Co. Site Mitigation		TP	NR	NR	NR	NR	NR	0
DEED		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.250	0	1	NR	NR	NR	1
Los Angeles Co. HMS		TP	NR	NR	NR	NR	NR	0
WIP		0.250	0	0	NR	NR	NR	0
CDL		TP	NR	NR	NR	NR	NR	0
HAZNET		TP	NR	NR	NR	NR	NR	0
EMI		TP	NR	NR	NR	NR	NR	0
TRIBAL RECORDS								
INDIAN RESERV		1.000	0	0	0	0	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
EDR PROPRIETARY RECORDS								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations		0.250	0	0	NR	NR	NR	0
EDR Historical Cleaners		0.250	0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1
ESE
1/8-1/4
717 ft.

LAKEVIEW CLEANERS
22736 ROSCOE BLVD
CANOGA PARK, CA 91304

RCRA-SQG **1000224867**
FINDS **CAD981639297**
HAZNET
CLEANERS

Relative:
Lower

Actual:
842 ft.

RCRAInfo:
Owner: NOT REQUIRED
(415) 555-1212
EPA ID: CAD981639297
Contact: Not reported
Classification: Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CA Cleaners:
Inactive Date: 6/30/2004
EPA Id: CAL000092099
Facility Address 2 : Not reported
NAICS Code : 81232
Facility Active : No
Mail Name : Not reported
Mailing Address: 22736 ROSCOE BLVD
CANOGA PARK, CA 91304
Owner Name : LAKEVIEW CLEANERS
Mailing Address: 22736 ROSCOE BL
CANOGA PARK, CA 91304
Owner Telephone : 8183481013
Contact Name : SUNG K KIM
Mailing Address: --
--, 99 --
Contact Telephone : 8183481013
Region Code : 3
Create Date : 01/24/1995
SIC Description : Garment Pressing, and Agents for Laundries and Drycleaners
NAICS Description : Drycleaning and Laundry Services (except Coin-Operated)

Inactive Date: 6/30/2004
EPA Id: CAL000092099
Facility Address 2 : Not reported
NAICS Code : 81232
Facility Active : No
Mail Name : Not reported
Mailing Address: 22736 ROSCOE BLVD
CANOGA PARK, CA 91304
Owner Name : LAKEVIEW CLEANERS
Mailing Address: 22736 ROSCOE BL
CANOGA PARK, CA 91304
Owner Telephone : 8183481013
Contact Name : SUNG K KIM
Mailing Address: --

LAKEVIEW CLEANERS (Continued) **1000224867**

	–, 99 –
Contact Telephone :	8183481013
Region Code :	3
Create Date :	01/24/1995
SIC Description :	Drycleaning Plants, Except Rug Cleaning
NAICS Description :	Drycleaning and Laundry Services (except Coin-Operated)
Inactive Date:	6/30/2004
EPA Id:	CAL000092099
Facility Address 2 :	Not reported
NAICS Code :	81232
Facility Active :	No
Mail Name :	Not reported
Mailing Address:	22736 ROSCOE BLVD
	CANOGA PARK, CA 91304
Owner Name :	LAKEVIEW CLEANERS
Mailing Address:	22736 ROSCOE BL
	CANOGA PARK, CA 91304
Owner Telephone :	8183481013
Contact Name :	SUNG K KIM
Mailing Address:	–
	–, 99 –
Contact Telephone :	8183481013
Region Code :	3
Create Date :	01/24/1995
SIC Description :	Laundry and Garment Services, NEC (except diaper service and clothing alteration and repair)
NAICS Description :	Drycleaning and Laundry Services (except Coin-Operated)
Inactive Date:	6/30/2000
EPA Id:	CAD981639297
Facility Address 2 :	Not reported
NAICS Code :	Not reported
Facility Active :	No
Mail Name :	Not reported
Mailing Address:	22736 ROSCOE BLVD
	CANOGA PARK, CA 91304
Owner Name :	–
Mailing Address:	–
	–, 99 –
Owner Telephone :	0000000000
Contact Name :	CANCELLED BY SUNG K KIM ON 1-
Mailing Address:	INACTIVE PER VQ00 - BMI
	–, 99 –
Contact Telephone :	8183481013
Region Code :	3
Create Date :	07/03/1987
SIC Description :	Not reported
NAICS Description :	Not reported
Inactive Date:	6/30/2004
EPA Id:	CAL000092099
Facility Address 2 :	Not reported
NAICS Code :	81232
Facility Active :	No
Mail Name :	Not reported
Mailing Address:	22736 ROSCOE BLVD
	CANOGA PARK, CA 91304

LAKEVIEW CLEANERS (Continued) **1000224867**

Owner Name : LAKEVIEW CLEANERS
Mailing Address: 22736 ROSCOE BL
CANOGA PARK, CA 91304
Owner Telephone : 8183481013
Contact Name : SUNG K KIM
Mailing Address: --
--, 99 --
Contact Telephone : 8183481013
Region Code : 3
Create Date : 01/24/1995
SIC Description : Power Laundries, Family and Commercial
NAICS Description : Drycleaning and Laundry Services (except Coin-Operated)

HAZNET:
Gepaid: CAD981639297
TSD EPA ID: CAT000613992
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0600
Facility Address 2: Not reported
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: Not reported
Telephone: (000) 000-0000
Mailing Name: Not reported
Mailing Address: 22736 ROSCOE BLVD
CANOGA PARK, CA 91304
County Los Angeles

Gepaid: CAD981639297
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.0975
Facility Address 2: Not reported
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: Not reported
Telephone: (000) 000-0000
Mailing Name: Not reported
Mailing Address: 22736 ROSCOE BLVD
CANOGA PARK, CA 91304
County Los Angeles

Gepaid: CAD981639297
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1400
Facility Address 2: Not reported
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: Not reported
Telephone: (000) 000-0000
Mailing Name: Not reported
Mailing Address: 22736 ROSCOE BLVD
CANOGA PARK, CA 91304
County Los Angeles

LAKEVIEW CLEANERS (Continued) **1000224867**

Gepaid: CAD981639297
TSD EPA ID: CAT000613992
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1400
Facility Address 2: Not reported
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: Not reported
Telephone: (000) 000-0000
Mailing Name: Not reported
Mailing Address: 22736 ROSCOE BLVD
CANOGA PARK, CA 91304
County Los Angeles

Gepaid: CAD981639297
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0975
Facility Address 2: Not reported
Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
Disposal Method: Transfer Station
Contact: Not reported
Telephone: (000) 000-0000
Mailing Name: Not reported
Mailing Address: 22736 ROSCOE BLVD
CANOGA PARK, CA 91304
County Los Angeles

Click this hyperlink while viewing on your computer to access
4 additional CA HAZNET record(s) in the EDR Site Report.

A2 **FIRE STATION 106** **HIST UST** **U001567133**
WSW **2004 ROSCOE BLVD.** **N/A**
1/8-1/4 **CANOGA PARK, CA 91304**
1050 ft.

Site 1 of 4 in cluster A

Relative:
Lower

Actual:
838 ft.

UST HIST:
Facility ID: 47402
Total Tanks: 1
Owner Address: 200 N. MAIN ST
LOS ANGELES, CA 90012
Tank Used for: PRODUCT
Tank Num: 1
Tank Capacity: 00001000
Type of Fuel: DIESEL
Leak Detection: Stock Inventor
Contact Name: Not reported
Facility Type: Other

Owner Name: CITY OF LOS ANGELES
Region: STATE

Container Num: FS106-1
Year Installed: Not reported
Tank Construction: Not Reported

Telephone: (818) 989-8606
Other Type: FIRE STATION

A3 **LA FIRE STATION 106** **RCRA-SQG** **1000229490**
West **23004 ROSCOE BLVD** **FINDS** **CAD981964208**
1/8-1/4 **CANOGA PARK, CA 91303** **HAZNET**
1075 ft.

Site 2 of 4 in cluster A

Relative:
Lower

Actual:
838 ft.

RCRAInfo:
Owner: CITY OF LOS ANGELES
(415) 555-1212
EPA ID: CAD981964208

Contact: ENVIRONMENTAL MANAGER
(213) 485-7527

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
California - Hazardous Waste Tracking System - Datamart

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:
Gepaid: CAD981964208
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 2.10
Facility Address 2: Not reported
Waste Category: Asbestos-containing waste
Disposal Method: Disposal, Land Fill
Contact: SHARI KUROKI MGMT ANALYST
Telephone: (213) 473-7748
Mailing Name: Not reported
Mailing Address: 419 S SPRING ST 12TH FLOOR
LOS ANGELES, CA 90013
County Not reported

Gepaid: CAD981964208
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1251
Facility Address 2: Not reported
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: DEPT OF GENERAL SERVICES
Telephone: (213) 485-5846
Mailing Name: Not reported
Mailing Address: 111 E 1ST STREET RM 709
LOS ANGELES, CA 90012
County Los Angeles

LA FIRE STATION 106 (Continued) **1000229490**

Gepaid: CAD981964208
TSD EPA ID: CAT080011059
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0625
Facility Address 2: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: DEPT OF GENERAL SERVICES
Telephone: (213) 485-5846
Mailing Name: Not reported
Mailing Address: 111 E 1ST STREET RM 709
LOS ANGELES, CA 90012
County Los Angeles

Gepaid: CAD981964208
TSD EPA ID: CAD028409019
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.417
Facility Address 2: Not reported
Waste Category: Tank bottom waste
Disposal Method: Treatment, Tank
Contact: DEPT OF GENERAL SERVICES
Telephone: (213) 485-5846
Mailing Name: Not reported
Mailing Address: 111 E 1ST STREET RM 709
LOS ANGELES, CA 90012
County Los Angeles

Gepaid: CAD981964208
TSD EPA ID: CAD009007626
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1685
Facility Address 2: Not reported
Waste Category: Asbestos-containing waste
Disposal Method: Disposal, Land Fill
Contact: DEPT OF GENERAL SERVICES
Telephone: (213) 485-5846
Mailing Name: Not reported
Mailing Address: 111 E 1ST STREET RM 709
LOS ANGELES, CA 90012
County Los Angeles

A4
West
1/8-1/4
1075 ft.

Relative:
Lower

Actual:
838 ft.

LOS ANGELES FIRE STATION 106
23004 ROSCOE BLVD
CANOGA PARK, CA 91304

Site 3 of 4 in cluster A

CA FID UST **S101585525**
SWEEPS UST **N/A**

LOS ANGELES FIRE STATION 106 (Continued) **S101585525**

FID:

Facility ID:	19024479	Regulate ID:	Not reported
Reg By:	Active Underground Storage Tank Location		
Cortese Code:	Not reported	SIC Code:	Not reported
Status:	Active	Facility Tel:	(213) 485-5846
Mail To:	Not reported 200 MAIN ST CANOGA PARK, CA 91304		
Contact:	Not reported	Contact Tel:	Not reported
DUNs No:	Not reported	NPDES No:	Not reported
Creation:	10/22/93	Modified:	00/00/00
EPA ID:	Not reported		
Comments:	Not reported		

SWEEPS:

Status :	A
Comp Number :	6188
Number :	4
Board Of Equalization :	Not reported
Ref Date :	02-25-93
Act Date :	04-05-94
Created Date :	02-29-88
Tank Status :	A
Owner Tank Id :	6188-1
Swrcb Tank Id :	19-050-006188-000001
Actv Date :	07-29-93
Capacity :	10000
Tank Use :	M.V. FUEL
Stg :	P
Content :	DIESEL
Number Of Tanks :	1

A5 **LA CITY FIRE STATION #106** **LUST** **S104773279**
West **23004 ROSCOE BLVD** **N/A**
1/8-1/4 **CANOGA PARK, CA 91304**
1075 ft.

Site 4 of 4 in cluster A

Relative:
Lower

Actual:
838 ft.

State LUST:

Cross Street:	Not reported		
Qty Leaked:	Not reported		
Case Number	913040670		
Reg Board:	Los Angeles Region		
Chemical:	1		
Lead Agency:	Local Agency		
Local Agency :	19050		
Case Type:	Soil only		
Status:	**Leak being confirmed**		
Review Date:	1999-10-07 00:00:00	Confirm Leak:	1999-10-07 00:00:00
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported		
Monitoring:	Not reported		
Close Date:	Not reported		
Release Date:	1999-10-07 00:00:00		
Cleanup Fund Id :	Not reported		
Discover Date :	1999-08-16 00:00:00		
Enforcement Dt :	Not reported		
Enf Type:	Not reported		

LA CITY FIRE STATION #106 (Continued) **S104773279**

Enter Date : Not reported
Funding: Not reported
Staff Initials: PEJ
How Discovered: Repair Tank
How Stopped: Not reported
Interim : Not reported
Leak Cause: UNK
Leak Source: UNK
MTBE Date : Not reported
Max MTBE GW : Not reported
MTBE Tested: Not Required to be Tested.
Priority: Not reported
Local Case # : Not reported
Beneficial: Not reported
Staff : UNK
GW Qualifier : Not reported
Max MTBE Soil : Not reported
Soil Qualifier : Not reported
Hydr Basin #: SAN FERNANDO VALLEY
Operator : CITY OF LA FIRE DEPT.
Oversight Prgm: LUST
Review Date : 1999-10-07 00:00:00
Stop Date : Not reported
Work Suspended :Not reported
Responsible PartyCTIY OF LOS ANGELES
RP Address: 419 S. SPRING ST., 12TH FL., LOS ANGELES CA 90013
Global Id: T0603793051
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: 0
Mtbe Fuel: 0
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported
Summary : Not reported

LUST Region 4:
Report Date: 10/7/1999
Lead Agency: Local Agency
Local Agency: 19050
Substance: 1
Case Type: Soil
Status: Leak being confirmed
Region: 4
Staff: UNK
Date Case Last Changed on Database: 10/7/1999
Date Leak Record Entered: Not reported
Historical Max MTBE Date: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil : Not reported
County: Los Angeles
Organization : Not reported
Regional Board: 04
Owner Contact: Not reported

LA CITY FIRE STATION #106 (Continued) **S104773279**

Responsible Party:	CTIY OF LOS ANGELES
RP Address:	419 S. SPRING ST., 12TH FL., LOS ANGELES CA 90013
Significant Interim Remedial Action Taken:	Not reported
Program :	LUST
Lat / Long :	34.219163 / -1
Local Agency Staff:	PEJ
Beneficial Use :	Not reported
Priority :	Not reported
Cleanup Fund Id :	Not reported
Suspended :	Not reported
Local Case No :	Not reported
Substance Quantity :	Not reported
Abatement Method Used at the Site:	Not reported
Operator :	CITY OF LA FIRE DEPT.
Water System :	Not reported
Well Name :	Not reported
Approx. Dist To Production Well (ft) :	15634.935088091666429858451742
Assigned Name :	Not reported
W Global ID :	Not reported
Source of Cleanup Funding:	Not reported
Date the Leak was Discovered:	8/16/1999
How the Leak was Discovered:	TR
How the Leak was Stopped:	Not reported
Cause of Leak:	UNK
Leak Source:	UNK
Date The Leak was Stopped:	Not reported
Date Confirmation Leak Began:	10/7/1999
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	Not reported
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Date the Case was Closed:	Not reported
Enforcement Action Date:	Not reported
Date Leak First Reported:	10/7/1999
Enforcement Type:	Not reported
Global ID :	T0603793051
Cross Street:	Not reported
Summary :	

B6 **QUEST DIAGNOSTICS** **RCRA-LQG** **1008402415**
NNE **8401 FALLBROOK AVENUE** **CAR000164962**
1/8-1/4 **WEST HILLS, CA 91304**
1119 ft.

Site 1 of 2 in cluster B

Relative:
Higher

Actual:
851 ft.

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

CERCLIS-NFRAP Classification Data:
Federal Facility: Not a Federal Facility
Non NPL Code: DR
NPL Status: Not on the NPL
CERCLIS-NFRAP Assessment History:

Assessment:	DISCOVERY	Completed:	04/01/1991
Assessment:	PRELIMINARY ASSESSMENT	Completed:	08/09/1991
Assessment:	ARCHIVE SITE	Completed:	01/23/1996

CORRACTS Data:

EPA Id: CAD041162124
Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 07/29/1991
Corrective Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
2002 NAICS Title: Guided Missile and Space Vehicle Manufacturing
Other Guided Missile and Space Vehicle Parts and Auxiliary Equipment Manufacturing

RCRAInfo Corrective Action Summary:
Event: RFI Imposition
Event Date: Not reported

Event: CA Prioritization, Facility or area was assigned a low corrective action priority.
Event Date: 07/29/1991

RCRAInfo:
Owner: HUGHES AIRCRAFT COMPANY
(213) 702-1000
EPA ID: CAD041162124

Contact: Not reported

Classification: Large Quantity Generator, TSDF
TSDF Activities: Not reported

Violation Status: Violations exist

Regulation Violated: Not reported
Area of Violation: TSD-GENERAL STANDARDS
Date Violation Determined: 08/23/1994
Actual Date Achieved Compliance: 09/22/1994

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 08/23/1994
Penalty Type: Proposed Monetary Penalty

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 11/22/1991
Actual Date Achieved Compliance: 06/01/1994

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS
Date Violation Determined: 04/24/1991
Actual Date Achieved Compliance: 05/28/1991

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 06/07/1991

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS
Date Violation Determined: 02/22/1989
Actual Date Achieved Compliance: 10/15/1990

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 04/06/1989
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/06/1989
Penalty Type: Final Monetary Penalty

Regulation Violated: Not reported
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 02/22/1989
Actual Date Achieved Compliance: 10/15/1990

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 04/06/1989
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/06/1989
Penalty Type: Final Monetary Penalty

Penalty Summary:

Penalty Description	Penalty Date	Penalty Amount	Lead Agency
Final Monetary Penalty	8/23/1994	500	STATE
Proposed Monetary Penalty	8/23/1994	500	STATE

There are 5 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Compliance Evaluation Inspection	TSD-GENERAL STANDARDS	19940922
Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19940601
Other Evaluation	TSD-OTHER REQUIREMENTS	19910528
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS	19901015
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19901015

FINDS:

Other Pertinent Environmental Activity Identified at Site:

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

State LUST:

Cross Street: ECCLES ST
Qty Leaked: Not reported
Case Number 913040352
Reg Board: Los Angeles Region
Chemical: Solvents
Lead Agency: Regional Board
Local Agency : 19050

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Case Type: Other ground water affected
Status: Remedial action (cleanup) Underway
Abate Method: Excavate and Dispose - remove contaminated soil and dispose in approved site
Review Date: Not reported
Workplan: Not reported
Pollution Char: Not reported
Remed Action: 1992-03-10 00:00:00
Monitoring: Not reported
Close Date: Not reported
Release Date: 1985-01-29 00:00:00
Cleanup Fund Id : Not reported
Discover Date : 1988-06-20 00:00:00
Enforcement Dt : Not reported
Enf Type: Not reported
Enter Date : 1986-12-31 00:00:00
Funding: Not reported
Staff Initials: PEJ
How Discovered: Tank Closure
How Stopped: Not reported
Interim : Yes
Leak Cause: UNK
Leak Source: UNK
MTBE Date : Not reported
Max MTBE GW : Not reported
MTBE Tested: Not Required to be Tested.
Priority: Not reported
Local Case # : Not reported
Beneficial: Not reported
Staff : SLC
GW Qualifier : Not reported
Max MTBE Soil : Not reported
Soil Qualifier : Not reported
Hydr Basin #: SAN FERNANDO VALLEY
Operator : Not reported
Oversight Prgm: Spills, Leaks, Investigations and Cleanup UST
Review Date : 1998-07-15 00:00:00
Stop Date : Not reported
Work Suspended : Not reported
Responsible Party HUGHES AIRCRAFT COMPANY
RP Address: SAME AS SITE
Global Id: T0603702098
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: 0
Mtbe Fuel: 0
Water System Name: VIRGINIA LKS. MUT. WATER CO.
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: W0605100510
Waste Disch Assigned Name: 2600510-001GEN
Summary : QTRLY G/W MON. SOLVENT & TRACE METAL CONTAMINATION. 9-21-88 UPDATE-REDRILLING WELLS 1ST ONE DRY. 4-89 UPDATE-SAP FOR NEWWELLS EXPECTED. 07/15/98 - GW & REMEDIATION SYSTEM MON 1998 Q

Confirm Leak: Not reported
Prelim Assess: Not reported
Remed Plan: Not reported

LUST Region 4:
Report Date: 1/29/1985

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Lead Agency:	Regional Board
Local Agency:	19050
Substance:	Solvents
Case Type:	Groundwater
Status:	Remedial action (cleanup) Underway
Region:	4
Staff:	SLC
Date Case Last Changed on Database:	7/15/1998
Date Leak Record Entered:	12/31/1986
Historical Max MTBE Date:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil :	Not reported
County:	Los Angeles
Organization :	Not reported
Regional Board:	04
Owner Contact:	Not reported
Responsible Party:	HUGHES AIRCRAFT COMPANY
RP Address:	SAME AS SITE
Significant Interim Remedial Action Taken:	Yes
Program :	SLIC
Lat / Long :	34.224103 / -1
Local Agency Staff:	PEJ
Beneficial Use :	Not reported
Priority :	Not reported
Cleanup Fund Id :	Not reported
Suspended :	Not reported
Local Case No :	Not reported
Substance Quantity :	Not reported
Abatement Method Used at the Site:	Excavate and Dispose
Operator :	Not reported
Water System :	VIRGINIA LKS. MUT. WATER CO.
Well Name :	Not reported
Approx. Dist To Production Well (ft) :	13531.155956221583606583331749
Assigned Name :	2600510-001GEN
W Global ID :	W0605100510
Source of Cleanup Funding:	Not reported
Date the Leak was Discovered:	6/20/1988
How the Leak was Discovered:	Tank Closure
How the Leak was Stopped:	Not reported
Cause of Leak:	UNK
Leak Source:	UNK
Date The Leak was Stopped:	Not reported
Date Confirmation Leak Began:	Not reported
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	4/21/1988
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	3/10/1992
Post Remedial Action Monitoring Began:	Not reported
Date the Case was Closed:	Not reported
Enforcement Action Date:	Not reported
Date Leak First Reported:	1/29/1985
Enforcement Type:	Not reported
Global ID :	T0603702098
Cross Street:	ECCLES ST

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Summary : QTRLY G/W MON. SOLVENT & TRACE METAL CONTAMINATION. 9-21-88 UPDATE-REDRILLING WELLS 1ST ONE DRY. 4-89 UPDATE-SAP FOR NEWWELLS EXPECTED. 07/15/98 - GW & REMEDIATION SYSTEM MON 1998 Q

REF:

Facility ID	19360344
Dtsc Region Code :	3
Region Code Definition :	GLENDALE
County Code :	19
Site Name Under :	Not reported
Current Status Date :	05011995
Current Status Code :	REFRC
Current Status :	PROPERTY/SITE REFERRED TO RCRA
Lead Agency Code :	Not reported
Lead Agency :	N/A
Site Type Code :	Not reported
Site Type :	N/A
National Priorities List :	Not reported
Tier :	Not reported
Source Of Funding Code :	Not reported
Staff Member :	Not reported
Supervisor :	Not reported
Sic Code :	36
Sic Code Definition :	MANU - ELECTRONIC & OTHER ELECTRIC EQUIP
Site Mitigatn & Brnflds Reuse Prog (SMBR) Code :	SA
SMBR Branch :	SO CAL - GLENDALE
Regional Water Quality Control Board :	Not reported
RWQCB Definition :	Not reported
Site Access Controlled :	Not reported
Listed In Haz Wst & Substncs Sites List (CORTESE):	Not reported
Date Hazard Ranked :	Not reported
GW Contamination Suspected :	Not reported
# Of Sources Contributing To Contamination :	0
Lat/Long :	0° 0' 0" / 0° 0' 0"
Direction Lat :	Not reported
Direction Long :	Not reported
Lat/long Method :	Not reported
Entity Lat/long Coordinates Refer To :	Not reported
State Assembly Distt Code :	37
State Senate Distt Code :	23
Identifying Code:	EPA
ID Value:	CAD041162124
Other ID Desc:	EPA IDENTIFICATION NUMBER
Alternate Name(s):	THOMPSON-RAMCO-WOOL-RIDGE
	HUGHES AIRCRAFT COMPANY
Address(es) :	8433 FALLBROOK AVENUE
	CANOGA PARK, CA 91304
Background Info :	Not reported
Facility Id :	19360344
AWP Activities Code :	1
DTSC Site Activity Code :	DISC
Activity Code Def:	DISCOVERY
AWP Activity Id :	Not reported
Dt Activity Due For Completion :	Not reported
Revised Due Date :	Not reported
Date Activity Completed :	10221982
Est # Of Person-years To Complete :	0

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Est. Size Of An Activity Code : Not reported
Site Status When Activity Commitment Made : REFRC
Status Code Definition : PROPERTY/SITE REFERRED TO RCRA
Cubic Yards Of Solids Removed At Completion : 0
Gallons Of Liquid Removed Upon Completion : 0
Cubic Yards Of Solids Treated Upon Completion : 0
Actvty Deleted Via Commitmnt/Completns Screen : Not reported
Facility Id : 19360344
AWP Activities Code : 2
DTSC Site Activity Code : SS
Activity Code Def: SITE SCREENING
AWP Activity Id : Not reported
Dt Activity Due For Completion : Not reported
Revised Due Date : Not reported
Date Activity Completed : 04151988
Est # Of Person-years To Complete : 0
Est. Size Of An Activity Code : Not reported
Site Status When Activity Commitment Made : REFRC
Status Code Definition : PROPERTY/SITE REFERRED TO RCRA
Cubic Yards Of Solids Removed At Completion : 0
Gallons Of Liquid Removed Upon Completion : 0
Cubic Yards Of Solids Treated Upon Completion : 0
Actvty Deleted Via Commitmnt/Completns Screen : Not reported
Special Program Code: Not reported
Special Program : Not reported
Comments Date : 04151988
Comments : SITE SCREENING DONE UNABLE TO VEIW COMPLEX DURING DRIVE-BY
PA MED DUE TO LACK OF INFO.
FACILITY DRIVE-BY VAST COMPLEX, UNABLE TO VIEW.
HWMB ISD FILES. EPA ID #CAD041162124.
GOOD CURRENT HAZ WASTE MANAGE.
TSD facility--large quantity generator.
FACILITY IDENTIFIED ID FROM LA CHAM COMM DIR 1963-64.
COMPUTERS, MISSILE COMPONENTS.

CORTESE:
Region: CORTESE
Fac Address 2: 8433 FALLBROOK AVE

CA STATE SLIC :
Global Id : SL2043T1572
Region : STATE
Assigned Name : SLICSITE
Lead Agency Contact : THIZAR TINTUT-WILLIAMS
Lead Agency : LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number : 693
Responsible Party : Raytheon Systems Co.
Recent Dtw : Not reported
Facility Status : Remedial Action Underway
Substance Released : PET, VOC

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/19/2006
Date Data Arrived at EDR: 05/05/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 17

Source: EPA
Telephone: N/A
Last EDR Contact: 05/05/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

Date of Government Version: 04/19/2006
Date Data Arrived at EDR: 05/05/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 17

Source: EPA
Telephone: N/A
Last EDR Contact: 05/05/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/19/2006
Date Data Arrived at EDR: 05/05/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 17

Source: EPA
Telephone: N/A
Last EDR Contact: 05/05/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPL RECOVERY: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/01/2006
Date Data Arrived at EDR: 03/21/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 23

Source: EPA
Telephone: 703-413-0223
Last EDR Contact: 06/22/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 02/01/2006
Date Data Arrived at EDR: 03/21/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 23

Source: EPA
Telephone: 703-413-0223
Last EDR Contact: 06/23/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/15/2006
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 05/21/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Quarterly

RCRA: Resource Conservation and Recovery Act Information

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/09/2006
Date Data Arrived at EDR: 04/27/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 33

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/28/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Quarterly

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 01/12/2006
Date Made Active in Reports: 02/21/2006
Number of Days to Update: 40

Source: National Response Center, United States Coast Guard
Telephone: 202-260-2342
Last EDR Contact: 04/26/2006
Next Scheduled EDR Contact: 07/24/2006
Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 46

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 07/19/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: Annually

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/21/2006
Date Data Arrived at EDR: 03/27/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 703-603-8905
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/21/2006
Date Data Arrived at EDR: 03/27/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 703-603-8905
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 703-692-8801
Last EDR Contact: 05/12/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 01/19/2006
Date Made Active in Reports: 02/21/2006
Number of Days to Update: 33

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 04/26/2006
Date Data Arrived at EDR: 04/27/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/12/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Semi-Annually

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/14/2004
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 04/25/2005
Number of Days to Update: 69

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/24/2006
Next Scheduled EDR Contact: 10/23/2006
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/13/2006
Date Data Arrived at EDR: 04/28/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 32

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 07/06/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 11/04/2005
Date Data Arrived at EDR: 11/28/2005
Date Made Active in Reports: 01/30/2006
Number of Days to Update: 63

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 06/21/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2003
Date Data Arrived at EDR: 07/13/2005
Date Made Active in Reports: 08/17/2005
Number of Days to Update: 35

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 06/22/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 46

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/29/2006
Date Data Arrived at EDR: 04/26/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 34

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Date of Government Version: 03/31/2006
Date Data Arrived at EDR: 04/26/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 34

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Quarterly

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 05/11/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 11

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 02/13/2006
Date Data Arrived at EDR: 04/21/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 20

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 12/27/2005
Date Data Arrived at EDR: 02/08/2006
Date Made Active in Reports: 02/27/2006
Number of Days to Update: 19

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 06/28/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/12/2006
Date Data Arrived at EDR: 04/26/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 34

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Quarterly

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/09/2006
Date Data Arrived at EDR: 03/29/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 62

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 06/28/2006
Next Scheduled EDR Contact: 09/25/2006
Data Release Frequency: Semi-Annually

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/27/2006
Date Data Arrived at EDR: 05/02/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 28

Source: EPA
Telephone: N/A
Last EDR Contact: 04/03/2006
Next Scheduled EDR Contact: 07/03/2006
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2003
Date Data Arrived at EDR: 06/17/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 48

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 07/21/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Biennially

STATE AND LOCAL RECORDS

AWP: Annual Workplan Sites

Known Hazardous Waste Sites. California DTSC's Annual Workplan (AWP), formerly BEP, identifies known hazardous substance sites targeted for cleanup.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/29/2005
Date Made Active in Reports: 09/21/2005
Number of Days to Update: 23

Source: California Environmental Protection Agency
Telephone: 916-323-3400
Last EDR Contact: 05/10/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Annually

CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/29/2005
Date Made Active in Reports: 09/21/2005
Number of Days to Update: 23

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 05/10/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

NFA: No Further Action Determination

This category contains properties at which DTSC has made a clear determination that the property does not pose a problem to the environment or to public health.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/29/2005
Date Made Active in Reports: 10/06/2005
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/10/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Quarterly

NFE: Properties Needing Further Evaluation

This category contains properties that are suspected of being contaminated. These are unconfirmed contaminated properties that need to be assessed using the PEA process. PEA in Progress indicates properties where DTSC is currently conducting a PEA. PEA Required indicates properties where DTSC has determined a PEA is required, but not currently underway.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/29/2005
Date Made Active in Reports: 09/21/2005
Number of Days to Update: 23

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/10/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Quarterly

REF: Unconfirmed Properties Referred to Another Agency

This category contains properties where contamination has not been confirmed and which were determined as not requiring direct DTSC Site Mitigation Program action or oversight. Accordingly, these sites have been referred to another state or local regulatory agency.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/29/2005
Date Made Active in Reports: 10/06/2005
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/10/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Quarterly

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 06/06/2006
Date Data Arrived at EDR: 06/07/2006
Date Made Active in Reports: 07/06/2006
Number of Days to Update: 29

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 06/07/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 05/01/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: No Update Planned

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 03/13/2006
Date Data Arrived at EDR: 03/15/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 29

Source: Integrated Waste Management Board
Telephone: 916-341-6320
Last EDR Contact: 06/14/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Quarterly

CA WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 03/20/2006
Date Data Arrived at EDR: 03/21/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 23

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 06/22/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Quarterly

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 07/24/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Quarterly

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 05/29/2001
Date Made Active in Reports: 07/26/2001
Number of Days to Update: 58

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-9100
Last EDR Contact: 07/24/2006
Next Scheduled EDR Contact: 10/23/2006
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 04/07/2006
Date Data Arrived at EDR: 04/11/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 30

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 07/12/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Quarterly

LUST: Geotracker's Leaking Underground Fuel Tank Report
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 04/10/2006
Date Data Arrived at EDR: 04/11/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-341-5752
Last EDR Contact: 07/12/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Quarterly

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 06/26/2006
Next Scheduled EDR Contact: 09/25/2006
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 916-542-5424
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-4130
Last EDR Contact: 05/08/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Varies

LUST REG 7: Leaking Underground Storage Tank Case Listing

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-346-7491
Last EDR Contact: 05/22/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-346-7491
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Date of Government Version: 04/01/2006
Date Data Arrived at EDR: 04/27/2006
Date Made Active in Reports: 05/26/2006
Number of Days to Update: 29

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 07/07/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 3: Leaking Underground Storage Tank Database

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 05/15/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-576-2220
Last EDR Contact: 05/22/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 07/10/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SLIC: Statewide SLIC Cases

The Spills, Leaks, Investigations, and Cleanups (SLIC) listings includes unauthorized discharges from spills and leaks, other than from underground storage tanks or other regulated sites.

Date of Government Version: 04/10/2006
Date Data Arrived at EDR: 04/11/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-341-5752
Last EDR Contact: 07/12/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 07/10/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 05/15/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/24/2006
Next Scheduled EDR Contact: 10/23/2006
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 07/06/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 04/06/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 05/31/2006
Date Data Arrived at EDR: 06/01/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 14

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 05/30/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Annually

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 04/10/2006
Date Data Arrived at EDR: 04/11/2006
Date Made Active in Reports: 05/01/2006
Number of Days to Update: 20

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 07/12/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Semi-Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

AST: Aboveground Petroleum Storage Tank Facilities

Registered Aboveground Storage Tanks.

Date of Government Version: 01/30/2006
Date Data Arrived at EDR: 01/30/2006
Date Made Active in Reports: 02/17/2006
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5712
Last EDR Contact: 05/26/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Quarterly

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1980's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 11/30/2005
Date Made Active in Reports: 01/19/2006
Number of Days to Update: 50

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 05/22/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Varies

NOTIFY 65: Proposition 65 Records

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993
Date Data Arrived at EDR: 11/01/1993
Date Made Active in Reports: 11/19/1993
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: No Update Planned

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 04/04/2006
Date Data Arrived at EDR: 04/05/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/06/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Semi-Annually

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 06/06/2006
Date Data Arrived at EDR: 06/07/2006
Date Made Active in Reports: 07/06/2006
Number of Days to Update: 29

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 06/07/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Quarterly

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 04/18/2005
Date Data Arrived at EDR: 04/18/2005
Date Made Active in Reports: 05/06/2005
Number of Days to Update: 18

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 04/30/2006
Date Data Arrived at EDR: 05/04/2006
Date Made Active in Reports: 05/26/2006
Number of Days to Update: 22

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 07/24/2006
Next Scheduled EDR Contact: 10/23/2006
Data Release Frequency: Varies

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 05/17/2006
Date Data Arrived at EDR: 05/17/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 29

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 07/24/2006
Next Scheduled EDR Contact: 10/23/2006
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2003
Date Data Arrived at EDR: 10/11/2005
Date Made Active in Reports: 10/31/2005
Number of Days to Update: 20

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 05/11/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 27

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 07/21/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: Varies

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 05/12/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Semi-Annually

INDIAN LUST: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 09/07/2005
Date Data Arrived at EDR: 09/08/2005
Date Made Active in Reports: 10/31/2005
Number of Days to Update: 53

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Varies

INDIAN LUST: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 03/22/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 22

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 02/20/2006
Next Scheduled EDR Contact: 05/22/2006
Data Release Frequency: Varies

INDIAN UST: Underground Storage Tanks on Indian Land

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 03/22/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 22

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR PROPRIETARY RECORDS

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 05/23/2006
Date Data Arrived at EDR: 05/24/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 22

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/24/2006
Next Scheduled EDR Contact: 10/23/2006
Data Release Frequency: Semi-Annually

Underground Tanks

Date of Government Version: 05/23/2006
Date Data Arrived at EDR: 05/24/2006
Date Made Active in Reports: 06/29/2006
Number of Days to Update: 36

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/24/2006
Next Scheduled EDR Contact: 10/23/2006
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 03/20/2006
Date Data Arrived at EDR: 03/21/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 23

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 05/30/2006
Next Scheduled EDR Contact: 05/29/2006
Data Release Frequency: Semi-Annually

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 04/10/2006
Date Data Arrived at EDR: 04/10/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 31

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 07/10/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Semi-Annually

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 03/27/2006
Date Data Arrived at EDR: 03/28/2006
Date Made Active in Reports: 05/01/2006
Number of Days to Update: 34

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 06/23/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Quarterly

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 07/07/1999
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 05/16/2006
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

City of El Segundo Underground Storage Tank

Date of Government Version: 05/30/2006
Date Data Arrived at EDR: 05/31/2006
Date Made Active in Reports: 06/14/2006
Number of Days to Update: 14

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 05/30/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank

Date of Government Version: 03/28/2003
Date Data Arrived at EDR: 10/23/2003
Date Made Active in Reports: 11/26/2003
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Date of Government Version: 05/06/2006
Date Data Arrived at EDR: 05/31/2006
Date Made Active in Reports: 06/14/2006
Number of Days to Update: 14

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 05/30/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Semi-Annually

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 01/31/2006
Date Data Arrived at EDR: 03/24/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 20

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 05/15/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Date of Government Version: 05/16/2006
Date Data Arrived at EDR: 05/30/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 16

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 05/18/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Varies

City of Los Angeles Landfills

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 06/12/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/05/2006
Date Data Arrived at EDR: 02/16/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 25

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 05/15/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Annually

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 02/10/2006
Date Data Arrived at EDR: 02/28/2006
Date Made Active in Reports: 03/23/2006
Number of Days to Update: 23

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 05/01/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Semi-Annually

NAPA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Sites With Reported Contamination

Date of Government Version: 04/03/2006
Date Data Arrived at EDR: 04/04/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 9

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 06/26/2006
Next Scheduled EDR Contact: 09/25/2006
Data Release Frequency: Semi-Annually

Closed and Operating Underground Storage Tank Sites

Date of Government Version: 04/03/2006
Date Data Arrived at EDR: 04/04/2006
Date Made Active in Reports: 05/01/2006
Number of Days to Update: 27

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 06/26/2006
Next Scheduled EDR Contact: 09/25/2006
Data Release Frequency: Annually

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 02/01/2006
Date Data Arrived at EDR: 03/27/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 17

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 06/07/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 03/29/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 15

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 06/07/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 03/28/2006
Date Made Active in Reports: 05/01/2006
Number of Days to Update: 34

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 06/07/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 04/03/2006
Date Data Arrived at EDR: 04/04/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 9

Source: Placer County Health and Human Services
Telephone: 530-889-7312
Last EDR Contact: 03/20/2006
Next Scheduled EDR Contact: 06/19/2006
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Underground Storage Tank Tank List

Date of Government Version: 05/19/2006
Date Data Arrived at EDR: 05/19/2006
Date Made Active in Reports: 06/14/2006
Number of Days to Update: 26

Source: Health Services Agency
Telephone: 951-358-5055
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: Quarterly

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/19/2006
Date Data Arrived at EDR: 05/19/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 27

Source: Department of Public Health
Telephone: 951-358-5055
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS - Contaminated Sites

Date of Government Version: 05/09/2006
Date Data Arrived at EDR: 05/30/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 16

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 05/12/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Quarterly

ML - Regulatory Compliance Master List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 05/09/2006
Date Data Arrived at EDR: 05/30/2006
Date Made Active in Reports: 07/06/2006
Number of Days to Update: 37

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 05/12/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 03/22/2006
Date Data Arrived at EDR: 03/23/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 21

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/16/2005
Date Data Arrived at EDR: 05/18/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 29

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 07/07/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 11/01/2005
Date Data Arrived at EDR: 12/29/2005
Date Made Active in Reports: 01/19/2006
Number of Days to Update: 21

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 06/06/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Varies

SAN FRANCISCO COUNTY:

Local Oversite Facilities

Date of Government Version: 03/16/2006
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 27

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Quarterly

Underground Storage Tank Information

Date of Government Version: 03/16/2006
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 27

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 02/28/2006
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 27

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: Semi-Annually

SAN MATEO COUNTY:

Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 05/02/2006
Date Data Arrived at EDR: 05/02/2006
Date Made Active in Reports: 05/26/2006
Number of Days to Update: 24

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 07/24/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Annually

Fuel Leak List

Date of Government Version: 04/17/2006
Date Data Arrived at EDR: 04/24/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 17

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 07/09/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Semi-Annually

SANTA CLARA COUNTY:

Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 06/26/2006
Next Scheduled EDR Contact: 09/25/2006
Data Release Frequency: No Update Planned

LOP Listing

A listing of open leaking underground storage tanks.

Date of Government Version: 03/29/2006
Date Data Arrived at EDR: 03/30/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 14

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 07/10/2006
Next Scheduled EDR Contact: 09/25/2006
Data Release Frequency: Varies

Hazardous Material Facilities

Date of Government Version: 03/09/2006
Date Data Arrived at EDR: 03/13/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 31

Source: City of San Jose Fire Department
Telephone: 408-277-4659
Last EDR Contact: 06/30/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Annually

SOLANO COUNTY:

Leaking Underground Storage Tanks

Date of Government Version: 04/10/2006
Date Data Arrived at EDR: 04/10/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 31

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/26/2006
Next Scheduled EDR Contact: 09/25/2006
Data Release Frequency: Quarterly

Underground Storage Tanks

Date of Government Version: 04/25/2006
Date Data Arrived at EDR: 05/08/2006
Date Made Active in Reports: 06/14/2006
Number of Days to Update: 37

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/26/2006
Next Scheduled EDR Contact: 09/25/2006
Data Release Frequency: Quarterly

SONOMA COUNTY:

Leaking Underground Storage Tank Sites

Underground Storage Tank Comprehensive Facility Report

Date of Government Version: 04/17/2006
Date Data Arrived at EDR: 05/11/2006
Date Made Active in Reports: 06/14/2006
Number of Days to Update: 34

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: Annually

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/17/2006
Date Made Active in Reports: 04/07/2006
Number of Days to Update: 49

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 06/14/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 04/24/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 8

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/05/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 05/02/2006
Date Data Arrived at EDR: 05/31/2006
Date Made Active in Reports: 06/27/2006
Number of Days to Update: 27

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/31/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 05/04/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 33

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/12/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 09/30/2005
Date Data Arrived at EDR: 05/09/2006
Date Made Active in Reports: 05/24/2006
Number of Days to Update: 15

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 46

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 07/11/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: PennWell Corporation
Telephone: (800) 823-6277
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

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GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

DEVRY UNIVERSITY
22801 ROSCOE BOULEVARD
WEST HILLS, CA 91304

TARGET PROPERTY COORDINATES

Latitude (North):	34.21990 - 34° 13' 11.6"
Longitude (West):	118.6244 - 118° 37' 27.8"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	350367.0
UTM Y (Meters):	3787536.5
Elevation:	845 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	34118-B6 CALABASAS, CA
Most Recent Revision:	1967
East Map:	34118-B5 CANOGA PARK, CA
Most Recent Revision:	1967

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

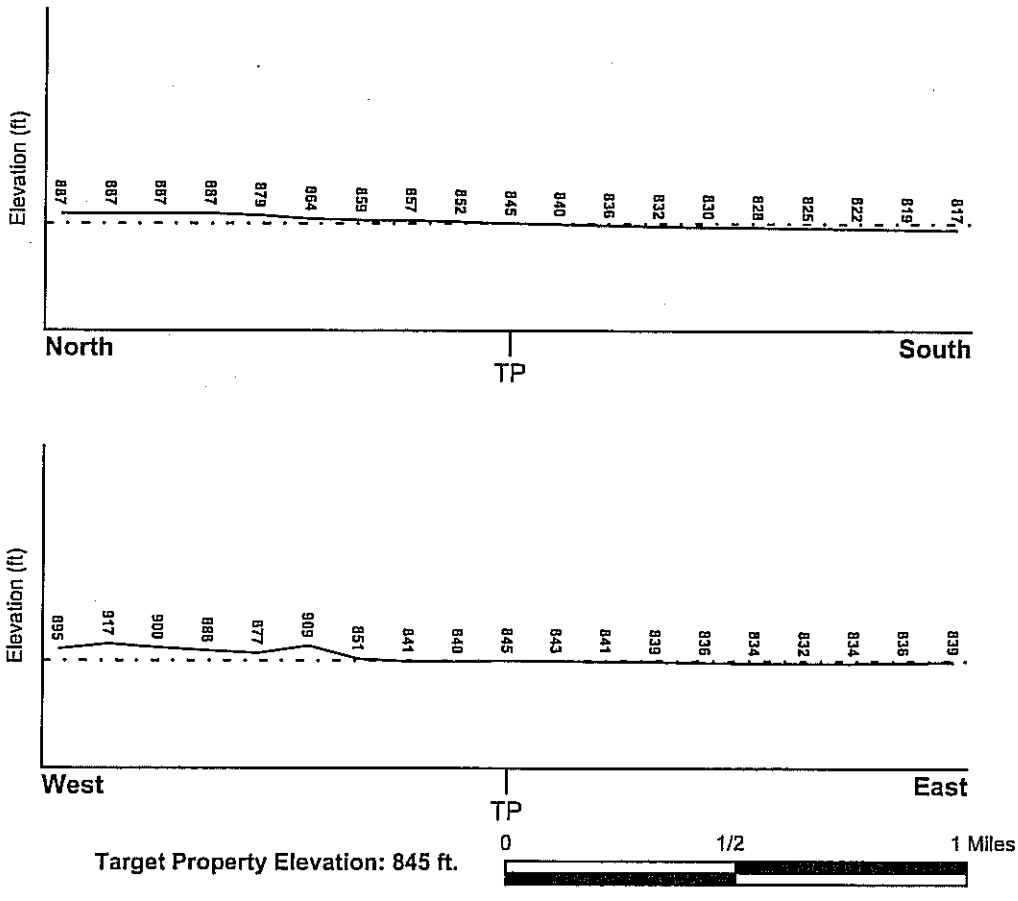
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General South

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
LOS ANGELES, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 0601370026C

Additional Panels in search area: 0601370017C

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
CANOGA PARK	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Mesozoic
System:	Cretaceous
Series:	Upper Cretaceous
Code:	uK *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	URBAN LAND
Soil Surface Texture:	variable
Hydrologic Group:	Not reported
Soil Drainage Class:	Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	Not Reported
Depth to Bedrock Min:	> 10 Inches
Depth to Bedrock Max:	> 10 Inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures:
loam
clay
silt loam
clay loam
sandy loam
gravelly - sandy loam
loamy sand
fine sand
coarse sand
sand
gravelly - sand

Surficial Soil Types:
loam
clay
silt loam
clay loam
sandy loam
gravelly - sandy loam
loamy sand
fine sand
coarse sand
sand
gravelly - sand

Shallow Soil Types:
fine sandy loam
gravelly - loam
sand
silty clay

Deeper Soil Types:
stratified
clay loam
silty clay loam
gravelly - sandy loam
coarse sand
sand
weathered bedrock
very fine sandy loam

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	CA3900735	1/2 - 1 Mile South

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 1721915.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: DeVry University	CLIENT: Winzler & Kelly
ADDRESS: 22801 Roscoe Boulevard West Hills CA 91304	CONTACT: Candice M. Cassato
LAT/LONG: 34.2199 / 118.6244	INQUIRY #: 1721915.2s DATE: July 24, 2006

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
1 **South** **1/2 - 1 Mile** **Lower**		**FRDS PWS**	**CA3900735**

PWS ID: CA3900735 PWS Status: Not Reported
Date Initiated: Not Reported Date Deactivated: Not Reported
PWS Name: CHARTER WAY MOBILE HOME PARK
HUNTINGTON BEACH, CA 926491828

Addressee / Facility: System Owner/Responsible Party
CASA DE SANTIAGO
16582 GRIMAUD LANE
HUNTINGTON BEACH, CA 926491828

Facility Latitude: 34 12 42 Facility Longitude: 118 37 30
City Served: Not Reported
Treatment Class: Untreated Population: 150

PWS currently has or had major violation(s) or enforcement: Yes

Violations information not reported.

ENFORCEMENT INFORMATION:

System Name: CHARTER WAY MOBILE HOME PA
Violation Type: Initial Tap Sampling for Pb and Cu
Contaminant: LEAD & COPPER RULE
Compliance Period: 1993-07-01 - 2000-04-04 Analytical Value: 0000000.000000000
Violation ID: 95V0001 Enforcement ID: 0089899
Enforcement Date: 2000-04-04 Enf. Action: State Compliance Achieved

System Name: CHARTER WAY MOBILE HOME PA
Violation Type: Initial Tap Sampling for Pb and Cu
Contaminant: LEAD & COPPER RULE
Compliance Period: 1993-07-01 - 2000-04-04 Analytical Value: 0000000.000000000
Violation ID: 95V0001 Enforcement ID: 0089899
Enforcement Date: 2000-04-04 Enf. Action: State Compliance Achieved

System Name: CHARTER WAY MOBILE HOME PA
Violation Type: Initial Tap Sampling for Pb and Cu
Contaminant: LEAD & COPPER RULE
Compliance Period: 1993-07-01 - 2015-12-31 Analytical Value: 0000000.000000000
Violation ID: 95V0001 Enforcement ID: Not Reported
Enforcement Date: Not Reported Enf. Action: Not Reported

WINZLER & KELLY
CONSULTING ENGINEERS

8. Are there currently, or to the best of your knowledge have there been previously, any *pits, ponds, or lagoons* located on the *property* in connection with waste treatment or waste disposal.

☐ Yes ☒ No ☐ Unknown on adjoining northerly property

9. Is there currently, or to the best of your knowledge has there been previously, any stained soil on the *property*? If yes, describe.

☐ Yes ☒ No ☐ Unknown _____

10. Are there currently, or to the best of your knowledge have there been previously, any registered or unregistered storage tanks (above or underground) located on the *property*?

☐ Yes ☒ No ☐ Unknown ~~on adjoining~~ northerly property

11. Are there currently, or to the best of your knowledge have there been previously, any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the *property* or adjacent to any structure located on the *property*? If yes, describe.

☐ Yes ☒ No ☐ Unknown _____

12. Are there currently, or to the best of your knowledge have there been previously, any flooring, drains, or walls located within the facility that are stained by substances other than water or are emitting foul odors? If yes, describe.

☐ Yes ☒ No ☐ Unknown _____

13. Is the property served by a private well or non-public water system, or is all water service provided by the city or other water agency?

☐ Private well or non-public water system (Go to 13a) ☒ City or other water agency

13a. *If the property is served by a private well or non-public water system:* Have contaminants been identified in the well or system that exceed guidelines applicable to the water system or has the well been designated as contaminated by any government/health agency?

☐ Yes ☒ No ☐ Unknown _____

14. Do you have any knowledge of environmental liens or governmental notification relating to past or recurrent violations of environmental laws with respect to the *property* or any facility located on the *property*? If yes, describe.

☐ Yes ☒ No ☐ Unknown _____

15. Have you been informed of the past or current existence of *hazardous substances or petroleum products* or environmental violations with respect to the *property* or any facility located on the *property*? If yes, describe.

☐ Yes ☒ No ☐ Unknown _____

16. Do you have any knowledge of any environmental site assessment of the *property* that indicated the presence of *hazardous substances or petroleum products* on, or contamination of, the *property* or recommended further assessment of the *property*? If yes, describe.

26. Has the facility ever had electric transformers, capacitors, or hydraulic equipment such as elevators or car repair lifts? If yes, describe.

☐ Yes ☑ No ☐ Unknown _____

27. Are you aware of the presence of any asbestos-containing or presumed asbestos-containing building materials at the property? If yes, describe.

☐ Yes ☒ No ☐ Unknown _____

28. Are you aware of the presence of any lead-based paint in the building? If yes, describe.

☐ Yes ☒ No ☐ Unknown _____

Questionnaire completed by:

Signature: [signature]
Name: Ken Kalicki
Company: Transwell Crow Company
Address: 8413 Fallbrook Ave. Suite 100 West Hills, CA, 91304

Date: 7/24/06
Title: SUP
Phone: 818-727-1193
Relationship To Property:
_____ Owner
X Owner's Representative
_____ Tenant
_____ Other: _____

Exhibit G. City of Los Angeles Fire Dept. Responses

Los Angeles City Fire Department

Telephone (213) 978-3691 Fax (213) 978-3615
200 N. Main St., 17th Fl, Los Angeles CA 90012

Request for Information
Hazardous Materials Records

*** COMPLETE ONE FORM FOR EACH ADDRESS**

Request Date: 07/24/06

Requestor's Name: CANDICE M. CASSATO Fax #: (714) 854-1895

Company/Agency: WINZLER & KELLY CONSULTING Ph. #: (714) 213-3182

Address: 3531 E. MIRALOMA AVE. Unit/Ste. #:

City: ANAHEIM State: CA Zip: 92806

Information is requested for

☐ Active Facilities Only

Check all that apply: ☐ Inventory Summary ☐ Review File (appt. required)

Business Name:

Storage Address: 22801 ROSCOE BLVD Unit/Ste. #:

City: WEST HILLS State: CA Zip: 91304

Reason for Request: PHASE I ENVIRONMENTAL SITE ASSESSMENT

FOR OFFICE USE ONLY

☒ NO INFORMATION ON FILE
☐ HARD FILE DESTROYED

☐ INFORMATION AVAILABLE

Facility I.D. No.:
Request No.:
Processed Date: 7-25-06
APPT. TO REVIEW FILE:

Processor Signature: AM

Fee Schedule:
Inventory Summary $11.00

Request Review File Copies:
Initial Fee $ 1.10
# of pgs. ____ x $0.10 = $

TOTAL: $

Los Angeles City Fire Department

Telephone (213) 978-3691 Fax (213) 978-3615
200 N. Main St., 17th Fl, Los Angeles CA 90012

Request for Information
Hazardous Materials Records

*** COMPLETE ONE FORM FOR EACH ADDRESS**

Request Date: 07-24-06

Requestor's Name: CANDICE M. CASSATO Fax #: (714) 854-1895

Company/Agency: WINZLER & KELLY CONSULTING Ph. #: (714) 213-3182

Address: 3531 E. MIRALOMA AVE. Unit/Ste. #:

City: ANAHEIM State: CA Zip: 92806

Information is requested for

☐ Active Facilities Only

Check all that apply: ☐ Inventory Summary ☐ Review File (appt. required)

Business Name:

Storage Address: 8413 FALLBROOK AVE Unit/Ste. #:

City: WEST HILLS State: CA Zip: 91304

Reason for Request: PHASE I ENVIRONMENTAL SITE ASSESSMENT

FOR OFFICE USE ONLY

☒ NO INFORMATION ON FILE
☐ HARD FILE DESTROYED

Fee Schedule:
Inventory Summary $11.00

☐ INFORMATION AVAILABLE

Facility I.D. No.:
Request No.:
Processed Date: 7-25-06
APPT. TO REVIEW FILE:

Request Review File Copies:
Initial Fee $ 1.10
# of pgs. _____ x $0.10 = $

Processor Signature: AM

TOTAL: $

UNDERGROUND TANKS REQUEST FOR FIRE PREVENTION RECORDS

OFFICE - 213/978-3700 FAX - 213/978-3616

ONE ADDRESS ONLY - PER SHEET

↓ COMPLETE THIS BOX. ONE FOR EACH PROPERTY CONCERNED ↓

PHONE NO: (714) ~~213~~ 213-3182

FAX NO: (714) 854-1895

NAME OF REQUESTER (PLEASE PRINT): CANDICE CASSATO

REPRESENTING (COMPANY NAME): WINZLER & KELLY CONSULTING ENGINEERS

SIGNATURE: Candice M Cassato DATE: 07 / 24 / 06

DRIVER LIC NO: A 4160811 EXP: 11-27-09

ADDRESS FOR WHICH RECORDS ARE REQUESTED: 22801 ROSCOE BLVD, WEST HILLS, CA.

REASON FOR REQUEST: PHASE I ENVIRONMENTAL SITE ASSESSMENT

	UGT PLAN CHECK UNIT		CENTRAL PUBLIC ASSEMBLAGE UNIT
	UGT ENFORCEMENT UNIT		WEST PUBLIC ASSEMBLAGE UNIT
	CENTRAL INDUSTRIAL UNIT		VALLEY INDUSTRIAL/BRUSH UNIT
	HIGH-RISE UNIT		VALLEY PUBLIC SAFETY UNIT
	SCHOOLS & CHURCHS UNIT		WEST INDUSTRIAL UNIT
	INSTITUTIONS UNIT		HARBOR INDUSTRIAL UNIT
	ENGINEERING UNIT		OTHER

☐ REVIEW ONLY (NO COPIES)

☐ REQUEST COPIES

NUMBER OF COPIES: _____

X .10 ¢

= _____

+ $11.00

TOTAL FEE AMOUNT: _____

BILLING &ACCOUNTS RECEIVABLE
16TH FLOOR, ROOM #1620 (REV CODE #3887)

AMOUNT PAID $

SIGNATURE:

UNDERGROUND TANKS REQUEST FOR FIRE PREVENTION RECORDS

OFFICE - 213/978-3700 FAX - 213/978-3616

ONE ADDRESS ONLY - PER SHEET

↓ COMPLETE THIS BOX. ONE FOR EACH PROPERTY CONCERNED ↓

PHONE NO: (714) 213-3182

FAX NO: (714) 854-1895

NAME OF REQUESTER (PLEASE PRINT): CANDICE CASSATO

REPRESENTING (COMPANY NAME): WINZLER & KELLY CONSULTING ENGINEERS

SIGNATURE: Candice M Cassato DATE: 07/24/06

DRIVER LIC NO: A 4160811 EXP: 11-27-09

ADDRESS FOR WHICH RECORDS ARE REQUESTED: 8413 FALLBROOK AVENUE

WEST HILLS, CA

REASON FOR REQUEST: PHASE I SITE ASSESSMENT

	UGT PLAN CHECK UNIT		CENTRAL PUBLIC ASSEMBLAGE UNIT
	UGT ENFORCEMENT UNIT		WEST PUBLIC ASSEMBLAGE UNIT
	CENTRAL INDUSTRIAL UNIT		VALLEY INDUSTRIAL/BRUSH UNIT
	HIGH-RISE UNIT		VALLEY PUBLIC SAFETY UNIT
	SCHOOLS & CHURCHS UNIT		WEST INDUSTRIAL UNIT
	INSTITUTIONS UNIT		HARBOR INDUSTRIAL UNIT
	ENGINEERING UNIT		OTHER

☐ REVIEW ONLY (NO COPIES)

☐ REQUEST COPIES

NUMBER OF COPIES: _____

X .10 ¢

= _____

+ $11.00

TOTAL FEE AMOUNT: _____

BILLING &ACCOUNTS RECEIVABLE
16TH FLOOR, ROOM #1620 (REV CODE #3887)

AMOUNT PAID $

SIGNATURE:

UNDERGROUND TANKS REQUEST FOR FIRE PREVENTION RECORDS

OFFICE - 213/978-3700 FAX - 213/978-3616

ONE ADDRESS ONLY - PER SHEET

↓ COMPLETE THIS BOX. ONE FOR EACH PROPERTY CONCERNED ↓

PHONE NO: (714) 213-3182

FAX NO: (714) 854-1895

NAME OF REQUESTER (PLEASE PRINT): CANDICE CASSATO

REPRESENTING (COMPANY NAME): WINZLER & KELLY CONSULTING ENGINEERS

SIGNATURE: Candice M Cassato DATE: 07/24/06

DRIVER LIC NO: A 4160811 EXP: 11-27-09

ADDRESS FOR WHICH RECORDS ARE REQUESTED: 8433 FALLBROOK AVE, WEST HILLS, CA

REASON FOR REQUEST: PHASE I ENVIRONMENTAL SITE ASSESSMENT

	UGT PLAN CHECK UNIT		CENTRAL PUBLIC ASSEMBLAGE UNIT
	UGT ENFORCEMENT UNIT		WEST PUBLIC ASSEMBLAGE UNIT
	CENTRAL INDUSTRIAL UNIT		VALLEY INDUSTRIAL/BRUSH UNIT
	HIGH-RISE UNIT		VALLEY PUBLIC SAFETY UNIT
	SCHOOLS & CHURCHS UNIT		WEST INDUSTRIAL UNIT
	INSTITUTIONS UNIT		HARBOR INDUSTRIAL UNIT
	ENGINEERING UNIT		OTHER

☐ REVIEW ONLY (NO COPIES)

☐ REQUEST COPIES

NUMBER OF COPIES: _____

X .10 ¢

= _____

+ $11.00

TOTAL FEE AMOUNT: _____

BILLING &ACCOUNTS RECEIVABLE
16TH FLOOR, ROOM #1620 (REV CODE #3887)

AMOUNT PAID $

SIGNATURE:

Exhibit H. Assessor's Parcel Map

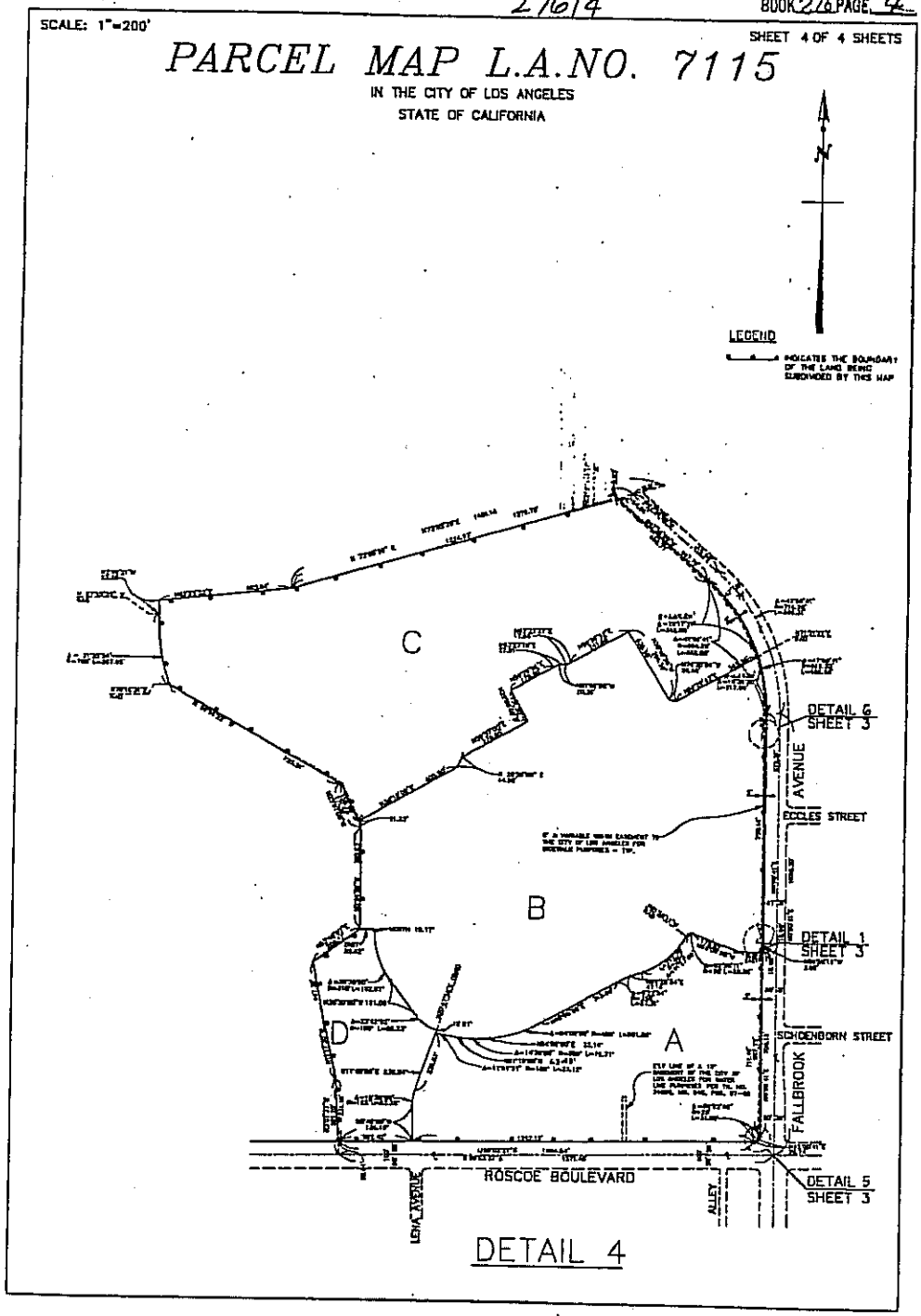
276/4 BOOK 226 PAGE 4

SCALE: 1"=200'

SHEET 4 OF 4 SHEETS

PARCEL MAP L.A.NO. 7115

IN THE CITY OF LOS ANGELES
STATE OF CALIFORNIA



DETAIL 4

Description: Los Angeles,CA Parcel Map 276.1 Page: 4 of 4
Order: 6153677 Comment:

Exhibit I. Fluor Daniel GTI Additional Site Assessment Report

FLUOR DANIEL GTI

ADDITIONAL SITE ASSESSMENT REPORT
SAMPLING AND ANALYSIS
FOR VICINITY OF CM-10 AND PARKING AREA
ADJACENT TO BUILDINGS 265, 274, AND 276
FORMER RAYTHEON MISSILE SYSTEMS COMPANY
8433 FALLBROOK AVENUE
CANOGA PARK, CALIFORNIA

Fluor Daniel GTI Project 105217

September 3, 1998

Prepared for:
Ms. Jean Roberts
Raytheon Missile Systems Company
1151 East Hermans Road
Building 826
Tucson, Arizona 85734

Fluor Daniel GTI, Inc.
Prepared by:

Robert A. Davis, Jr., R.E.A.
Project Geologist

REGISTERED GEOLOGIST
Peter
Raftery
NO. 4018
STATE OF CALIFORNIA

Peter J. Raftery, RG, CHG
Senior Hydrogeologist

Fluor Daniel GTI, Inc.
Submitted by:

Daniel L. Grasmick, P.E.
Project Engineer

R6123

1.0 INTRODUCTION

The former Raytheon Missile Systems Company (RMSC) facility at 8433 Fallbrook Avenue in Canoga Park, California (Figure 1-1), has been the subject of environmental assessment work since 1984. The facility, which was used to conduct research and development of advanced military missile systems, made use of a variety of solvents and other chemicals in moderate quantities. Thirteen underground storage tanks (USTs) were maintained for holding fuel, hydraulic oil, waste oil, and spent solvents. All USTs which contained fuel hydrocarbons, oil, or solvents were removed between 1984 and 1991.

Soil and groundwater assessment began in 1984 and has continued to date. Groundwater monitoring involving approximately 30 wells has been conducted regularly since 1991. An extensive facility-wide soil assessment was performed in 1993. Remediation methods, including excavation and in-situ techniques, have been employed to address several petroleum hydrocarbon or solvent releases to soil and/or groundwater at various locations within the facility.

The California Environmental Protection Agency (CalEPA), Department of Toxic Substances Control (DTSC) has been provided extensive information on investigation and remediation activities at the site. In a letter from Yolanda Garza of DTSC to Pamela Beilke of RMSC, dated June 5, 1997, several solid waste management units (SWMUs) and areas of concern (AOCs) at the former RMSC, Canoga Park facility were identified by the DTSC. Based on the DTSC's review of past site investigation and cleanup summary documentation, the SWMUs and AOCs were identified as needing additional investigation. The criteria for including each SWMU and AOC in the list were also described in the June 1997 letter and attachment.

In the June 5, 1997 letter, the DTSC expressed concern that the area within, at, or nearby Building 274 may be a source of trichlorofluoromethane (Freon 11). The DTSC noted that "Building 274 was reported in the Potential Source Area Investigation Report (PSAIR) as having been used for solvent cleaning...specific solvents listed... included 1,1,1-TCA and Freon 11..." The DTSC's letter also indicated that groundwater samples taken from quasi-downgradient monitoring well CM-10 exhibited significant amounts of Freon 11.

The primary objective of the Additional Site Assessment was to, in response to the DTSC's concerns, assess the lateral extent of Freon 11 in groundwater near the area of monitoring well CM-10 and near buildings 265 and 274. This report describes the scope of work, methods, and procedures that were carried out to delineate potentially impacted groundwater and soil in this area.

Included in the CAP are brief descriptions of work by Hargis & Associates, Cal Science Engineering, McLaren/Hart Environmental, ENSR Consulting and Engineering, American Environmental Management Corporation, Ground Water Resources Consultants, Inc., and Groundwater Technology, Inc. The work included UST removals, excavation of petroleum hydrocarbon-containing soil from areas adjoining USTs, UST-related soil assessment activities, installation and sampling of groundwater monitoring wells, and remediation pilot testing. Post-1992 work at the site included facility-wide assessment (*Report on Facility-Wide Assessment*, Groundwater Technology, Inc., January 4, 1994), additional pilot testing (*Report on Pilot Testing of Remedial Technologies*, Groundwater Technology. Inc., July 20, 1993), and soil sampling and analyses completed during construction of the soil and groundwater remediation system (*Analytical Results for Soil Samples, Remediation System Wells*, Groundwater Technology, Inc., December 12, 1994).

In 1995, a series of soil gas investigations were conducted to delineate the areal extent of Freon 11 contaminated soil. These investigations have shown a limited area of Freon 11 soil gas concentrations in excess of 100 μg/l to the southeast of buildings 265 and 274 (Figure 2-1). This area is believed to be the sole source of Freon 11 contamination to groundwater.

Aerial photographs of the facility show that the area to the southeast of Building 265 was not paved until at least 1960. Between 1963 and 1965, the pavement was extended to the west, to the present location of Building 276. Referring to Figure 2-2, the center of mass of the Freon 11 plume (as delineated through soil vapor sampling) lies on the edge of the original pavement to the southeast of Building 265. Moreover, conversations with former facility maintenance personnel revealed that in 1966, the cooling units in Building 263 were overhauled. The method by which spent Freon 11 was disposed is unknown.

Table 1-1 shows an inventory of coolant used at the former RMSC. As can be seen from Table 1-1, the only location where Freon 11 was used was Building 263. Therefore, the source of Freon 11 could not be from the cooling unit adjacent to Building 274, because Freon 11 was not used in that building.

If the Freon 11 were introduced solely through the asphalt parking lot near the cooling unit adjacent to Building 274, one would expect a more diffuse soil plume closer to the cooling unit. However, as Figure 2-1 shows, the center of mass appears to be localized around the former edge of the original parking lot on the southeastern side of Building 265.

2.0 FIELD SAMPLING PLAN

The installation of three temporary wells and one fixed groundwater monitoring well and subsequent groundwater sampling in the area near buildings 265, 274, and 276 were used to assess the areal extent of Freon 11 encountered in groundwater in this localized area of the facility.

2.1 Basis for Temporary and Fixed Groundwater Monitoring Well Sample Locations

As discussed above, the likely area for the source of contamination would be close to the center of mass of the Freon 11 plume as delineated by the soil vapor surveys. To further delineate the areal extent of groundwater contamination associated with the Freon 11, three temporary groundwater wells and one fixed groundwater monitoring well were constructed around the area of elevated soil gas concentrations.

Figure 2-3 shows the locations for the three temporary groundwater wells and one fixed groundwater monitoring well. The basis for selection of the locations was as follows:

Temporary Groundwater Wells

One temporary groundwater well was installed near the southeast corner of Building 276 to define the southwestern edge of the groundwater plume. Another temporary well was installed between the southwest corner of Building 265 and the northeastern corner of Building 276 to delineate the northwestern edge of the groundwater plume. The third temporary groundwater well was positioned at a location approximately midway between the Freon 11 soil gas plume and the existing groundwater monitoring well, CM-10.

Fixed Groundwater Monitoring Well

One groundwater monitoring well (MW-31) was installed within the center of mass of the soil gas plume located in the parking area between Buildings 274 and 276.

Previous groundwater investigations and groundwater monitoring events have shown "none detected" for Freon 11 in monitoring wells MW-29 and MW-30. Furthermore, hydropunch samples taken from the parking area near the northeastern edge of Building 265 have also shown "none detected" for Freon 11 (ENSR Consulting and Engineering, 1991). In light of this data, no fixed groundwater monitoring wells or temporary wells were proposed for the northeastern or east edge of the groundwater plume.

2.2 Soil Sample Collection Procedures

A truck-mounted hollow stem auger rig equipped with 8-inch diameter augers was used to drill the boreholes for the wells. During drilling activities, soil samples were collected in the vadose zone at 10-foot intervals beginning at 10 feet bgs and continuing to down until shallow groundwater was encountered.

Soil samples were collected within the vadose zone at depth intervals of 10 feet beginning at 10 feet bgs. Each soil sample was collected using a California Modified Split Spoon Sampler fitted with three pre-cleaned stainless steel sleeves. Each sampler and stainless steel sleeve was decontaminated prior to and between each sampling interval. After each sampling event, the sampler was washed in a detergent solution, rinsed in tap water, and then rinsed in distilled water. This method decontaminates the sampler and prevents cross contamination between sampling events. The augers were also decontaminated (steam cleaned) between each boring.

Soil samples were field screened using a hand held organic vapor analyzer equipped with a photoionization detector (PID). Four soil samples from each boring (a total of 36 samples) were submitted to NEL Laboratories, a California-certified analytical laboratory, for analysis.

Soil samples were collected by a Fluor Daniel GTI site geologist under the supervision of a California Registered Geologist. Each sample was logged using the Unified Soil Classification System. In addition, field observations including color, moisture content, the presence or absence of hydrocarbon staining as well as odors were documented on a field log sheet.

Depending upon sample recovery, three soil-filled stainless steel sleeves were collected at 10-foot intervals. Of these three sleeves collected at each sampling point, the bottom sleeve was covered at each end with Teflon™ sheets and covered with plastic end caps. The selected samples were labeled with site name, date, time, and sample number. The samples were stored in plastic bags on ice in an ice chest until picked up by a NEL Laboratories courier who transported the samples, under chain-of-custody protocol, to NEL Laboratories, a California-certified laboratory, for analyses. The middle sleeve was screened for the presence of volatile organic vapors using a hand held PID in the following fashion:

> The soil sample was transferred into a ziplock baggie and sealed. The sealed baggie was then placed in the sun for a minimum of 5 minutes at which time the PID probe was inserted through a small opening made by separating the top seal. The highest PID reading was then written on the field log sheet.

The third and middle samples were used for field logging.

2.3 Groundwater Monitoring Well Installation and Sampling

2.3.1 Temporary Groundwater Well Completion

Upon completion of the soil boring, the borings were converted to temporary wells with 2-inch diameter, Schedule 40 PVC casing with threaded joints. The well screens consisted of 2-inch diameter, Schedule 40 PVC with 0.020-inch slots. Wells were screened based on field observations and conditions. Screened intervals were from 35 to 60 feet (WP-DEV-1), 45 to 70 feet (WP-265-1), and 75 to 100 feet (WP-276-1). Because the wells were temporary, a polyester filter sock was wrapped around the well screen in lieu of a sandpack. Upon completion, the temporary wells were allowed to stand a minimum of 24 hours prior to groundwater sample collection. The open boreholes were covered with plastic, then with plywood, and demarcated with traffic cones to avoid the possibility of surface contamination.

After groundwater sampling, the temporary wells were withdrawn, leaving no materials within the borings. The borings were then abandoned in accordance with state and local requirements. The borings were backfilled with bentonite grout upon removal of well materials. Soil cuttings generated during drilling were contained in 55-gallon drums on site pending chemical analytical results.

2.3.2 Groundwater Monitoring Well Completion

The fixed groundwater monitoring well (MW-31) was constructed in accordance with California State Monitoring Well guidelines. Monitoring well MW-31 was constructed to a depth of 70 feet bgs using an HSA drill rig, and completed with 2-inch diameter, Schedule 40 PVC casing with threaded joints, and 0.02-inch machine slotted screens. The screened interval extended from 45 feet to 70 feet below grade. Blank casing was installed from 45 feet bgs to the ground surface. Static groundwater was measured at 48.3 feet below grade using an interface probe.

The annular space extending from the bottom of the wells to 2 feet above the top of the screened interval (43 feet) was filled with Monterey Number 3 sand. The well was then surged to allow the sand pack to properly settle within the annular space. Sand was added as needed. A 2-foot thick seal of bentonite was then placed above the sand pack. The remaining annular space above the seal (41 feet to surface grade) was backfilled with neat cement/bentonite grout. A locking steel traffic box was placed around the PVC casing at the ground surface.

2.3.3 Groundwater Sample Collection Procedures

The following describes groundwater sampling procedures employed at the temporary and fixed groundwater monitoring wells.

Temporary Groundwater Monitoring Wells

Prior to sampling, the groundwater level was measured in each of the wells. Groundwater purging sampling was accomplished using a pre-cleaned peristaltic pump. During purging, key parameters including temperature, conductivity, and pH were measured with a portable electronic meter and recorded. Purging continued until the monitored parameters stabilized. Following purging, groundwater samples were collected with a Teflon™ bailer and discharged with a non-aerating, bottom-emptying device into sterilized glass VOC vials, capped with Teflon™ septa lids, and placed on ice in an ice chest for transport. Groundwater samples were transported to a State-certified analytical laboratory within 24 hours of collection. Groundwater samples were analyzed for VOCs using EPA Method 8260.

Fixed Groundwater Monitoring Wells

Prior to obtaining water samples, the fixed groundwater monitoring well was developed and purged of water. Approximately four well volumes of water were purged from the well and placed in DOT-approved steel 55-gallon drums. During purging, groundwater pH, temperature, specific conductivity and color were monitored and recorded. Purging continued until the monitored parameters stabilized. Following purging, groundwater samples were collected with a Teflon™ bailer and discharged with a non-aerating, bottom-emptying device into sterilized glass VOC vials, capped with Teflon™ septa lids, and placed on ice in an ice chest for transport. Groundwater samples were transported to a State-certified analytical laboratory within 24 hours of collection according to the April 1998 sampling and analysis work plan. Groundwater samples were analyzed for VOCs using EPA Method 8260.

2.4 Analytical Results for Soil Samples

On May 19 and 20, 1998, 30 soil samples were collected from the four soil borings used to construct the three temporary and one fixed groundwater monitoring wells. Soil samples were collected at 10-foot intervals in each soil boring. All soil samples were submitted to a California-certified analytical laboratory. However, as described in Section 2.2, a field OVA (PID) was used to screen soil samples for the potential presence of VOCs. Of the 30 soil samples collected, 16 were selected for laboratory chemical analyses, including soil samples collected at the maximum depth of each

boring, and samples with the highest OVA field measurements. The following soil samples were analyzed:

WP-265-1	WP-276-1	WP-DEV-1	MW-31
@10'	@10'	@10'	@10'
@40'	@20'	@40'	@20'
@50'	@40'	@50'	@40'
@70'	@50'	@60'	@70'

Summary tables of soil sample analytical results for temporary wells WP-265-1, WP-276-1, WP-DEV-1, and fixed well MW-31 are provided in Tables 2-1 through 2-4, respectively. Photocopies of laboratory summary reports are provided in Appendix B. Photocopies of field log notes, including OVA field measurements collected at each sample depth, are provided in Appendix C. With one exception, concentrations of VOCs in soil were below the reported analytical detection limits in samples collected from all four boring locations. The exception was the detection of trichlorofluoromethane (Freon 11) at a concentration of 7.2 μg/kg in soil sample WP-276-1@50' (Table 2-2).

2.5 Analytical Results for Groundwater Samples

On May 21 and 22, 1998, groundwater samples were collected from temporary groundwater monitoring wells WP-265-1, WP-276-1, and WP-DEV-1, and the fixed monitoring well MW-31. A summary of groundwater sample analytical results is provided in Table 2-5. Photocopies of laboratory summary reports are provided in Appendix B. For comparison, analytical results for a groundwater sample collected from groundwater monitoring well CM-10 is also summarized in Table 2-5. Groundwater monitoring well CM-10 was sampled May 12, 1998 as part of ongoing groundwater and remediation system monitoring performed at the former RMSC facility. Trichlorofluoromethane (Freon 11) was detected in groundwater samples collected from the temporary monitoring well WP-DEV-1 (23 μg/L) and the new fixed groundwater monitoring well MW-31 (150 μg/L).

The groundwater sample collected from groundwater monitoring well CM-10 on May 12, 1998 had a trichlorofluoromethane (Freon 11) concentration of 120 μg/L. No other VOC constituents targeted by EPA Method 8260 were encountered above reported analytical detection limits.

2.6 Analytical Results for Trip and Equipment Blanks (Water)

One trip blank was submitted for chemical analysis each day of soil and groundwater sampling. Laboratory prepared trip blank samples (TB-1, TB-2, and TB-4) were analyzed for VOCs using EPA Method 8260. VOC concentrations were below reported method detection limits in all of the trip blank samples referenced above. Photocopies of trip blank sample laboratory summary reports are provided in Appendix B.

Equipment blank samples were also collected during soil and groundwater sampling activities. Equipment blank samples EB-1, EB-2, and EB-4 were analyzed for VOCs using EPA Method 8260. VOC concentrations were below reported method detection limits in all of the equipment blank samples. Photocopies of equipment blank sample laboratory summary reports are provided in Appendix B.

3.0 QUALITY ASSURANCE/QUALITY CONTROL REVIEW

This section presents the quality assurance/quality control (QA/QC) procedures employed in both the field and the laboratory, and includes their respective results. These procedures were performed in accordance with the April 1998 sampling and analysis work plan.

3.1 Field QA/QC Procedures and Review

Field QA/QC samples were collected to document the accuracy and representativeness of the confirmation samples. They are discussed below.

3.1.1 Field Duplicate Samples

Field duplicate soil samples were collected at a frequency of 10 percent. Each field duplicate was obtained by collecting an additional sample from the same location and time as the original sample, with the same sampling procedures.

Duplicate soil samples were collected from temporary well location WP-276-1 at 50 feet below grade, and from temporary well location WP-DEV-1 at 40 feet below grade surface. The only VOC constituent detected in any of the paired original and duplicate soil samples was trichlorofluoromethane (Freon 11) in WP-276-1@50' (7.2 µg/kg and <5 µg/kg, respectively). The

relative percent difference (RPD) calculated for this sample pairing and constituent was 36 percent. The RPD for the remaining VOC constituents below detectable limits were not calculated.

3.1.2 Equipment Blank Samples

Equipment blank samples are organics-free water aliquots that are placed in contact with nondedicated sampling equipment (e.g., concrete chisel) after the equipment has been decontaminated. Analytical results from these samples are used to evaluate the integrity of the decontamination process and to identify possible cross-contamination of samples. A minimum of one equipment blank sample per day was collected where nondedicated sampling equipment was used. As indicated in Section 2.6, targeted constituents of concern were not detected in equipment blanks collected during sampling activities.

3.1.3 Trip Blank Samples

Trip blank samples are organics-free water aliquots used to evaluate the potential cross-contamination of samples that may occur during sample handling. The trip blank usually originates at the contract laboratory and accompanies the sample bottles to the site. Trip blank bottles and sample analyses are usually limited to 40-ml volatile organic analytes (VOAs). A minimum of one trip blank accompanied each cooler containing VOA samples. As indicated in Section 2.6, VOCs were not detected in trip blanks collected during sampling activities.

3.2 Laboratory QA/QC Procedures and Review

Laboratory QA/QC procedures included the following:

- Laboratory analyses were performed within the required holding times for all samples.
- Appropriate minimum detection limits were achieved for the selected analytical method.
- A state-certified analytical laboratory conducted the required analyses.
- The laboratory provided for each sample a signed laboratory report which included the sample designation, date of sample collection, date of sample analysis, laboratory analytical method employed, sample volume, and the minimum detection level.

- Surrogate spike recoveries in EPA Method 8240/8260 analyses were within acceptable ranges in all soil and groundwater samples.
- Matrix spike and matrix spike duplicate recoveries in EPA Method 8260 were within acceptable ranges.

4.0 SUMMARY

Sampling and analysis activities for the CM-10 area of concern have been implemented in accordance with the April 1998 work plan prepared for this assessment activity. Activities described in the work plan have been completed. Introductory, historical, and background information are provided in Section 1.0 of this report. Field observations and laboratory analytical results are summarized in Section 2.0 of this report. QA/QC procedures implemented during this site assessment are reviewed in Section 3.0 of this report. A summary of findings of these assessment activities is presented below.

- Geologic materials encountered during subsurface drilling consisted of unconsolidated fill, interbedded siltstone, shale, clayey siltstone, and clayey shale, with some interbedded diatomaceous shale.
- The depths to water in temporary groundwater wells WP-265-1, WP-276-1, and WP-DEV-1 were 44, 44.5, and 35.8 feet, respectively. The depth to water in fixed groundwater monitoring well MW-31 was 48.3 feet. Depths to groundwater are generally consistent with data of previous site assessments and ongoing groundwater monitoring and compliance sampling and analyses.
- A trace concentration of trichlorofluoromethane (Freon 11) was encountered in one soil sample collected from soil boring location WP-276-1, at 50 feet below grade surface. However, Freon 11 was not detected in a duplicate soil sample collected at the same location and depth. No other VOCs were detected in any of the soil samples submitted for chemical analyses using EPA Method 8260.
- Freon 11 was not detected above method detection limits in groundwater samples collected from temporary wells WP-265-1 and WP-276-1. These wells were positioned near Buildings 265 and 276, respectively, and near subsurface utilities (subsurface electrical conduit lines and a sewer main, respectively).
- Freon 11 was detected in groundwater samples collected from the temporary well WP-DEV-1, and fixed groundwater monitoring well MW-31 (23 μg/L and 150 μg/L, respectively). No other VOC constituents were detected. The primary maximum contaminant level (MCL) for Freon 11 is 150 μg/L (as promulgated in California's Safe Drinking Water Standard, Title 22 of California Code of Regulations [CCR], Division 4, Chapter 15). Based on concentrations of Freon 11 in WP-DEV-1 and

MW-31, and ongoing analytical data collected from groundwater monitoring well CM-10, Freon 11 concentrations in groundwater underlying the CM-10 area of concern are at, or below, the State MCL.

Based upon the findings of this and previous site assessment activities (ENSR, 1991; Groundwater Technology Inc., 1995 and 1995a; McLaren Hart 1989), the lateral extent of potential impacts to groundwater underlying the CM-10 area of concern has been defined. Installation of a groundwater monitoring well at what is believed to be the sole source area of Freon 11 impacts to groundwater shows groundwater concentrations at the State MCL for this constituent. Further, groundwater quality data collected from temporary wells indicate that Buildings 265 and 276 are not source areas contributing to Freon 11 impacts to groundwater. Finally, downgradient concentrations of Freon 11 in CM-10 and temporary well WP-DEV-1 are below the State MCL for Freon 11.

5.0 RECOMMENDATIONS

In the Corrective Action Plan Addendum (Groundwater Technology, Inc., 1994) issued for the former Hughes Missile Systems Company Facility, no remedial action was proposed for the CM-10 are of concern because Freon 11 concentrations were below the State Drinking Water Standard or Maximum Contaminant Level (MCL) for this constituent. Based on the findings of the current assessment and the observed continuing decline in Freon 11 concentrations over time, a course of action that consists of "Monitor Only" continues to be appropriate for the CM-10 area of concern. No additional subsurface soil or groundwater assessment activities are recommended at this time. Continued quarterly sampling and analysis of groundwater collected from MW-31 and CM-10 are recommended to confirm Freon 11 levels remain at or below State MCLs established for this compound. It is recommended that quarterly monitoring of these wells continue until samples from four consecutive quarters contain concentrations of Freon 11 less than State MCL and cleanup criteria of 150 μg/L.

6.0 REFERENCES

ENSR Consulting and Engineering. 1991. *Supplementary Subsurface Investigations.* Hughes Aircraft Company, Canoga Park Facility. November 1991. ENSR Document No. 3600-051-900.

Groundwater Technology. Inc. 1993. *Report on Pilot Testing of Remedial Technologies. Hughes Missile Systems Company, Canoga Park, California.* July 20, 1993.

Groundwater Technology, Inc. 1994. *Report on Facility-Wide Assessment. Hughes Missile Systems Company, Canoga Park, California.* January 4, 1994.

Groundwater Technology, Inc. 1994. *Corrective Action Plan Addendum. Hughes Missile Systems Company. 8433 Fallbrook Avenue. Canoga Park, California.* March 29, 1994.

Groundwater Technology, Inc. 1994a. *Analytical Results for Soil Samples, Remediation System Wells. Hughes Missile Systems Company. 8433 Fallbrook Avenue. Canoga Park, California.* Letter report to Ms. Pamela Beilke, RMSC. December 12, 1994.

Groundwater Technology, Inc. 1995. *Report on Soil Gas Surveying. Former Hughes Missile Systems Company Site. Canoga Park, California.* August 1, 1995.

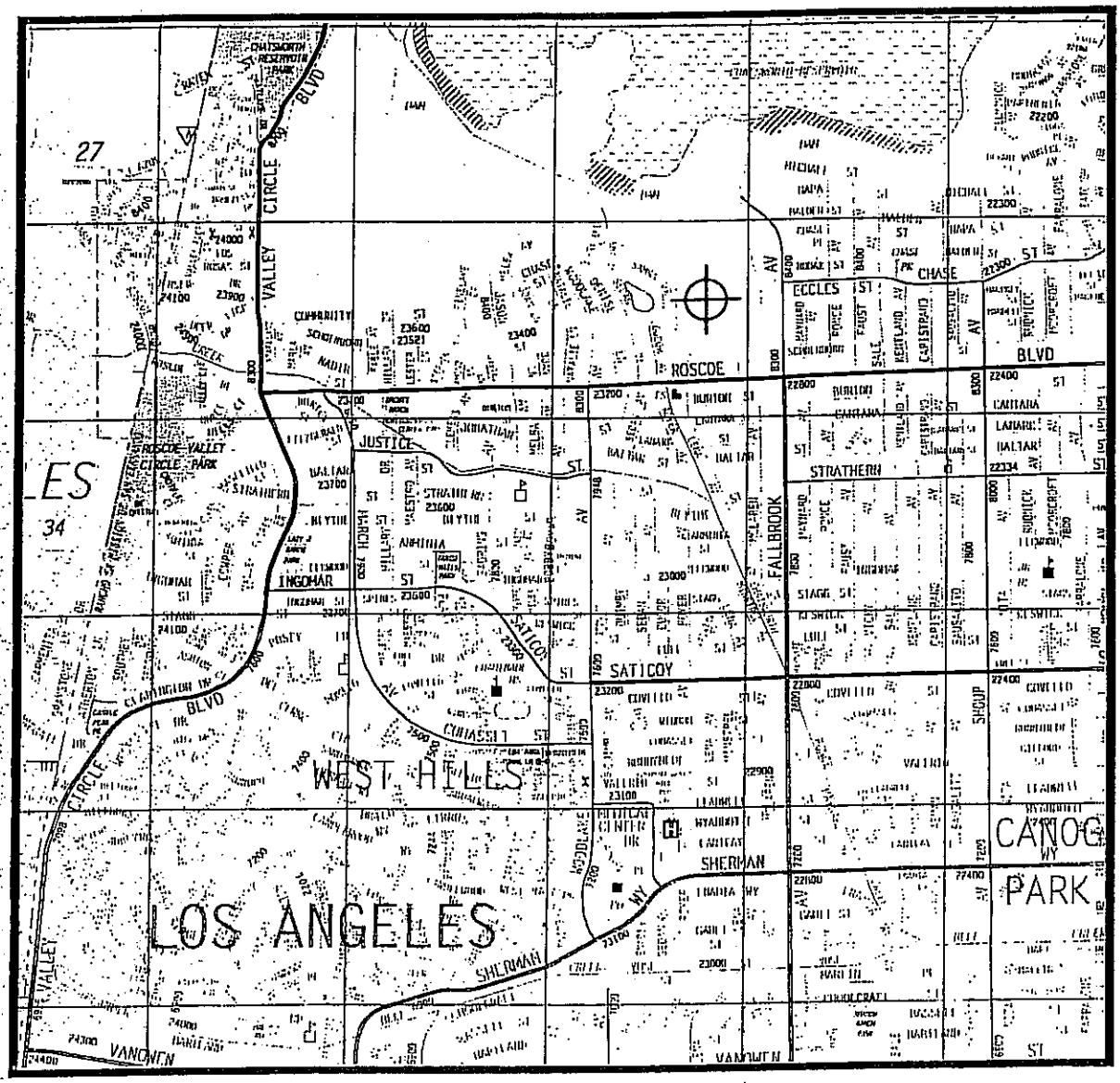
Groundwater Technology, Inc. 1995a. *Additional Soil Surveying, Area 5. Former Hughes Missile Systems Company Site. Canoga Park, California.* Letter Report to Mr. José Kou, DTSC. September 21, 1995.

Hargis & Associates, Inc. 1989. *Results of the Subsurface Investigation and Monitoring Program. Hughes Aircraft Company. Canoga Park, California.* May 3, 1989.

Hughes Environmental Systems, 1992. *Corrective Action Plan for Hughes Missile Systems Company Facility. Canoga Park, California.* October 7, 1992.

Los Angeles Regional- Water Quality Control Board (LARWQCB) *Requirements for Active Soil Gas Investigation, Well Investigation Program* (WIP) March 1994 guidelines (Appendix A).

McLaren Hart. 1989. *Potential Source Area Investigation Report for the Hughes Missile Systems Group, Canoga Park, California.* November 30, 1989.



SOURCE: THOMAS BROS. MAPS.
LOS ANGELES COUNTY
PAGE 529

SITE LOCATION

SCALE: 1:28,800

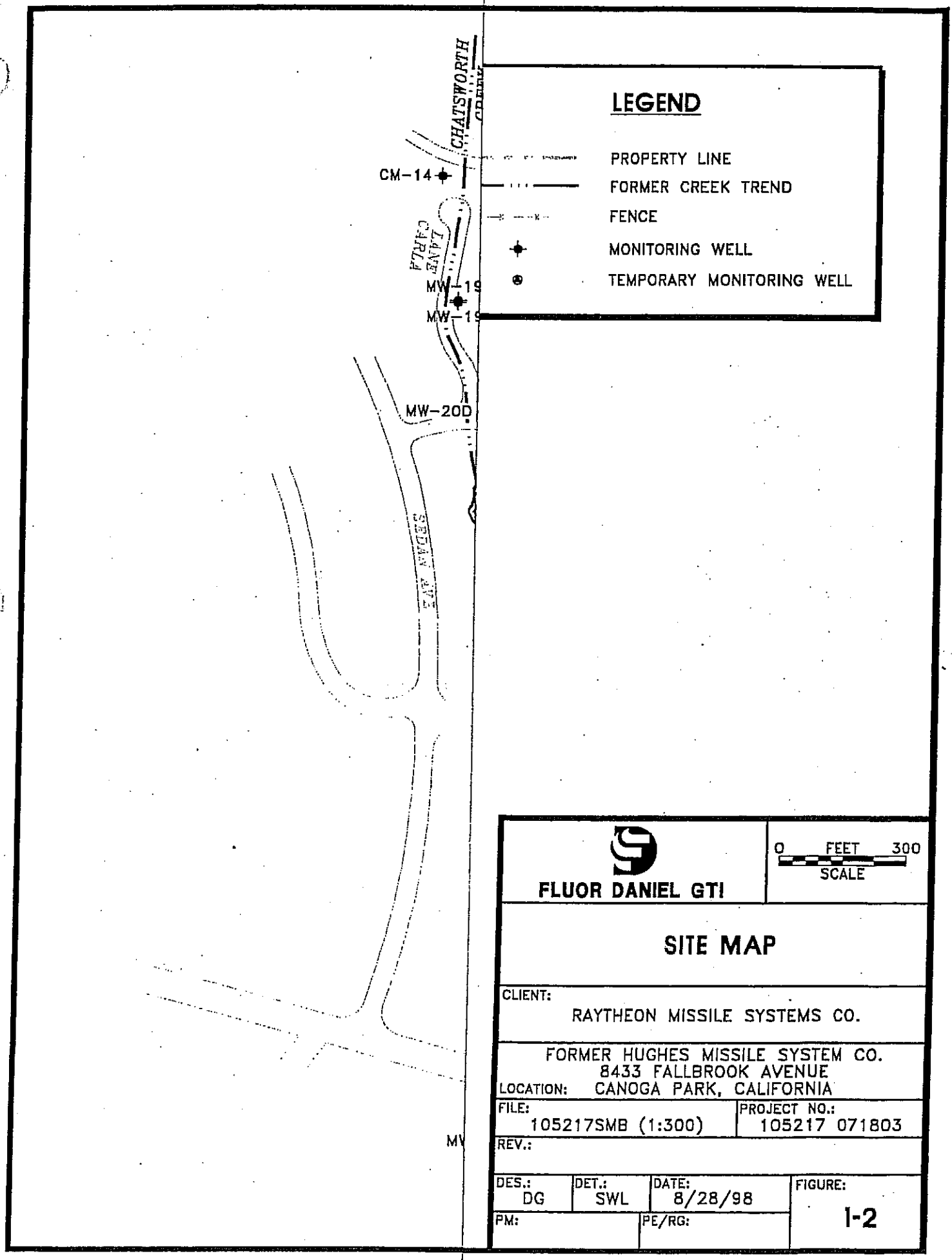
0 2400 4800

SCALE FEET

FLUOR DANIEL GTI

SITE LOCATION MAP

CLIENT: FORMER HUGHES MISSILE SYSTEM CO. FACILITY	FILE: 1193SLM1 (1:1)	PROJECT NO.: 02230 0176	PM	PE/RG
	REV.		FIGURE: 1-1	
LOCATION: 8433 FALLBROOK AVENUE CANOGA PARK, CALIFORNIA	DES. PM	DET. SWL	DATE: 3/5/98	



LEGEND

- PROPERTY LINE
- FORMER CREEK TREND
- FENCE
- MONITORING WELL
- TEMPORARY MONITORING WELL

FLUOR DANIEL GTI

0 FEET 300
SCALE

SITE MAP

CLIENT: RAYTHEON MISSILE SYSTEMS CO.

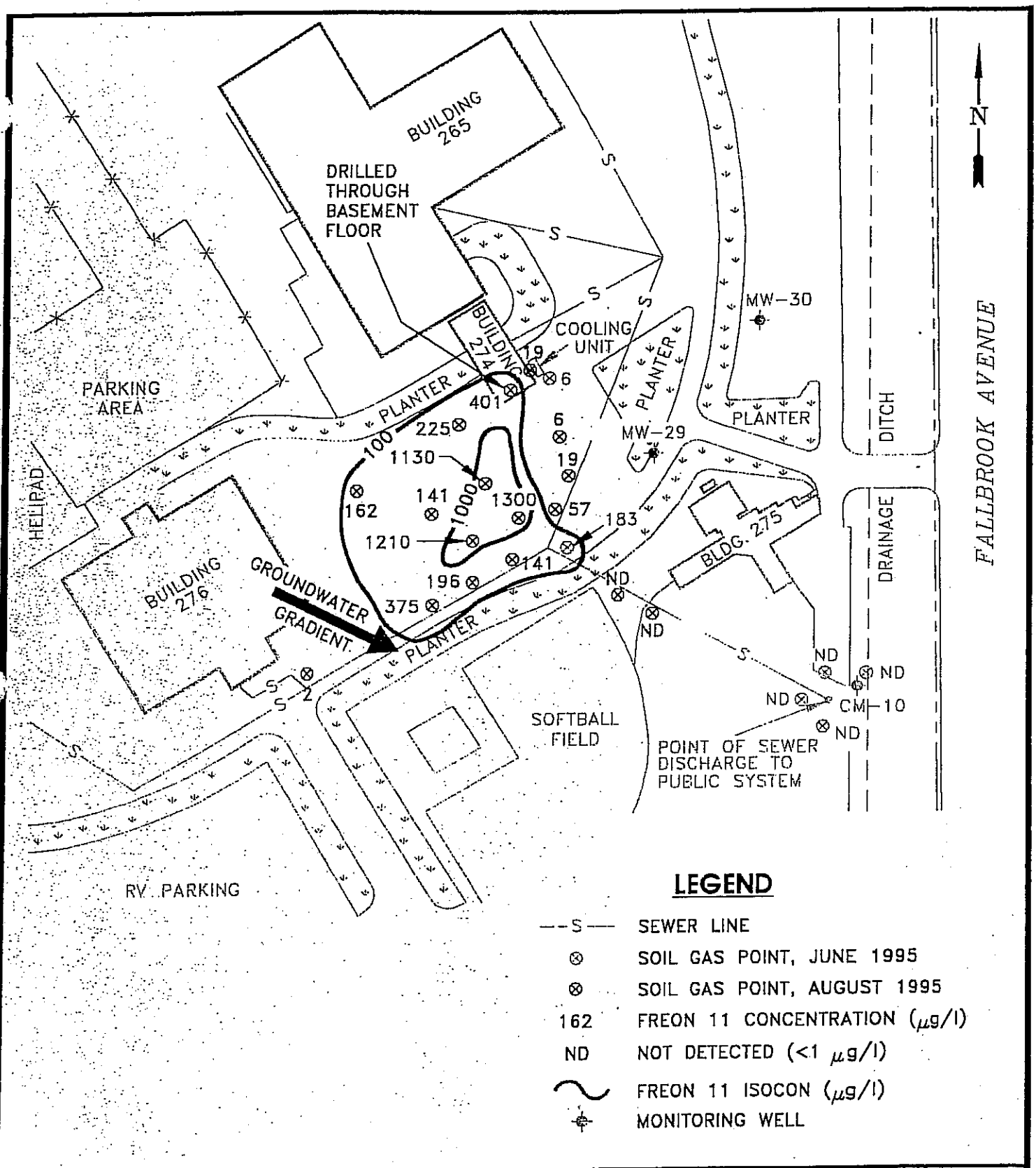
FORMER HUGHES MISSILE SYSTEM CO.
8433 FALLBROOK AVENUE
LOCATION: CANOGA PARK, CALIFORNIA

FILE:	PROJECT NO.:
105217SMB (1:300)	105217 071803

REV.:

DES.:	DET.:	DATE:	FIGURE:
DG	SWL	8/28/98	1-2

PM: PE/RG:



LEGEND

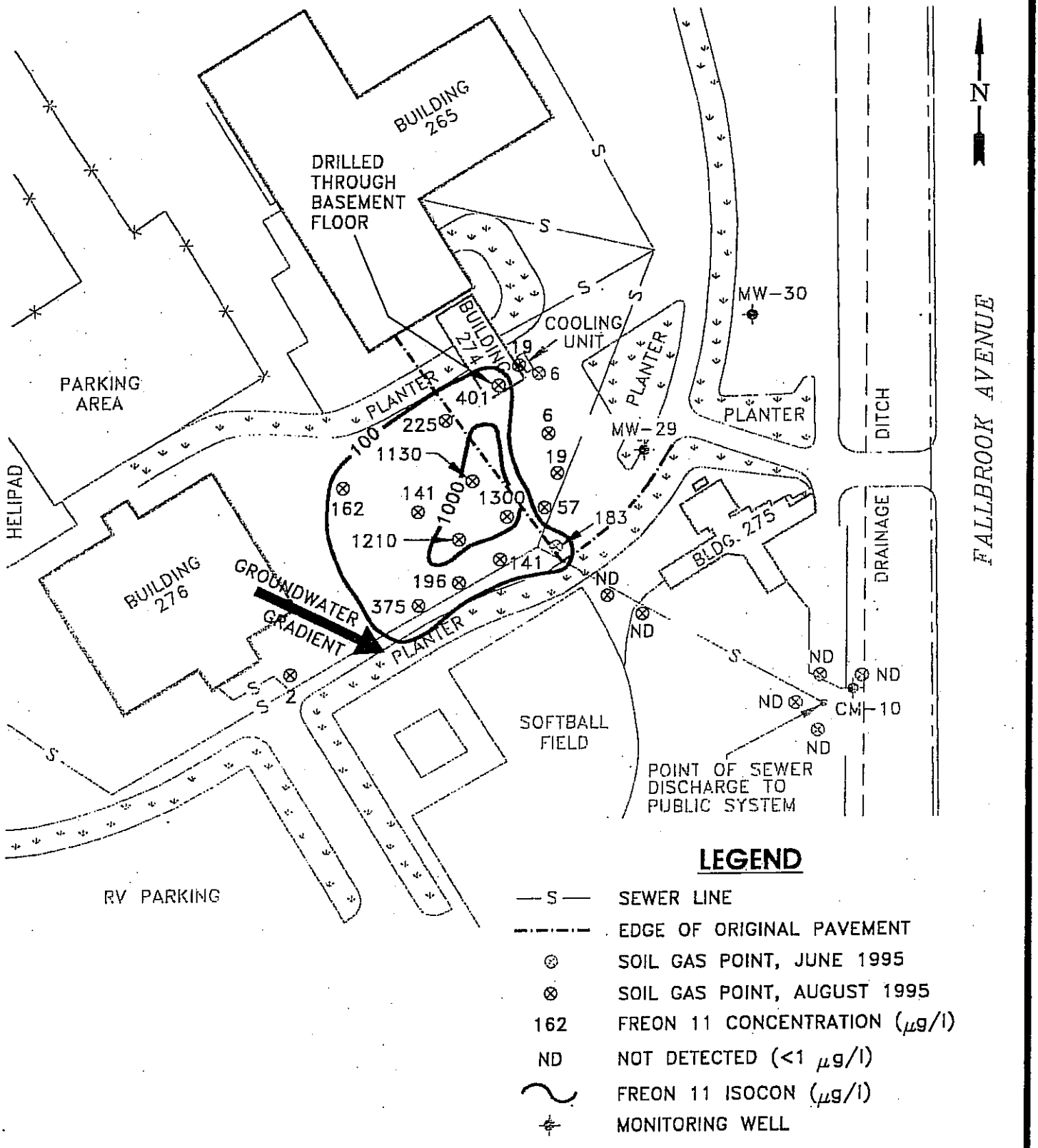
—S—	SEWER LINE
⊗	SOIL GAS POINT, JUNE 1995
⊗	SOIL GAS POINT, AUGUST 1995
162	FREON 11 CONCENTRATION (μg/l)
ND	NOT DETECTED (<1 μg/l)
~	FREON 11 ISOCON (μg/l)
⊕	MONITORING WELL

FLUOR DANIEL GTI

0 FEET 150
APPROXIMATE

FREON 11 CONCENTRATIONS IN SOIL GAS

CLIENT: RAYTHEON MISSILE SYSTEM CO.	FILE: 102599-1 (1:1800)	PROJECT NO.: 102599		PM	PE/RG
	REV.			FIGURE: 2-1	
LOCATION: 8433 FALLBROOK AVENUE CANOGA PARK, CALIFORNIA	DES. RB	DET. SWL	DATE: 8/28/98		

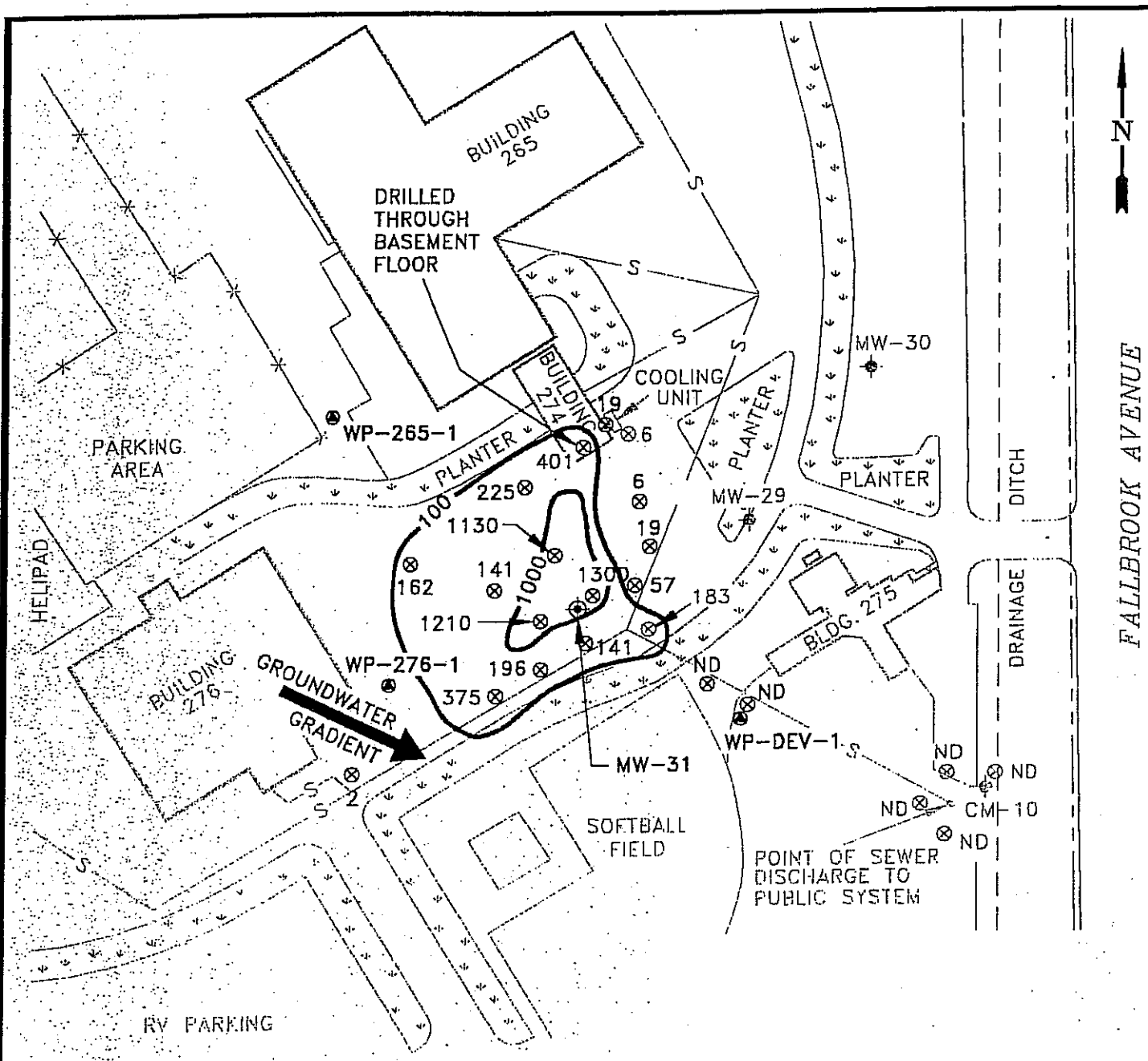


FLUOR DANIEL GTI

0 FEET 150
APPROXIMATE

FREON 11 CONCENTRATIONS IN SOIL GAS WITH RESPECT TO ORIGINAL PAVED AREA

CLIENT: RAYTHEON MISSILE SYSTEM CO.	FILE: 102599-2 (1:1800)	PROJECT NO.: 102599	PM	PE/RG
	REV.			
LOCATION: 8433 FALLBROOK AVENUE CANOGA PARK, CALIFORNIA	DES. RB	DET. SWL	DATE: 8/28/98	FIGURE: 2-2



LEGEND

- —S— SEWER LINE
- ⊗ SOIL GAS POINT, JUNE 1995
- ⊗ SOIL GAS POINT, AUGUST 1995
- 162 FREON 11 CONCENTRATION (µg/l)
- ND NOT DETECTED (<1 µg/l)
- FREON 11 ISOCON (µg/l)
- MONITORING WELL
- NEW MONITORING WELL LOCATION
- TEMPORARY WELL SAMPLING LOCATION

FLUOR DANIEL GTI

0 FEET 150
APPROXIMATE

MONITORING WELL AND TEMPORARY WELL LOCATIONS

CLIENT: RAYTHEON MISSILE SYSTEM CO.	FILE: 102599-3 (1:1800)	PROJECT NO.: 102599	PM	PE/RG	
	REV.			FIGURE: 2-3	
LOCATION: 8433 FALLBROOK AVENUE CANOGA PARK, CALIFORNIA	DES. RB	DET. SWL	DATE: 8/28/98		

TABLE 1-1

Inventory of Coolants Used at Former Raytheon Missile Systems Company Canoga Park, California

BLDG.	ROOM	FREON	LBS.
261	ROOF	22	122
262	ROOF	22	90
262	ROOF	22	46
263	1303	11	6400
263	1303	11	6400
263	1303	11	1500
265	ROOF	22	270
265	ROOF	22	88
265	ROOF	22	88
268	ROOF	22	177
268	ROOF	22	122
270	ROOF	22	84
270	ROOF	12	1100
270	ROOF	12	1100
274	EAST	22	110
276	1285	22	38
276	1285	22	70
276	1285	22	70
277	2416	22	133
277	2416	22	33
281	SOUTH	22	63

TABLE 2-1
Soil Sample Analytical Results for
Volatile Organic Compounds Using EPA 8260A
CM-10 Area of Concern
Temporary Well WP-265-1

May 1998
Former Raytheon Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park, California

	Sample Identification and Analytical Result (ug/kg)				
ANALYTE	WP-265-1@10	WP-265-1@40	WP-265-1@50	WP-265-1@70	Reported Analytical Detection Limit
trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	5

Notes:
Trichlorofluoromethane is also referred to as Freon 11.

Only detected volatile organic compounds are listed in this summary table. For a complete list of volatile organic compounds that are screened for using EPA Method 8260A, refer to the photocopies of laboratory summary reports in Appendix B.

TABLE 2-2
Soil Sample Analytical Results for
Volatile Organic Compounds Using EPA 8260A
CM-10 Area of Concern
Temporary Well WP-276-1

May 1998
Former Raytheon Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park, California

	Sample Identification and Analytical Result (ug/kg)				
ANALYTE	WP-276-1@10	WP-276-1@20	WP-276-1@40	WP-276-1@50	Reported Analytical Detection Limit
trichlorofluoromethane	<5.0	<5.0	<5.0	7.2	5

Notes:

Trichlorofluoromethane is also referred to as Freon 11.

Only detected volatile organic compounds are listed in this summary table. For a complete list of volatile organic compounds that are screened for using EPA Method 8260A, refer to the photocopies of laboratory summary reports in Appendix B.

TABLE 2-3
Soil Sample Analytical Results for
Volatile Organic Compounds Using EPA 8260A
CM-10 Area of Concern
Temporary Well WP-DEV-1

May 1998
Former Raytheon Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park, California

	Sample Identification and Analytical Result (ug/kg)				
ANALYTE	WP-DEV-1@10	WP-DEV-1@40	WP-DEV-1@50	WP-DEV-1@60	Reported Analytical Detection Limit
trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	5

Notes:

Trichlorofluoromethane is also referred to as Freon 11.

Only detected volatile organic compounds are listed in this summary table. For a complete list of volatile organic compounds that are screened for using EPA Method 8260A, refer to the photocopies of laboratory summary reports in Appendix B.

TABLE 2-4
Soil Sample Analytical Results for
Volatile Organic Compounds Using EPA 8260A
CM-10 Area of Concern
Groundwater Monitoring Well MW-31 Installation

May 1998
Former Raytheon Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park, California

	Sample Identification and Analytical Result (ug/kg)				Reported Analytical Detection Limit
ANALYTE	MW-31@10	MW-31@20	MW-31@40	MW-31@70	
trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	5

Notes:

Trichlorofluoromethane is also referred to as Freon 11.

Only detected volatile organic compounds are listed in this summary table. For a complete list of volatile organic compounds that are screened for using EPA Method 8260A, refer to the photocopies of laboratory summary reports in Appendix B.

TABLE 2-5
Groundwater Sample Analytical Results for
Volatile Organic Compounds Using EPA 8260A
CM-10 Area of Concern

May 1998
Former Raytheon Missile Systems Company, 8433 Fallbrook Avenue, Canoga Park, California

	Sample Identification and Analytical Result (ug/L)					
ANALYTE	WP-265-01	WP-276-01	WP-DEV-1	MW-31	CM-10	Reported Analytical Detection Limit
trichlorofluoromethane	<5.0	<5.0	23	150	120	5

Notes:

Trichlorofluoromethane is also referred to as Freon 11.

The California Primary Maximum Contaminant Level (M.C.L.) for trichlorofluoromethane is 150 ug/L.

Only detected volatile organic compounds are listed in this summary table. For a complete list of volatile organic compounds that are screened for using EPA Method 8260A, refer to the photocopies of laboratory summary reports in Appendix B.

Raytheon

PO Box 11337
Tucson, Arizona
85734-1337 USA
520.794.3000

In reply refer to:
11105/DSS/9850

February 12, 2010

Certified Mail –7005 1820 0001 2635 7030

Rodney Collins
Permitting Unit
California Department of Toxic Substances (Cal-DTSC)
9211 Oakdale Avenue
Chatsworth CA 91311

Subject: Draft RCRA Facility Assessment (RFA) Comments
Former Canoga Park Facility (EPA ID CAD041162124)
Canoga Park, CA

Dear Mr. Collins:

Enclosed is Raytheon's response to the draft RFA prepared by the California Department of Toxic Substance Control (DTSC) for the former Canoga Park Facility. Raytheon has always worked closely with the DTSC to ensure protection of human health and the environment, and appreciates the opportunity to review the RFA in draft form. We are providing comment to correct some of the factual inaccuracies in the draft RFA.

Over the years, Raytheon has performed numerous investigations and corrective actions at seven proposed Solid Waste Management Units (SWMUs), including two former RCRA-permitted units, and thirteen proposed Areas of Concern (AOCs) designated in June 1997 by the DTSC. Those activities have been conducted in coordination with, and under the oversight of the DTSC. All AOCs and SWMUs have been investigated, and data of sufficient quantity and quality have been collected to ensure adequate site characterization.

Remedial activities were performed in accordance with the DTSC approved Closure Plan (1996), including but not limited to excavation of contaminated soil at the two former RCRA-permitted units for which the Closure Certification Report was submitted to the DTSC in November 2002. The groundwater remediation activities, initiated in 1995, are continuing under the Corrective Action Plan (CAP) approved by the Los Angeles Regional Water Quality Control Board (LARWQCB).

Raytheon is committed to achieving RCRA closure at the former Canoga Park facility. It is Raytheon's position that all obligations to the DTSC have been fulfilled. All activities to date support acceptance of the closure certification report. Raytheon looks forward to working with you and the DTSC to achieve final closure of the site. Should the DTSC have questions regarding the closure certification, on-going remediation activities, or the numerous investigative reports, Raytheon would be pleased to respond, either in writing or at a meeting.

Sincerely,

Daniel Santamaría Samorano, P.E.
Remediation Project Manager

Enclosure: Raytheon Response to November 2009 Draft RFA

Copy:
Carmen Marriott, Raytheon
Jacques Marcillac, OTIE

	Raytheon Comment
Section/Para. No.	**Comment**
Executive Summary, p. ii paragraph 2 bullet 3	SWMU-6 and SWMU-7 are part of Zone 3 (South Plume Area), however, they are not included in any of the Zones. Please add.
Executive Summary, p. ii, item 2	AOC 4 is located in the area designated Zones 1 by the DTSC. This SWMU should be removed from list. Former Bldg. 269 footprint and adjacent areas have been well characterized (McLaren Hart, 1989, GTI, 1995, FDGTI, 1998, Allwest, 1997, IT, 1999). This area is currently under remedial action for VOCs via EISB through LARWQCB (TN&A, 2008). LTM program through LARWQCB has determined that this is not a source contributor to the Northwest area.
1.1, Page 1, paragraph 4, item 2	Please provide a definition of an AOC for proper reference.
2.1, Page 3, paragraph 1, last sentence	On Aug. 7, 2009, the City Council approved a zone change to "Light Manufacturing".
2.3., Page 5, paragraph 1, second to last sentence	In October/ November 2009 emulsified soybean oil injections were performed to address areas of the Northwest area in accordance with LARWQB approved workplan.
3.1, Page 6, paragraph 2, second sentence	The groundwater recovery and treatment system is also permitted under WDR 95-012 to treat VOCs.
3.1, Page 6, paragraph 4, last sentence	A study of radiological conditions in groundwater has been completed and the LARWQCB issued a No Further Action Letter on 10/31/09. In addition, all wells in the southern parcels of the property have been removed from the monitoring and reporting program (MRP 95-012) by the LARWQCB. Raytheon requested a No further action (NFA) status in June 2006fIn light of the radiological completion, it is anticipated that the area will receive full NFA status for the Southern Plume since groundwater concentration hav been below CAP/MCLs levels for 10 years.

	Raytheon Comment
5.0, Page 9, last paragraph, last sentence	This sentence should be deleted. Table 2 is historical chemical usage report from the McLaren Hart report(1989) and not a list of AOCs and SWMUs .
5.1, Page 11, paragraph 5, first sentence	The concentrations are relatively low: use of the term "high levels" is inappropriate as the levels are orders of magnitude below the EPA Region 9 PRG for Industrial Soils.
5.1, Page 11, paragraph 5, sentence 3	There is actually 10 feet of fill on top of former HWSA per survey data.
5.1, Page 11, paragraph 5, sentence 4	Currently the native soils underlying the former HWSA are more than 20 feet below grade due to the excavation, and surface capping by an asphalt parking lot.
5.1, Page 11, paragraph 5, last sentence	The USEPA Region IX PRG is actually 64 mg/kg for hexavalent chromium in industrial soils, not 6.4 mg/kg. Raytheon plans to re-evaluate the closure performance standards via a site specific human health risk assessment (HHRA).
5.1, Page 12, paragraph 2, last sentence	There is no current potential for surface water release being that the HWSA no longer exists and its former location is beneath 10 feet of fill. In addition, the HWSA was constructed with a berm system. During closure of the HWSA, the soil impacts were discovered immediately under the foundation at which point the soild was excavated under in accordance with DTSC approved Closure Work Plan
5.1, Page 12, paragraph 4, first sentence	Vertical and lateral extent has been defined per the Sep. 22, 2000 delineation report by TN&A. This area is part of the LARWQCB approved EISB work plan with activities planned in 2010.
5.1, Page 12, paragraph 4, last sentence	There is no potential for surface water impacts due to the 10 feet of fill and asphalt cap currently in place over the Former HWSA.
5.2, Page 14, paragraph 3	This same scenario (area paved over) is valid for SWMU-1 above, therefore SWMU-1 should also be characterized as low potential to impact surface water.
5.2, Page 14, *Recommendation for Further Action*	Raytheon has performed clean up of the site under the oversight of the LARWQCB and submitted a Closure Certification Report (1996)for the permitted units in 2002 to the DTSC. It is our understanding that the surface closure of the T3 units complete.. Please define the DTSC's

	Raytheon Comment
	"verification process" if it differs from the submittal of a closure certification report,
5.3, Page 15, *Remedial Action Taken*	CAP goals were approved by DTSC's acceptance of closure plan.
5.3, Page 16, paragraph 1, first sentence	"Remedial Action Taken" section states that this area is well defined. The potential for the soil to contribute to groundwater has been assessed: 15 years of groundwater monitoring data does not indicate a contributing source.
5.4, Page 17, *Recommendation for further Action*	No additional assessment is warranted. This SWMU should be removed from the list. Bldg. 282 has been well characterized (H&A, 1989, McLaren Hart, AEMC, 1991, AEMC, 1992, FDGTI, 1998) along with the entire Northwest area to support the remediation system design inclusive of dozens of soil borings and monitoring / extraction wells, more than 60 AS/SVE wells and more than 100 soil vapor locations. These results have been documented via dozens of investigation reports submitted between 1988 and 1998. Furthermore, the adjacent monitoring well network and associated 15 years of monitoring has determined that no soil remains that is a threat to groundwater as no significant increases have been observed since monitoring and remediation began. No sustained increases over historical high levels have been observed in wells CM-2D, CM-13, MW-23, RW-13.
5.5, Page 18, *Recommendation for Further Action*	No additional investigation is warranted. The pits and adjacent areas have been well characterized (McLaren Hart, 1989, GTI, 1995, FDGTI, 1998, Allwest, 1997, IT, 1999). This area is currently under remedial action for VOCs via EISB through LARWQCB (TN&A, 2008). Raytheon proposes to integrate cadmium and beryllium levels into HHRA as they are significantly below residential or industrial soil PRGs to achieve NFA on this SWMU.
5.6, Page 19, *History of Releases*	Radioactivity not an historical release per the LARWQCB, 2009.
5.6, Page 19, *Remedial Action Taken*	The selected remedy for this area is Monitored natural attenuation (MNA). Groundwater monitoring has confirmed the effectiveness of this strategy.
5.6, Page 20, paragraph 1, first sentence	The most recent data for Freon in November 2008 for CM-10 is 32 ug/L. The groundwater monitoring results continue to support MNA.
5.7. Page 21, *History of Releases*	Freon release delineated in GTI, 1994. SWMU-6 has already addressed this release.
5.7. Page 21, *Soil/Groundwater Release Potential*	The most recent concentration for Freon in November 2008 is 87 ug/L.

	Raytheon Comment
5.7, Page 21, *Recommendation for Further Action*	SWMU-7 should be removed from the SWMU list, all discussion per Freon distributions are identical to SWMU-6 above. Raytheon does not agree to multiple SWMU's / AOCs based on data for one area that has been well delineated. SWMU-6 should replace SWMU-7.
5.8, Page 22, *Remedial Action Taken*, last sentence	Raytheon has performed clean up of the site under the oversight of the LARWQCB and submitted a Closure Certification Report (1996)for the permitted units in 2002 to the DTSC.
5.8, Page 23, *Recommendation for Further Action*	This SWMU should be removed from the list. The USTs have been removed and area has been characterized (McLaren Hart, 1989, AEMC, 1991, FDGTI, 1998). Northwest remediation systems (GRTS, SVE/AS) has treated this area sufficiently, no BTEX detections have been detected over MCLs since 2002 (benzene at 1.4 ug/L in RW-06). The monitoring well network and last 15 years of monitoring (CM-13, RW-06, MW-23) have indicated significant reductions of BTEX components shortly after initial system start-up in 1995, with no re-bounds or increasing trends even after shut-off in 2005. This has made the determination that no soil remains at concentrations contributing to groundwater and therefore, NFA is appropriate.
5.9, Page 23, *History of Releases*, last sentence	Please note that the sewer line is deeper than the soil sample with elevated arsenic levels.
5.9, Page 24, *Surface Water Release Potential*	We do not understand this logic, sanitary sewer conveys waste effluent to a publicly owned treatment works (POTW) water treatment plant and does not discharge to surface water.
5.9, Page 24, Recommendation for Further Action	Investigation of the sewer system indicates it is not a source and should be removed from SWMU list. No industrial sewer discharge permit violations are on record against Hughes. The entire sewer line was assessed (FDGTI, 1994) inclusive of 10 locations to 30 feet bg at each location with no indicatation of a release. The one detection of arsenic at 42 mg/kg (B-SL-4) at 5 feet bg, which exceeded the closure performance standard is generally consistent with high background concentration levels in Southern California (Hunter et. al., March 2005), which concludes a level of 33.9 mg/kg as the 99th percentile upper bound. The B-SL-4 location was west of Bldg.'s 268 and 277, which have no use history involving arsenic. Furthermore, the sample was collected above the sewer line, which is approximately 8 feet bg indicating that the arsenic level at 5 feet has no correlation to a sewer discharge. In addition, the well network and monitoring for the last 15 years

	Raytheon Comment
	of downgradient wells CM-12, CM-17, CM-11, CM-11A, CM-15, MW-21S/D, MW-22 S/D and MW-30 has demonstrated no significant impacts along the sewer line, as any significant releases would have manifested into groundwater plumes.
5.10, Page 25, *History of Releases*	Bldg. 262 is >950 feet north of CM-8D and cross-gradient to it. MW-24, which is downgradient from Bldg. 262 has been ND for 16 years.CM-8D concentrations likely from loading dock area. Therefore this AOC-1 should be removed from the list.
5.10, Page 25, *Soil/Groundwater Release Potential*	Correction, CM-8 is ## ppb is part of the EISB strategy approved by the LARWQCB. The EISB strategy has been successful and concentration s continue to decline. as for the other two wells, CM-9D has been ND for 1,1-DCE since 1998 and CM-18 has been ND for 1,1-DCE since 2002. Please make the appropriate changes to the text.
5.10, Page 25, *Recommendation for Further Action*	AOC-1 should be removed from list, downgradient wells MW-24/CM-09D have been ND for 15 years. CM-8D concentrations likely from spill in loading dock area. No historical industrial sewer permit violations exist. Also, there is no technical merit to surface water releases as industrial sewer was connected to a POTW. AOC-13 should replace AOC-1.
5.11, Page 26, *Soil, Groundwater Release Potential*, first sentence.	No POTW violations exist during Hughes occupancy, Hughes/Raytheon has not been facility operator or user of the sewer system since 1997.
5.11, Page 26, *Surface Water Release Potential*	Raytheon is not aware of anye connection between sanitary sewer lines and surface water impacts at the site. Please elaborate if warranted.
5.11, Page 27, *Recommendation for Further Action*	AOC-2 should be removed from list. CM-8D concentrations likely from spill in loading dock area. No historical industrial sewer permit violations exist. Also, there is no technical merit to surface water releases as industrial sewer was connected to a POTW. AOC-13 should replace AOC-2.
5.12, Page 28, *History of Releases*	Source has been well identified as the eastern edge of SWMU-6 (parking area), no indication of any releases exist at Bldg. 265 (GTI, 1994).
5.12, Page 28, *Soil/Groundwater Release Potential*	As above, Freon source has been well defined as the parking area itself, not Bldg. 265.
5.12, Page 28, *Recommendation for Further Action*	AOC-3 should be replaced by SWMU-6. SWMU-6 has been identified as the source of Freon in groundwater.
5.13, Page 28, *Unit Description*, first sentence	AOC-4 is located in the northwestern portion of the site, not northeastern.

	Raytheon Comment
5.13, Page 30, *Recommendation for Further Action*	This SWMU should be removed from list. Former Bldg. 269 footprint and adjacent areas have been well characterized (McLaren Hart, 1989, GTI, 1995, FDGTI, 1998, Allwest, 1997, IT, 1999). This area is currently under remedial action for VOCs via EISB through LARWQCB (TN&A, 2008). LTM program through LARWQCB has determined that this is not a source contributor to the Northwest area. To date, semi-annual sampling of RW-07, RW-08 and RW-09, directly downgradient from Bldg. 269, have indicated no detectable VOCs or VOCs below CAP levels since 1995.
5.14, Page 31, *History of Releases*	Bldg. 271 is >800 feet north of CM-8D, and located cross-gradient to it and is unlikely the source of the CM-8D concentrations.
5.14, Page 31, *Air Release Potential*	Probably mean air here, not surface water.
5.14, Page 31, *Recommendation for Further Action*	Should be removed from list, Bldg. 271 area has been characterized (McLaren Hart, 1989, GTI, 1995) and most recently sampled by Environ (2009) as part of the "secondary staircase" construction project. No historical industrial wastewater permit violations exist. Down/cross gradient wells MW-24 and CM-9D have been non-detect since 1998 indicating no significant source at Bldg. 271 location. Bldg. 271 is more than 800 feet north and cross-gradient of CM-8D and could not be a source of the CM-08D concentrations, AOC-13 should replace this AOC.
5.15, Page 32, *Waste Managed,* second to last sentence	Freon source has been delineated as eastern portion of SWMU-6.
5.15, Page 33, *Recommendation for Further Action*	AOC-6 should be replaced by SWMU-6. SWMU-6 has been identified as the source of Freon in groundwater.
5.16, Page 34, *History of Releases*	Freon source has already been identified as east portion of SWMU-6.
5.16, Page 34, *Recommendation for Further Action*	AOC-7 should be replaced by SWMU-6. SWMU-6 has been identified as the source of Freon in groundwater.
5.17, Page 35, *History of Releases*	Distributions of 1,1-DCE per CM-8D, CM-9D and MW-27 are not consistent with any releases at Bldg. 281.
5.17, Page 36, *Recommendation for Further Action*	AOC-8 should be removed from list. Bldg. 281 chemical use history (antifreeze, insecticides, dichloromethane) not consistent with concentrations detected in CM-8D. Downgradient well CM-09D has no detected concentrations above MCLs since 1998 and no detections of any site COCs since 2005. AOC-13 should replace AOC-8.

	Raytheon Comment
5.19, Page 38, *Remedial Action Taken,* last sentence, Figure 4 reference.	Figure 4 is a photo of the SVE equipment, not the former excavation.
5.19, Page 38, *Recommendation for Further Action*	AOC-10 should be removed from list. Area well characterized and remediated (McLaren-Hart, 1989, AEMC, 1991, AEMC, 1992). All tanks/piping and 2,153 tons of diesel impacted soil was removed, very limited soil volume left in place. Soil with a concentration of 13,184 ppm TPH-d was excavated, AEMC 1992 report indicates a level of 861 ppm TPH-d was highest concentrations left in place. Well CM-9D located immediately adjacent and downgradient was ND for TPH in 1993 and all BTEX components have been ND for 15 years.
5.20, Page 40, *Recommendation for Further Action*	This SWMU should be removed from list. Tank T-14 has been removed and adjacent areas have been well characterized (McLaren Hart, 1989, FDGTI, 1998, Allwest, 1997, IT, 1999). The LTM program through LARWQCB has determined that this is not a source contributor to the Northwest area. Sampling of downgradient wells CM-6D and RW-09 have been non-detect or below CAP goals since 1995.
5.21, Page 40, *Unit Description*	There is no storm sewer system on-site. The site is designed with elevation changes and swales to facilitate drainage via sheet flow on the parking lot surface to perimeter collection points and on to the regional storm system.
5.21, Page 40, *Waste Managed,* second sentence	At no time has groundwater been discharged to the storm water system. Any purge water from groundwater monitoring activities have been processed in the GRTS. WDR-95-012 for the GRTS permitted Raytheon to use the treated water for a beneficial use; property owners agreed to use the treated water for on-site irrigation in the planters.
5.21, Page 41, *Surface Release Water Potential*	No discharge to storm drain system ever occurred all of the site investigation reports.
5.21, Page 41, *Recommendation for Further Action*	AOC-12 should be removed from the AOC list. The justification for identifying it as an AOC is very vague and without technical merit. The existence of the structure identified as the storm water system is unclear. Raytheon has no construction records of a site wide storm water system. MRP 95-012 was for groundwater collected from extraction wells to be treated through granular activated carbon and pumped to the site irrigation system and never discharged to storm drains. There is no record of any discharges to a storm water system. Furthermore, this is inconsistent with the previous SWMU/AOC lists identified in 1997.

	Raytheon Comment
8.1, Page 45, *Removal Considerations/Interim Measures*	Suggestion for continued investigative activities are not inconsistent with statements in Section 6.2 stating that the extent and cause of the groundwater contamination has been delineated as well as several other statements per the SWMU's and AOCs saying they are well characterized. All VOC concentrations have been fully delineated, and remedial actions (soil excavations, groundwater extraction, vapor extraction, air sparging and EISB) have been implemented as necessary. Long term monitoring (LTM) as dictated by WDR MRP 95-012 and CI-8947 will continue under the direction of the LARWQCB.

TECHNICAL MEMORANDUM

Date: July 8, 2010

Prepared For: Dr. Ann Chang, Ph.D.
Site Cleanup Unit I
Los Angeles Regional Water Quality Control Board (LARWQCB)

Prepared By: Jacques Marcillac, CHG
Project Manager
Oneida Total Integrated Enterprises, LLC (OTIE)

Re: Request for No Further Action Status for Southern Parcels
Former Canoga Park Facility
8433 Fallbrook Avenue, Canoga Park, California
SCP No. 0693, Site ID 2043T00

Dear Dr. Chang,

This memorandum has been prepared by OTIE, on behalf of Raytheon Company (Raytheon), as a follow up to TN & Associates' June 27th, 2006 technical memorandum requesting No Further Action ("NFA") status for the southern parcels of the above referenced site (Figure 1). These parcels include Assessor Parcel Numbers (APN) 2005-002-011 and 2005-002-901 (Figure 2). Samples from each of the groundwater monitoring wells (CM-10, CM-11A, CM-12, CM-15, CM-17, MW-21S, MW-21D, MW-22S, MW-22D, MW-28, MW-29, MW-30 and MW-31) located on or in the vicinity of these parcels have indicated that no volatile organic compound (VOC) concentrations have been detected above the State of California maximum contaminant levels (MCLs) for drinking water for more than 10 years. Moreover, samples from all wells except for CM-10 and MW-31 have been non-detect for the site constituents of concern (chlorinated VOCs), for more than 15 years (Table 1). In a January 22, 2007 letter, the LARWQCB approved the removal of several of these southern parcel wells from the monitoring program, but did not approve their abandonment as there were some concerns about the potential presence of man-made radiological isotopes in wells (CM-10, CM-12 and CM-17) based on community concerns with previous data (GRC, 1992).

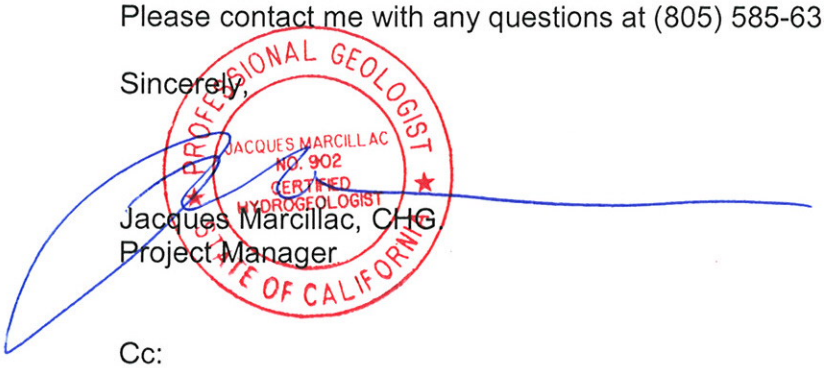
Between March 2008 and August 2009, Raytheon, OTIE and the LARWQCB worked together to evaluate radiological conditions at the site culminating in an August 2009 report documenting the activities and data evaluation (*Groundwater Investigation Report to Verify Current Radioactivity Conditions, Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California*, OTIE, August 2009). The results of the radiological evaluation indicated that the low level presence of radiological isotopes were attributable to naturally occurring sources in the underlying soil, bedrock and groundwater. The LARWQCB concurred and issued an "NFA" letter for the subject of radioactivity in groundwater at the site on October 30th, 2009.

In addition to the radiological sampling, OTIE, performed a confirmation sampling event of wells CM-10, CM-11A, CM-12, CM-15, CM-17, MW-21S, MW-21D, MW-22S, MW-22D, MW-28, MW-29, MW-30 and MW-31 in November 2008 indicating that samples from each of these wells were non-detect for all VOCs (CM-11A, CM-12, CM-15, CM-17, MW-21S, MW-21D, MW-22S, MW-22D, MW-28, MW-29 and MW-30) or below the MCL for the only detected VOC, trichlorofluoromethane (found in wells CM-10 and MW-31). Tables and graphs showing historical data are provided as Attachments.

Based on the NFA findings for radiological parameters and confirmation results for VOCs in the southern parcel wells, it is evident that water quality in this area has not been significantly impacted from historical site uses. In addition, the 15 years of data collection indicates that there are no potential sources in the soil that are degrading groundwater quality for these parcels. Raytheon requests that NFA status be issued for APN's 2005-002-011 and 2005-002-901 and as such, authorization to abandon wells CM-10, CM-11A, CM-12, CM-15, CM-17, MW-21S, MW-21D, MW-22S, MW-22D, MW-28, MW-29, MW-30 and MW-31 be granted.

Please contact me with any questions at (805) 585-6382.

Sincerely,



Jacques Marcillac, CHG
Project Manager

Cc:

Daniel Samorano, P.E. (Raytheon)
Carmen A. Marriott (Raytheon)
Rodney Collins (Department of Toxics Substances Control)
Ken Katich (Trammel Crow Company)

Attachments:

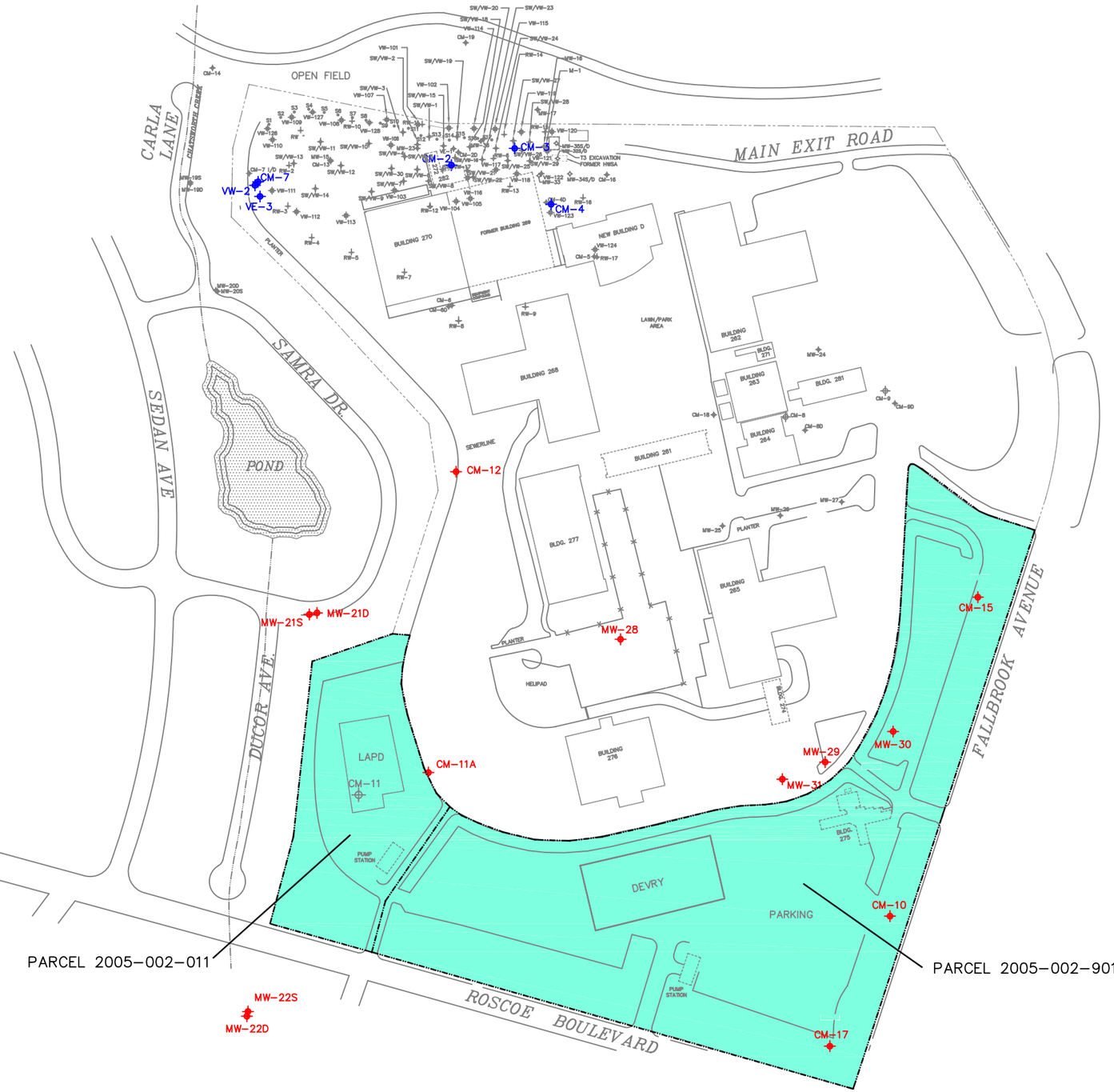
Figure 1 – Site Vicinity Map

Figure 2 – Site Plan Showing Southern Parcel Wells

Historical Laboratory Data Tables and Graphs, Wells CM-10, CM-11A, CM-12, CM-15, CM-17, MW-21S, MW-21D, MW-22S, MW-22D, MW-28, MW-29, MW-30 and MW-31

FIGURES


SITE LOCATION
Fallbrook Avenue
Plummer St
Valley Circle Blvd
Lake Manor Dr
Alta Way
Roscoe Blvd
Burton St
Community St
Nordhoff St
Osborne St
Schoenborn St
Eccles St
Chase St
Hackney St
Bahama St
Gresham St
Londelius St
Bryant St
Malden St
Lanark St
Lanark Park
Strathern St
Arminta St
Ingomar St
Elkwood St
Keswick St
Saticoy St
Lull St
Covello St
Cohasset St
Gifford St
Valerio St
Leadwell St
Wyandotte St
Cantlay St
Sherman Way
Gault St
Canoga Park
West Hills
WEST HILLS
Topanga Canyon Blvd
Canoga Ave
Owensmouth Ave
Eton Ave
Alabama Ave
Jordan Ave
Hanna Ave
Faust Ave
Ponce Ave
Capistrano Ave
Rudnick Ave
Eatough Ave
Sale Ave
Kentland Ave
Mclaren Ave
Woodlake Ave
Royer Ave
Platt Ave
March Ave
Atron Ave
Quimby Ave
Ducor Ave
Lena Ave
Sedan Ave
Bobbyboyar Ave
Mayard Ave
Farralone Ave
Remmet Ave
Glade Ave
Deering Ave
Sausalito Ave
Shoup Ave
Nita Ave
Jonathan St
Jason Ave
Clemens Ave
Denise Ln
Fable Ave
Nadir St
Rayen St
Azul Dr
Homezell Dr
Jensen Dr
Valley Circle Blvd
Chase St
Ponce Ave
Faust Ave
Michale St
Eccles St
Schoenborn St
Cantara St
Burton St
Baltar St
Blythe St
Hillary Dr
Cowper Ave
Ashton Ct
Posey Ln
Del Cerro Cir
Dorie Dr
Lance Pl
Pomelo Dr
Candlewood Way
Angela Ave
Darnoch Way
Deveron Ave
Killy Ave
Allerton Ln
Leota Ln
Chaparral Rd
County Line Rd
Ventura Way
Thompson Ave
Box Ca
Andora
Baden Ave
Needles St
Itasca St
Acorn St
Nevada Ave
Marilla St
Vassar Ave
Plummer St
N Summit Ridge Cir
Prairie St
Jordan Ave
Hanna Ave
Alabama Ave
Canoga Ave
Eton Ave
Nordh
Owensmouth Ave
Bryant St
Malden St
Chase St
Eccles St
Hackney St
Schoenborn St
Topanga Canyon Blvd
Lanark St
Lanark Park
Remmet Ave
Canoga Ave
Arminta St
27
Alabama Ave
Elkwood St
Ingomar St
Keswick St
Lull St
Saticoy St
Covello St
Cohasset St
Gifford St
Valerio St
Leadwell St
Wyandotte St
Cantlay St
Sherman Way
Gault St
Canoga Park
Jordan Ave
Eton Ave
Deering Ave
Glade Ave
Sausalito Ave
Shoup Ave
Nita Ave
Royer Ave
Woodlake Ave
Platt Ave
March Ave
Atron Ave
Quimby Ave
Ducor Ave
Lena Ave
Sedan Ave
Bobbyboyar Ave
Mayard Ave
Farralone Ave
Kentland Ave
Mclaren Ave
Faust Ave
Ponce Ave
Capistrano Ave
Rudnick Ave
Eatough Ave
Sale Ave
Jonathan St
Jason Ave
Clemens Ave
Denise Ln
Fable Ave
Nadir St
Rayen St
Azul Dr
Homezell Dr
Jensen Dr
Valley Circle Blvd
Chase St
Ponce Ave
Faust Ave
Michale St
Eccles St
Schoenborn St
Cantara St
Burton St
Baltar St
Blythe St
Hillary Dr
Cowper Ave
Ashton Ct
Posey Ln
Del Cerro Cir
Dorie Dr
Lance Pl
Pomelo Dr
Candlewood Way
Angela Ave
Darnoch Way
Deveron Ave
Killy Ave
Allerton Ln
Leota Ln
Chaparral Rd
County Line Rd
Ventura Way
Thompson Ave
Box Ca
Andora
Baden Ave
Needles St
Itasca St
Acorn St
Nevada Ave
Marilla St
Vassar Ave
Plummer St
N Summit Ridge Cir
Prairie St
Jordan Ave
Hanna Ave
Alabama Ave
Canoga Ave
Eton Ave
Nordh
Owensmouth Ave
Bryant St
Malden St
Chase St
Eccles St
Hackney St
Bahama St
Gresham St
Londelius St
Osborne



LEGEND

- PROPERTY LINE
- FORMER CREEK TREND
- RW– : GROUNDWATER RECOVERY WELL LOCATION
- CM– / MW– : GROUNDWATER MONITORING WELL LOCATION
- CM– / MW– : REQUEST TO BE ABANDONED
- CM– / MW– : WELLS APPROVED FOR ABANDONMENT
- CM–11 : ABANDONED GROUNDWATER MONITORING WELL LOCATION
- RW– : ABONDONED RECOVERY WELL
- MW–32S/D : FORMER HAZARDOUS WASTE STORAGE AREA MONITORING WELL LOCATION
- S2 : TRIPLE NESTED SPARGE WELL
- SW/VW– : VAPOR EXTRACTION (/SPARGE) WELL LOCATION
- VW– : VAPOR EXTRACTION WELL LOCATION
- SPARGE (/VAPOR EXTRACTION) WELL LOCATION
- DIRECTIONALLY DRILLED WELL LOCATION
- SOUTHERN PARCELS
- CURRENT BUILDING
- FORMER BUILDING

SCALE IN FEET
0 140 280 420

DATE:	FILE NAME:	APPROVED BY:
07/06/2010	Fig2 Site Plan.DWG	

SITE PLAN SHOWING
SOUTHERN PARCEL WELLS

FORMER RAYTHEON FACILITY
8433 FALLBROOK AVENUE
CANOGA PARK, CALIFORNIA

OTIE
Oneida Total Integrated Enterprises

FIGURE
2

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ATTACHMENT A

HISTORICAL GROUNDWATER DATA

TABLE 1
HISTORICAL VOLATILE ORGANIC COMPOUND CONCENTRATIONS IN GROUNDWATER MONITORING WELLS - 1995-Present
Former Canoga Park Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
CM-10	03/08/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**190**	--
	06/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.58**	<0.5	<0.5	**93**	--
	09/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**100**	--
	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**120**	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<20	<2.0	**39**	--
	05/14/96	<10	<10	<10	<25	<10	<10	<10	<10	<10	**110**	--
	08/12/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**88**	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<10	<2.0	<2.0	<2.0	<2.0	**120**	--
	05/13/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**93**	--
	12/15/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**100**	--
	05/12/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**120**	--
	12/04/98	<5.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<5.0	<2.0	**110**	--
	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	08/04/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**93**	--
	10/19/99	<5.0	<.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**74**	--
	12/27/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**82**	--
	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**80**	--
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**55**	--
	06/26/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**56**	--
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**55**	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**29**	--
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/16/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**56**	--
	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**47**	--
	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**40**	--
	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**40**	--
	07/14/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**27**	<0.5
	11/08/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**28**	<0.5
	11/21/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**32**	<0.5
CM-11A	08/11/98	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	11/12/98	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<2.0	<2.0	<2.0	<0.5	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	01/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/11/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/21/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/06/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/21/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-12	03/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/06/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**9.3**	<0.5	<0.5	<5.0	--
	09/19/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	--
	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	**<0.5**	<0.5	<0.5	<0.5	<5.0	--

TABLE 1
HISTORICAL VOLATILE ORGANIC COMPOUND CONCENTRATIONS IN GROUNDWATER MONITORING WELLS - 1995-Present
Former Canoga Park Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
CM-12	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
(con't)	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/26/01	<0.5	<0.5	<0.5	<0.5	<0.5	**0.58**	<0.5	<0.5	<0.5	<0.5	--
	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/10/02	<0.5	<0.5	<0.5	<0.5	**7.2**	**4.0**	<0.5	<0.5	**27**	<0.5	--
	06/15/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/15/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/06/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/02/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/19/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-15	03/08/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/06/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**34**	<0.5	<0.5	<0.5	--
	09/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/15/97	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/27/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/22/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-17	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	11/21/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5

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HISTORICAL VOLATILE ORGANIC COMPOUND CONCENTRATIONS IN GROUNDWATER MONITORING WELLS - 1995-Present
Former Canoga Park Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-21S	03/07/95	<0.5	<0.5	<0.5	**0.6**	<0.5	<0.5	<0.5	<0.5	**1.0**	<0.5	--
	09/18/95	<0.5	<0.5	<0.5	**0.87**	<0.5	<0.5	<0.5	<0.5	**1.1**	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/19/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-21D	11/19/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-22S	03/07/95	<0.5	<0.5	<0.5	**1.7**	<0.5	**1.1**	<0.5	<0.5	<0.5	<0.5	**--**
	11/21/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-22D	11/21/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-28	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/11/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/25/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/19/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-29	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/21/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.66**	--
	11/20/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-30	03/07/95	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**--**
	06/05/95	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	**21**	<0.5	<0.5	<0.5	--
	09/19/95	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	**3.8**	<0.5	<0.5	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/15/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/27/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/21/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5

TABLE 1
HISTORICAL VOLATILE ORGANIC COMPOUND CONCENTRATIONS IN GROUNDWATER MONITORING WELLS - 1995-Present
Former Canoga Park Facility
8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-31	08/11/98	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**160**	--
	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/04/98	<5.0	<2.0	<2.0	<5.0	<2.0	<2.0	<5.0	<5.0	<2.0	**190**	--
	08/04/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	10/19/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**160**	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**130**	--
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	**0.53**	<0.5	<0.5	<0.5	**130**	--
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**110**	--
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**120**	--
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**120**	--
	10/21/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**92**	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**81**	--
	11/06/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**100**	<0.5
	11/19/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**87**	<0.5

Notes:

1) All concentrations in µg/L.

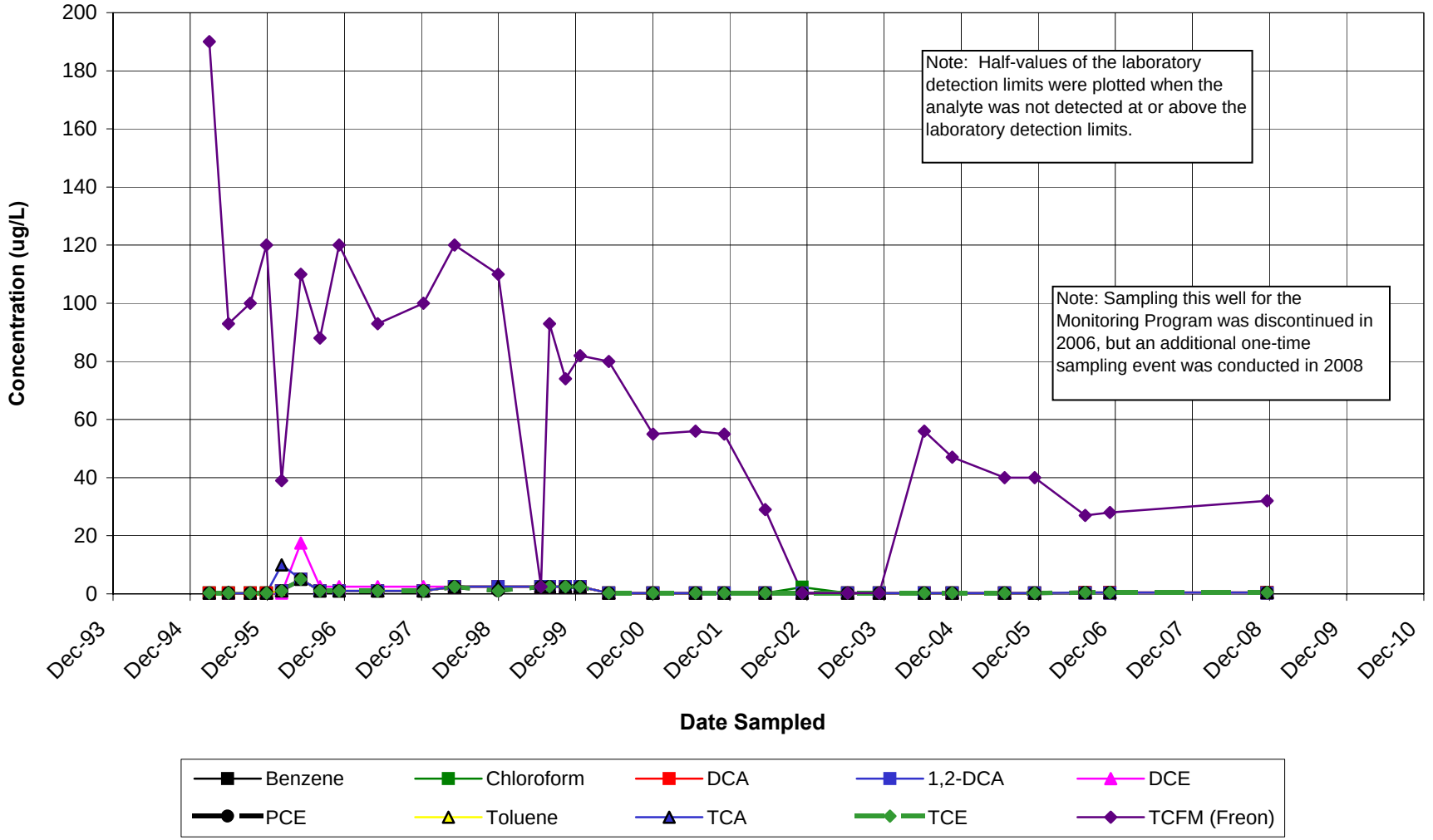
2) All analyses done by EPA Method 8260, 8260B or 8021B.

3) '-- = not analyzed for parameter

4) Only wells with detectable concentrations of constituents of concern since March 1995 are shown.

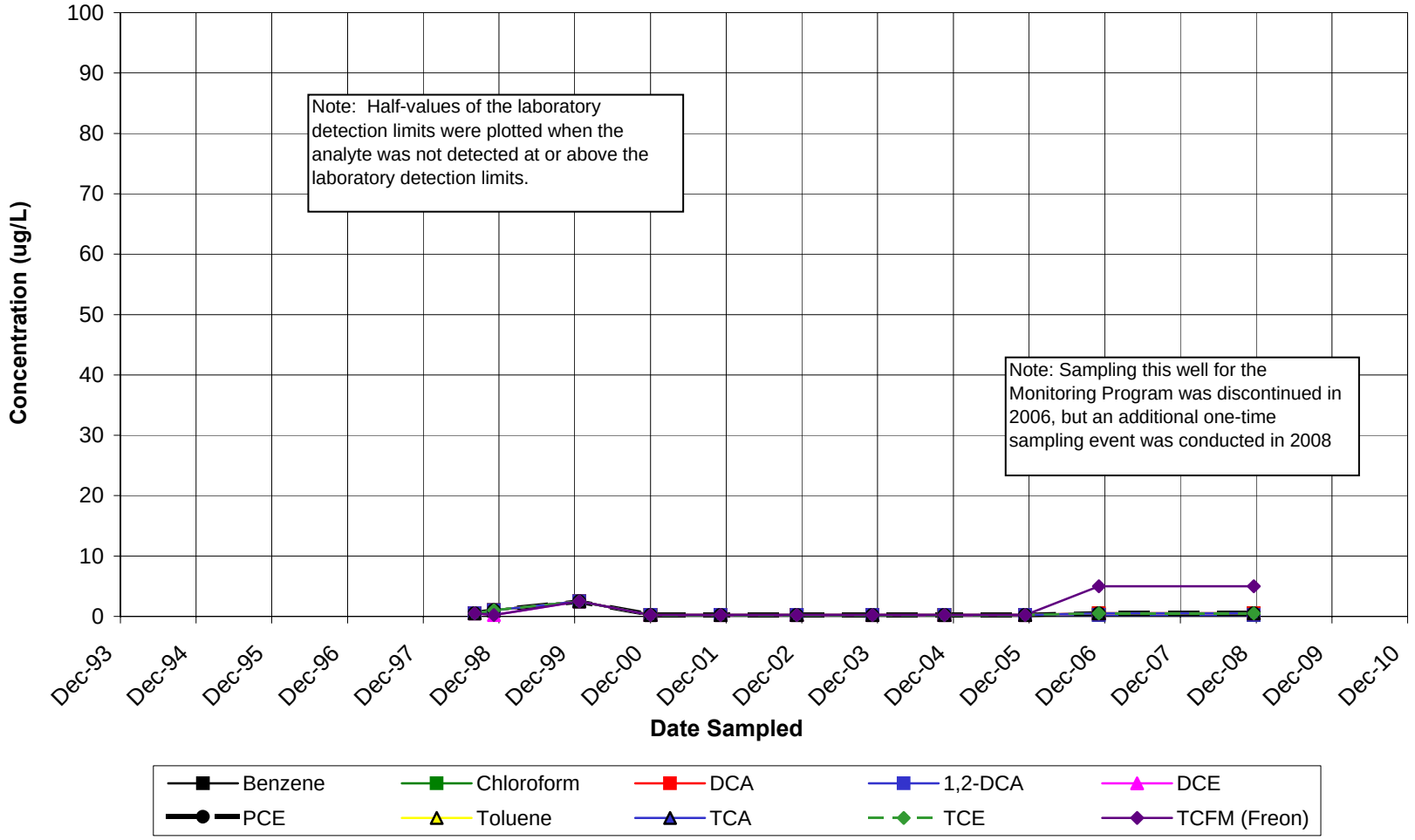
5) 1,1-DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; 1,1-DCE = 1,1-Dichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; PCE = Tetrachloroethene; 1,1,1-TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane; VC = Vinyl Chloride.

Graph 13: Volatile Organic Compounds vs. Time
Monitoring Well CM-10
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



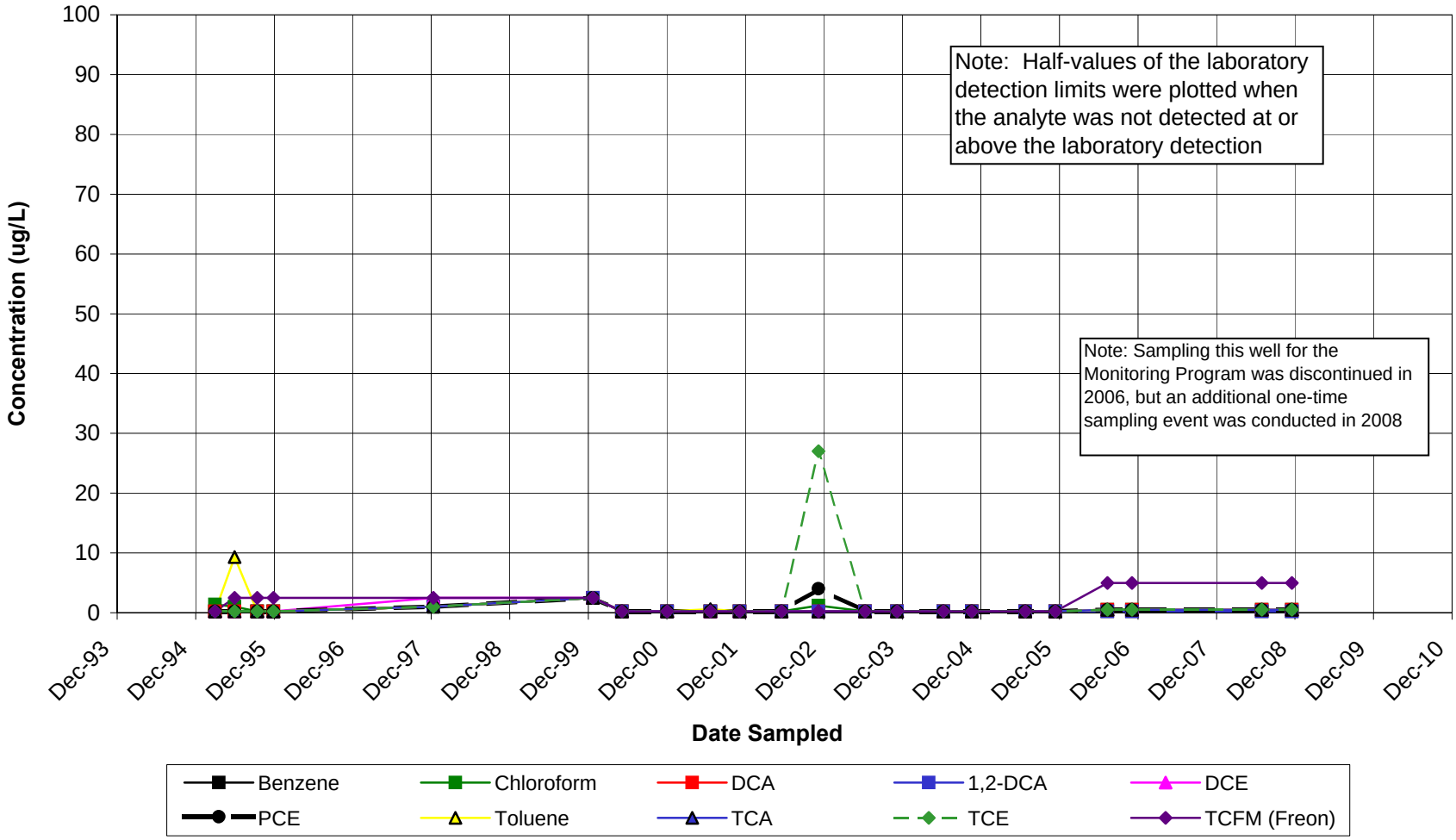
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 14: Volatile Organic Compounds vs. Time
Monitoring Well CM-11A
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



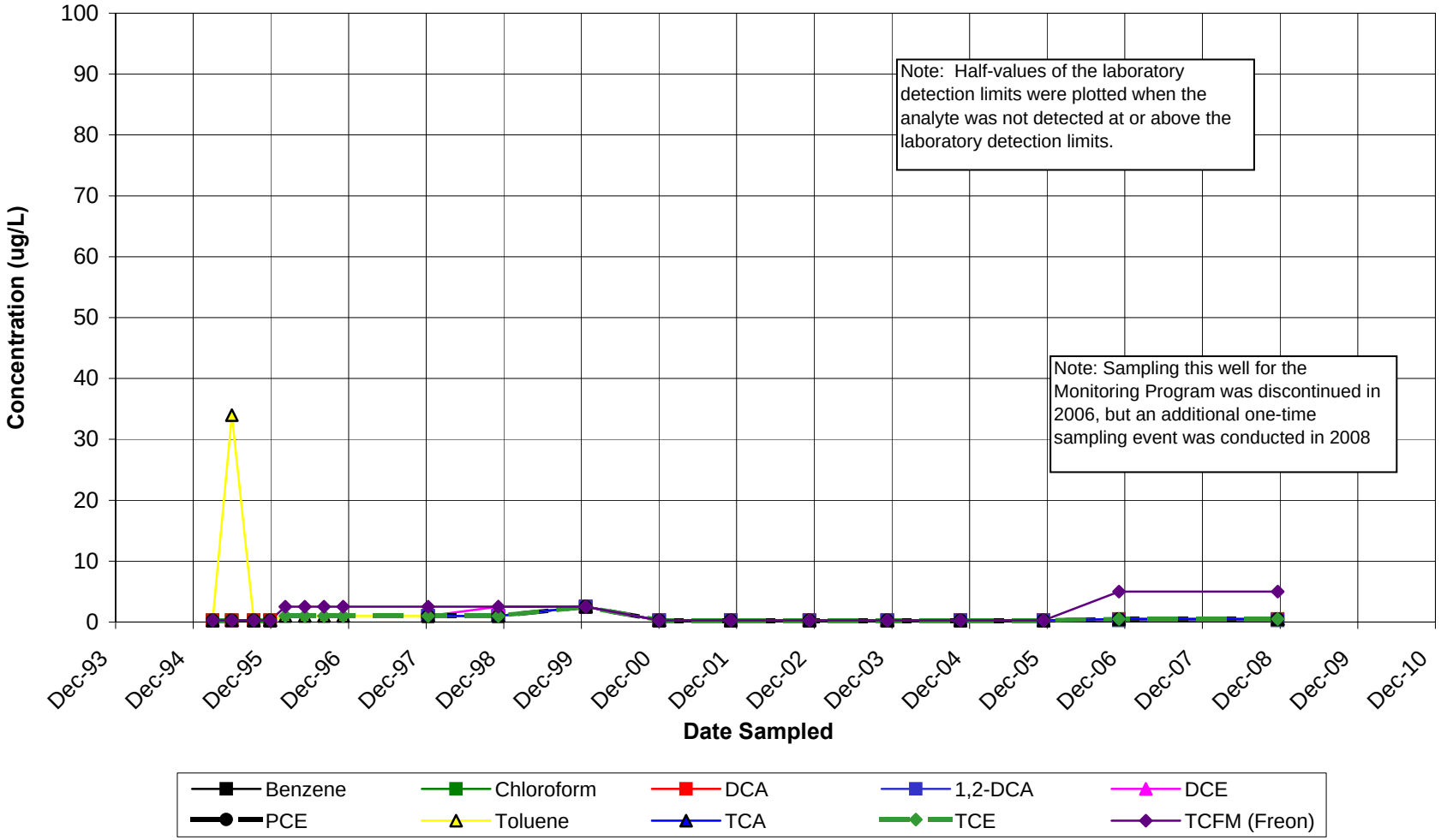
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 15: Volatile Organic Compounds vs. Time
Monitoring Well CM-12
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, Califorina



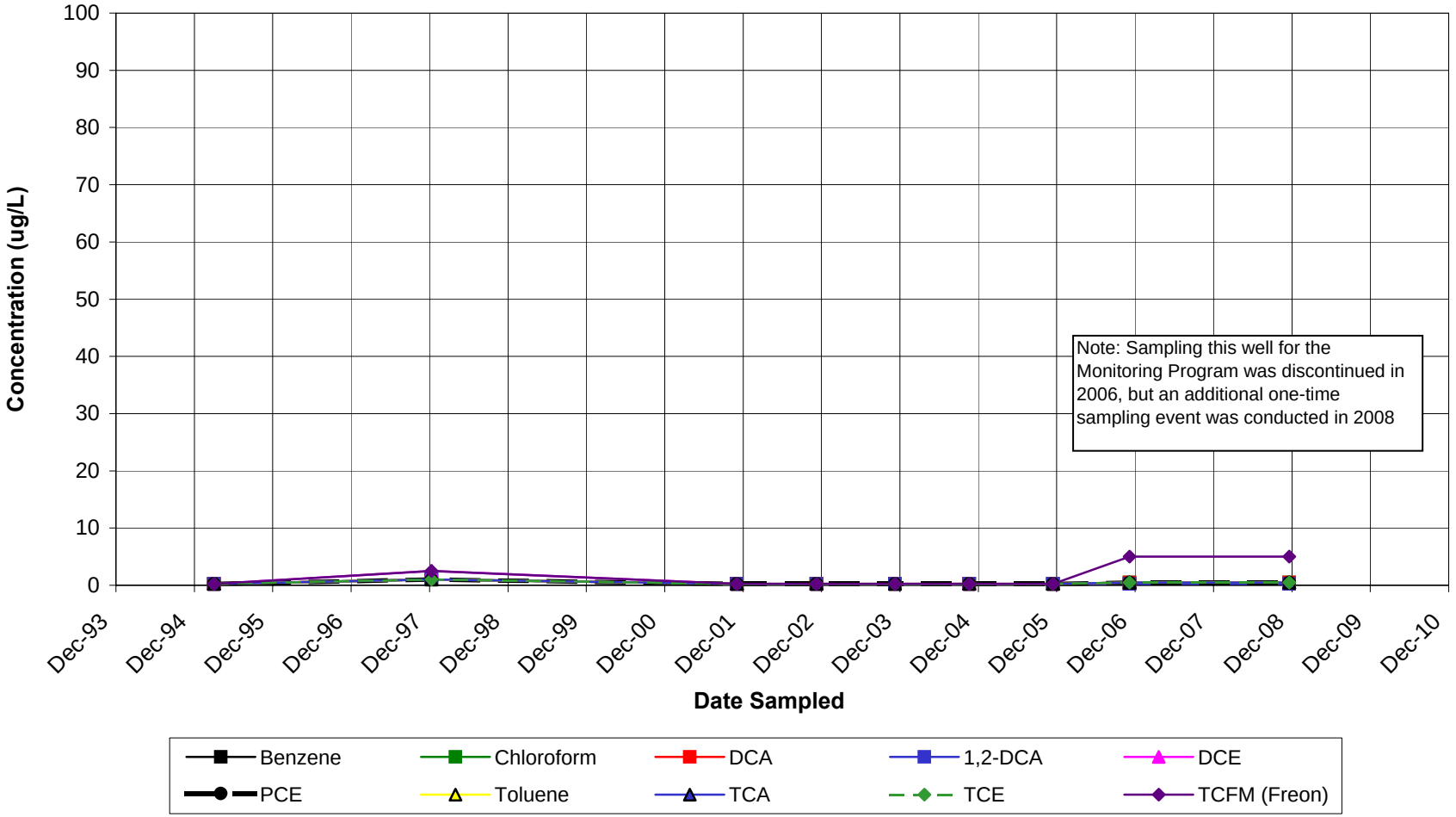
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 18: Volatile Organic Compounds vs. Time
Monitoring Well CM-15
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



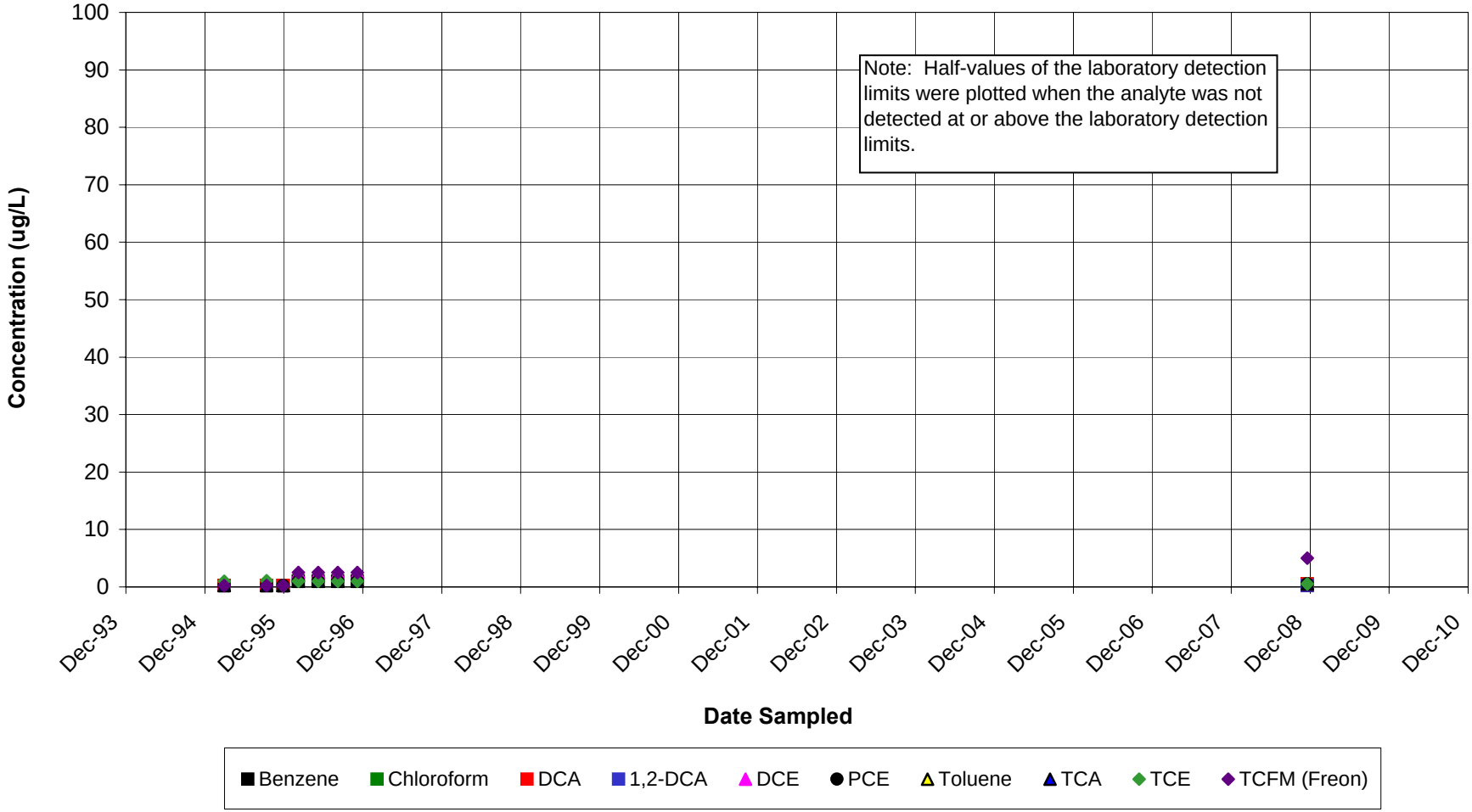
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 20: Volatile Organic Compounds vs. Time
Monitoring Well CM-17
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



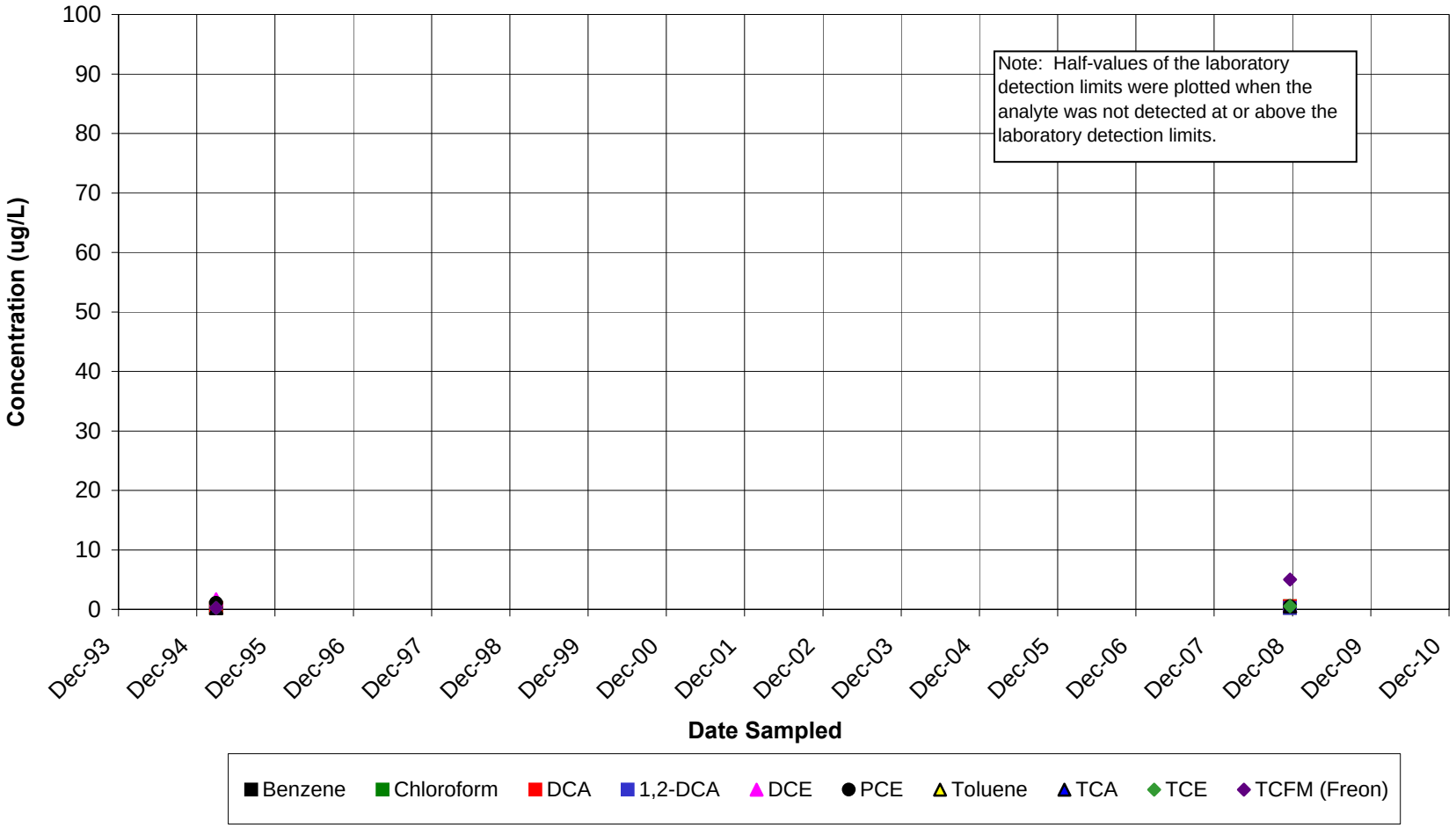
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 29: Volatile Organic Compounds vs. Time
Monitoring Well MW-21S
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



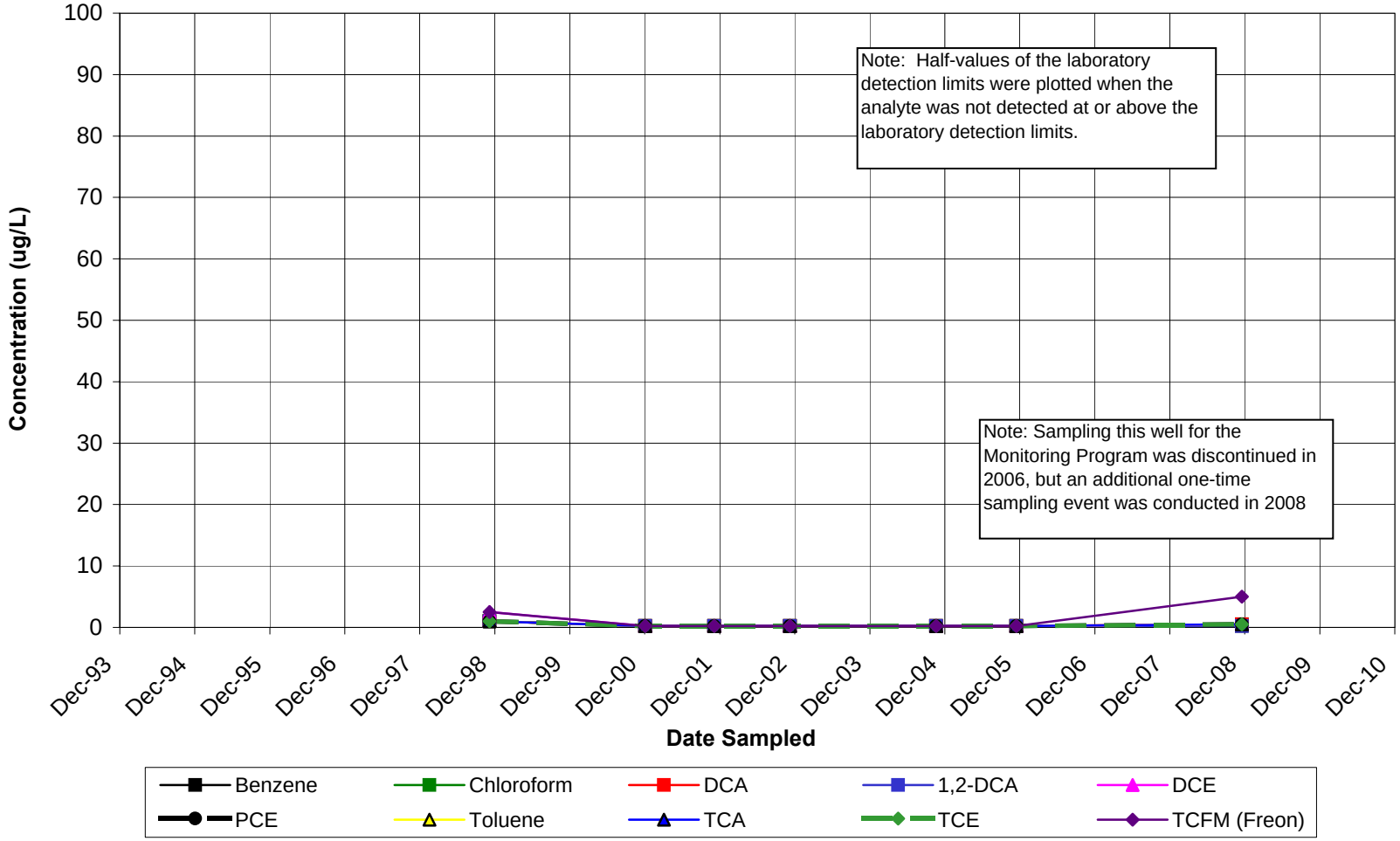
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 30: Volatile Organic Compounds vs. Time
Monitoring Well MW-22S
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



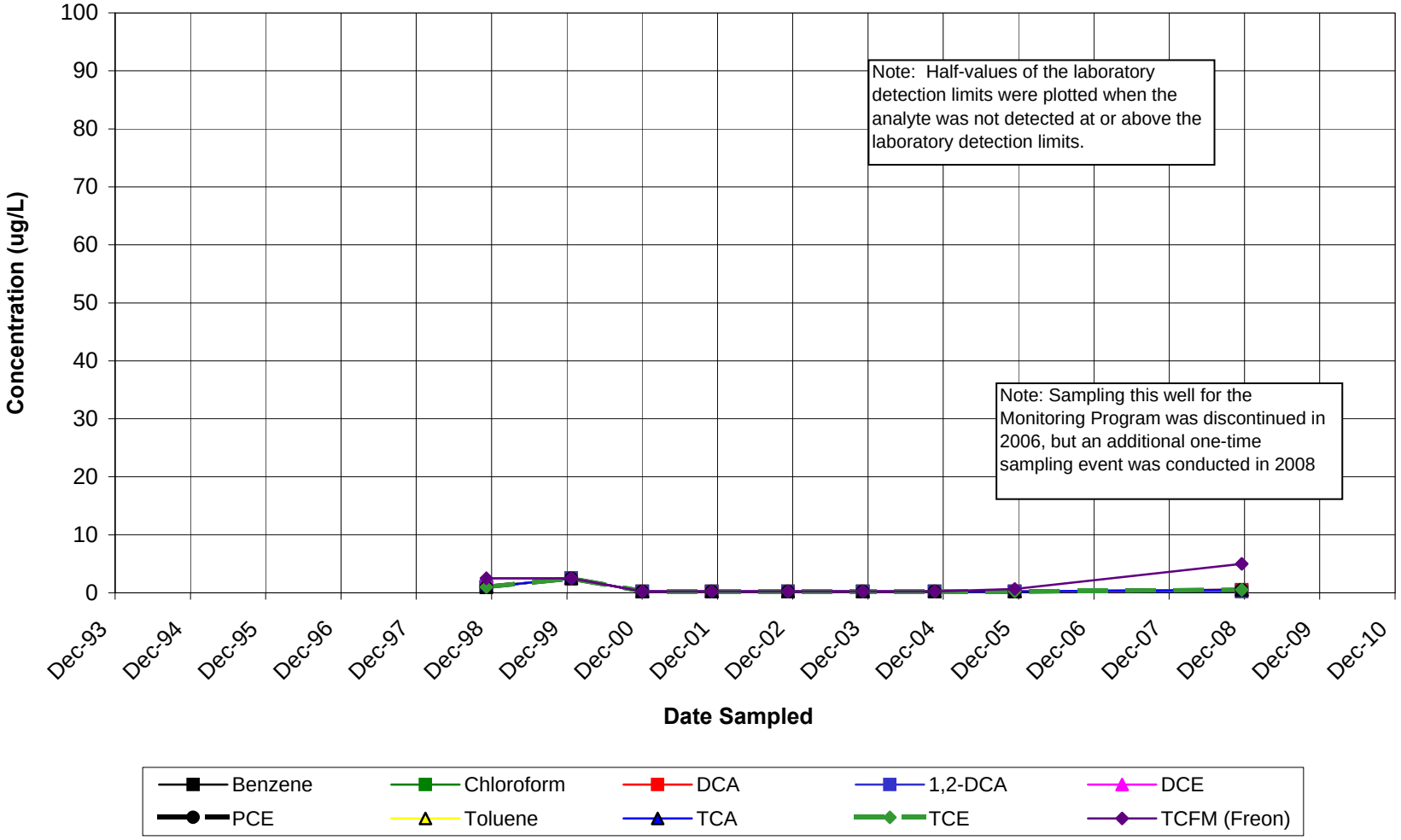
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 36: Volatile Organic Compounds vs. Time
Monitoring Well MW-28
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



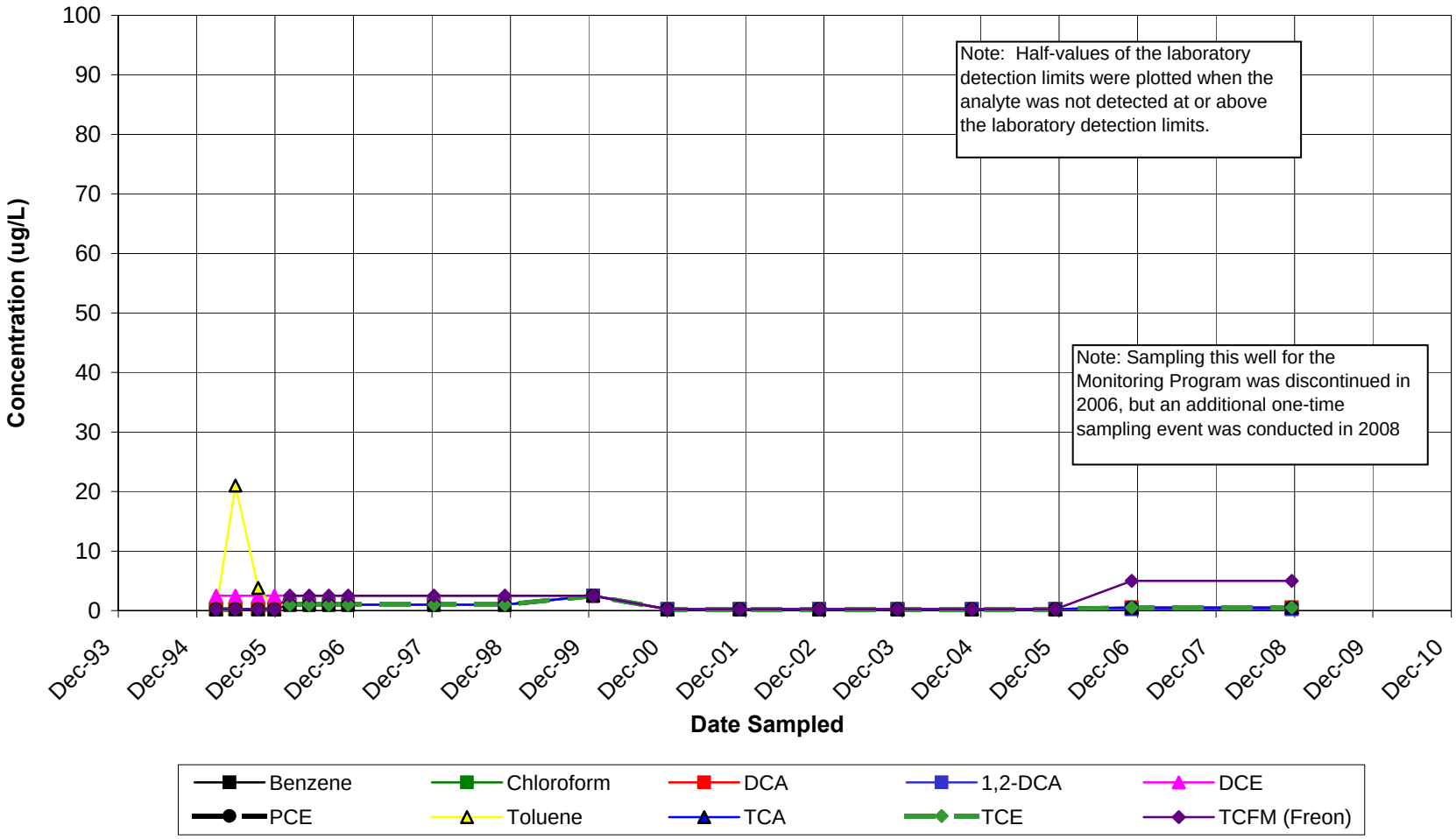
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 37: Volatile Organic Compounds vs. Time
Monitoring Well MW-29
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



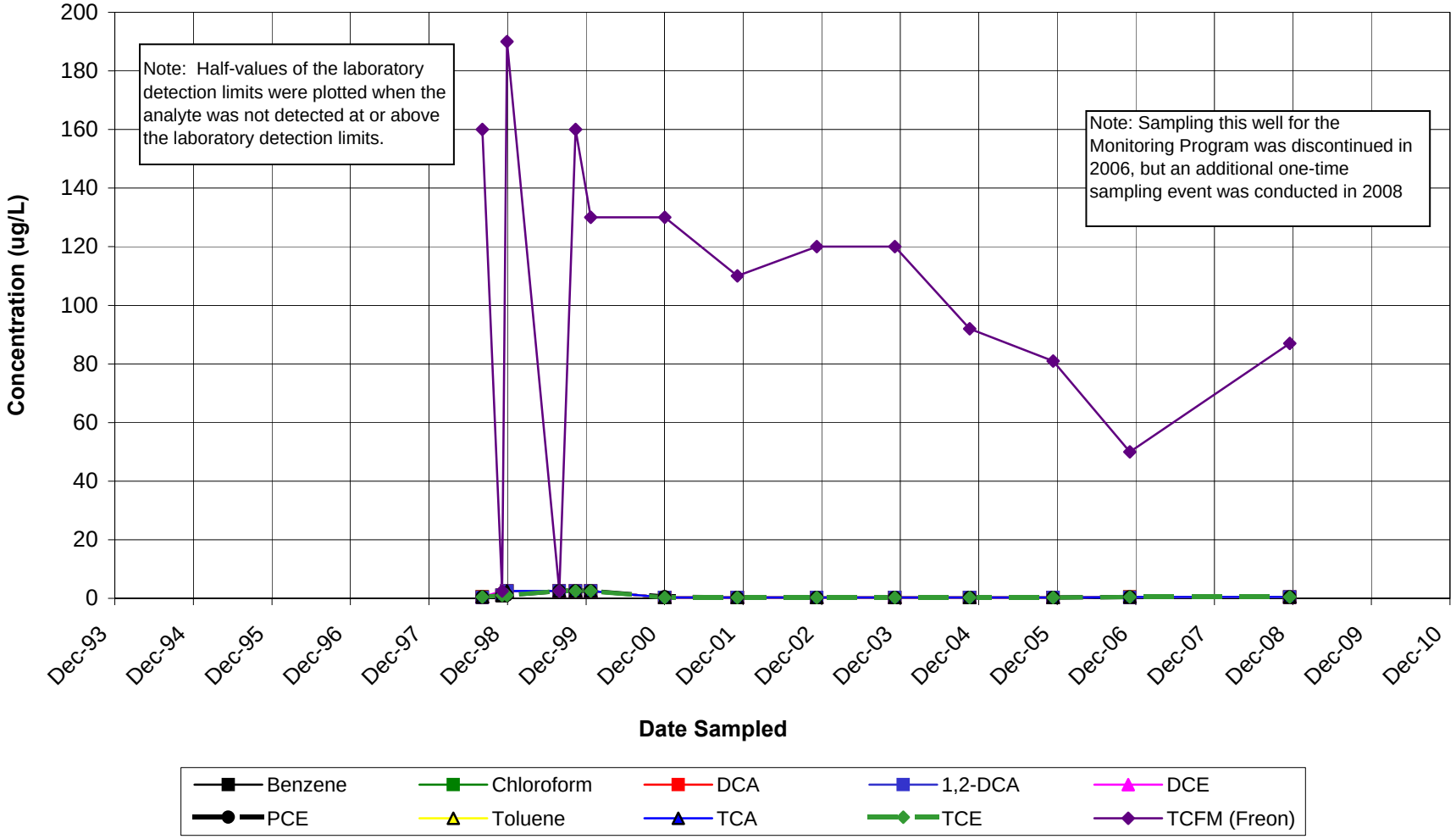
DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 38: Volatile Organic Compounds vs. Time
Monitoring Well MW-30
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

Graph 39: Volatile Organic Compounds vs. Time
Monitoring Well MW-31
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; DCE = 1,1-Dichloroethene; PCE = Tetrachloroethene; TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane.

TECHNICAL MEMORANDUM

Date: May 15, 2012

Prepared For: Dr. Ann Chang
Los Angeles Regional Water Quality Control Board (LARWQCB)
320 W. 4th Street, Suite 200
Los Angeles, California 90013-2343

Prepared By: Oneida Total Integrated Enterprises, LLC
Kim Sawyer, PG, Senior Geologist
Jacques Marcillac, CHG, Project Manager

Re: **First Quarter 2012 Enhanced *In Situ* Bioremediation Progress Report, Phase VI**
Former Canoga Park Site
8433 Fallbrook Avenue, Canoga Park, California
WDR Permit No. R4-2007-0019 (Series No. 092)
M&RP No. CI-8947; SCP No. 0693; Site ID No. 2043T00

1.0 INTRODUCTION

On behalf of Raytheon Company (Raytheon), Oneida Total Integrated Enterprises, LLC (OTIE) has prepared this Enhanced *In Situ* Bioremediation (EISB) Progress Report for the First Quarter of 2012. The report documents the progress of the Phase VI EISB program that was implemented in the Former Building 269 Area (Bldg 269) to address chlorinated volatile organic compounds (CVOCs) in groundwater and soil at the Former Canoga Park Facility (the Site) located at 8433 Fallbrook Avenue in Canoga Park, California (Figure 1). This report was prepared in accordance with the Waste Discharge Requirements (WDR) Order No. R4-2007-0019 (Series No. 092) and the Monitoring and Reporting Program (M&RP) No. CI-8947 issued by the Los Angeles Regional Water Quality Control Board (LARWQCB).

Based on the latest results, the EISB program is successfully remediating the groundwater and saturated soils in the area of Bldg 269, as no CVOC concentrations exceed their Corrective Action Plan (CAP) goals, as defined in the *Corrective Action Plan,* (Hughes Missile Systems Company [Hughes], 1992).

1.1 BACKGROUND

The predominant chemical of concern (COC) in groundwater at the Site is 1,1-dichloroethene (1,1-DCE) as defined in the CAP. The groundwater impacts are generally limited to the upper 25 feet of shallow groundwater in the northwest portion of the Site, which occurs from 25 to 50 feet below ground surface (bgs). A groundwater remediation program has been underway at the Site since 1995 to progress towards achieving cleanup criteria established in the CAP for the Site (60 micrograms per liter [µg/L] for 1,1-DCE).

Investigation activities at the Site have been ongoing since 1988 and a groundwater remediation program has been underway at the Site since 1995 to achieve cleanup criteria established in the original CAP (Hughes, 1992) for the site-specific COCs which include 1,1-DCE and other chlorinated ethenes. Clean up goals for the CVOCs are summarized below:

Chemical of Concern	CAP Goal (µg/L)
Tetrachloroethene (PCE)	50
Trichloroethene (TCE)	50
cis-1,2-Dichloroethene (cis-1,2-DCE)	60
1,1-Dichloroethene (1,1-DCE)	60
1,1-Dichloroethane (1,1-DCA)	50
1,2-Dichloroethane (1,2-DCA)	5

The LARWQCB is the lead oversight agency for the remediation activities at the Site. Remediation techniques used at the Site have included a groundwater recovery and treatment system (GRTS), soil vapor extraction (SVE), and an air sparge (AS) system. In May 2002, the LARWQCB approved an EISB pilot test to evaluate the ability of EISB to reduce chlorinated ethenes in saturated soil and groundwater below CAP goals. Based on the successful results of the pilot test, a full-scale EISB application was approved by the LARWQCB and three separate phases (Phase I through Phase III) were implemented between October 2005 and November 2008 to remediate COCs in treatment areas “A” through “D”. As a result, the AS/SVE systems and GRTS were phased out and currently serve as contingency options. EISB Phase IV was implemented in November 2009 and Phase V *In Situ* Chemical Reduction (ISCR) injections for the HWSA took place in June 2010. The most recent Phase VI EISB injection activities took place in May 2011 (Figure 2). Table 1 summarizes the EISB and ISCR programs at the Site.

In addition to the remediation progress monitoring related to the injection activities, routine Site-wide groundwater monitoring has been conducted since 1991. The current site-wide groundwater monitoring and sampling program is performed in accordance with M&RP No. CI-7483 issued by the California LARWQCB, File No. 94-45 as modified by August 26, 1997, and January 22, 2007, LARWQCB letters.

1.2 EISB PHASE VI MONITORING PROGRAM

The baseline, month #1, month #3, month #6, and month #9 sampling events for the Phase VI EISB activities have been performed in accordance with the LARWQCB’s second revision to M&RP No. CI-8947 dated September 9, 2009. To evaluate impacts associated with the EISB injection activity during Phase VI, the following monitoring wells were selected as RPM wells within treatment area "G":

- CM-16 – upgradient location;
- CM-4D – within treatment area location; and
- MW-38 – downgradient location.

The groundwater monitoring program includes collecting samples for water quality parameter measurements at the Site and off-site laboratory analyses at frequencies listed in M&RP No. CI-8947. Groundwater samples were sent to an off-site laboratory for the following analytes:

VOCs, volatile fatty acids (VFAs), dissolved gases, anions, ferrous iron, total dissolved solids (TDS), total organic carbon (TOC), dissolved cations, mercury, and hexavalent chromium [Cr(VI)] by the methods listed in M&RP No. CI-8947. Field measurements include dissolved oxygen (DO), oxidation-reduction potential (ORP), pH, specific conductivity, and temperature.

1.3 ENHANCED *IN SITU* BIOREMEDIATION PROGRAM, PHASE VI

Between May 9 and May 11, 2011, substrate was injected into four newly installed injection wells (IP-07 through IP-10) in the Bldg 269 area with screen intervals for each well from 40 to 60 feet bgs. A total of 385 gallons of EOS® 598B42 mixed with approximately 3,861 gallons of treated groundwater were injected. Additional details of the Phase VI injection activities were documented in OTIE's *Enhanced In Situ Bioremediation and In Situ Chemical Reduction Progress Report, Second Quarter 2011* (OTIE, 2011). EISB Phase VI injection details are summarized in Table 2.

2.0 FIELD ACTIVITIES

Groundwater monitoring for the first quarter of 2012 was conducted on March 27, 2012. Activities performed for the Phase VI month #9 EISB event are summarized below:

- Depth to water was measured in three wells; and
- Field parameters were measured and groundwater samples collected from the three RPM wells listed in the monitoring program per M&RP No. CI-8947.

The following sections discuss the groundwater monitoring activities performed including groundwater level gauging and monitoring well purging and sampling procedures.

2.1 GAUGING

Select wells were gauged for depth to groundwater in accordance with project-specific requirements and OTIE Standard Operating Practice (SOP) No. OTIE008E prior to groundwater purging and sampling activities within treatment area "G". An electronic interface probe, accurate to the nearest ± 0.01 feet, was used to measure the water levels in each well and for determining the presence or absence of substrate. Well construction details are summarized in Table 3 of the Fourth Quarter 2011 EISB and ISCR Progress Report (OTIE, 2012).

Static depth to groundwater measurements ranged from 32.90 feet btoc in well MW-38 to 41.96 feet btoc in well CM-16 on March 27, 2012. Groundwater elevations in the three RPM wells decreased on average by 0.80 feet since the December 2011 gauging event. Individual well decreases ranged from a drop of 1.09 feet in well CM-4D to 0.45 feet in well MW-38.

Table 3 summarizes the depths to groundwater and calculated groundwater elevation data for the March 2012 gauging. Field records are provided in Appendix A.

The groundwater contours for the month #9 event are shown in Figure 3. Because of the limited number of wells gauged, the hydraulic gradient was not calculated. Groundwater elevations for the three RPM wells since baseline are shown in Graph 1.

2.2 PURGING AND SAMPLING

The quarterly groundwater sampling event was conducted on March 27, 2011 and each of the wells identified in the M&RP were purged and sampled.

Following gauging activities, and prior to sample collection, each well was purged using the low flow purging method to minimize stress to the groundwater system in accordance with OTIE SOP No. OTIE008F. The overall goal of low flow purging is to produce a drawdown of less than 10% of the saturated screened interval during purging.

During groundwater purging, water quality parameters, such as temperature, pH, electrical conductivity, DO, ORP, and turbidity, were monitored continuously in a flow-through cell with a calibrated water quality meter in accordance with OTIE SOP No. OTIE005A. Water levels and measurements of water quality parameters were recorded every three to five minutes until water quality parameters stabilized to within 10% following three consecutive measurements.

There are several water quality parameters that serve as indicators of dechlorinating conditions in groundwater. Conditions that are conducive of EISB are low DO, negative ORP, low concentrations of sulfate and/or increased concentrations of methane. The following observations were made regarding water quality parameters:

- DO concentrations ranged from 0.40 milligrams per liter (mg/L) in well CM-4D to 0.82 mg/L in well MW-38, with an average of 0.66 mg/L.

- Values of ORP ranged from -163 millivolts (mV) in well CM-4D to +182 mV in well CM-16 with an average of -12 mV.
- The pH values ranged from 7.84 in well CM-4D to 8.29 in well MW-38 with an average of 8.03 in the three wells.

Upon stabilization of water quality parameters, groundwater samples were collected following project-specific requirements and in accordance with OTIE SOP No. OTIE008F in pre-labeled, laboratory-provided sample vials or containers. Immediately following collection, the samples were placed on ice, maintained at 4 degrees Celsius (°C) ± 2°C and transported under appropriate chain-of-custody protocol to the California State-certified analytical laboratory, Calscience Environmental Laboratories, Inc. located in Garden Grove, California.

All analyses were conducted at a laboratory certified for such analyses by the State of California and NELAC and in accordance with current United States Environmental Protection Agency (U.S. EPA) procedures or as specified in the M&RP.

3.0 ANALYTICAL RESULTS

The following sections discuss the analytical results for the groundwater samples and quality assurance/quality control (QA/QC) samples.

3.1 REMEDIAL PROGRESS MONITORING WELLS

Groundwater samples were collected from three RPM wells for all analytes listed in M&RP No. CI-8947. The following concentrations were observed in the RPM wells for the month #9 sampling event, conducted on March 27, 2012:

- Concentrations of 1,1-DCE; 1-1,DCA; and TCE were not detected (less than 1.0 µg/L) in any of the three RPM wells.
- PCE concentrations were detected only in well MW-38 at 3.1 µg/L.
- cis-1,2-DCE and 1,2-DCA concentrations were detected only in well CM-4D at 1.9 µg/L and 0.57 µg/L, respectively.
- Vinyl chloride (VC) concentrations were detected only in well CM-4D at 3.6 µg/L.
- VFAs were only detected in well CM-4D with 11 mg/L of acetic acid.
- Methane concentrations have decreased slightly in well CM-4D since November 2011 (7,370 µg/L to 6,110 µg/L), but are still elevated compared to baseline results from May 2011 (134 µg/L). Methane was detected in well MW-38 at 8.36 µg/L during this event, but not in well CM-16.
- Ethene and ethane concentrations were not detected above the reporting limit in any of the three wells during the March 2012 sampling event.
- Levels of TDS have increased in March 2012 in well CM-4D to 1,160 mg/L from 683 mg/L in May 2011, likely due to the presence of substrate. TDS in other wells show no significant change.
- TOC levels ranged from 25 mg/L (well MW-38) to 120 mg/L (well CM-4D) in March 2012. All TOC concentrations are significantly higher than at baseline (1.1 mg/L to 1.8 mg/L).
- Nitrate concentrations were not detected in any of the wells in March 2012. Since baseline, sulfate concentrations have decreased from 100 mg/L to below the reporting limit of 1.0 mg/L in well CM-4D and show no significant change in wells CM-16 and MW-38. Ferrous iron has only been detected in well CM-4D and in March 2012 was found at a concentration of 5.77 mg/L.

Historical CVOCs for the RPM wells are presented in Graphs 2 through 4, respectively, and on Figure 4. Historical results for the EISB Phase VI RPM events are summarized in Table 4. Selected geochemical parameters for the Former Bldg 269 area wells are presented in Figure 5.

3.2 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) REPORT

All groundwater samples were shipped under appropriate chain of custody protocol at the method-specified temperature limit (4°C ± 2°C). All sample analyses were completed within the prescribed holding time.

For the month #9 EISB Phase VI event, one field duplicate was collected. The duplicate groundwater sample labeled “DUP-3-27-12” was collected from well CM-4D. The purpose of a duplicate sample is to assess the accuracy and consistency of the sampling program. The

relative percent differences (RPDs) between positive detections for the primary and duplicate samples were within the specified range for the sampling program.

Laboratory QA/QC procedures were carried out in accordance with EPA method specifications and the data was accepted based on the QA/QC criteria established by the EPA. Laboratory QA/QC samples included method blanks, laboratory control samples (LCS), LCS duplicates (LCSD), and matrix spike samples (MS) and MS duplicate (MSD) samples.

All method blanks were free of contamination and all LCS/LCSD samples were within their respective control limits. The percent recoveries were out of range on the MS/MSD spike concentrations for barium, calcium, iron, manganese, and sodium in sample CM-4D. However, spike recovery and relative percent difference control limits do not apply when the parameter concentration in the primary sample exceeds the added spike concentration by a factor of four or greater. Therefore, the data was reported without further clarification.

Recovery of the MS and MSD compounds were out of control due to matrix interference for magnesium and boron in sample CM-4D. However, the associated LCS and LCSD were in control and, therefore, the sample data were reported without further clarification.

4.0 CONCLUSIONS

Three RPM wells were included in the month #9 EISB Phase VI monitoring program per M&RP No. CI-8947. The results for the month #9 EISB Phase VI event conducted in first quarter 2012 are summarized below:

- The month #9 gauging and sampling event was conducted on March 27, 2012.
- Static depth to groundwater measurements ranged from32.90 feet btoc in well MW-38 to 41.96 feet btoc in well CM-16 on March 27, 2012. The hydraulic gradient was not calculated.
- The month #9 sampling event indicated that CVOC concentrations from all wells were below their CAP goals and maximum contaminant levels (MCLs) for all VOCs, except for VC. Concentrations of VC in the CM-4D sample were 3.6 µg/L (California MCL is 0.5 µg/L). VC is a transient daughter-product of the biodegradation process.
- Geochemical parameters measured (DO, ORP, sulfate, and methane) have indicated that favorable conditions have been induced in the treatment area and continue to be conducive to EISB.

Based on the latest results, the EISB program is successfully remediating the groundwater underlying in the Bldg 269 area, as no CVOC concentrations exceed the CAP goals.

The next remedial progress report is due to the LARWQCB in August for the Second Quarter 2012 monitoring event summary.

If you have any questions, please call me at 805-585-6382.

Sincerely,



Jacques Marcillac, CHG, CEG
Project Manager
Oneida Total Integrated Enterprises, LLC

ATTACHMENTS:

Figures

Figure 1	Site Vicinity Map
Figure 2	Site Plan Showing EISB Treatment Areas in Northern Portion of Site
Figure 3	Groundwater Contour Map – Northern Portion of Site, March 27, 2012
Figure 4	Selected Groundwater Monitoring Results – Former Bldg 269 Area
Figure 5	Selected Geochemical Parameters – Former Bldg 269 Area

Tables

Table 1	EISB/ISCR Program Overview
Table 2	EISB Phase VI Injection Data – Former Bldg 269 Area
Table 3	Groundwater Elevation Data – Former Bldg 269 Area
Table 4	Selected Groundwater Monitoring Results – Former Bldg 269 Area

Graphs

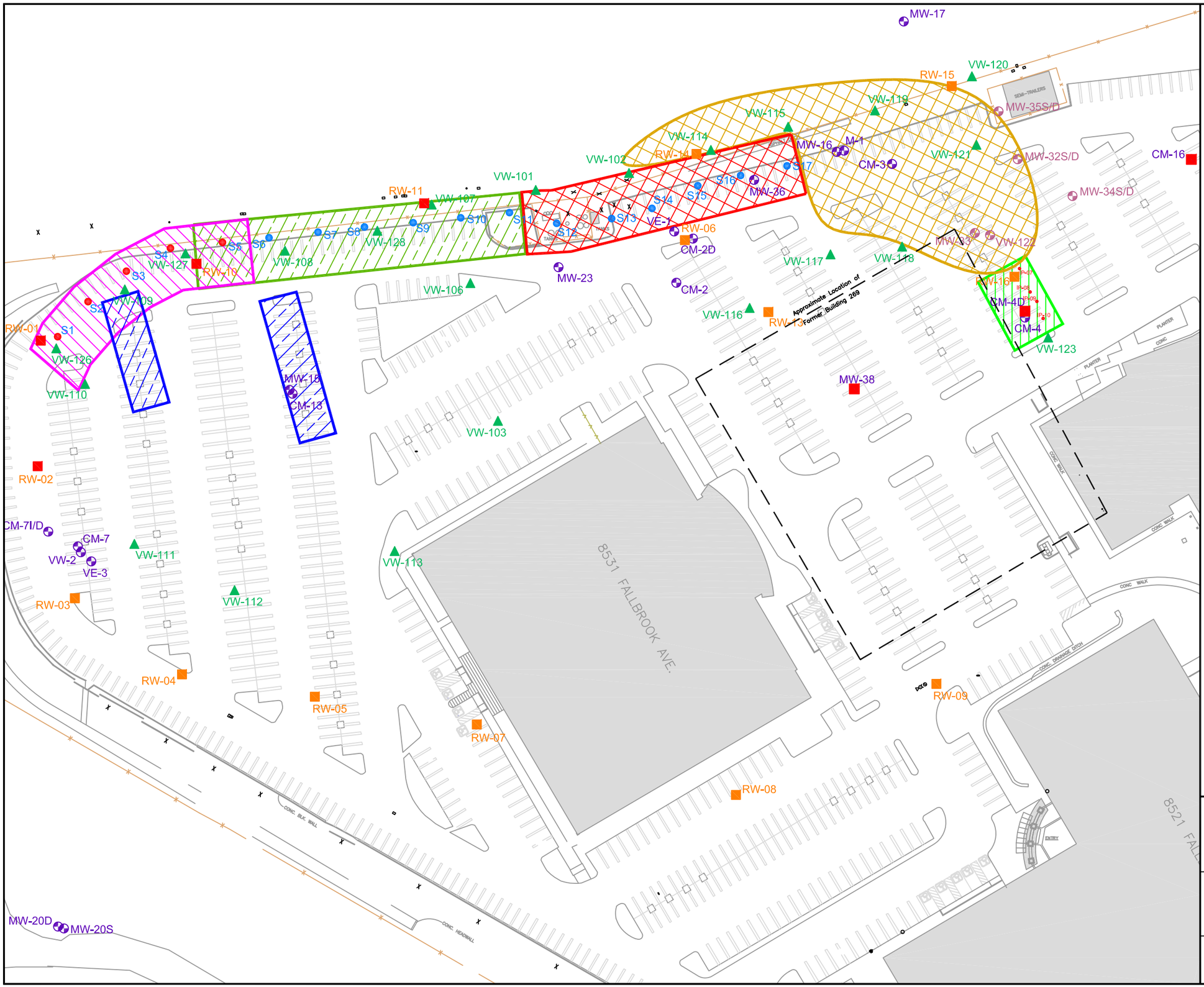
Graph 1	Hydrograph for Select Wells – Former Bldg 269 Area
Graph 2	Select Analytical Results for CM-4D – Former Bldg 269 Area
Graph 3	Select Analytical Results for CM-16 – Former Bldg 269 Area
Graph 4	Select Analytical Results for MW-38 – Former Bldg 269 Area

Appendices

Appendix A	Field Logs
Appendix B	Lab Analytical Reports
Appendix C	Historical Groundwater Elevations and Select Analytical Results
Appendix D	Raytheon Company, Certification Statement Letter

Figures


SITE LOCATION
Fallbrook Avenue
Plummer St
Valley Circle Blvd
Lake Manor Dr
Alta Way
Nordhoff St
Osborne St
Roscoe Blvd
Burton St
Community St
Chase St
Eccles St
Schoenborn St
Hackney St
Lanark St
Strathern St
Arminta St
Ingomar St
Keswick St
Saticoy St
Covello St
Cohasset St
Leadwell St
Sherman Way
Gault St
Canoga Park
West Hills
WEST HILLS
Topanga Canyon Blvd
Canoga Ave
Owensmouth Ave
Lanark Park
27
Marilla St
Prairie St
Bryant St
Malden St
Chase St
Eccles St
Burton St
Cantara St
Elkwood St
Keswick St
Lull St
Covello St
Gifford St
Valerio St
Wyandotte St
Cantlay St
Sherman Way
Michale St
Bahama St
Gresham St
Londelius St
Schoenborn St
Nordhoff St
Plummer St
Itasca St
Needles St
Acorn St
Marilla St
Jordan Ave
Hanna Ave
Alabama Ave
Eton Ave
Remmet Ave
Deering Ave
Glade Ave
Sale Ave
Ponce Ave
Capistrano Ave
Sausalito Ave
Nita Ave
Rudnick Ave
Eatough Ave
Faust Ave
Mayfield Ave
McLaren Ave
Kentland Ave
Farralone Ave
Lena Ave
Ducor Ave
Quimby Ave
Sedan Ave
Bobbyboyar Ave
Atron Ave
Platt Ave
March Ave
Woodlake Ave
Royer Ave
Jason Ave
Jonathan St
Clemens Ave
Fable Ave
Nadir St
Denise Ln
Rayen St
Azul Dr
Homezell Dr
Jensen Dr
Valley Circle Blvd
Thompson Ave
Ventura Way
County Line Rd
Chaparral Rd
Leota Ln
Box Ca
Andora
Baden Ave
Nevada Ave
Vassar Ave
N Summit Ridge Cir
Plummer
Hanna Ave
Jordan Ave
Prairie St
Alabama Ave
Canoga Ave
Eton Ave
Owensmouth Ave
Bryant St
Malden St
Chase St
Eccles St
Schoenborn St
Hackney St
Topanga Canyon Blvd
Lanark St
Lanark Park
Remmet Ave
Canoga Ave
Arminta St
Alabama Ave
Elkwood St
Owensmouth Ave
Deering Ave
Glade Ave
Covello St
Cohasset St
Gifford St
Valerio St
Leadwell St
Wyandotte St
Cantlay St
Canoga Park
Eton Ave
Sherman Way
Gault St
Milwood Ave
Michale St
Faust Ave
Ponce Ave
Capistrano Ave
Rudnick Ave
Eatough Ave
Hanna Ave
Chase St
Eccles St
Schoenborn St
Hackney St
Fallbrook Avenue
Roscoe Blvd
Burton St
Cantara St
Lanark St
Baltar St
Strathern St
Arminta St
Ingomar St
Keswick St
Lull St
Saticoy St
Covello St
Cohasset St
Leadwell St
Sherman Way
West Hills
WEST HILLS
Topanga Canyon Blvd
Canoga Ave
Owensmouth Ave
Lanark Park
27
Jason Ave
Jonathan St
Clemens Ave
Fable Ave
Nadir St
Community St
Chase St
Denise Ln
Rayen St
Azul Dr
Homezell Dr
Jensen Dr
Valley Circle Blvd
Thompson Ave
Ventura Way
County Line Rd
Chaparral Rd
Leota Ln
Box Ca
Andora
Baden Ave
Needles St
Acorn St
Nevada Ave
Vassar Ave
Itasca St
Plummer St
N Summit Ridge Cir
Plummer
Hanna Ave
Jordan Ave
Prairie St
Alabama Ave
Canoga Ave
Eton Ave
Nordhoff St
Osborne St
Bahama St
Gresham St
Londelius St



Legend

- MW-# / CM-# — Groundwater Monitoring Well
- RW-# — Groundwater Recovery Well
- VW-# — Vapor Extraction Well
- MW-# — Former Hazardous Waste Storage Area Monitoring Well
- SW/VW-# — Air Sparge/Vapor Extraction Well
- S# — Triple Nested Sparge Well
- IP-07 — Phase IV Injection Well
- Remedial Progress Monitoring Well

Treatment Areas

- Treatment Area "A" October 2005
- Treatment Area "B-I" October 2005 — Phase I
- Treatment Area "B-II" May 2006
- Treatment Area "C" May 2006 — Phase II
- Treatment Area "E" November 2009 — Phase IV
- Treatment Area "G" May 2011 — Phase VI

Notes

1) Treatment Area "D", located in the central portion of the site not shown on this figure, was treated as part of Phase III.
2) Treatment Area "F" (Phase V) did not employ EISB and is not shown here.
3) EISB = enhanced *in situ* bioremediation

N W E S

Approximate Scale in Feet

0 70 140

Figure 2
Site Plan Showing EISB Treatment Areas in Northern Portion of Site

Former Canoga Park Facility
8433 Fallbrook Ave, Canoga Park, California

OTIE Oneida Total Integrated Enterprises

Date: August 3, 2011
File: Canoga_EISB.dwg



Legend

- MW-# / CM-# — Groundwater Monitoring Well
- RW-# — Groundwater Recovery Well
- VW-# — Vapor Extraction Well
- MW-# — Former Hazardous Waste Storage Area Monitoring Well
- 851.85 — Groundwater Elevation (feet above mean sea level)
- 851 — Groundwater Contour, Dashed where approximate

N W E S

Approximate Scale in Feet

0 100 200

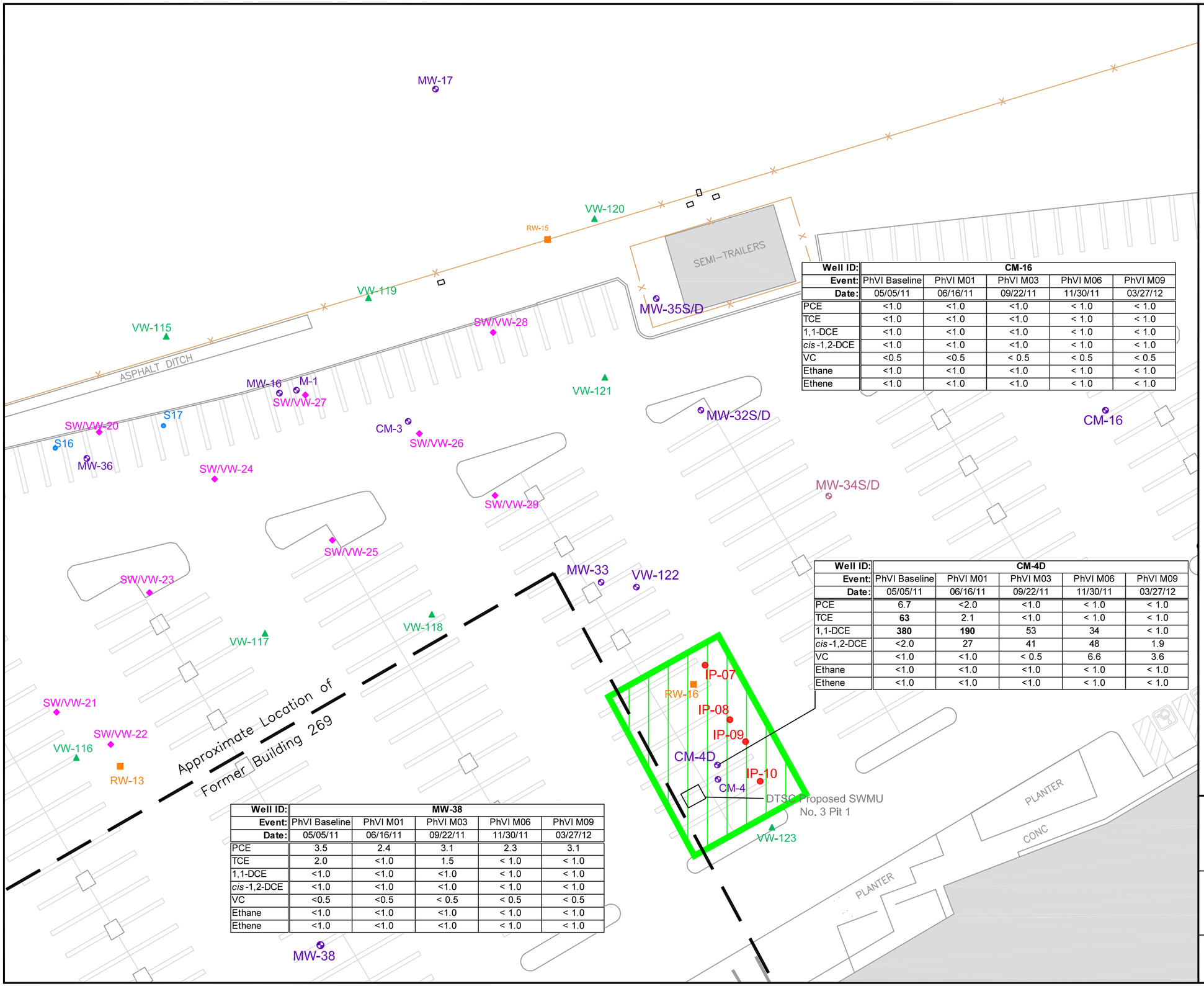
Figure 3
Groundwater Contour Map
Northern Portion of Site
March 27, 2012

Former Canoga Park Facility
8433 Fallbrook Avenue, Canoga Park, California

OTIE Oneida Total Integrated Enterprises

Date: April 17, 2012

File: RayCan GWE 032712.dwg



Well ID:	CM-16				
Event:	PhVI Baseline	PhVI M01	PhVI M03	PhVI M06	PhVI M09
Date:	05/05/11	06/16/11	09/22/11	11/30/11	03/27/12
PCE	<1.0	<1.0	<1.0	< 1.0	< 1.0
TCE	<1.0	<1.0	<1.0	< 1.0	< 1.0
1,1-DCE	<1.0	<1.0	<1.0	< 1.0	< 1.0
cis-1,2-DCE	<1.0	<1.0	<1.0	< 1.0	< 1.0
VC	<0.5	<0.5	< 0.5	< 0.5	< 0.5
Ethane	<1.0	<1.0	<1.0	< 1.0	< 1.0
Ethene	<1.0	<1.0	<1.0	< 1.0	< 1.0

Well ID:	CM-4D				
Event:	PhVI Baseline	PhVI M01	PhVI M03	PhVI M06	PhVI M09
Date:	05/05/11	06/16/11	09/22/11	11/30/11	03/27/12
PCE	6.7	<2.0	<1.0	< 1.0	< 1.0
TCE	**63**	2.1	<1.0	< 1.0	< 1.0
1,1-DCE	**380**	**190**	53	34	< 1.0
cis-1,2-DCE	<2.0	27	41	48	1.9
VC	<1.0	<1.0	< 0.5	6.6	3.6
Ethane	<1.0	<1.0	<1.0	< 1.0	< 1.0
Ethene	<1.0	<1.0	<1.0	< 1.0	< 1.0

Well ID:	MW-38				
Event:	PhVI Baseline	PhVI M01	PhVI M03	PhVI M06	PhVI M09
Date:	05/05/11	06/16/11	09/22/11	11/30/11	03/27/12
PCE	3.5	2.4	3.1	2.3	3.1
TCE	2.0	<1.0	1.5	< 1.0	< 1.0
1,1-DCE	<1.0	<1.0	<1.0	< 1.0	< 1.0
cis-1,2-DCE	<1.0	<1.0	<1.0	< 1.0	< 1.0
VC	<0.5	<0.5	< 0.5	< 0.5	< 0.5
Ethane	<1.0	<1.0	<1.0	< 1.0	< 1.0
Ethene	<1.0	<1.0	<1.0	< 1.0	< 1.0

Legend

- MW-# / CM-#: Groundwater Monitoring Well
- RW-#: Groundwater Recovery Well
- VW-#: Vapor Extraction Well
- MW-#: Former Hazardous Waste Storage Area Monitoring Well
- SW/VW-#: Air Sparge/Vapor Extraction Well
- S#: Triple Nested Sparge Well
- IP-#: Injection Well
- Treatment Area "G" May 2011

Notes:

1) All results are in micrograms per liter (µg/L).
2) **Bold** results indicate a CAP Exceedence. See report for details.
3) < 1,0 = not detected above stated reporting limit.
4) PhVI = Phase VI
   M01 = Month #1; M03 = Month #3; M06 = Month #6; M09 = Month #9
   PCE = Tetrachloroethene
   TCE = Trichloroethene
   1,1-DCE = 1,1-Dichloroethene
   cis-1,2-DCE = *cis*-1,2-dichloroethene
   VC = Vinyl chloride
   CAP = Corrective Action Plan
   "--" = not applicable or not analyzed for
5) For wells with duplicate pairs, the highest concentrations are shown here.

N W E S

Approximate Scale in Feet

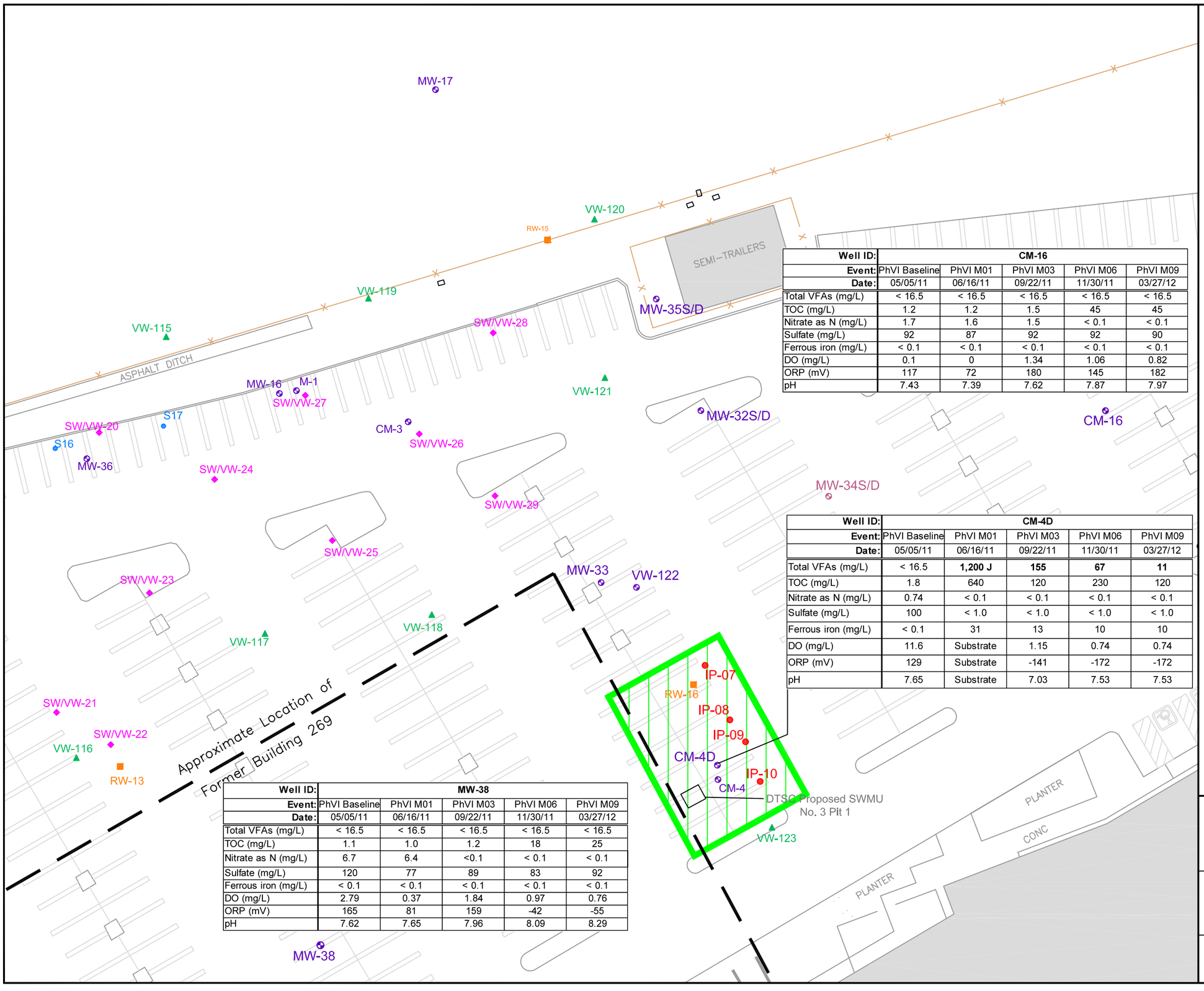
0 30 60

Figure 4
Selected Groundwater Monitoring Results - Former Bldg 269 Area

Former Canoga Park Facility
8433 Fallbrook Ave, Canoga Park, California

OTIE Oneida Total Integrated Enterprises

Date: April 19, 2012
File: Canoga_EISB.dwg



Well ID:	CM-16				
Event:	PhVI Baseline	PhVI M01	PhVI M03	PhVI M06	PhVI M09
Date:	05/05/11	06/16/11	09/22/11	11/30/11	03/27/12
Total VFAs (mg/L)	< 16.5	< 16.5	< 16.5	< 16.5	< 16.5
TOC (mg/L)	1.2	1.2	1.5	45	45
Nitrate as N (mg/L)	1.7	1.6	1.5	< 0.1	< 0.1
Sulfate (mg/L)	92	87	92	92	90
Ferrous iron (mg/L)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
DO (mg/L)	0.1	0	1.34	1.06	0.82
ORP (mV)	117	72	180	145	182
pH	7.43	7.39	7.62	7.87	7.97

Well ID:	CM-4D				
Event:	PhVI Baseline	PhVI M01	PhVI M03	PhVI M06	PhVI M09
Date:	05/05/11	06/16/11	09/22/11	11/30/11	03/27/12
Total VFAs (mg/L)	< 16.5	**1,200 J**	**155**	**67**	**11**
TOC (mg/L)	1.8	640	120	230	120
Nitrate as N (mg/L)	0.74	< 0.1	< 0.1	< 0.1	< 0.1
Sulfate (mg/L)	100	< 1.0	< 1.0	< 1.0	< 1.0
Ferrous iron (mg/L)	< 0.1	31	13	10	10
DO (mg/L)	11.6	Substrate	1.15	0.74	0.74
ORP (mV)	129	Substrate	-141	-172	-172
pH	7.65	Substrate	7.03	7.53	7.53

Well ID:	MW-38				
Event:	PhVI Baseline	PhVI M01	PhVI M03	PhVI M06	PhVI M09
Date:	05/05/11	06/16/11	09/22/11	11/30/11	03/27/12
Total VFAs (mg/L)	< 16.5	< 16.5	< 16.5	< 16.5	< 16.5
TOC (mg/L)	1.1	1.0	1.2	18	25
Nitrate as N (mg/L)	6.7	6.4	<0.1	< 0.1	< 0.1
Sulfate (mg/L)	120	77	89	83	92
Ferrous iron (mg/L)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
DO (mg/L)	2.79	0.37	1.84	0.97	0.76
ORP (mV)	165	81	159	-42	-55
pH	7.62	7.65	7.96	8.09	8.29

Legend

- MW-# / CM-# — Groundwater Monitoring Well
- RW-# — Groundwater Recovery Well
- VW-# — Vapor Extraction Well
- MW-# — Former Hazardous Waste Storage Area Monitoring Well
- SW/VW-# — Air Sparge/Vapor Extraction Well
- S# — Triple Nested Sparge Well
- IP-# — Injection Well
- Treatment Area "G" May 2011

Notes

1) < 0.1 = not detected above stated reporting limit.
2) PhVI = Phase VI
   M01 = Month #1; M03 = Month #3; M06 = Month #6; M09 = Month #9
   TOC = total organic carbon
   DO = dissolved oxygen
   ORP = oxidation-reduction potential
   VFAs = volatile fatty acids
   mg/L = milligrams per liter
   mV = millivolts
   -- = not applicable or available
3) "Substrate" indicates that free-phase substrate was observed in the well and sample was not collected.
4) Bolded results indicate positive detections of VFAs.
5) "J" = estimated value

N W E S

Approximate Scale in Feet

0 30 60

Figure 5
Selected Geochemical Parameters - Former Bldg 269 Area

Former Canoga Park Facility
8433 Fallbrook Ave, Canoga Park, California

OTIE Oneida Total Integrated Enterprises

Date: April 19, 2012

File: Canoga_EISB.dwg

Tables

Table 1
EISB/ISCR Program Overview
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California

Injection Phase:	**EISB Phase I**		**EISB Phase II**			**EISB Phase III**	**EISB Phase IV**	**ISCR Phase V**	**EISB Phase VI**
Treatment Area:	Area "A"	Area "B-I"	Area "A"	Area "B-II"	Area "C"	Area "D"	Area "E"	Area "H"	Area "G"
Injection points:	DPT points	S-12 through S-17	SW/VW-27	S-5 through S-11	DPT points	IP1	S-1 through S-5	Injection wells	IP-7 through IP-10
No. of injection points:	27	18	1	21	14	1	15	4	4
No.of attempted injection points:	28	18	1	21	14	1	15	4	4
Injection depths (feet bgs):	30 - 50	34 - 50	50 - 55	29 - 50	30 - 52	50 - 70	29 - 50	30 - 50	40 - 60
Substrate injections:	10/3-7/05	10/6-8/05	05/24/06	5/23-24/06	5/22-23/06	12/28/06	10/26/09 - 11/3/09	6/16-17/10	5/9/11 - 5/11/11
Summary Reference	*Enhanced In Situ Bioremediation Progress Report, Fourth Quarter 2005* TN&A Jan 2006		*Enhanced In Situ Bioremediation Progress Report, Second Quarter 2006* TN&A Jul 2006			*Enhanced In Situ Bioremediation Progress Report, Fourth Quarter 2006* TN&A Jan 2007	*Enhanced In Situ Bioremediation Progress Report, Fourth Quarter 2009 and Annual Summary 2009* OTIE Feb 2010	*Enhanced In Situ Bioremediation and In Situ Chemical Reduction Progress Report, Second Quarter 2010* OTIE Aug 2010	*Enhanced In Situ Bioremediation and In Situ Chemical Reduction Progress Report, Second Quarter 2011* OTIE Aug 2011
EISB/ISCR RPM Events									
Baseline	10/02/05		04/23/06			12/28/06	10/23-26/09	06/08/10	05/05/11
Month #1	11/13/05		--			--	11/30/09 - 12/3/09	07/07/10	06/16/11
Month #2	--		07/15-06/06			02/18/07	--	--	--
Month #3	01/21-22/06		--			--	02/02/10	09/16/10	09/22/11
Month #6	04/23/06		11/04-05/06			05/14/07	06/09/10	12/21/10	11/30/11
Month #9	07/15-16/06		02/18/07			08/24/07	09/15/10	03/15/11	03/27/12
Month #12	11/04-05/06		05/13-14/07			11/04/07	12/20/10	06/08/11	June 2012
Month #18	05/13/07		11/04/07			06/30/08 - 07/02/08	06/09/11	12/07/11	December 2012
Month #24	NA		NA			NA	11/29/11	June 2012	June 2013
Month #30	NA		NA			NA	June 2012	December 2012	December 2013
Month #36	NA		NA			NA	December 2012	June 2013	June 2014

Notes:
1) feet bgs = feet below ground surface
2) EISB = enhanced *in situ* bioremediation
3) ISCR = *in situ* chemical reduction
4) RPM = remedial progress monitoring
5) Blue indicates a future monitoring event
6) "Summary Reference" refers to the document which presents the details for each of the injection events.

Table 2
EISB Phase VI Injection Data, Former Bldg 269 Area
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, California

Injection Well ID	Injection Depth Interval (feet bgs)	Date	Volume of EOS® 598B42 Injected (gallons)	Volume of Water Injected (gallons)	Average Injection Pressure (psi)	Flow Rate Range (gpm)	Average Flow Rate (gpm)	Comments
Treatment Area "G" - Former Building 269 Area								
IP-07	40 - 60	05/10/11	96.25	946	23	1.3 - 11.0	5.8	substrate observed in nearby well vault (RW-16); reduced injection flows and increased concentration percentage (from 8.75% to 10%)
IP-08	40 - 60	05/11/11	96.25	990	16.5	2.3 - 10.4	5.8	substrate observed in nearby well vault (RW-16); reduced injection flows
IP-09	40 - 60	05/10/11	96.25	934	17	9.5 - 12.0	9.9	
IP-10	40 - 60	05/09/11	96.25	992	13	7.6 - 11.0	9.1	
Totals:	--	--	**385**	**3,861**	--	--	--	

Notes:
1) feet bgs = feet below ground surface
2) psi = pounds per square inch
3) gpm = gallons per minute
4) EISB = enhanced *in situ* bioremediation
5) "--" = not recorded or calculated
6) For full details, see report *Enhanced In Situ Bioremediation and In Situ Chemical Reduction Progress Report, Second Quarter 2011,* OTIE Aug 2011

Table 3
Groundwater Elevation Data – Former Bldg 269 Area
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California

Station ID	TOC Elevation (feet amsl)	Screen Interval (feet bgs)	Total Depth (feet bgs)	Date	Depth to Water (feet btoc)	Substrate Present?	Groundwater Elevation (feet amsl)
CM-4D	887.46	20-60	60	05/05/11	34.11	--	853.35
				06/07/11	32.26	YES	855.20
				09/22/11	34.36	--	853.10
				12/01/11	35.31	--	852.15
				03/27/12	36.40	--	851.06
CM-16	892.41	40-70	70	05/05/11	38.22	--	854.19
				06/07/11	38.58	--	853.83
				09/22/11	40.17	--	852.24
				12/01/11	41.11	--	851.30
				03/27/12	41.96	--	850.45
MW-38	881.91	40.5-60.5	60.5	05/05/11	29.45	--	852.46
				06/07/11	30.55	--	851.36
				09/22/11	31.82	--	850.09
				12/01/11	32.45	--	849.46
				03/27/12	32.90	--	849.01
VW-122	885.43	25-40	40	06/08/11	30.68	--	854.75
				09/22/11	33.16	--	852.27
				12/01/11	34.10	--	851.33

Notes:
TOC = top of casing
feet amsl = feet above mean sea level
feet bgs = feet below ground surface
feet btoc = feet below top of casing

Table 4
Selected Groundwater Monitoring Results – Former Bldg 269 Area
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California

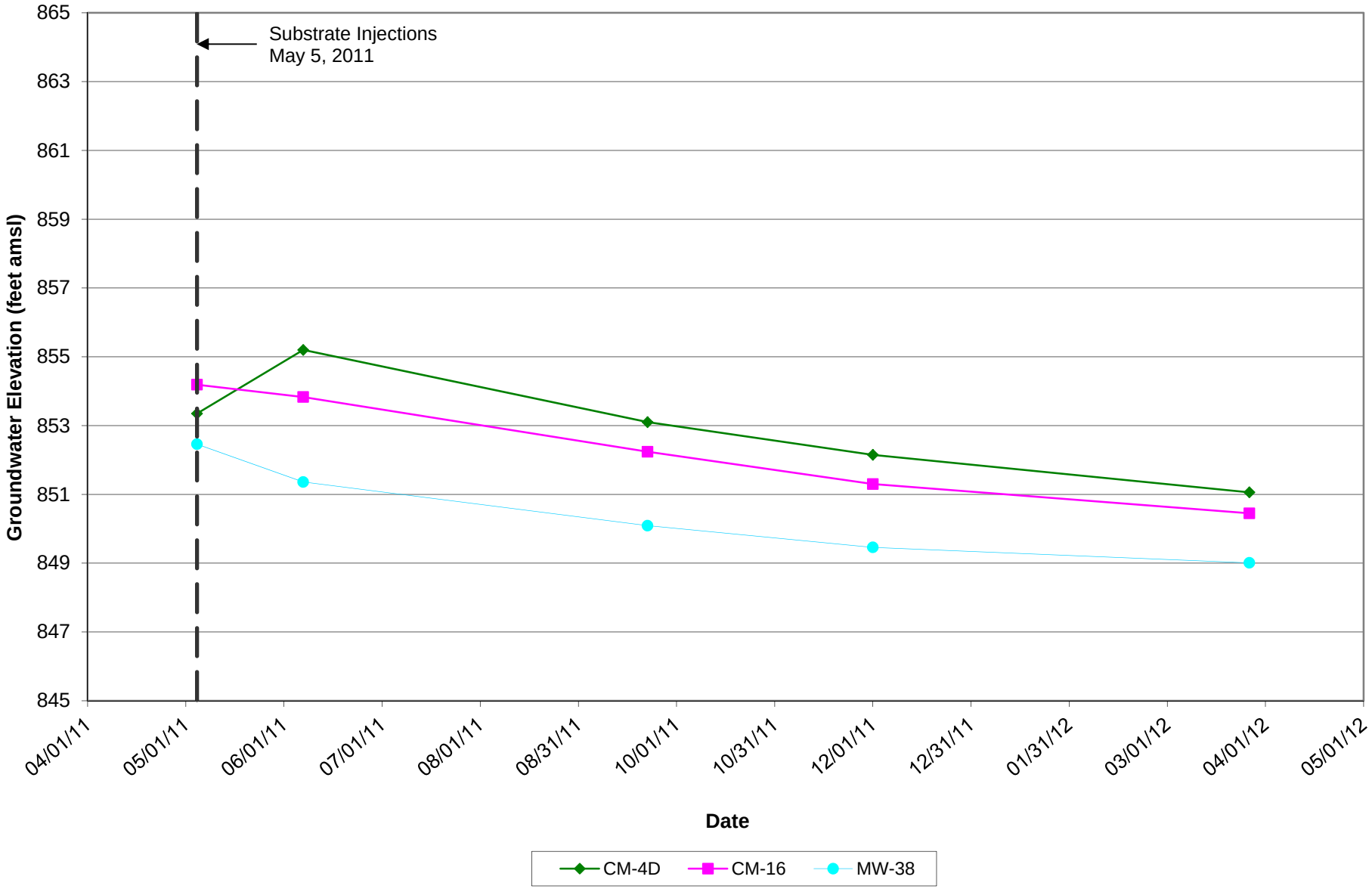
Well Identification:			CM-4D								CM-16					MW-38						
Sample Type:			N	N	FD	N	N	FD	N	FD	N	N	N	N	N	N	FD	N	N	FD	N	N
Sample Date:			05/05/11	06/16/11	06/16/11	09/22/11	11/30/11	11/30/11	03/27/12	03/27/12	05/05/11	06/16/11	09/22/11	11/30/11	03/27/12	05/05/11	05/05/11	06/16/11	09/22/11	09/22/11	11/30/11	03/27/12
Sampling Event:			PhVI Baseline	PhVI M01	PhVI M01	PhVI M03	PhVI M06	PhVI M06	PhVI M09	PhVI M09	PhVI Baseline	PhVI M01	PhVI M03	PhVI M06	PhVI M09	PhVI Baseline	PhVI M01	PhVI M01	PhVI M03	PhVI M03	PhVI M06	PhVI M09
Parameter	**Method**	**Units**																				
Primary Chemicals of Concern																						
Tetrachloroethene	EPA 8260B	µg/L	**6.7**	< 2.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**3.5**	**3.4**	**2.4**	**3.0**	**3.1**	**2.3**	**3.1**
Trichloroethene	EPA 8260B	µg/L	**63**	**2.1**	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.0**	**1.9**	<1.0	**1.5**	**1.5**	< 1.0	< 1.0
cis-1,2-Dichloroethene	EPA 8260B	µg/L	< 2.0	**27**	**27**	**41**	**48**	**47**	**1.9**	**1.7**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	EPA 8260B	µg/L	**380**	**170**	**190**	**53**	**33**	**34**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	EPA 8260B	µg/L	**5.3**	**2.7**	< 5.0	< 0.5	< 0.5	< 0.5	**0.51**	**0.57**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-Dichloroethane	EPA 8260B	µg/L	**6.3**	**3.2**	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	EPA 8260B	µg/L	< 1.0	< 1.0	< 5.0	< 0.5	**6.6**	**6.5**	**3.6**	**3.1**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Volatile Fatty Acids																						
Acetic acid	HPCL/UV	mg/L	< 4.0	**660 J**	--	**45**	**67**	--	**11**	--	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	--	< 4.0	< 4.0	--	< 4.0	< 4.0
Butyric acid	HPCL/UV	mg/L	< 4.0	**50**	--	< 20	< 8.0	--	< 4.0	--	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	--	< 4.0	< 4.0	--	< 4.0	< 4.0
Lactic acid	HPCL/UV	mg/L	< 4.0	< 40	--	< 20	< 8.0	--	< 4.0	--	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	--	< 4.0	< 4.0	--	< 4.0	< 4.0
Propionic acid	HPCL/UV	mg/L	< 4.0	**490**	--	**110**	< 8.0	--	< 4.0	--	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	--	< 4.0	< 4.0	--	< 4.0	< 4.0
Pyruvic Acid	HPCL/UV	mg/L	< 0.5	< 5.0	--	< 2.5	< 1.0	--	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	--	< 0.5	< 0.5
Dissolved Gases																						
Ethane	RSK 175M	µg/L	< 1.0	< 1.0	--	< 1.0	< 1.0	--	< 1.0	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	--	< 1.0	< 1.0
Ethene	RSK 175M	µg/L	< 1.0	< 1.0	--	< 1.0	< 1.0	--	< 1.0	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	--	< 1.0	< 1.0
Methane	RSK 175M	µg/L	**134**	**1,800**	--	**7,070**	**7,370**	--	**6,110**	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	**1.95**	< 1.0	--	**10.7**	**8.36**
Carbon dioxide	RSK 175M	mg/L	**19.1**	**694**	--	**293**	**238**	--	**206**	--	**16.0**	**66.4**	**57.3**	**58.8**	**48.5**	**18.4**	--	**13.1**	**16.6**	--	**18.2**	**11.9**
Inorganic Parameters																						
Total dissolved solids	EPA 160.1	mg/L	**683**	**1,960**	--	**1,120**	**1,060**	--	**1,160**	--	**740**	**763**	**710**	**670**	**755**	**797**	--	**833**	**685**	--	**665**	**765**
Total organic carbon	SM5310D	mg/L	**1.8**	**640**	--	**120**	**230**	--	**120**	--	**1.2**	**1.2**	**1.5**	**45**	**45**	**1.1**	--	**1.0**	**1.2**	--	**18**	**25**
Bromide	EPA 300.0	mg/L	**0.11**	< 0.1	--	**0.24**	**0.23**	--	**0.19**	--	**0.17**	**0.14**	**0.16**	**0.17**	**0.18**	**0.56**	--	**0.52**	**0.54**	--	**0.52**	**0.50**
Chloride	EPA 300.0	mg/L	**74**	**32**	--	**97**	**86**	--	**90**	--	**94**	**92**	**94**	**93**	**90**	**160**	--	**150**	**130**	--	**150**	**140**
Nitrate as N	EPA 300.0	mg/L	**0.74**	< 0.1	--	< 0.1	< 0.1	--	< 0.1	--	**1.7**	**1.6**	**1.5**	**< 0.1**	< 0.1	**6.7**	--	**6.4**	**6.3**	--	< 0.1	< 0.1
Nitrite as N	EPA 300.0	mg/L	< 0.1	< 0.1	--	< 0.1	< 0.1	--	< 0.1	--	< 0.1	< 0.1	< 0.1	1.6	**1.5**	< 0.1	--	< 0.1	< 0.1	--	**6.4**	**5.5**
Orthophosphate	EPA 300.0	mg/L	< 0.1	**0.23**	--	< 0.1	< 0.1	--	< 0.1	--	< 0.1	< 0.1	< 0.1	< 0.1	**0.12**	< 0.1	--	< 0.1	< 0.1	--	< 0.1	< 0.1
Sulfate	EPA 300.0	mg/L	**100**	< 1.0	--	< 1.0	< 1.0	--	< 1.0	--	**92**	**87**	**91**	**92**	**90**	**120**	--	**77**	**89**	--	**83**	**92**
Ferrous Iron	SM3500	mg/L	< 0.1	**31**	--	**13**	**10**	--	**5.77**	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	--	< 0.1	< 0.1	--	< 0.1	< 0.1
Field Measurements																						
DO	Field	mg/L	**0.3**	NS	--	**1.15**	**0.74**	--	**0.40**	--	**0.1**	**0**	**1.34**	**1.06**	**0.82**	**2.79**	--	**0.37**	**1.84**	--	**0.97**	**0.76**
ORP	Field	mV	**129**	NS	--	**-141**	**-172**	--	**-163**	--	**117**	**72**	**180**	**145**	**182**	**165**	--	**81**	**159**	--	**-42**	**-55**
pH	Field	pH units	**7.65**	NS	--	**7.03**	**7.53**	--	**7.84**	--	**7.43**	**7.39**	**7.62**	**7.87**	**7.97**	**7.62**	--	**7.65**	**7.96**	--	**8.09**	**8.29**
Specific Conductivity	Field	mS/cm	**1.23**	NS	--	**2.18**	**1.96**	--	**2.0**	--	**1.28**	**1.28**	**2.19**	**1.27**	**1.32**	**1.21**	--	**1.25**	**1.26**	--	**1.17**	**1.28**
Temperature	Field	°C	**23.7**	NS	--	**23.5**	**23.1**	--	**23.0**	--	**24.8**	**21.8**	**22.6**	**21.9**	**21.9**	**24.4**	--	**23.7**	**24.5**	--	**23.7**	**23.6**
Turbidity	Field	NTU	**11.6**	NS	--	**60.2**	**37.6**	--	**71.2**	--	**58.6**	**21.6**	**106.0**	**41.9**	**43.4**	**64.2**	--	**12.4**	**37.2**	--	**18.2**	**70.1**
Major Cations																						
Hexavalent Chromium	SW7199	µg/L	**2.8**	< 1.0	--	< 1.0	< 1.0	--	< 1.0	--	**3.4**	**1.8**	<1.0	<1.0	**2.5**	**16**	--	**10**	**11**	--	**11**	**10**
Arsenic	EPA 200.8	mg/L	**0.17**	**0.0428**	--	**0.0503**	**0.0669**	--	**0.0153**	--	**0.0744**	**0.0131**	**0.0252**	**0.0145**	**0.0106**	**0.0362**	--	**0.0345**	**0.0411**	--	**0.0403**	**0.041**
Barium	EPA 200.8	mg/L	**0.0662**	**0.158**	--	**0.234**	**0.342**	--	**0.561**	--	**0.374**	**0.146**	**0.167**	**0.126**	**0.134**	**0.0549**	--	**0.054**	**0.0887**	--	**0.0891**	**0.104**
Boron	EPA 200.8	mg/L	**0.349 J**	**0.411 J**	--	**0.498**	**0.51**	--	**0.624**	--	**0.311**	**0.353 J**	**0.38**	**0.469**	**0.55**	**0.118**	--	**0.145 J**	**0.0145**	--	**0.162**	**0.126**
Cadmium	EPA 200.8	mg/L	< 0.001	< 0.001	--	< 0.001	< 0.001	--	< 0.001	--	**0.00705**	**0.00102**	**0.00266**	**< 0.001**	< 0.001	< 0.001	--	< 0.001	**0.00301**	--	< 0.001	< 0.001
Calcium	EPA 200.8	mg/L	**85.5**	**220**	--	**162**	**217**	--	**197**	--	**121**	**112**	**135**	**106**	**110**	**93.9**	--	**82.2**	**100**	--	**82.8**	**83.4**
Chromium	EPA 200.8	mg/L	**0.105 J**	**0.0483**	--	**0.0716**	**0.0238**	--	**0.00248**	--	**12**	**0.624**	**2.13**	**0.386**	**0.00757**	**0.0187**	--	**0.0133**	**0.0189**	--	**0.0127**	**0.01**
Copper	EPA 200.8	mg/L	**0.00877**	**0.00597**	--	**0.0135**	**0.0228**	--	< 0.001	--	**0.033**	**0.00274**	**0.022**	**0.00668**	**0.00224**	**0.00208**	--	**0.00154**	**0.0107**	--	**0.00273**	**0.00322**
Iron	EPA 200.8	mg/L	**5.01**	**29.7**	--	**15.1**	**11.3**	--	**8.84**	--	**73.6**	**2.89**	**14.6**	**2.3**	< 0.05	**0.389**	--	**0.177**	**0.228**	--	**0.0546**	< 0.05
Lead	EPA 200.8	mg/L	< 0.001	< 0.001	--	**0.0011**	< 0.001	--	< 0.001	--	**0.0017**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--	< 0.001	< 0.001	--	< 0.001	< 0.001
Magnesium	EPA 200.8	mg/L	**30.8**	**73.2**	--	**66.4**	**79.0**	--	**72.6**	--	**35.5**	**38.7**	**49.1**	**47.6**	**47.5**	**34.8**	--	**46.5**	**51.9**	--	**56.8**	**52.5**
Manganese	EPA 200.8	mg/L	**0.0818**	**5.07**	--	**3.29**	**2.98**	--	**1.89**	--	**0.73**	**0.0262**	**0.0506**	**0.0252**	**0.013**	**0.0283**	--	**0.0235**	**0.0178**	--	**0.0144**	**0.0109**
Potassium	EPA 200.8	mg/L	**2.45**	**3.9**	--	**2.57 J**	**3.38**	--	**2.68**	--	**3.09**	**2.72**	**3.12 J**	**2.86**	**3.05**	**5.47**	--	**3.32**	**3.17 J**	--	**2.79**	**3.14**
Selenium	EPA 200.8	mg/L	**0.00301 J**	< 0.001	--	**0.00121**	< 0.001	--	< 0.001	--	**0.00531 J**	**0.0049 J**	**0.00525**	**0.00467**	**0.00397**	**0.0211 J**	--	**0.026 J**	**0.0231**	--	**0.0242**	**0.0258**
Sodium	EPA 200.8	mg/L	**70.9**	**93.3**	--	**89.6**	**107**	--	**89.6**	--	**81.1**	**52.9**	**61.9**	**67.5**	**63.7**	**57.5**	--	**47**	**47.1**	--	**55.2**	**50.4**
Zinc	EPA 200.8	mg/L	**0.0155 J**	**0.00982 J**	--	**0.0299**	**0.0364**	--	< 0.005	--	**0.0349 J**	**0.0487 J**	**0.0277**	**0.0254**	**0.00645**	**0.0121 J**	--	**0.00742 J**	**0.0278**	--	**0.00772**	**0.0079**
Mercury	EPA 245.1	mg/L	< 0.0005	< 0.0002	--	< 0.0002	< 0.0002	--	< 0.0002	--	< 0.0005	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0005	--	< 0.0002	< 0.0002	--	< 0.0002	< 0.0002

Notes:

1) EISB = enhanced *in situ* bioremediation; DO = dissolved oxygen; ORP= oxidation-reduction potential; µg/L = micrograms per liter; mg/L = milligrams per liter; mV = millivolts; oC = degrees Celsius; mS/cm = milliSiemens per centimeter
2) " < " = Analyte was not detected above the stated reporting limit; "J" - quantitative estimate
3) "--" = Not applicable or not analyzed for; NS = not sampled/collected due to presence of soybean oil in well, obstruction, or insufficient water
4) ▭ - Shaded in gray and **bolded** are concentrations exceeding their Corrective Action Plan goal. See Section 1.2 of report.

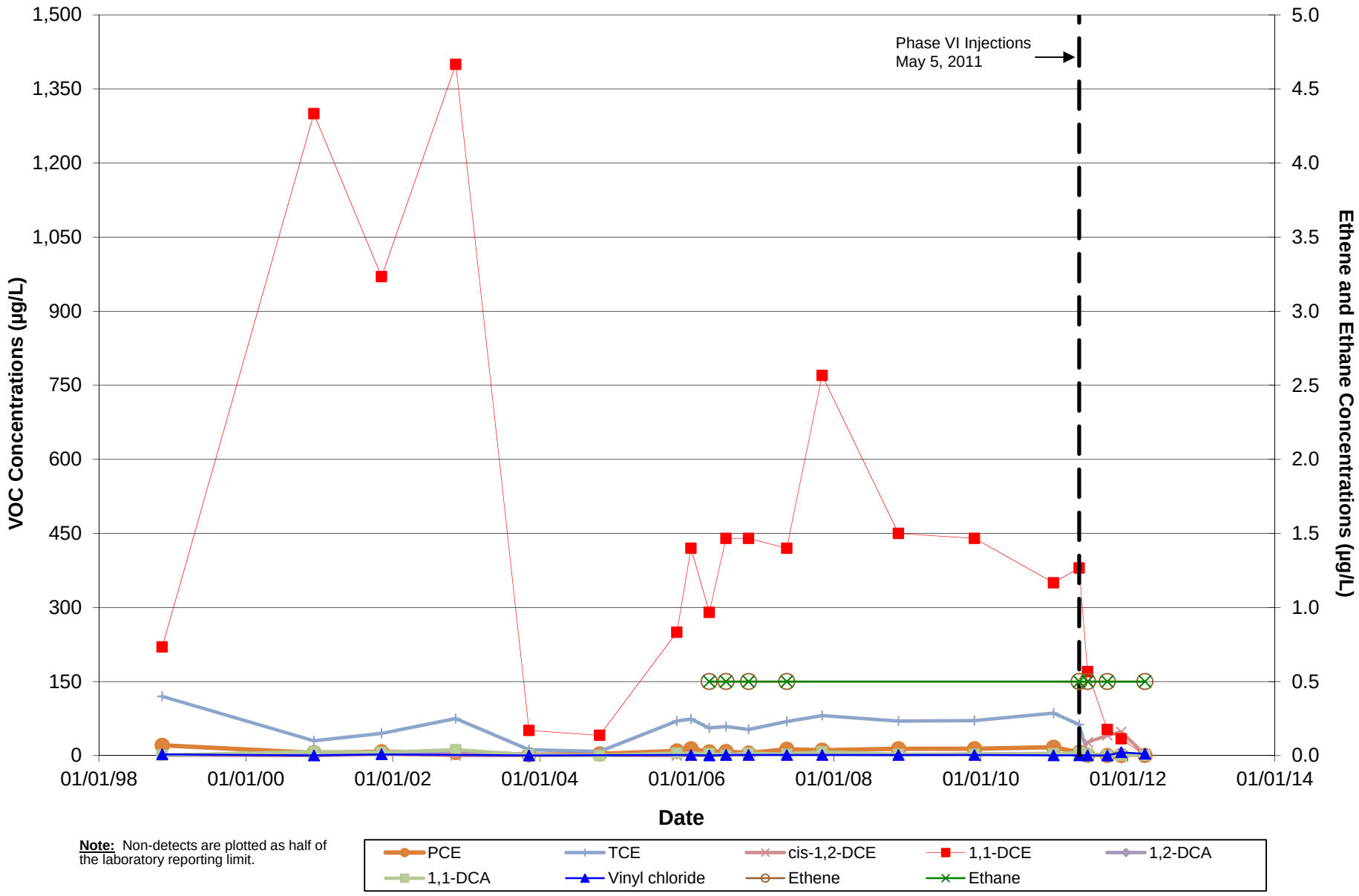
Graphs

Graph 1
Hydrograph for Select Wells – Former Bldg 269 Area
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



Oneida Total Integrated Enterprises, LLC

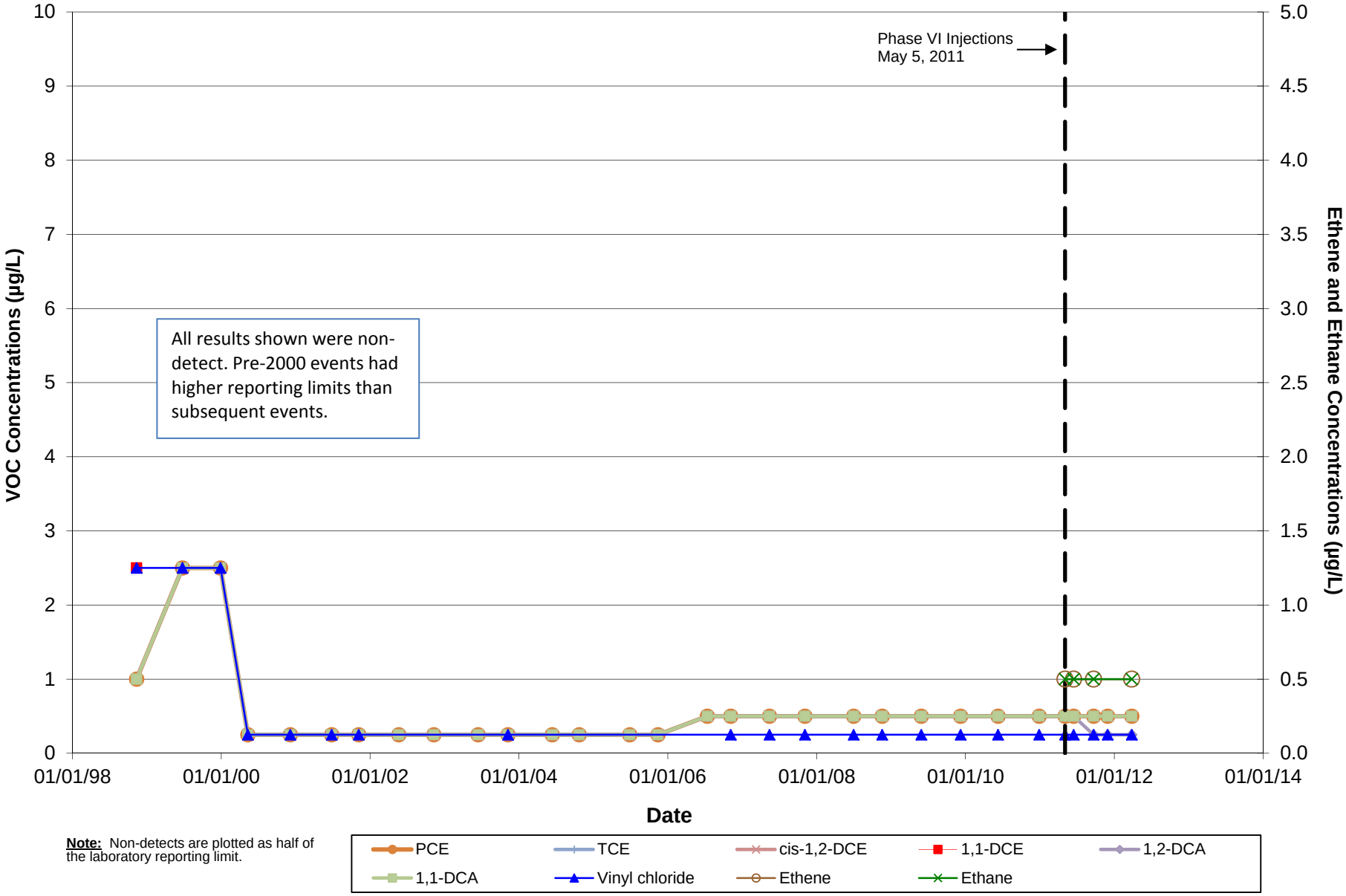
Graph 2
Selected Analytical Results for CM-4D – Former Bldg 269 Area
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



Note: Non-detects are plotted as half of the laboratory reporting limit.

Oneida Total Integrated Enterprises, LLC

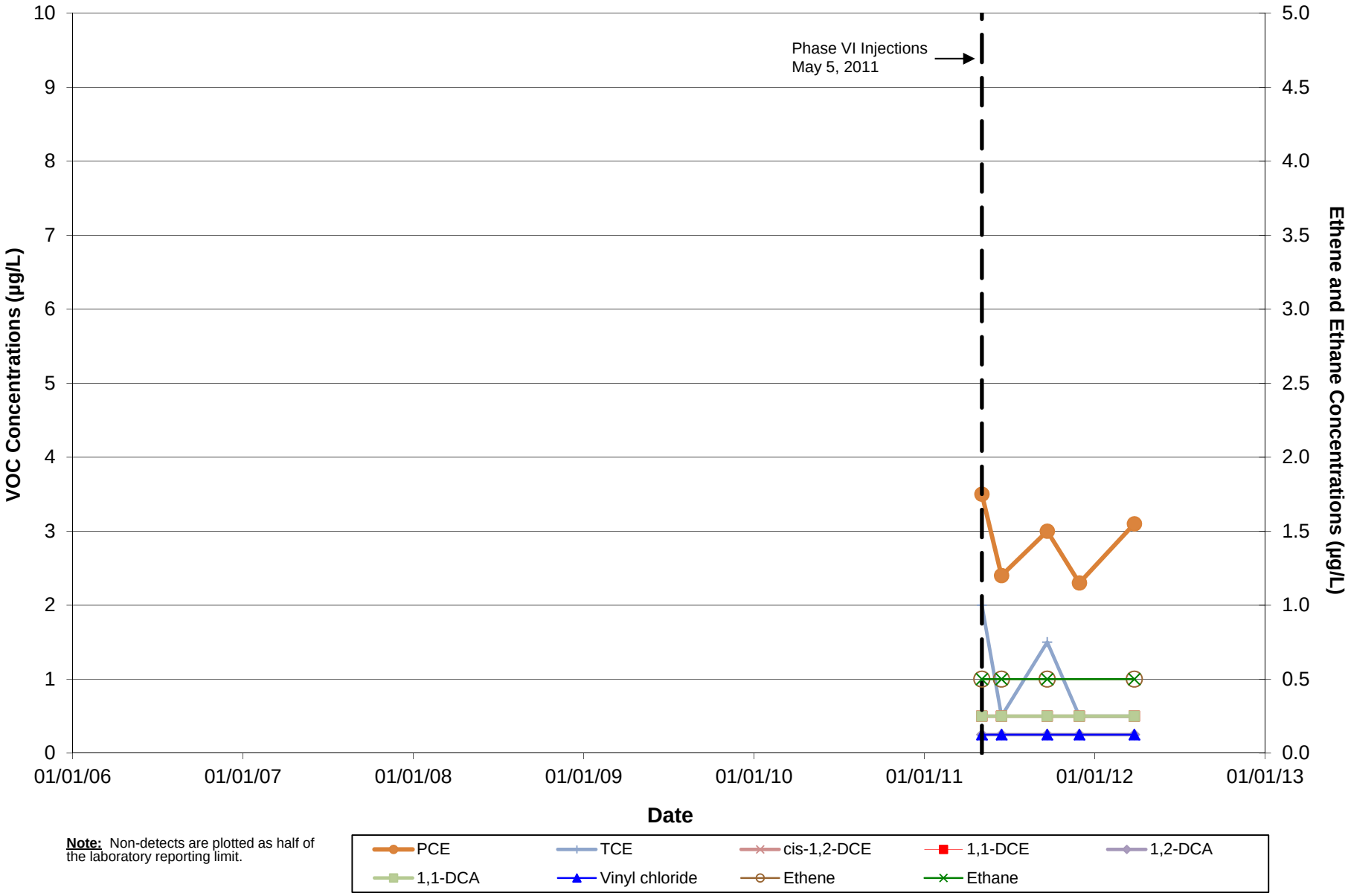
Graph 3
Selected Analytical Results for CM-16 – Former Bldg 269 Area
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



Note: Non-detects are plotted as half of the laboratory reporting limit.

Oneida Total Integrated Enterprises, LLC

Graph 4
Selected Analytical Results for MW-38 – Former Bldg 269 Area
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



Note: Non-detects are plotted as half of the laboratory reporting limit.

Oneida Total Integrated Enterprises, LLC

Appendices A - D

Appendix A	Purge Logs and Field Forms
Appendix B	Laboratory Reports
Appendix C	Historical Groundwater Elevations and Select Analytical Results
Appendix D	Raytheon Company Certification Statement Letter

Appendix A

Purge Logs and Field Forms

Daily Field Memorandum

Field Personnel: Bob Johnson
Date: 3-27-12
Project Name: Raytheon Canoga
Time Arrived Site:
Project/Phase/Task Number: 2009025/06/0610
Time Left Site:
Project Manager:
Travel Time:

Regulator(s) on Site/Time:

Client(s) on Site/Time:

Tasks Completed/Equipment Used/Times:

3-27-12
Gauge the (3) wells & start sample.
Metals on all (3) wells were Field Filter with .45 micron Filter. (2) unfiltered hex chrome & EPA 200.8 on separate COC.
Purge water from (CM-16) (3 gals) put in 55gal drum & left on site.
Duplicate - Dup3-27-12 From CM-4D.
TripBank - TB 3-27-12.
Cal Science picks up samples on site.

Tasks Completed/Equipment Used/Times:

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	☑	☐
Vault Cover	☑	☐
Vault Seal	☑	☐
Bolts	☑	☐
Vault Lock	☑	☐
Concrete Completion	☑	☐
Well Lock/Seal	☑	☐

Well Number: CM-16 **Date:** 3-27-12 **Project No:** 2009025.025/0610

A. Depth to water 41.96 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** EISB (Ph VI) MW9

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Inlet Timer_____sec **Discharge Timer**_____sec **Pressure:** _____psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, ~~S/m~~ or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			7.93	.129	69.0	1.53	21.9	.1	.8	+194
/			7.96	.131	54.2	1.01	↓	.1	.8	+184
/			7.96	.131	48.9	.83		.1	.8	+183
3 gals		0900	7.97	.132	43.4	.82		.1	.8	+182
/										
/										
/										
/										
/										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Sample depth** _____ ft

Water Meter Used:
U-22-TN-01 ☐
U-22-TN-02 ☑
U-10 ☐
Other: _____

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** _____

Additional Comments: Field Filter (1) metals, .45 micron
Submit (2) unfiltered Hex chrom. & EPA 200.8 on separate C.O.C.

OTIE-TN&A Onondaga Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	✓	☐
Vault Cover	✓	☐
Vault Seal	✓	☐
Bolts	✓	☐
Vault Lock	✓	☐
Concrete Completion	✓	☐
Well Lock/Seal	✓	☐

Well Number: CM-4D **Date:** 3-27-12 **Project No:** 2009025.025/0610

A. Depth to water 36.40 feet **Location:** Raytheon Canoga

B. Total depth of well _____ feet **Event:** EISB (Ph VI) M6

C. Standing water in casing _____ feet **Sampler:** Bob Johnson

D. PID _____ ppm

Dup 3-27-12

Screened Interval _____ to _____ ft bgs

Inlet Timer _____ sec **Discharge Timer** _____ sec **Pressure:** _____ psi 1100

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, ~~S/m~~ or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			7.85	.199	133.0	.76	23.0	.1	1.3	-151
/			7.84	.200	101.6	.48	1	.1	1.3	-157
/			7.84	.200	78.9	.41		.1	1.3	-161
4 gals		1045	7.84		71.2	.40	↓	.1	1.3	-163
/										
/										
/										
/										
/										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☐ Monsoon ☐ Other: _____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☐ Monsoon ☐ Other: _____ **Sample depth** _____ ft

Water Meter Used:
U-22-TN-01 ☐
U-22-TN-02 ✓
U-10 ☐
Other: _____

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: 3-27-12 1100 hrs. **Sample ID:** Dup3-27-12

Additional Comments: Field Filter metals

OTIE-TN&A Oneida Total Integrated Enterprises

MONITORING WELL PURGE/SAMPLE LOG

Well Inspection Checklist:

	Good	Bad
Well Identification	✓	☐
Vault Cover	✓	☐
Vault Seal	✓	☐
Bolts	✓	☐
Vault Lock	✓	☐
Concrete Completion	✓	☐
Well Lock/Seal	✓	☐

Well Number: MW-38 **Date:** 3-27

A. Depth to water 32.90 feet

B. Total depth of well _____ feet

C. Standing water in casing _____ feet

D. PID _____ ppm

Screened Interval _____ to _____ ft bgs

Project No: 2009025.025/0610

Location: Raytheon Canoga

Event: EISB (Ph VI) M6

Sampler: Bob Johnson

Inlet Timer_____sec Discharge Timer_____sec Pressure: _____psi

Gallons/ total purged volume (gal)	DTW (ft below casing)	Time	pH	Conduct. (mS/cm, S/m or µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (mg/L or g/L)	ORP (+/- mV)
			8.28	.128	89.0	1.10	23.6	.1	.8	-71
/			8.29	.128	84.8	.87	↓	.1	.8	-59
/			8.29	.128	76.2	.78		.1	.8	-57
3.5 gals		1140	8.29	.128	70.1	.76		.1	.8	-55
/										
/										
/										
/										
/										
Stabilization Readings										

Purging Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Pump inlet depth:** _____ ft

Sampling Device: ☐ Bladder Pump ☐ Peristaltic ☑ Monsoon ☐ Other:_____ **Sample depth** _____ ft

Water Meter Used:
U-22-TN-01 ☐
U-22-TN-02 ✓
U-10 ☐
Other: _____

QA/QC Sample Collected Here? ☐ Duplicate ☐ Matrix Spike ☐ Equip. Blank ☐ No QA/QC Sample

QA/QC Sample ID: _____

Date/Time of QC Sample: _____ **Sample ID:** [redacted]

Additional Comments: field filter metals .45 micron

OTIE - TN & A

Appendix B

Laboratory Reports

Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-03-1830

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: OTIE

Client Project Name: Raytheon Canoga Park EISB (Ph VI) M9

Attention: Kim Sawyer
317 East Main Street
Ventura, CA 93001-2624

Approved for release on 04/10/2012 by:
Virendra Patel
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: Raytheon Canoga Park EISB (Ph VI) M9
Work Order Number: 12-03-1830

1 Detections Summary 3

2 Client Sample Data 6
2.1 RSK-175M Dissolved Gases (Aqueous) 6
2.2 RSK-175M Carbon Dioxide (Aqueous) 7
2.3 HPLC/UV Organic Acids (Aqueous) 8
2.4 EPA 8260B Volatile Organics (Aqueous) 9
2.5 EPA 200.8 ICP/MS Metals / EPA 245.1 Mercury (Aqueous) 15
2.6 Combined Inorganic Tests 17

3 Quality Control Sample Data 19
3.1 MS/MSD and/or Duplicate 19
3.2 LCS/LCSD 25

4 Glossary of Terms and Qualifiers 32

5 Chain of Custody/Sample Receipt Form 33

Calscience Environmental Laboratories, Inc.

Client:	OTIE	Work Order:	12-03-1830
	317 East Main Street	Project Name:	Raytheon Canoga Park EISB (Ph VI) M9
	Ventura, CA 93001-2624	Received:	03/27/12 18:00
Attn:	Kim Sawyer		

DETECTIONS SUMMARY

Client Sample ID Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
CM-4D						
Methane	**6110**		20.0	ug/L	RSK-175M	N/A
Carbon Dioxide	**206000**		68.0	ug/L	RSK-175M	N/A
Arsenic	**0.0153**		0.00100	mg/L	EPA 200.8	Filtered
Barium	**0.561**		0.00100	mg/L	EPA 200.8	Filtered
Chromium	**0.00248**		0.00100	mg/L	EPA 200.8	Filtered
Calcium	**197**		0.100	mg/L	EPA 200.8	Filtered
Iron	**8.84**		0.0500	mg/L	EPA 200.8	Filtered
Magnesium	**72.6**		1.00	mg/L	EPA 200.8	Filtered
Manganese	**1.89**		0.00100	mg/L	EPA 200.8	Filtered
Potassium	**2.68**		0.0500	mg/L	EPA 200.8	Filtered
Sodium	**89.6**		0.100	mg/L	EPA 200.8	Filtered
Boron	**0.624**		0.500	mg/L	EPA 200.8	Filtered
Chloride	**90**		1.0	mg/L	EPA 300.0	N/A
Bromide	**0.19**		0.10	mg/L	EPA 300.0	N/A
Iron (II)	**5.77**		0.100	mg/L	SM 3500-FeB	N/A
Carbon, Total Organic	**120**		5.0	mg/L	SM 5310 D	N/A
Solids, Total Dissolved	**1160**		10.0	mg/L	SM 2540 C	N/A
Acetic Acid	**11**		4.0	mg/L	HPLC/UV	N/A
1,2-Dichloroethane	**0.51**		0.50	ug/L	EPA 8260B	EPA 5030C
c-1,2-Dichloroethene	**1.9**		1.0	ug/L	EPA 8260B	EPA 5030C
Toluene	**1.2**		1.0	ug/L	EPA 8260B	EPA 5030C
Vinyl Chloride	**3.6**		0.50	ug/L	EPA 8260B	EPA 5030C

Return to Contents

*MDL is shown.

Calscience Environmental Laboratories, Inc.

Client: OTIE
317 East Main Street
Ventura, CA 93001-2624
Attn: Kim Sawyer

Work Order: 12-03-1830
Project Name: Raytheon Canoga Park EISB (Ph VI) M9
Received: 03/27/12 18:00

DETECTIONS SUMMARY

Client Sample ID

Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
CM-16						
Carbon Dioxide	**48500**		17.0	ug/L	RSK-175M	N/A
Arsenic	**0.0106**		0.00100	mg/L	EPA 200.8	Filtered
Barium	**0.134**		0.00100	mg/L	EPA 200.8	Filtered
Chromium	**0.00757**		0.00100	mg/L	EPA 200.8	Filtered
Copper	**0.00224**		0.00100	mg/L	EPA 200.8	Filtered
Selenium	**0.00397**		0.00100	mg/L	EPA 200.8	Filtered
Zinc	**0.00645**		0.00500	mg/L	EPA 200.8	Filtered
Calcium	**110**		0.100	mg/L	EPA 200.8	Filtered
Magnesium	**47.5**		0.100	mg/L	EPA 200.8	Filtered
Manganese	**0.0130**		0.00100	mg/L	EPA 200.8	Filtered
Potassium	**3.05**		0.0500	mg/L	EPA 200.8	Filtered
Sodium	**63.7**		0.100	mg/L	EPA 200.8	Filtered
Boron	**0.550**		0.0500	mg/L	EPA 200.8	Filtered
Chloride	**90**		1.0	mg/L	EPA 300.0	N/A
Bromide	**0.18**		0.10	mg/L	EPA 300.0	N/A
Nitrate (as N)	**1.5**		0.10	mg/L	EPA 300.0	N/A
o-Phosphate (as P)	**0.12**		0.10	mg/L	EPA 300.0	N/A
Sulfate	**90**		1.0	mg/L	EPA 300.0	N/A
Chromium, Hexavalent	**2.6**		1.0	ug/L	EPA 7199	N/A
Carbon, Total Organic	**45**		2.5	mg/L	SM 5310 D	N/A
Solids, Total Dissolved	**755**		1.00	mg/L	SM 2540 C	N/A

Return to Contents

*MDL is shown.

Calscience Environmental Laboratories, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Client:	OTIE	Work Order:	12-03-1830
	317 East Main Street	Project Name:	Raytheon Canoga Park EISB (Ph VI) M9
	Ventura, CA 93001-2624	Received:	03/27/12 18:00
Attn:	Kim Sawyer		

DETECTIONS SUMMARY

Client Sample ID / Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
MW-38						
Methane	**8.36**		1.00	ug/L	RSK-175M	N/A
Carbon Dioxide	**11900**		17.0	ug/L	RSK-175M	N/A
Arsenic	**0.0410**		0.00100	mg/L	EPA 200.8	Filtered
Barium	**0.104**		0.00100	mg/L	EPA 200.8	Filtered
Chromium	**0.0100**		0.00100	mg/L	EPA 200.8	Filtered
Copper	**0.00322**		0.00100	mg/L	EPA 200.8	Filtered
Selenium	**0.0258**		0.00100	mg/L	EPA 200.8	Filtered
Zinc	**0.00790**		0.00500	mg/L	EPA 200.8	Filtered
Calcium	**83.4**		0.100	mg/L	EPA 200.8	Filtered
Magnesium	**52.5**		0.100	mg/L	EPA 200.8	Filtered
Manganese	**0.0109**		0.00100	mg/L	EPA 200.8	Filtered
Potassium	**3.14**		0.0500	mg/L	EPA 200.8	Filtered
Sodium	**50.4**		0.100	mg/L	EPA 200.8	Filtered
Boron	**0.126**		0.0500	mg/L	EPA 200.8	Filtered
Chloride	**140**		5.0	mg/L	EPA 300.0	N/A
Bromide	**0.50**		0.10	mg/L	EPA 300.0	N/A
Nitrate (as N)	**5.5**		0.10	mg/L	EPA 300.0	N/A
Sulfate	**92**		1.0	mg/L	EPA 300.0	N/A
Chromium, Hexavalent	**10**		1.0	ug/L	EPA 7199	N/A
Carbon, Total Organic	**25**		2.5	mg/L	SM 5310 D	N/A
Solids, Total Dissolved	**765**		1.00	mg/L	SM 2540 C	N/A
Tetrachloroethene	**3.1**		1.0	ug/L	EPA 8260B	EPA 5030C
DUP3-27-12						
1,2-Dichloroethane	**0.57**		0.50	ug/L	EPA 8260B	EPA 5030C
c-1,2-Dichloroethene	**1.7**		1.0	ug/L	EPA 8260B	EPA 5030C
Toluene	**1.0**		1.0	ug/L	EPA 8260B	EPA 5030C
Vinyl Chloride	**3.1**		0.50	ug/L	EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

*MDL is shown.

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 03/27/12
Work Order No: 12-03-1830
Preparation: N/A
Method: RSK-175M
Units: ug/L

Project: Raytheon Canoga Park EISB (Ph VI) M9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CM-4D	**12-03-1830-1-D**	**03/27/12 10:45**	**Aqueous**	**GC 52**	**N/A**	**03/28/12 13:15**	**120328L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	6110	20.0	20	
Ethylene	ND	1.00	1						

CM-16	12-03-1830-2-D	03/27/12 09:00	Aqueous	GC 52	N/A	03/28/12 13:36	120328L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	ND	1.00	1	
Ethylene	ND	1.00	1						

MW-38	12-03-1830-3-D	03/27/12 11:40	Aqueous	GC 52	N/A	03/28/12 14:34	120328L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	8.36	1.00	1	
Ethylene	ND	1.00	1						

Method Blank	099-12-661-571	N/A	Aqueous	GC 52	N/A	03/28/12 11:22	120328L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	ND	1.00	1	
Ethylene	ND	1.00	1						

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 03/27/12
Work Order No: 12-03-1830
Preparation: N/A
Method: RSK-175M

Project: Raytheon Canoga Park EISB (Ph VI) M9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CM-4D	**12-03-1830-1-F**	**03/27/12 10:45**	**Aqueous**	**GC 14**	**N/A**	**03/28/12 18:43**	**120328L01**

Parameter	Result	RL	DF	Qual	Units
Carbon Dioxide	206000	68.0	40		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CM-16	**12-03-1830-2-G**	**03/27/12 09:00**	**Aqueous**	**GC 14**	**N/A**	**03/28/12 13:41**	**120328L01**

Parameter	Result	RL	DF	Qual	Units
Carbon Dioxide	48500	17.0	10		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-38	**12-03-1830-3-G**	**03/27/12 11:40**	**Aqueous**	**GC 14**	**N/A**	**03/28/12 14:01**	**120328L01**

Parameter	Result	RL	DF	Qual	Units
Carbon Dioxide	11900	17.0	10		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-659-350**	**N/A**	**Aqueous**	**GC 14**	**N/A**	**03/28/12 12:56**	**120328L01**

Parameter	Result	RL	DF	Qual	Units
Carbon Dioxide	ND	1.70	1		ug/L

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 03/27/12
Work Order No: 12-03-1830
Preparation: N/A
Method: HPLC/UV
Units: mg/L

Project: Raytheon Canoga Park EISB (Ph VI) M9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CM-4D	**12-03-1830-1-H**	**03/27/12 10:45**	**Aqueous**	**HPLC 6**	**N/A**	**03/28/12 12:43**	**120328L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	11	4.0	1		Propionic Acid	ND	4.0	1	
Butyric Acid	ND	4.0	1		Pyruvic Acid	ND	0.50	1	
Lactic Acid	ND	4.0	1						

Surrogates:	REC (%)	Control Limits	Qual
Dibromopropionic Acid	98	80-120	

CM-16	**12-03-1830-2-H**	**03/27/12 09:00**	**Aqueous**	**HPLC 6**	**N/A**	**03/28/12 13:06**	**120328L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	4.0	1		Propionic Acid	ND	4.0	1	
Butyric Acid	ND	4.0	1		Pyruvic Acid	ND	0.50	1	
Lactic Acid	ND	4.0	1						

Surrogates:	REC (%)	Control Limits	Qual
Dibromopropionic Acid	98	80-120	

MW-38	**12-03-1830-3-H**	**03/27/12 11:40**	**Aqueous**	**HPLC 6**	**N/A**	**03/28/12 13:29**	**120328L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	4.0	1		Propionic Acid	ND	4.0	1	
Butyric Acid	ND	4.0	1		Pyruvic Acid	ND	0.50	1	
Lactic Acid	ND	4.0	1						

Surrogates:	REC (%)	Control Limits	Qual
Dibromopropionic Acid	98	80-120	

Method Blank	**099-12-016-314**	**N/A**	**Aqueous**	**HPLC 6**	**N/A**	**03/28/12 12:20**	**120328L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	4.0	1		Propionic Acid	ND	4.0	1	
Butyric Acid	ND	4.0	1		Pyruvic Acid	ND	0.50	1	
Lactic Acid	ND	4.0	1						

Surrogates:	REC (%)	Control Limits	Qual
Dibromopropionic Acid	90	80-120	

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	03/27/12
317 East Main Street		Work Order No:	12-03-1830
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L

Project: Raytheon Canoga Park EISB (Ph VI) M9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CM-4D	**12-03-1830-1-A**	**03/27/12 10:45**	**Aqueous**	**GC/MS XX**	**03/28/12**	**03/28/12 17:44**	**120328L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	1.2	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	0.51	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	3.6	0.50	1	
c-1,2-Dichloroethene	1.9	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	94	80-120			Dibromofluoromethane	113	80-126		
1,2-Dichloroethane-d4	109	80-134			Toluene-d8	100	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 03/27/12
Work Order No: 12-03-1830
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park EISB (Ph VI) M9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CM-16	**12-03-1830-2-A**	**03/27/12 09:00**	**Aqueous**	**GC/MS XX**	**03/28/12**	**03/28/12 18:12**	**120328L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	90	80-120			Dibromofluoromethane	113	80-126		
1,2-Dichloroethane-d4	111	80-134			Toluene-d8	99	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	03/27/12
317 East Main Street		Work Order No:	12-03-1830
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L

Project: Raytheon Canoga Park EISB (Ph VI) M9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-38	**12-03-1830-3-A**	**03/27/12 11:40**	**Aqueous**	**GC/MS XX**	**03/28/12**	**03/28/12 18:39**	**120328L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	3.1	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	91	80-120			Dibromofluoromethane	115	80-126		
1,2-Dichloroethane-d4	113	80-134			Toluene-d8	99	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	03/27/12
317 East Main Street		Work Order No:	12-03-1830
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L

Project: Raytheon Canoga Park EISB (Ph VI) M9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB1-3-27-12	**12-03-1830-4-A**	**03/27/12 13:00**	**Aqueous**	**GC/MS XX**	**03/28/12**	**03/28/12 19:07**	**120328L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	91	80-120			Dibromofluoromethane	115	80-126		
1,2-Dichloroethane-d4	111	80-134			Toluene-d8	98	80-120		

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 03/27/12
Work Order No: 12-03-1830
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park EISB (Ph VI) M9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DUP3-27-12	**12-03-1830-5-A**	**03/27/12 11:00**	**Aqueous**	**GC/MS XX**	**03/28/12**	**03/28/12 19:35**	**120328L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	1.0	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	0.57	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	3.1	0.50	1	
c-1,2-Dichloroethene	1.7	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	92	80-120			Dibromofluoromethane	116	80-126		
1,2-Dichloroethane-d4	117	80-134			Toluene-d8	100	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 03/27/12
Work Order No: 12-03-1830
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Canoga Park EISB (Ph VI) M9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-7,391**	**N/A**	**Aqueous**	**GC/MS XX**	**03/28/12**	**03/28/12 12:12**	**120328L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	92	80-120			Dibromofluoromethane	112	80-126		
1,2-Dichloroethane-d4	109	80-134			Toluene-d8	100	80-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 03/27/12
Work Order No: 12-03-1830
Preparation: Filtered / EPA 245.1 Filt.
Method: EPA 200.8 / EPA 245.1
Units: mg/L

Project: Raytheon Canoga Park EISB (Ph VI) M9

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CM-4D	**12-03-1830-1-K**	**03/27/12 10:45**	**Aqueous**	**ICP/MS 04**	**03/29/12**	**03/29/12 22:25**	**120329L04F**

Comment(s): -Mercury analysis was performed on 03/29/12 11:18 with batch 120328L04F.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	0.0153	0.00100	1		Calcium	197	0.100	1	
Barium	0.561	0.00100	1		Iron	8.84	0.0500	1	
Cadmium	ND	0.00100	1		Magnesium	72.6	1.00	10	
Chromium	0.00248	0.00100	1		Manganese	1.89	0.00100	1	
Copper	ND	0.00100	1		Potassium	2.68	0.0500	1	
Lead	ND	0.00100	1		Sodium	89.6	0.100	1	
Selenium	ND	0.00100	1		Boron	0.624	0.500	10	
Zinc	ND	0.00500	1		Mercury	ND	0.000200	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CM-16	**12-03-1830-2-K**	**03/27/12 09:00**	**Aqueous**	**ICP/MS 04**	**03/29/12**	**03/29/12 22:30**	**120329L04F**

Comment(s): -Mercury analysis was performed on 03/29/12 11:25 with batch 120328L04F.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	0.0106	0.00100	1		Calcium	110	0.100	1	
Barium	0.134	0.00100	1		Iron	ND	0.0500	1	
Cadmium	ND	0.00100	1		Magnesium	47.5	0.100	1	
Chromium	0.00757	0.00100	1		Manganese	0.0130	0.00100	1	
Copper	0.00224	0.00100	1		Potassium	3.05	0.0500	1	
Lead	ND	0.00100	1		Sodium	63.7	0.100	1	
Selenium	0.00397	0.00100	1		Boron	0.550	0.0500	1	
Zinc	0.00645	0.00500	1		Mercury	ND	0.000200	1	

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-38	**12-03-1830-3-K**	**03/27/12 11:40**	**Aqueous**	**ICP/MS 04**	**03/29/12**	**04/02/12 20:40**	**120329L04F**

Comment(s): -Mercury analysis was performed on 03/29/12 11:27 with batch 120328L04F.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	0.0410	0.00100	1		Calcium	83.4	0.100	1	
Barium	0.104	0.00100	1		Iron	ND	0.0500	1	
Cadmium	ND	0.00100	1		Magnesium	52.5	0.100	1	
Chromium	0.0100	0.00100	1		Manganese	0.0109	0.00100	1	
Copper	0.00322	0.00100	1		Potassium	3.14	0.0500	1	
Lead	ND	0.00100	1		Sodium	50.4	0.100	1	
Selenium	0.0258	0.00100	1		Boron	0.126	0.0500	1	
Zinc	0.00790	0.00500	1		Mercury	ND	0.000200	1	

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 03/27/12
Work Order No: 12-03-1830
Preparation: Filtered / EPA 245.1 Filt.
Method: EPA 200.8 / EPA 245.1
Units: mg/L

Project: Raytheon Canoga Park EISB (Ph VI) M9

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-008-1,876**	**N/A**	**Aqueous**	**ICP/MS 04**	**03/29/12**	**03/29/12 20:55**	**120329L04F**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	ND	0.00100	1		Calcium	ND	0.100	1	
Barium	ND	0.00100	1		Iron	ND	0.0500	1	
Cadmium	ND	0.00100	1		Magnesium	ND	0.100	1	
Chromium	ND	0.00100	1		Manganese	ND	0.00100	1	
Copper	ND	0.00100	1		Potassium	ND	0.0500	1	
Lead	ND	0.00100	1		Sodium	ND	0.100	1	
Selenium	ND	0.00100	1		Boron	ND	0.0500	1	
Zinc	ND	0.00500	1						

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-04-008-5,910**	**N/A**	**Aqueous**	**Mercury**	**03/28/12**	**03/29/12 11:11**	**120328L04F**

Comment(s): -Preparation/analysis for Mercury was performed by EPA 245.1.

Parameter	Result	RL	DF	Qual
Mercury	ND	0.000200	1	

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 03/27/12
Work Order No: 12-03-1830

Project: Raytheon Canoga Park EISB (Ph VI) M9

Client Sample Number	Lab Sample Number	Date Collected	Matrix
CM-4D	**12-03-1830-1**	**03/27/12**	**Aqueous**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	90	1.0	1		mg/L	N/A	03/27/12	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	03/27/12	EPA 300.0
Bromide	0.19	0.10	1		mg/L	N/A	03/27/12	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	03/27/12	EPA 300.0
o-Phosphate (as P)	ND	0.10	1		mg/L	N/A	03/27/12	EPA 300.0
Sulfate	ND	1.0	1		mg/L	N/A	03/27/12	EPA 300.0
Chromium, Hexavalent	ND	1.0	1		ug/L	N/A	03/27/12	EPA 7199
Solids, Total Dissolved	1160	10.0	1		mg/L	03/28/12	03/28/12	SM 2540 C
Iron (II)	5.77	0.100	1		mg/L	03/27/12	03/27/12	SM 3500-FeB
Carbon, Total Organic	120	5.0	10		mg/L	N/A	03/28/12	SM 5310 D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
CM-16	**12-03-1830-2**	**03/27/12**	**Aqueous**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	90	1.0	1		mg/L	N/A	03/27/12	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	03/27/12	EPA 300.0
Bromide	0.18	0.10	1		mg/L	N/A	03/27/12	EPA 300.0
Nitrate (as N)	1.5	0.10	1		mg/L	N/A	03/27/12	EPA 300.0
o-Phosphate (as P)	0.12	0.10	1		mg/L	N/A	03/27/12	EPA 300.0
Sulfate	90	1.0	1		mg/L	N/A	03/27/12	EPA 300.0
Chromium, Hexavalent	2.6	1.0	1		ug/L	N/A	03/27/12	EPA 7199
Solids, Total Dissolved	755	1.00	1		mg/L	03/28/12	03/28/12	SM 2540 C
Iron (II)	ND	0.100	1		mg/L	03/27/12	03/27/12	SM 3500-FeB
Carbon, Total Organic	45	2.5	5		mg/L	N/A	03/28/12	SM 5310 D

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 03/27/12
Work Order No: 12-03-1830

Project: Raytheon Canoga Park EISB (Ph VI) M9

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-38	**12-03-1830-3**	**03/27/12**	**Aqueous**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	140	5.0	5		mg/L	N/A	03/30/12	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	03/27/12	EPA 300.0
Bromide	0.50	0.10	1		mg/L	N/A	03/27/12	EPA 300.0
Nitrate (as N)	5.5	0.10	1		mg/L	N/A	03/27/12	EPA 300.0
o-Phosphate (as P)	ND	0.10	1		mg/L	N/A	03/27/12	EPA 300.0
Sulfate	92	1.0	1		mg/L	N/A	03/27/12	EPA 300.0
Chromium, Hexavalent	10	1.0	1		ug/L	N/A	03/27/12	EPA 7199
Solids, Total Dissolved	765	1.00	1		mg/L	03/28/12	03/28/12	SM 2540 C
Iron (II)	ND	0.100	1		mg/L	03/27/12	03/27/12	SM 3500-FeB
Carbon, Total Organic	25	2.5	5		mg/L	N/A	03/28/12	SM 5310 D

Method Blank					**N/A**	**Aqueous**		
Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	ND	1.0	1		mg/L	N/A	03/27/12	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	03/27/12	EPA 300.0
Bromide	ND	0.10	1		mg/L	N/A	03/27/12	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	03/27/12	EPA 300.0
o-Phosphate (as P)	ND	0.10	1		mg/L	N/A	03/27/12	EPA 300.0
Sulfate	ND	1.0	1		mg/L	N/A	03/27/12	EPA 300.0
Chloride	ND	1.0	1		mg/L	N/A	03/30/12	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	03/30/12	EPA 300.0
Bromide	ND	0.10	1		mg/L	N/A	03/30/12	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	03/30/12	EPA 300.0
o-Phosphate (as P)	ND	0.10	1		mg/L	N/A	03/30/12	EPA 300.0
Sulfate	ND	1.0	1		mg/L	N/A	03/30/12	EPA 300.0
Chromium, Hexavalent	ND	1.0	1		ug/L	N/A	03/27/12	EPA 7199
Solids, Total Dissolved	ND	1.0	1		mg/L	03/28/12	03/28/12	SM 2540 C
Iron (II)	ND	0.100	1		mg/L	03/27/12	03/27/12	SM 3500-FeB
Carbon, Total Organic	ND	0.50	1		mg/L	N/A	03/28/12	SM 5310 D

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 03/27/12
Work Order No: 12-03-1830
Preparation: Filtered
Method: EPA 200.8

Project Raytheon Canoga Park EISB (Ph VI) M9

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
CM-4D	**Aqueous**	**ICP/MS 04**	**03/29/12**	**03/29/12**	**120329S04**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	0.1000	97	98	80-120	0	0-20	
Barium	0.1000	4X	4X	80-120	4X	0-10	Q
Cadmium	0.1000	88	89	80-120	1	0-20	
Chromium	0.1000	99	99	80-120	1	0-20	
Copper	0.1000	100	100	80-120	0	0-20	
Lead	0.1000	103	102	80-120	1	0-20	
Selenium	0.1000	85	83	80-120	3	0-20	
Zinc	0.1000	85	86	80-120	0	0-20	
Calcium	5.000	4X	4X	80-120	4X	0-20	Q
Iron	0.1000	4X	4X	80-120	4X	0-20	Q
Magnesium	5.000	52	12	80-120	3	0-20	3
Manganese	0.1000	4X	4X	80-120	4X	0-20	Q
Potassium	1.000	95	94	80-120	0	0-20	
Sodium	1.000	4X	4X	80-120	4X	0-20	Q
Boron	0.1000	60	33	80-120	4	0-20	3

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 03/27/12
Work Order No: 12-03-1830
Preparation: EPA 245.1 Filt.
Method: EPA 245.1

Project Raytheon Canoga Park EISB (Ph VI) M9

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
CM-16	**Aqueous**	**Mercury**	**03/28/12**	**03/29/12**	**120328S04**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	0.01000	94	97	57-141	3	0-10	

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RPD - Relative Percent Difference , CL - Control Limit

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Quality Control - Spike/Spike Duplicate

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 03/27/12
Work Order No: 12-03-1830
Preparation: N/A
Method: HPLC/UV

Project Raytheon Canoga Park EISB (Ph VI) M9

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
CM-16	**Aqueous**	**HPLC 6**	**N/A**	**03/28/12**	**120328S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	20.00	103	107	70-130	4	0-30	
Butyric Acid	20.00	94	99	70-130	6	0-30	
Lactic Acid	20.00	101	103	70-130	2	0-30	
Propionic Acid	20.00	95	97	70-130	2	0-30	
Pyruvic Acid	2.000	82	84	70-130	2	0-30	

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RPD - Relative Percent Difference , CL - Control Limit

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Quality Control - Spike/Spike Duplicate

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: 03/27/12
Work Order No: 12-03-1830
Preparation: EPA 5030C
Method: EPA 8260B

Project Raytheon Canoga Park EISB (Ph VI) M9

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-03-1765-5	**Aqueous**	**GC/MS XX**	**03/28/12**	**03/28/12**	**120328S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	50.00	99	94	78-120	5	0-20	
Carbon Tetrachloride	50.00	101	98	67-139	3	0-20	
Chlorobenzene	50.00	89	84	80-120	6	0-20	
1,2-Dibromoethane	50.00	92	86	80-123	7	0-20	
1,2-Dichlorobenzene	50.00	83	79	76-120	6	0-20	
1,2-Dichloroethane	50.00	97	92	76-130	5	0-20	
1,1-Dichloroethene	50.00	91	88	70-130	3	0-27	
Ethylbenzene	50.00	97	92	73-127	5	0-20	
Toluene	50.00	100	95	72-126	4	0-20	
Trichloroethene	50.00	97	94	74-122	4	0-20	
Vinyl Chloride	50.00	89	91	65-131	3	0-24	
Methyl-t-Butyl Ether (MTBE)	50.00	93	89	69-123	4	0-20	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-03-1830

Project: Raytheon Canoga Park EISB (Ph VI) M9

Matrix: Aqueous or Solid

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	MS% REC	MSD % REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	EPA 7199	CM-4D	04/05/12	N/A	100	100	70-130	1	0-25	
Chloride	EPA 300.0	12-03-1767-1	03/27/12	N/A	99	99	80-120	0	0-20	
Nitrite (as N)	EPA 300.0	12-03-1767-1	03/27/12	N/A	96	96	80-120	0	0-20	
Bromide	EPA 300.0	12-03-1767-1	03/27/12	N/A	100	100	80-120	0	0-20	
Nitrate (as N)	EPA 300.0	12-03-1767-1	03/27/12	N/A	101	101	80-120	0	0-20	
o-Phosphate (as P)	EPA 300.0	12-03-1767-1	03/27/12	N/A	96	98	80-120	2	0-20	
Sulfate	EPA 300.0	12-03-1767-1	03/27/12	N/A	98	98	80-120	0	0-20	
Iron (II)	SM 3500-FeB	MW-38	03/27/12	3/27/12	94	97	70-130	3	0-25	
Carbon, Total Organic	SM 5310 D	12-03-1742-1	03/28/12	N/A	72	68	75-125	2	0-25	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

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OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-03-1830

Project: Raytheon Canoga Park EISB (Ph VI) M9

Matrix: Aqueous or Solid

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	SM 2540 C	MW-38	03/28/12	765	785	3	0-10	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-03-1830
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	RSK-175M

Project: Raytheon Canoga Park EISB (Ph VI) M9

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-659-350	**Aqueous**	**GC 14**	**N/A**	**03/28/12**	**120328L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Carbon Dioxide	102.0	96	96	80-120	0	0-20	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-03-1830
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	RSK-175M

Project: Raytheon Canoga Park EISB (Ph VI) M9

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-661-571	**Aqueous**	**GC 52**	**N/A**	**03/28/12**	**120328L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Ethane	101.0	95	96	80-120	1	0-20	
Ethylene	100.0	94	96	80-120	2	0-20	
Methane	100.0	93	94	79-109	1	0-20	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-03-1830
Preparation: Filtered
Method: EPA 200.8

Project: Raytheon Canoga Park EISB (Ph VI) M9

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-008-1,876	**Aqueous**	**ICP/MS 04**	**03/29/12**	**03/29/12**	**120329L04F**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Arsenic	0.1000	100	101	80-120	73-127	1	0-20	
Barium	0.1000	103	103	80-120	73-127	0	0-20	
Cadmium	0.1000	97	97	80-120	73-127	0	0-20	
Chromium	0.1000	101	100	80-120	73-127	1	0-20	
Copper	0.1000	106	105	80-120	73-127	1	0-20	
Lead	0.1000	98	99	80-120	73-127	1	0-20	
Selenium	0.1000	102	99	80-120	73-127	3	0-20	
Zinc	0.1000	99	99	80-120	73-127	0	0-20	
Calcium	5.000	99	97	80-120	73-127	2	0-20	
Iron	0.1000	104	98	80-120	73-127	6	0-20	
Magnesium	5.000	101	99	80-120	73-127	1	0-20	
Manganese	0.1000	99	98	80-120	73-127	1	0-20	
Potassium	1.000	99	98	80-120	73-127	2	0-20	
Sodium	1.000	96	94	80-120	73-127	2	0-20	
Boron	0.1000	97	94	80-120	73-127	3	0-20	

Total number of LCS compounds : 15
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-03-1830
Ventura, CA 93001-2624		Preparation:	EPA 245.1 Filt.
		Method:	EPA 245.1

Project: Raytheon Canoga Park EISB (Ph VI) M9

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-008-5,910	**Aqueous**	**Mercury**	**03/28/12**	**03/29/12**	**120328L04F**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	0.01000	107	106	85-121	0	0-10	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-03-1830
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	HPLC/UV

Project: Raytheon Canoga Park EISB (Ph VI) M9

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-016-314	**Aqueous**	**HPLC 6**	**N/A**	**03/28/12**	**120328L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	20.00	99	98	80-120	1	0-20	
Butyric Acid	20.00	98	93	80-120	5	0-20	
Lactic Acid	20.00	101	101	80-120	0	0-20	
Propionic Acid	20.00	100	98	80-120	2	0-20	
Pyruvic Acid	2.000	95	95	80-120	0	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE		Date Received:	N/A
317 East Main Street		Work Order No:	12-03-1830
Ventura, CA 93001-2624		Preparation:	EPA 5030C
		Method:	EPA 8260B

Project: Raytheon Canoga Park EISB (Ph VI) M9

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-7,391	**Aqueous**	**GC/MS XX**	**03/28/12**	**03/28/12**	**120328L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	104	103	80-120	73-127	1	0-20	
Carbon Tetrachloride	50.00	106	106	66-138	54-150	0	0-20	
Chlorobenzene	50.00	94	94	80-120	73-127	0	0-20	
1,2-Dibromoethane	50.00	98	98	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	50.00	90	90	80-120	73-127	0	0-20	
1,2-Dichloroethane	50.00	102	101	80-129	72-137	1	0-20	
1,1-Dichloroethene	50.00	96	97	71-131	61-141	1	0-20	
Ethylbenzene	50.00	102	103	80-123	73-130	0	0-20	
Toluene	50.00	107	105	79-121	72-128	1	0-20	
Trichloroethene	50.00	103	103	80-120	73-127	0	0-20	
Vinyl Chloride	50.00	98	96	70-136	59-147	2	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	101	100	72-126	63-135	2	0-22	

Total number of LCS compounds : 12
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

OTIE
317 East Main Street
Ventura, CA 93001-2624

Date Received: N/A
Work Order No: 12-03-1830

Project: Raytheon Canoga Park EISB (Ph VI) M9

Matrix: Aqueous or Solid

Parameter	Method	Quality Control Sample ID	Date Extracted	Date Analyzed	LCS % REC	LCSD % REC	%REC CL	RPD	RPD CL	Qual
Chromium, Hexavalent	EPA 7199	099-05-123-3,096	N/A	03/27/12	105	105	80-120	0	0-20	
Chloride	EPA 300.0	099-12-906-2,580	N/A	03/30/12	101	100	90-110	1	0-15	
Nitrite (as N)	EPA 300.0	099-12-906-2,580	N/A	03/30/12	98	101	90-110	3	0-15	
Bromide	EPA 300.0	099-12-906-2,580	N/A	03/30/12	102	100	90-110	2	0-15	
Nitrate (as N)	EPA 300.0	099-12-906-2,580	N/A	03/30/12	101	99	90-110	2	0-15	
o-Phosphate (as P)	EPA 300.0	099-12-906-2,580	N/A	03/30/12	98	105	90-110	7	0-15	
Sulfate	EPA 300.0	099-12-906-2,580	N/A	03/30/12	101	99	90-110	1	0-15	
Chloride	EPA 300.0	099-12-906-2,570	N/A	03/27/12	99	99	90-110	0	0-15	
Nitrite (as N)	EPA 300.0	099-12-906-2,570	N/A	03/27/12	95	94	90-110	0	0-15	
Bromide	EPA 300.0	099-12-906-2,570	N/A	03/27/12	100	99	90-110	1	0-15	
Nitrate (as N)	EPA 300.0	099-12-906-2,570	N/A	03/27/12	100	100	90-110	0	0-15	
o-Phosphate (as P)	EPA 300.0	099-12-906-2,570	N/A	03/27/12	97	100	90-110	4	0-15	
Sulfate	EPA 300.0	099-12-906-2,570	N/A	03/27/12	99	99	90-110	0	0-15	
Iron (II)	SM 3500-FeB	099-05-111-4,322	03/27/12	03/27/12	99	98	80-120	1	0-20	
Carbon, Total Organic	SM 5310 D	099-05-097-4,555	N/A	03/28/12	96	96	80-120	0	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

ACCREDITED IN ACCORDANCE WITH nelac

Work Order Number: 12-03-1830

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
MPN - Most Probable Number

Return to Contents

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: 3-27-12

PAGE: 1 OF 1

LABORATORY CLIENT: OTIE

ADDRESS: 317 E. Main Street, Ventura CA 93001

TEL: 805.585.2110 | FAX: 805.585.2111 | E-MAIL: ksawyer@otie.com

CLIENT PROJECT NAME / NUMBER: Raytheon CANOGA PARK EISB (PhVI) M9

P.O. NO.: 2009.025/0610

PROJECT CONTACT: Kim Sawyer

LAB USE ONLY: 12-03-1830

SAMPLER(S): (SIGNATURE) Bob Shaw

COELT LOG CODE: T N A V

COOLER RECEIPT Temp = _____ °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ☐ 5 DAYS ☒ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING ☒ COELT EDF ☒ WDR 100000974

SPECIAL INSTRUCTIONS:
EPA 200.8 - As,Ba,B,Cd,Ca,Cr,Cu,Fe,Pb,Mg,Mn,K,Se,Na&Zn
** OTIE SPECIFIC EDD/COELT EDF **
Samples field filtered For 200.8 metals

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	EPA 8260B - VOCs	HPLC/UV - VFAs (Organic Acids)	RSK-175M - Methane,Ethane,Ethene	RSK-175M - Carbon Dioxide	EPA 300.0 - Br,Cl,NO2,NO3, o-PO4,SO4	SM 3500-FeB - Ferrous Iron	SM2540C - TDS	SM5310C - TOC	EPA 7199 - Hexavalent Chromium	EPA 245.1 - Hg	EPA 200.8 - See Special Instructions		CONTAINER TYPE
1	CM-4D		3-27-12	1045	GW	14	X	X	X	X	X	X	X	X	X	X	X		
2	CM-16			0900	GW	14	X	X	X	X	X	X	X	X	X	X	X		
3	MW-38			1140	GW	14	X	X	X	X	X	X	X	X	X	X	X		
4	TB1 -3-27-12			1300	GW	2	X												
5	DUP 3-27-12			1100	GW	3	X												

Relinquished by: (Signature) Bob Shaw	Received by: (Signature) CEL	Date: 3/27/12	Time: 1610
Relinquished by: (Signature)	Received by: (Signature) Dannyle CEL	Date: 3/27/12	Time: 18:00
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

3/12/2012

Return to Contents

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-03-1830

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: OTie DATE: 03/22/12

TEMPERATURE: Thermometer ID: SC3 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.7 °C - 0.3 °C (CF) = 2.4 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Initial: _____

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: _____

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: _____

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☑2VOA ☑5VOAh ☐VOA**na₂** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na₂** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☑250AGB ☐250CGB ☑250CGB**s** ☑1PB ☐1PB**na** ☑500PB

☐250PB ☑250PB**nu** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na₂** ☑2 VOA p ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:** 120309B **Labeled/Checked by:** PS / YL

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** PS

Preservative: **h:** HCL **n:** HNO_3 **na₂:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** _____

Return to Contents

Appendix C

Historical Groundwater Elevations and
Select Analytical Results

Table C1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
M-1	03/08/95	<10	**30**	<10	**2,000**	<10	<10	<10	**26**	**30**	<10	--
	05/12/98	<5.0	<5.0	<5.0	**180**	<5.0	<5.0	<5.0	<5.0	**5.9**	<5.0	--
	11/12/98	<2.0	**5.9**	**2.3**	**710**	<2.0	**2.0**	<2.0	**3.8**	**18**	<5.0	--
	06/25/99	<5.0	<5.0	<5.0	**19**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	08/04/99	<0.5	**7.1**	<5.0	**780**	<5.0	**7.6**	<5.0	<5.0	**29**	<5.0	--
	12/29/99	<5.0	**7**	<5.0	**970**	<5.0	**8.0**	<5.0	<5.0	**36**	<5.0	--
	12/05/00	<0.5	**4.7**	**0.87**	**1,000**	<0.5	**5.0**	<0.5	**1.4**	**21**	**1.3**	--
	11/06/01	<5.0	**5.0**	<5.0	**680**	<5.0	<5.0	<5.0	<5.0	**20**	<5.0	--
	11/10/02	<0.5	**3.9**	<0.5	**810**	<0.5	**9.4**	<0.5	**1.1**	**39**	**2.9**	--
	11/09/03	<0.5	**4.0**	<0.5	**620**	<0.5	**6.9**	<0.5	**0.9**	**26**	<0.5	--
	10/25/04	<1.0	**2.9**	<1.0	**450**	<1.0	**9.4**	<1.0	<1.0	**2.3**	<1.0	--
	11/14/05	<2.5	**3.4**	<2.5	**470**	<2.5	**5.0**	<2.5	**5.0**	**22**	<2.5	--
	04/23/06	<0.5	**2.7**	<0.5	**370**	<1.0	**5.9**	<1.0	**3.5**	**20**	<10	<0.5
	07/15/06	<0.5	<1.0	<0.5	**47**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<2.5
	11/08/06	Not sampled due to the Presence of Substrate in the well										
	05/13/07	Not sampled due to the Presence of Substrate in the well										
	11/05/07	<0.5	<1.0	<0.5	**27**	**2.0**	<1.0	<1.0	<1.0	<1.0	<10	**90**
	11/18/08	<2.5	<5.0	<2.5	**15**	<5.0	<5.0	<5.0	<5.0	<5.0	<50	**70**
	12/03/09	<0.5	<1.0	<0.5	**22**	**2.3**	<1.0	<1.0	<1.0	**1.3**	<10	**64**
	12/28/10	<1.0	<2.0	<1.0	**11**	<2.0	<2.0	<2.0	<2.0	<2.0	<20	**33**
	12/08/11	**1.2**	<2.0	<1.0	**5.8**	<2.0	<2.0	<2.0	<2.0	<2.0	<20	**17**
CM-2D	03/08/95	**290**	<10	<10	**22**	<10	<10	**630**	<10	<10	<10	--
	05/12/98	<5.0	<5.0	<5.0	**69**	<5.0	<5.0	<5.0	<5.0	**5.5**	<5.0	--
	12/29/99	<5.0	<5.0	<5.0	**47**	<5.0	<5.0	<5.0	<5.0	**17**	<5.0	--
	12/05/00	<0.5	<0.5	<0.5	**42**	<0.5	**2.6**	<0.5	<0.5	**13**	<0.5	--
	11/06/01	<0.5	**0.55**	<0.5	**110**	<0.5	**5.7**	<0.5	<0.5	**23**	<0.5	--
	11/10/02	<0.5	<0.5	<0.5	**30**	**0.66**	**4.0**	<0.5	<0.5	**15**	<0.5	--
	11/10/03	<0.5	<0.5	<0.5	**64**	<0.5	**6.2**	<0.5	<0.5	**23**	<0.5	--
	10/24/04	<0.5	<0.5	<0.5	**19**	<0.5	**4.1**	<0.5	<0.5	**9.5**	<0.5	--
	11/13/05	<0.5	**0.61**	<0.5	**89**	<0.5	**3.3**	<0.5	<0.5	**12**	<0.5	--
	04/23/06	<0.5	<1.0	<0.5	**51**	<1.0	**2.6**	<1.0	<1.0	**7.9**	<10	**0.9**
	07/15/06	<0.5	<1.0	<0.5	**100**	<1.0	**3.6**	<1.0	<1.0	**14**	<10	**5.4**
	11/04/06	<0.5	<1.0	<0.5	**90**	<1.0	**2.5**	<1.0	<1.0	**11**	<10	**4.7**
	05/13/07	<0.5	<1.0	<0.5	**63**	<1.0	**2.8**	<1.0	<1.0	**9.1**	<10	**2.8**
	11/05/07	<0.5	<1.0	<0.5	**3.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/18/08	<0.5	<1.0	<0.5	**23**	<1.0	<1.0	<1.0	<1.0	**3.4**	<10	**2.9**
	12/01/09	**0.6**	<1.0	<0.5	**56**	**1.1**	**2.9**	**1.6**	<1.0	**12**	<10	**2.4**
	12/28/10	<0.5	<1.0	<0.5	**59**	**2.0**	**2.3**	<1.0	<1.0	**11**	<10	**8.8**
	12/08/11	<0.5	<1.0	<0.5	**71**	**2.8**	**1.8**	<1.0	<1.0	**6.9**	<10	**27**

Table C1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
CM-4D	03/08/95	<5.0	<5.0	<5.0	**1,400**	<5.0	**51**	<5.0	<5.0	**130**	<5.0	--
	11/12/98	<2.0	<2.0	<2.0	**220**	<2.0	**21**	<2.0	<2.0	**120**	<5.0	--
	12/05/00	<0.5	**8.1**	**5.1**	**1,300**	<0.5	**5.8**	<0.5	<0.5	**30**	<0.5	--
	11/06/01	<5.0	**6.7**	<5.0	**970**	<5.0	**8.0**	<5.0	<5.0	**45**	<5.0	--
	11/10/02	<0.5	**12**	**8.8**	**1,400**	<0.5	**6.4**	<0.5	<0.5	**75**	<0.5	--
	11/09/03	<0.5	**1.6**	**2.5**	**51**	<0.5	**1.9**	<0.5	<0.5	**12**	<0.5	--
	10/25/04	<0.5	<0.5	<0.5	**41**	<0.5	**3.5**	<0.5	<0.5	**8.4**	<0.5	--
	11/13/05	<0.5	**5.1**	**4.0**	**250**	<0.5	**9.5**	<0.5	<0.5	**70**	<0.5	--
	04/23/06	<0.5	**4.4**	**4.1**	**290**	<1.0	**7.7**	<1.0	<1.0	**56**	<10	<0.5
	07/15/06	<0.5	<1.0	**3.1**	**440**	<1.0	**8.3**	<1.0	<1.0	**59**	<10	<2.5
	11/04/06	<2.5	**5.1**	**3.9**	**440**	<5.0	**5.3**	<5.0	<5.0	**53**	<50	<2.5
	05/13/07	<2.5	<5.0	**3.3**	**420**	<5.0	**13**	<5.0	<5.0	**69**	<50	<2.5
	11/05/07	<2.5	**7.3**	**4.3**	**770**	<5.0	**11**	<5.0	<5.0	**81**	<50	<2.5
	11/18/08	<2.5	<5.0	<2.5	**450**	<5.0	**14**	<5.0	<5.0	**70**	<50	<2.5
	12/01/09	<2.5	<5.0	**3.3**	**440**	<5.0	**14**	<5.0	<5.0	**71**	<50	<2.5
	12/29/10	<1.0	**3.7**	**2.5**	**350**	**4.3**	**17**	<2.0	<2.0	**86**	<20	<1.0
	05/05/11	<1.0	**6.3**	**5.3**	**380**	<2.0	**6.7**	<2.0	<2.0	**63**	<20	<1.0
	06/16/11	<1.0	**3.2 J**	**2.7 J**	**170**	**27**	<2.0	<2.0	<2.0	**2.1 J**	<20	<1.0
	05/05/11	<1.0	**6.3**	**5.3**	**380**	<2.0	**6.7**	<2.0	<2.0	**63**	<20	<1.0
	06/16/11	<1.0	**3.2**	**2.7**	**170**	**27**	<2.0	<2.0	<2.0	**2.1**	<20	<1.0
	09/22/11	<10	<20	<10	**53**	**41**	<20	<20	<20	<20	<200	<10
	11/30/11	<0.5	<1.0	<0.5	**33**	**48**	<1.0	<1.0	<1.0	<1.0	<10	**6.6**
	03/27/12	<0.5	<1.0	**0.51**	<1.0	**1.9**	<1.0	**1.2**	<1.0	<1.0	<10	**3.6**
CM-7	03/07/95	<3.0	**9.4**	<3.0	**400**	**7.0**	<3.0	<3.0	<3.0	**9.0**	<3.0	--
	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
CM-7D	03/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/06/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**82**	<0.5	<0.5	<0.5	--
	09/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**3.8**	<0.5	<0.5	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.62**	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/13/97	<2.0	--	--	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/17/97	<2.0	<2.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/12/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	11/12/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/28/99	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	--
	05/11/00	**0.73**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.5**	<0.5	<0.5	<0.5	--
	12/06/00	<0.5	<0.5	<0.5	**2.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/26/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table C1

Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present

Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
CM-7D	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
(cont'd)	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/10/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/15/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/23/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	04/23/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/14/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/05/06	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	02/18/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/14/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/04/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/01/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/19/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/29/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/03/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/10/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/29/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/08/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-8D	03/08/95	<3.0	**14**	<3.0	**270**	<3.0	<3.0	<3.0	**5.4**	**45**	**54**	--
	06/05/95	<1.0	**6.9**	<1.0	**190**	<1.0	<1.0	**4.4**	**2.3**	**43**	**12**	--
	09/19/95	<0.5	**4.7**	<0.5	**93**	<0.5	**0.86**	<0.5	**1.7**	**41**	**8.4**	--
	12/04/95	<0.5	**5.6**	<0.5	**110**	<0.5	**0.69**	<0.5	**1.6**	**47**	**11**	--
	02/13/96	<10	**20**	<10	**440**	<10	<10	<10	<10	**64**	<25	--
	05/14/96	<10	**20**	<10	**460**	<10	<10	<10	<10	**63**	**49**	--
	08/13/96	<2.0	**4.8**	<2.0	**110**	<2.0	<2.0	<2.0	<2.0	**32**	**18**	--
	11/11/96	<2.0	**5.3**	<2.0	**100**	<2.0	<2.0	<2.0	<2.0	**31**	**17**	--
	05/12/97	<2.0	**3.8**	<2.0	**58**	<2.0	<2.0	<2.0	<2.0	**29**	**24**	--
	12/16/97	<2.0	**2.7**	<2.0	**46**	<2.0	<2.0	<2.0	<2.0	**23**	**30**	--
	05/12/98	<5.0	<5.0	<5.0	**55**	<5.0	<5.0	<5.0	<5.0	**18**	**19**	--
	11/11/98	<2.0	**3.9**	<2.0	**63**	<2.0	<2.0	<2.0	<2.0	**24**	**18**	--
	06/25/99	<5.0	**10**	<5.0	**200**	<5.0	<5.0	<5.0	<5.0	**87**	**69**	--
	10/19/99	<5.0	<5.0	<5.0	**60**	<5.0	<5.0	<5.0	<5.0	**24**	**17**	--
	12/28/99	<5.0	<5.0	<5.0	**46**	<5.0	<5.0	<5.0	<5.0	**23**	**14**	--
	05/11/00	<0.5	**5.7**	<5.0	**110**	<0.5	<5.0	<5.0	<5.0	**24**	**22**	--
	12/07/00	<0.5	**8.1**	**0.79**	**140**	<0.5	**0.85**	<0.5	**0.9**	**36**	**5.3**	--
	06/26/01	<0.5	**15**	<0.5	**230**	**1.3**	**2.6**	<0.5	**0.5**	**55**	**35**	--
	11/08/01	<0.5	**18**	**1.7**	**340**	**1.9**	**2.2**	<0.5	<0.5	**62**	**58**	--
	05/22/02	<0.5	**10**	**1.6**	**230**	**1.6**	<0.5	<0.5	<0.5	**27**	**11**	--

Table C1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
CM-8D	11/12/02	<2.5	**18**	<2.5	**510**	<2.5	<2.5	<2.5	<2.5	**62**	**56**	--
(cont'd)	06/16/03	<0.5	**10**	<0.5	**200**	<0.5	<0.5	<0.5	<0.5	**31**	**14**	--
	11/10/03	<1.0	**11**	<1.0	**220**	<1.0	<1.0	<1.0	<1.0	**34**	**6.3**	--
	06/12/04	<1.0	**6.7**	<1.0	**140**	**0.54**	<1.0	<1.0	<1.0	**27**	**6.5**	--
	10/21/04	<0.5	**9.4**	**0.95**	**200**	**1.1**	**2.7**	<0.5	<0.5	**24**	**9.3**	--
	06/29/05	<0.5	**11**	**1.5**	**170**	**1.2**	<0.5	<0.5	<0.5	**42**	**10**	--
	11/14/05	<0.5	**9.9**	**1.3**	**130**	**0.98**	**0.91**	<0.5	<0.5	**34**	**7.6**	--
	07/14/06	<0.5	**9.6**	**1.1**	**130**	**1.6**	**1.1**	<1.0	<1.0	**33**	<10	<0.5
	11/08/06	<0.5	**6.9**	**1.1**	**120**	**1.1**	<1.0	<1.0	<1.0	**26**	<10	<0.5
	12/28/06	<0.5	**7.8**	**1.2**	**110**	**1.1**	<1.0	<1.0	<1.0	**28**	<10	<0.5
	02/18/07	<0.5	**3.1**	<0.5	**43**	<1.0	**0.32J**	<1.0	<1.0	**12**	**2.4J**	<0.5
	05/14/07	<0.5	**2.6**	<0.5	**45**	<1.0	<1.0	<1.0	<1.0	**12**	<10	<0.5
	11/04/07	<0.5	**2.1**	<0.5	**25**	<1.0	<1.0	<1.0	<1.0	**8.1**	<10	<0.5
	07/02/08	<0.5	**1.5**	<0.5	**20**	<1.0	<1.0	<1.0	<1.0	**7.6**	<10	<0.5
	11/20/08	<0.5	**2.1**	<0.5	**43**	<1.0	<1.0	<1.0	<1.0	**8.0**	<10	<0.5
	05/27/09	<0.5	**1.8**	<0.5	**27**	<1.0	<1.0	<1.0	<1.0	**7.2**	<10	<0.5
	12/08/09	<0.5	**2.9**	<0.5	**55**	**1.2**	<1.0	<1.0	<1.0	**14**	<10	<0.5
	06/10/10	<0.5	**1.3**	<0.5	**23**	<1.0	<1.0	<1.0	<1.0	**5.7**	<10	<0.5
	12/28/10	<0.5	**2.0**	<0.5	**31**	<1.0	<1.0	<1.0	<1.0	**8.7**	<10	<0.5
	06/14/11	<0.5	**2.9**	**0.52 J**	**2.5 J**	<1.0	<1.0	<1.0	<1.0	**14**	<10	<0.5
	12/13/11	<0.5	<1.0 J	<0.5	**23**	<1.0	<1.0	<1.0	<1.0	**8.0**	<10	<0.5
CM-9D	03/07/95	<0.5	**2.8**	<0.5	**22**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/15/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/98	<2.0	<2.0	<2.0	**12**	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.8**	--
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.3**	--
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/21/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.4**	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.7**	--
	11/07/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/07/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/20/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/08/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/28/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/13/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-10	03/08/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**190**	--
	06/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.58**	<0.5	<0.5	**93**	--
	09/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**100**	--
	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**120**	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<20	<2.0	**39**	--
	05/14/96	<10	<10	<10	<25	<10	<10	<10	<10	<10	**110**	--

Table C1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
CM-10	08/12/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**88**	--
(cont'd)	11/11/96	<2.0	<2.0	<2.0	<5.0	<10	<2.0	<2.0	<2.0	<2.0	**120**	--
	05/13/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**93**	--
	12/15/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**100**	--
	05/12/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**120**	--
	12/04/98	<5.0	<2.0	<2.0	<5.0	<5.0	<2.0	<5.0	<5.0	<2.0	**110**	--
	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	08/04/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**93**	--
	10/19/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**74**	--
	12/27/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**82**	--
	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**80**	--
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**55**	--
	06/26/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**56**	--
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**55**	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**29**	--
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/16/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**56**	--
	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**47**	--
	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**40**	--
	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**40**	--
	07/14/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**27**	<0.5
	11/08/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**28**	<0.5
	11/21/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**32**	<0.5
CM-11	03/07/95	<0.5	<0.5	<0.5	**3.0**	<0.5	<0.5	<0.5	<0.5	**1.3**	<0.5	--
Well abandoned	12/17/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
CM-11A	08/11/98	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
	11/12/98	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<2.0	<2.0	<2.0	<0.5	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	01/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/11/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/21/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/06/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/21/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-12	03/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/06/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**9.3**	<0.5	<0.5	<5.0	--
	09/19/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	--
	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--

Table C1

Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present

Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
CM-12	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
(cont'd)	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/26/01	<0.5	<0.5	<0.5	<0.5	<0.5	**0.58**	<0.5	<0.5	<0.5	<0.5	--
	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/10/02	<0.5	<0.5	<0.5	<0.5	**7.2**	**4.0**	<0.5	<0.5	**27**	<0.5	--
	06/15/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/12/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/15/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/06/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/02/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/19/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-13	03/08/95	**6.0**	**7.6**	<3.0	**230**	<3.0	<0.5	<0.5	<0.5	**31**	<0.5	--
	12/17/97	<2.0	**3.2**	<2.0	**94**	<2.0	<2.0	<2.0	<2.0	**9.4**	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/06/00	<0.5	**2.0**	<0.5	**75**	**1.9**	<0.5	<0.5	<0.5	**4.8**	<0.5	--
	11/07/01	**0.69**	**6.4**	**1.0**	**310**	**1.2**	**1.2**	<0.5	<0.5	**14**	<0.5	--
	11/12/02	<1.0	**4.4**	<1.0	**310**	<1.0	<1.0	<1.0	<1.0	**8.1**	<1.0	--
	11/10/03	<0.5	**4.9**	<0.5	**240**	<0.5	**0.56**	<0.5	<0.5	**7.5**	<0.5	--
	10/23/04	<0.5	**5.0**	<0.5	**250**	**0.77**	**2.4**	<0.5	<0.5	**9.3**	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	**1.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	04/23/06	<0.5	**1.3**	<0.5	**82**	<1.0	<1.0	<1.0	<1.0	**4.1**	<10	<0.5
	07/16/06	<0.5	<1.0	<0.5	**30**	<1.0	<1.0	<1.0	<1.0	**1.1 J**	<10	**0.82**
	11/04/06	<0.5	<1.0	<0.5	**6.6**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	**0.93**
	02/18/07	<0.5	<1.0	<0.5	**0.3J**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/14/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/04/07	<0.5	<1.0	<0.5	**1.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	**4.2**
	11/18/08	<0.5	<1.0	<0.5	**1.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	**9.7**
	12/03/09	<0.5	<1.0	<0.5	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/17/10	<0.5	<1.0	<0.5	**10**	**1.3**	<1.0	<1.0	<1.0	**1.0**	<10	**19**
	12/08/11	<0.5	<1.0	<0.5	**3.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	**12**
CM-14	06/06/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	09/19/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--

Table C1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
CM-14	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
(cont'd)	11/12/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/29/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/05/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/24/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/06/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/06/07	<0.5	<1.0	<0.5	**2.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/22/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/01/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	**1.3**	<1.0	<1.0	<10	<0.5
	12/15/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/07/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-15	03/08/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/06/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**34**	<0.5	<0.5	<0.5	--
	09/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/15/97	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/27/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/22/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-16	03/08/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/13/97	<2.0	<2.0	<2.0	<0.5	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/17/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/12/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/12/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/29/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/05/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--

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Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
CM-16	06/26/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
(cont'd)	11/06/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/10/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/15/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/09/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/13/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/25/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/14/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	--
	11/06/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/15/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/05/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/01/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/18/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/29/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/08/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/10/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/29/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/05/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/16/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	09/22/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/30/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	03/27/12	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-17	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	11/21/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-18	03/08/95	<0.5	<0.5	<0.5	**2.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**59**	--
	11/12/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	**12**	--
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**11**	--
	11/07/01	<0.5	<0.5	<0.5	**1.6**	<0.5	<0.5	<0.5	<0.5	<0.5	**2.5**	--
	11/10/02	<0.5	<0.5	<0.5	**4.4**	**1.2**	**0.91**	<0.5	<0.5	**4.5**	**5.2**	--
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**10**	--
	10/21/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.3**	--
	11/16/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**6.1**	--
	11/07/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/06/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5

Table C1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
CM-18	11/22/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
(cont'd)	12/08/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/28/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/13/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
CM-19	03/07/95	<0.5	--	<0.5	**6.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/06/95	<0.5	<0.5	<0.5	**7.6**	<0.5	<0.5	**5.5**	<0.5	<0.5	<0.5	--
	09/19/95	<0.5	--	<0.5	**2.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	**1.4**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/12/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/29/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/05/00	<0.5	<0.5	<0.5	**5.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/08/01	<0.5	<0.5	<0.5	**5.0**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/09/03	<0.5	<0.5	<0.5	**4.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/24/04	<0.5	<0.5	<0.5	**3.0**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	**6.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/06/06	<0.5	<1.0	<0.5	**7.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/06/07	<0.5	<1.0	<0.5	**8.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/22/08	<0.5	<1.0	<0.5	**7.7**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/01/09	<0.5	<1.0	<0.5	**14**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/15/10	<0.5	<1.0	<0.5	**13**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/07/11	<0.5	<1.0	<0.5	**2.8**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-15	03/08/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/06/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.79**	<0.5	<0.5	<0.5	--
	09/19/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	**14**	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/13/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/17/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	**0.73**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.9**	<0.5	<0.5	<0.5	--
	12/06/00	<0.5	<0.5	<0.5	**4.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/26/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.95**	<0.5	<0.5	<0.5	--
	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table C1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-15	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
(cont'd)	06/15/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.5**	<0.5	<0.5	<0.5	--
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/13/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/23/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.5**	<0.5	<0.5	<0.5	--
	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.70**	<0.5	<0.5	<0.5	--
	07/14/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/06/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/15/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/06/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/02/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/18/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/29/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/03/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/10/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/17/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/08/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-16	03/08/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/06/95	<0.5	<0.5	<0.5	**1.5**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	09/19/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/13/97	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/17/97	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/12/98	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/06/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/10/02	<0.5	<0.5	<0.5	**5.9**	**6.9**	**8.3**	<0.5	<0.5	**280**	<0.5	--
	06/15/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/09/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/13/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/25/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/14/06	<0.5	<1.0	<0.5	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/15/07	<0.5	<1.0	<0.5	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/05/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/01/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5

Table C1
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Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-16	11/18/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
(cont'd)	05/27/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/01/09	**0.74**	<1.0	<0.5	<1.0	<1.0	<1.0	**2.0**	<1.0	<1.0	<10	<0.5
	06/10/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/29/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/08/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-17	03/07/95	<0.5	<0.5	<0.5	**48**	<0.5	**2.4**	<0.5	**13**	**4.4**	**0.7**	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/12/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/29/99	<5.0	<5.0	<5.0	**12**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/05/00	<0.5	<0.5	<0.5	**7.7**	<0.5	**0.71**	<0.5	<0.5	**1.1**	<0.5	--
	11/08/01	<0.5	<0.5	<0.5	**13**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	**11**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/09/03	<0.5	<0.5	<0.5	**5.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/25/04	<0.5	<0.5	<0.5	**2.6**	<0.5	**2.4**	<0.5	<0.5	**0.59**	<0.5	--
	11/13/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	04/23/06	<0.5	<1.0	<0.5	**4.6**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/17/06	<0.5	<1.0	<0.5	**4.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/05/06	<0.5	<1.0	<0.5	**5.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/13/07	<0.5	<1.0	<0.5	**2.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/06/07	<0.5	<1.0	<0.5	**4.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/22/08	<0.5	<1.0	<0.5	**1.6**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/01/09	**0.77**	<1.0	<0.5	**2.7**	<1.0	<1.0	**1.9**	<1.0	<1.0	<10	<0.5
	12/15/10	<0.5	<1.0	<0.5	**2.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/07/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19S	03/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**6.4**	<0.5	<0.5	<0.5	--
	09/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/03/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/12/98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/27/99	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table C1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-19S	06/26/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
(cont'd)	11/08/01	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/16/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/13/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/23/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/16/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/15/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/08/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/15/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/07/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/01/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/20/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/26/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/04/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/10/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/23/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/15/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-19D	03/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**84**	<0.5	<0.5	<0.5	--
	09/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/03/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/27/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/16/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/13/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/23/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table C1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-19D	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
(cont'd)	11/16/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/15/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/08/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/15/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/07/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/01/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/20/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/26/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/04/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/10/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/23/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/15/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-20S	03/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	09/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/03/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/13/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/12/98	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/10/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	06/25/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/27/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	05/11/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/26/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	05/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/16/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/13/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/23/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/29/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/16/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/15/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/08/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/15/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5

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Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-20S	11/07/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
(cont'd)	07/01/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/20/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/29/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/10/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/04/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/23/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	06/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-20D	11/20/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-21S	03/07/95	<0.5	<0.5	<0.5	**0.6**	<0.5	<0.5	<0.5	<0.5	**1.0**	<0.5	--
	09/18/95	<0.5	<0.5	<0.5	**0.87**	<0.5	<0.5	<0.5	<0.5	**1.1**	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/19/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-21D	11/19/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-22S	03/07/95	<0.5	<0.5	<0.5	**1.7**	<0.5	**1.1**	<0.5	<0.5	<0.5	<0.5	--
	11/21/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-22D	11/21/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-23	03/08/95	<5.0	**61**	<5.0	**2,000**	<5.0	**14**	**5.4**	**99**	**68**	<5.0	--
	05/12/98	<5.0	<5.0	<5.0	**7.8**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/29/99	<5.0	<5.0	<5.0	**85**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/06/00	**0.64**	**1.8**	**0.64**	**63**	<0.5	<0.5	**0.63**	<0.5	**3.9**	<0.5	--
	11/08/01	<0.5	**1.2**	<0.5	**73**	<0.5	**0.97**	<0.5	<0.5	**3.8**	<0.5	--
	11/10/02	**0.74**	**0.97**	<0.5	**82**	**1.9**	<0.5	<0.5	<0.5	**2.1**	<0.5	--
	11/10/03	<0.5	**1.1**	<0.5	**60**	<0.5	**0.53**	<0.5	<0.5	**3.1**	<0.5	--
	10/23/04	<0.5	**1.2**	<0.5	**33**	<0.5	<0.5	<0.5	<0.5	**2.1**	<0.5	--
	11/13/05	**0.51**	**1.4**	**0.7**	**120**	<0.5	<0.5	<0.5	<0.5	**2.5**	<0.5	--
	04/23/06	<0.5	**1.2**	<0.5	**62**	<1.0	<1.0	<1.0	<1.0	**3.0**	<10	**9.5**
	07/15/06	<0.5	**1.6**	**0.63**	**97**	<1.0	<1.0	<1.0	<1.0	**2.8**	<10	**21**
	11/04/06	<0.5	**1.6**	**0.87**	**93**	<1.0	<1.0	<1.0	<1.0	**1.9**	<10	**31**
	05/13/07	<0.5	**1.9**	**0.76**	**2.3**	**2.2**	<1.0	<1.0	<1.0	<1.0	<10	**83**
	11/05/07	<0.5	**2.6**	**0.94**	**3.6**	**2.3**	<1.0	<1.0	<1.0	<1.0	<10	**130**
	11/18/08	<0.5	**1.5**	<0.5	<1.0	**1.1**	<1.0	<1.0	<1.0	<1.0	<10	**100**
	12/01/09	**1.0**	**1.1**	<0.5	<1.0	<1.0	<1.0	**1.7**	<1.0	<1.0	<10	**75**
	12/17/10	<0.5	**1.0**	<0.5	**1.1**	**1.5**	<1.0	<1.0	<1.0	<1.0	<10	**90**
	12/08/11	<0.5	**1.6**	**0.51**	**8.5**	**2.3**	<1.0	<1.0	<1.0	<1.0	<10	**76**

Table C1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-24	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<5.0	<2.0	<5.0	--
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/21/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/16/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/28/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	02/18/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	05/14/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/04/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	07/02/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/21/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/08/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/28/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/13/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-25	03/08/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/15/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<5.0	<2.0	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/21/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/16/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/06/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/22/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/04/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/28/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-26	03/07/95	<0.5	<0.5	<0.5	**0.8**	<0.5	<0.5	<0.5	**0.6**	<0.5	<0.5	--
	06/07/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**24**	<0.5	<0.5	<0.5	--
	09/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--

Table C1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-26	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
(cont'd)	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/02	<0.5	<0.5	<0.5	**0.64**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/16/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/07/07	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/22/08	**0.66**	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/04/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/28/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-27	03/07/95	<0.5	<0.5	<0.5	**1.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/06/95	<0.5	<0.5	<0.5	**1.8**	<0.5	<0.5	**2.8**	<0.5	<0.5	<0.5	--
	09/19/95	<0.5	<0.5	<0.5	**0.81**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	**0.61**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/16/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/07/00	<0.5	<0.5	<0.5	**0.54**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/08/01	<0.5	<0.5	<0.5	**1.5**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/02	<0.5	<0.5	<0.5	**1.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/06	<0.5	<1.0	<0.5	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/07/07	<0.5	<1.0	<0.5	**1.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/22/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/04/09	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/28/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	12/14/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-28	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/07/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/11/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/25/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/19/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5

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Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-29	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/21/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.66**	--
	11/20/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-30	03/07/95	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/05/95	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	**21**	<0.5	<0.5	<0.5	--
	09/19/95	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	**3.8**	<0.5	<0.5	<0.5	--
	12/04/95	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	02/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	05/14/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	08/13/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/96	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/15/97	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/27/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/13/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/07/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/21/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
MW-31	08/11/98	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**160**	--
	11/11/98	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	--
	12/04/98	<5.0	<2.0	<2.0	<5.0	<2.0	<2.0	<5.0	<5.0	<2.0	**190**	--
	08/04/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
	10/19/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**160**	--
	12/28/99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**130**	--
	12/06/00	<0.5	<0.5	<0.5	<0.5	<0.5	**0.53**	<0.5	<0.5	<0.5	**130**	--
	11/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**110**	--
	11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**120**	--
	11/10/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**120**	--
	10/21/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**92**	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**81**	--
	11/06/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**100**	<0.5
	11/19/08	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**87**	<0.5

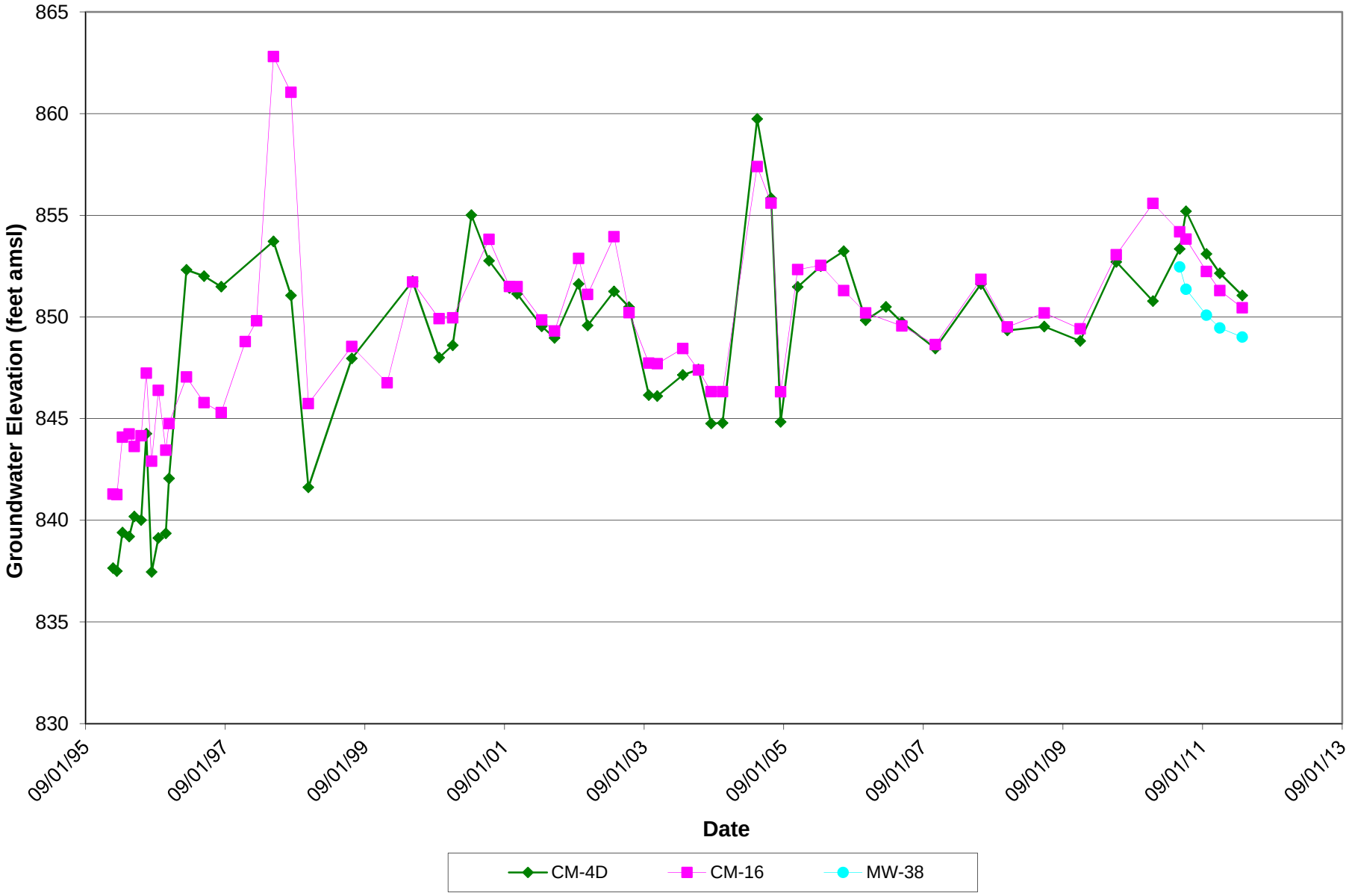
Table C1
Historical Volatile Organic Compound Concentrations in Monitoring Wells - 1995-Present
Former Raytheon Facility, 8433 Fallbrook Avenue, Canoga Park, CA

Well ID	Date Sampled	Benzene	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	Toluene	1,1,1-TCA	TCE	TCFM	VC
MW-36	09/30/03	<0.5	<0.5	<0.5	**3.1**	<0.5	<0.5	<0.5	<0.5	**2.7**	<0.5	--
	11/14/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/06/06	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.5
	11/05/07	<5.0	<10	<5.0	<10	<10	<10	<10	<10	<10	<100	<5.0
	11/18/08	<5.0	<10	<5.0	<10	<10	<10	<10	<10	<10	<100	<5.0
	12/01/09	<5.0	<10	<5.0	<10	<10	<10	<10	<10	<10	<100	<5.0
	12/29/10	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	**0.97**
	12/08/11	<0.5	<1.0	<0.5	<1.0	<1.0	<1.0	**5.7**	<1.0	<1.0	<10	**0.84**
MW-37	12/28/06	<0.5	<1.0	<0.5	**110**	<1.0	<1.0	<1.0	<1.0	**11**	<10	<0.5
	02/18/07	<0.5	**0.85 J**	<0.5	**66**	<1.0	<1.0	<1.0	<1.0	**7.8**	**2.3 J**	<0.5
	05/14/07	<0.5	<1.0	<0.5	**82**	<1.0	<1.0	<1.0	<1.0	**9.3**	<10	<0.5
	11/04/07	<0.5	**1.0**	<0.5	**53**	<1.0	<1.0	<1.0	<1.0	**7.0**	<10	<0.5
	07/02/08	<0.5	<1.0	<0.5	**59**	<1.0	<1.0	<1.0	<1.0	**7.0**	<10	<0.5
	11/20/08	<0.5	**1.1**	<0.5	**94**	<1.0	<1.0	<1.0	<1.0	**8.1**	<10	<0.5
	05/27/09	<0.5	**1.1**	<0.5	**26**	<1.0	<1.0	<1.0	<1.0	**7.2**	<10	<0.5
	12/08/09	<0.5	<1.0	<0.5	**63**	<1.0	<1.0	<1.0	<1.0	**8.4**	<10	<0.5
	06/10/10	<0.5	<1.0	<0.5	**35**	<1.0	<1.0	<1.0	<1.0	**4.4**	<10	<0.5
	12/08/09	<0.5	<1.0	<0.5	**63**	<1.0	<1.0	<1.0	<1.0	**8.4**	<10	<0.5
	12/28/10	<0.5	<1.0	<0.5	**42**	<1.0	<1.0	<1.0	<1.0	**6.8**	<10	<0.5
	06/14/11	<0.5	<1.0	<0.5	**29**	<1.0	<1.0	<1.0	<1.0	**4.4**	<10	<0.5
	12/13/11	<0.5	<1.0	<0.5	**23**	<1.0	<1.0	<1.0	<1.0	**3.4**	<10	<0.5
MW-38	05/05/11	<0.5	<1.0	<0.5	<1.0	<1.0	**3.5**	<1.0	<1.0	**2.0**	<10	<0.5
	06/16/11	<0.5	<1.0	<0.5	<1.0	<1.0	**2.4**	<1.0	<1.0	**<1.0**	<10	<0.5
	09/22/11	<0.5	<1.0	<0.5	<1.0	<1.0	**3.0**	<1.0	<1.0	**1.5**	<10	<0.5
	11/30/11	<0.5	<1.0	<0.5	<1.0	<1.0	**2.3**	<1.0	<1.0	**<1.0**	<10	<0.5
	03/27/12	<0.5	<1.0	<0.5	<1.0	<1.0	**3.1**	<1.0	<1.0	<1.0	<10	<0.5

Notes:

1) All concentrations in µg/L.
2) All analyses done by EPA Method 8260, 8260B or 8021B.
3) '-- = not analyzed for parameter
4) Only wells with detectable concentrations of constituents of concern since March 1995 are shown.
5) 1,1-DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; 1,1-DCE = 1,1-Dichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; PCE = Tetrachloroethene; 1,1,1-TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; TCFM = Trichlorofluoromethane; VC = Vinyl Ch
6) "J" - result qualified as estimated due to quality control issues.

Graph C1
Historical Hydrograph for Wells – Former Bldg 269 Area
Former Canoga Park Facility, 8433 Fallbrook Avenue, Canoga Park, California



Oneida Total Integrated Enterprises, LLC

Appendix D

Raytheon Company
Certification Statement Letter

Raytheon Company
1151 East Hermans Road
TU/B845
Tucson, AZ 85706
520.794.9026

May 14, 2012

Ann Chang, Ph.D
California Regional Water Quality Control Board
Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, CA 90013

RE: Enhanced *In Situ* Bioremediation Progress Report, First Quarter 2012
Raytheon Company, Former Canoga Park Facility, 8433 Fallbrook Avenue
Compliance File No. CI-8947

Dear Dr. Chang:

This letter provides the certification statement for the referenced report, as required by the Waste Discharge Requirements.

I declare under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.

Sincerely,

RAYTHEON COMPANY

Daniel S. Samorano
Authorized Representative

Executed on the 14th day of May 2012
cc: File



PROPERTY CONDITION ASSESSMENT
OF

CORPORATE POINTE AT WEST HILLS
8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 AND 8531 FALLBROOK AVENUE
LOS ANGELES, CALIFORNIA 91304

ATC PROJECT NO. 70.75068.8184

SEPTEMBER 9, 2008

Prepared by:

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Prepared For:

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TABLE OF CONTENTS

Statement of Results **1**
1.0 Executive Summary **2**
1.1 Property Description 2
1.2 Project Summary Table 5
2.0 Introduction **6**
2.1 Scope of Work 6
2.2 Assessment Procedures 6
2.2.1 Visual Survey 6
2.2.2 Interviews 6
2.2.3 Document Review 7
3.0 System Descriptions, Observations and Recommendations **8**
3.1 Current Property Improvements 8
3.2 General Condition and Remaining Useful Life of the Property 13
3.3 Site Conditions 13
3.3.1 Topography 13
3.3.2 Storm Water Drainage 14
3.3.3 Site Access and Egress 14
3.3.4 Paving, Curbing and Parking 14
3.3.5 Loading Areas, Docks and Flatwork 15
3.3.6 Landscaping and Appurtenances 16
3.4 Site Amenities 17
3.5 Utilities 17
3.6 Structural Frame and Building Envelope 18
3.6.1 Foundation 18
3.6.2 Building Frame 18
3.6.3 Carports and Garages 20
3.6.4 Exterior Finishes 20
3.6.5 Stairs, Steps and Balconies 21
3.6.6 Exterior Doors 21
3.6.7 Exterior Windows 22
3.6.8 Roofing Systems 22
3.7 Plumbing Systems 24
3.7.1 Supply and Waste Piping 24
3.7.2 Domestic Hot Water Production 24
3.7.3 Fixtures 25
3.8 HVAC Systems 25
3.8.1 Equipment 25
3.8.2 Distribution Systems 27
3.8.3 Control Systems 27
3.9 Electrical Systems 27
3.9.1 Service and Metering 27
3.9.2 Distribution 28
3.10 Conveying Systems 28
3.10.1 Elevators 29

TABLE OF CONTENTS

3.10.2 Escalators..... 31
3.10.3 Moving Walkways and Ramps..... 31
3.11 Life Safety/Fire Protection..... 31
3.11.1 Sprinklers and Suppression Systems..... 31
3.11.2 Alarm Systems..... 32
3.11.3 Security and Other Systems..... 32
3.12 Interior Elements..... 32
3.12.1 Common Areas..... 32
3.12.2 Tenant Areas..... 33
3.12.3 Dwelling Units or Guest Rooms..... 33
3.12.4 Bathrooms..... 33
3.12.5 Kitchens..... 33
3.12.6 Laundry Areas..... 33
4.0 Additional Considerations..... 35
4.1 Code Compliance..... 35
4.2 Accessibility to Disabled Persons..... 35
4.3 Microbial Visual Survey..... 36
4.4 Furnishings, Fixtures and Equipment..... 36
4.5 Seismic Assessment..... 36
4.6 FEMA Wind Zone..... 36
5.0 Recommendations and Preliminary Opinions of Cost..... 37
6.0 Limitations and Qualifications..... 39
Appendices
Appendix A: Immediate Needs and Physical Needs Over the Term Table
Appendix B: Property Location and Site Plans
Appendix C: Supporting Documentation
Appendix D: Property Photographs
Appendix E: Professional Resumes
Appendix F: Condition Evaluation Definitions and Common Abbreviations
Appendix G: Work Item Recommendation Definitions
Appendix H: Deviations from the Guide

Statement of Results

The PCA was conducted by ATC in response to the authorization by Mr. Kevin Wenzel of Metropolitan Life Insurance Company, in general accordance with the signed ATC Proposal dated August 19, 2008, between the Client and ATC.

ATC Associates Inc. (ATC) has performed a Property Condition Assessment (PCA) of the property located at 8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue in Los Angeles, California. The scope of the PCA was generally consistent with the ASTM E2018-01 "Standard Guide for Property Condition Assessments: Baseline Property Condition Assessment Process", MetLife Scope of Work for Property Condition Assessment, and ATC Proposal dated August 19, 2008.

This report is for the use and benefit of, and may be relied upon by Metropolitan Life Insurance Company as lender and New Tower Trust Company Multi Employer Property Trust as owner and any of their respective affiliates; and third parties authorized in writing by Metropolitan Life Insurance Company and ATC, including their respective successors and assigns. The scope-of-services performed in execution of this investigation may not be appropriate to satisfy the needs of other users, and any use or re-use of this document or its findings, conclusions, or recommendations is at the risk of the user. ATC is not responsible for conclusions, opinions, or recommendations made by others based on this information.

The Report speaks only as of its date in the absence of a specific written update of the Report signed and delivered by ATC Associates Inc.

The report was completed and reviewed by the undersigned team members.

Respectfully submitted on September 9, 2008.

ATC ASSOCIATES INC.

Field Observer:
Jose J. Reza
Senior Staff Scientist

Report Reviewer:
Cherrie Carney
National Client Manager
On Behalf Of William Horner - Branch Manager

National Acct. Manager:
Cherrie Carney
National Client Manager
On Behalf Of Scott Nathan - Director, Client Management Services

1.0 Executive Summary

1.1 Property Description

ATC Associates Inc. (ATC) performed a Property Condition Assessment (PCA) of the Property located at 8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue in Los Angeles, California, hereinafter known as the Property.
The Property is an office facility comprised of 11 buildings. The buildings at the Property are named/designated as follows: 8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521, 8531 and the 22801 Buildings, by their numerical address. However, based on our scope of services and the instructions of the designated site contact, only 10 of the 11 buildings are included in this report. The 10 buildings included in ATC's scope of work are identified as the 8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Buildings. The remaining building at the Property, 22801 Building and associated parking areas at the south side of the Property, were not included in ATC's scope of work.

The Property is situated on eight irregular-shaped land parcels and is considered to be of generally good quality construction. The Property is located to the northwest of the northwest corner of Fallbrook Avenue and Roscoe Boulevard. The street address of the Corporate Pointe at West Hills is 8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue.

The three story 8401 Building is generally "T"-shaped. The 8401 Building contains one commercial office/lab tenant (Unilab Corporation) and a wireless provider (Pacific Bell Wireless, LLC) on the building roof. The building was reportedly originally constructed in 1959 with renovations in 1999 and 2005. Detailed information regarding the renovations was not provided but appears to be similar to other buildings and includes exterior renovations and possible seismic strengthening in 1999 and tenant improvement and roof replacement in 2005. The ground floor of the building is partially below grade at the west side of the building due to the topography of the site. Additionally, there is a service yard with offices, storage areas and a loading dock to the southeast of the 8401 Building that was reportedly constructed by the current tenant in 2005.

The one story 8403 Building is generally rectangular-shaped. The 8403 Building contains one lab tenant (Unilab Corporation). The building was reportedly originally constructed in 1984 with renovations in 1999 and 2005. Detailed information regarding the renovations was not provided but appears to consist of exterior renovations in 1999.

The two story 8407 Building is generally rectangular-shaped. The 8407 Building contains two commercial office tenants (Blue Cross of California and Centex Title & Ancillary Services) and one vacant space on the second floor totalling approximately 8,246 square feet. The building was reportedly originally constructed in 1986, with renovations in 1999. Detailed information regarding the renovation was not provided but appears to consist of exterior renovations. The ground floor of the building is partially below grade at the east side of the building due to the topography of the site.

The one story 8411 Building is generally rectangular-shaped. The 8411 Building contains one food service tenant (Sodexo Marriott Services). The building was originally constructed in 1959, with renovations including reconstruction of the building and surrounding areas currently being performed and scheduled for completion by the end of 2008, although original date of substantial completion was scheduled no later than April 18, 2008 and final completion no later than May 18, 2008 according to the signed contract. Access to the building and surrounding areas was not available during ATC's site visit as the construction company was no longer present. Due to the current construction at the 8411 Building, a temporary leased cafe structure and bungalow is located between the 8415 and 8501 Buildings that is being utilized by the tenant.

The two story 8413 Building with full basement is generally rectangular-shaped and is contiguous to the east of the 8415 Building. The 8413 Building is currently vacant. The building features an auditorium. The building was reportedly originally constructed in 1986, with renovations in 1999. Detailed information regarding the renovation was not provided but appears to consist of exterior renovations.

The one story 8415 Building is generally square-shaped and is contiguousto the west of the 8413 Building. The 8415 Building contains the Property central plant. The building was reportedly originally constructed in 1959.

The three story 8501 Building is generally "T"-shaped. The 8501 Building contains two commercial office tenants (Countrywide Home Loans, Inc. and Software Dynamics, Inc.), one vacant space totalling approximately 17,177 square feet on the ground floor and a wireless provider (New Cingular Wireless PCS) on the building roof. The building was reportedly originally constructed in 1959, with renovations in 1998/1999. According to available information, the renovations included reconstruction of the exterior walls including installing metal studs set outside the exterior walls and finished with plaster and set in windows, replacement of the building roof, and seismic strengthening the building by adding reinforcement and several inches of pneumatically placed concrete against one wall face and new boundary elements at the ends of the existing shear walls. The ground floor of the building is partially below grade at the west and northwest sides of the building due to the topography of the site.

The four story 8511 Building is irregular-shaped. The 8511 Building contains one primary tenant (Sterling Software) who has sub-leased portions of the building. The building was originally constructed in 2000. The building has a large balcony with canopy at the north side of the fourth floor, two small balconies on the third and fourth floors at the south side of the building, auditorium and employee cafe on the ground floor.

The three story 8521 Building is generally "T"-shaped. The 8521 Building contains two commercial office tenants (Countrywide Home Loans, Inc. and The Boeing Company) and three vacant spaces totalling approximately 16,906 square feet on the ground floor. The building was reportedly originally constructed in 1959, with renovations in 1998/1999. According to available information, the renovations included reconstruction of the exterior walls including installing metal studs set outside the exterior walls and finished with plaster and set in windows, replacement of the building roof, and seismic strengthening the building by adding reinforcement and several inches of pneumatically placed concrete against one wall face and new boundary elements at the ends of the existing shear walls. The ground floor of the building is partially below grade at the east side of the building due to the topography of the site.

The two story 8531 Building is generally rectangular-shaped. The 8531 Building contains one research and development (R&D) tenant (The Boeing Company). The building was reportedly originally constructed in 1979, with renovations in 1998/1999. According to available information, the renovations included the building exteriors, replacement of the building roof, and seismic strengthening the building by adding reinforcement and several inches of pneumatically placed concrete against one wall face and new boundary elements at the ends of the existing shear walls. The ground floor of the building is partially below grade at the east side of the building due to the topography of the site.

Parking for the Property is provided by asphalt pavement at grade and by a two-level parking garage. The balance of the Property consists primarily of paved parking areas, service/drive lanes, a guard shack at the east main entrance drive, pedestrian walkways, landscaping, water feature with flowing creeks and small lake and surrounding seating areas and a service yard adjacent to the 8401 Building for Unilab Corporation.

The site contact indicated that the following work was performed during the last five years: Waterproofed the 8401 and 8501 Buildings in 2005 ($325,000 for the 8501 Building); renovated the central plant including replacement of two of the central plant chillers, boilers, piping distribution and related equipment in 2004/2005; replaced the 8401 Building roof in 2005; installed oil coolers to the elevators in the 8511 Building in 2006 ($22,000); replaced the central plant boilers at the end of 2007 due to issues with the boilers installed in 2005; miscellaneous parking enhancements in 2006/2007; seal coated and striped the parking areas at the 8511, 8401 and 8403 Buildings in 2007; asphalt overlay at the central parking area at the east side of the 8407 Building in 2007; asphalt overlay of the parking areas at the 8531 Building in 2008; constructed the two-level parking garage at the east side of the Property in 2006/2007; utility submetering installation in 2006/2007 ($425,000); replaced the lower roof and repaired and installed a polyurethane foam coating at the upper roof of the 8415 Building in 2008 ($110,000); added two concrete pads, furniture and landscape to pond area in 2007/2008 ($95,000); renovated the boundary wall at the west side of the Property in 2007/2008 ($125,000); renovation of the 8411 Building in 2008 (not to exceed $5,994,024.00 according to signed contract but reportedly is totalling approximately $11,000,000) and current exterior sitework around the 8411 Building ($1,621,686). Additionally, Ms. Life reported that renovations to the 8413

Building including exterior facades, relocation of the south exit stairway to the north side, the addition of an entry on the south side, renovation of the north main entry, adding a fitness center at the basement and renovating the auditorium is scheduled to be performed in 2009. The site contact also reported that no fires, floods, storms, or other major incidents have damaged the Property.

Based on ATC's document reviews, interviews, and field observations, it is ATC's opinion that the subject Property has been well maintained and is in overall good condition. The average condition of the construction systems reviewed and recommendations for their repair is summarized in the Property Summary Table following section 1.1 of this report. The table presents a summary of the condition of site and building components and equipment observed, and costs associated with Immediate Needs and Physical Needs Over the Term. These conditions and recommendations are explained in more detail in Sections 3.3 through 4.0 of this report. A detailed discussion of opinions of cost, Immediate Needs and anticipated Physical Needs Over the Term is presented in Section 5.0, with tabulated opinions of cost presented in Appendix A.

It is ATC's professional opinion that the Estimated Useful Life (EUL) of the Property is approximately 50 years and the Effective Age (EA) of the Property is approximately 15 years. Therefore the Remaining Useful Life (RUL) of the Property is approximately 35 years.

Based on our field observations and using the damage prediction method developed by Thiel and Zsutty, in addition to ASTM E2026-07, and ground fault, seismicity and acceleration data from EQFAULT, EQSEARCH and FRISKSP software, the Scenario Expected Loss (SEL) for Corporate Pointe at West Hills in the Los Angeles, California ranges from 11 to 17 percent (for DBE 475-year event) and from 15 to 23 percent (for MCE 2,375-year event) and the Scenario Upper Loss (SUL) ranges from 15 to 20 percent (for DBE 475-year event) and from 20 to 27 percent (for MCE 2,375-year event) of the replacement cost of the buildings.

1.2 Project Summary Table

Corporate Pointe At West Hills
ASSET NO. 166
8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511,
8521 and 8531 Fallbrook Avenue
Los Angeles, California 91304
Assessment Date: August 28, 2008

Property Type: Office
Year(s) Built: 1959, 1984, 1959/2008, 2000, 1974
Gross Site Area: 60.25 Acres
Gross Floor Area (SF): 902,646

Construction System	Condition			Recommendations		
	Good	Fair	Poor	Immediate	Short Term	Over Term Years 1-7
3.3 Site Conditions	**X**	**X**		$200		$470,480
3.4 Site Amenities		**NA**				
3.5 Utilities	**X**					
3.6 Structural Frame and Building Envelope	**X**	**X**		$9,250		$409,010
3.7 Plumbing Systems	**X**					$7,600
3.8 HVAC Systems	**X**					$1,410,000
3.9 Electrical Systems	**X**					
3.10 Conveying Systems	**X**	**X**				$347,000
3.11 Life Safety/Fire Protection	**X**					
3.12 Interior Elements	**X**					$120,000
4.1 Code Compliance	**X**					
4.2 Accessibility to Disabled Persons	**X**	**X**		$4,550		
4.3 Microbial Visual Survey		**NA**				
4.4 Furnishings, Fixtures and Equipment		**NA**				
4.5 Seismic Assessment	**X**					
			Totals	**$14,000**	**$0**	**$2,764,090**

Repairs and Reserve Summary	**Today's Dollars**	**$/SF**	**w/2.50% Inflation**
Immediate Needs	$14,000	$0.02	N/A
Short Term Needs	$0	$0.00	N/A
Years 1-7 Replacement Reserves	$2,764,090	$3.06	$2,964,061

	Uninflated $/SF/Year	Inflated $/SF/Year
Years 1-7	0.44	0.47

2.0 Introduction

2.1 Scope of Work

ATC has conducted a building and site observation survey at the Property. See the Statement of Results and Appendix H for additional Scope of Services considerations.

ATC visited the Property and observed its improvements, reviewed available construction and maintenance documents, and interviewed persons familiar with the Property. The purpose of these observations was to assess the Property's general physical condition and maintenance status, and to recommend repair and maintenance items that, in ATC's opinion, are significant for continuation of the Property's current operation and/or for it to be restored to a good condition consistent with comparable facilities of similar age.

ATC's scope of work included a "Tier I" assessment of ADA accessibility in general accordance with ASTM E2018-01 "Standard Guide for Property Condition Assessments: Baseline Property Condition Assessment Process". The scope included a limited visual review of the following components: path-of-travel, parking, ADA compliant guestrooms (hotel/hospitality facilities only), public toilet rooms, and elevators. No measurements were conducted. The goal of ATC's review of accessibility to disabled persons is to identify accessibility problems and to provide a guide for making the facility more usable for people with disabilities. Significant items of non-conformance with ADA guidelines observed by ATC are noted without regard as to whether or not they are, by ADA definition, "readily achievable". The decision as to which actions are to be undertaken as "readily achievable" is to be determined by building ownership in consultation with its accountants, attorneys and design/construction professionals.

The evaluation period considered for the Physical Needs Over the Term Spreadsheet is seven years.

2.2 Assessment Procedures

2.2.1 Visual Survey

During the site visit, ATC performed a visual survey of the Property to make a field assessment as described above. The weather was sunny and warm (90°) on the day of the site visit. ATC visually observed the Property systems including site, structure, building envelope, roofing, mechanical, electrical, plumbing, fire suppression and life safety. In addition, ATC reviewed accessible interior areas at the Property including vacant units, tenant spaces, mechanical rooms, storage spaces and office areas. The areas that were locked and not accessible during ATC's site visit included as the construction company was no longer on site included the 8411 Building of which is currently under renovations (reconstruction).

2.2.2 Interviews

During the site visit, ATC interviewed the designated site contact and Mr. William Blackwell, Certified Journeymen Engineer with Able Engineering who provided information regarding the Property. The designated site contact has been affiliated with the Property for approximately 3.5 years and Mr. Blackwell has been affilicated with the Property for approximatley 4.5 years, and therefore were able to provide only limited information about the Property. A copy of the pre-survey questionnaire for the Property was completed and is included in Appendix C of this report. ATC interviewed the following persons during the course of the project:

Personnel Interviewed

Name	Title	Phone Number
Ms. Lani Life	Real Estate Manager, CB Richard Ellis	(818) 737-1198
Mr. William Blackwell	Certified Journeymen Engineer, Able Engineering	(818) 737-1207
General Inquiry - August 20, 2008	Los Angeles Fire Department - Arson Investigation Unit	(213) 485-6095

2.2.3 Document Review

The scope of services included reviews of construction and maintenance documents (if made available to ATC at our office or at the Property). ATC briefly reviewed the following documents:

Documents Reviewed

Name and Description of Document	Author	Date
Preliminary Structural Building Evaluation of West Hills / Coast Federal Bank Building Complex	Brandow & Johnston Associates, Los Angeles, California	January 15, 1999
ALTA/ACSM Land Title Survey of West Hills Corporate Village	Hennon Surveying & Mapping, Inc., La Canada, California	December 1, 1999 updated January 3, 2001
Property Condition Assessment of West Hills Corporate Village (8501-8531 Fallbrook Avenue)	Marx/Okubo Associates, Ltd., Denver, Colorado	January 4, 2002
Self-Contained Appraisal Report of Corporate Pointe at West Hills (Asset 166)	Capright Property Advisors, LLC, Chicago, Illinois	March 31, 2008
Asset Summary for Corporate Pointe at West Hills (166)	Unknown	June 30, 2008
Pre-Survey Questionnaire	Ms. Lani Life, Real Estate Manager, CB Richard Ellis	August 19, 2008

3.0 System Descriptions, Observations and Recommendations

3.1 Current Property Improvements

The Property is an office facility comprised of 11 buildings. The buildings at the Property are named/designated as follows: 8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521, 8531 and the 22801 Buildings, by their numerical address. However, based on our scope of services and the instructions of the designated site contact, only 10 of the 11 buildings are included in this report. The 10 buildings included in ATC's scope of work are identified as the 8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Buildings. The remaining building at the Property, 22801 Building and associated parking areas at the south side of the Property, were not included in ATC's scope of work.

The Property is situated on eight irregular-shaped land parcels and is considered to be of generally good quality construction. The Property is located to the northwest of the northwest corner of Fallbrook Avenue and Roscoe Boulevard. The street address of the Corporate Pointe at West Hills is 8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue.

The three story 8401 Building is generally "T"-shaped. The 8401 Building contains one commercial office/lab tenant (Unilab Corporation) and a wireless provider (Pacific Bell Wireless, LLC) on the building roof. The building was reportedly originally constructed in 1959 with renovations in 1999 and 2005. Detailed information regarding the renovations was not provided but appears to be similar to other buildings and includes exterior renovations and possible seismic strengthening in 1999 and tenant improvement and roof replacement in 2005. The ground floor of the building is partially below grade at the west side of the building due to the topography of the site. Additionally, there is a service yard with offices, storage areas and a loading dock to the southeast of the 8401 Building that was reportedly constructed by the current tenant in 2005.

The one story 8403 Building is generally rectangular-shaped. The 8403 Building contains one lab tenant (Unilab Corporation). The building was reportedly originally constructed in 1984 with renovations in 1999 and 2005. Detailed information regarding the renovations was not provided but appears to consist of exterior renovations in 1999.

The two story 8407 Building is generally rectangular-shaped. The 8407 Building contains two commercial office tenants (Blue Cross of California and Centex Title & Ancillary Services) and one vacant space on the second floor totalling approximately 8,246 square feet. The building was reportedly originally constructed in 1986, with renovations in 1999. Detailed information regarding the renovation was not provided but appears to consist of exterior renovations. The ground floor of the building is partially below grade at the east side of the building due to the topography of the site.

The one story 8411 Building is generally rectangular-shaped. The 8411 Building contains one food service tenant (Sodexo Marriott Services). The building was originally constructed in 1959, with renovations including reconstruction of the building and surrounding areas currently being performed and scheduled for completion by the end of 2008, although original date of substantial completion was scheduled no later than April 18, 2008 and final completion no later than May 18, 2008 according to the signed contract. Access to the building and surrounding areas was not available during ATC's site visit as the construction company was no longer present. Due to the current construction at the 8411 Building, a temporary leased cafe structure and bungalow is located between the 8415 and 8501 Buildings that is being utilized by the tenant.

The two story 8413 Building with full basement is generally rectangular-shaped and is contiguous to the east of the 8415 Building. The 8413 Building is currently vacant. The building features an auditorium. The building was reportedly originally constructed in 1986, with renovations in 1999. Detailed information regarding the renovation was not provided but appears to consist of exterior renovations.

The one story 8415 Building is generally square-shaped and is contiguousto the west of the 8413 Building. The 8415 Building contains the Property central plant. The building was reportedly originally constructed in 1959.

The three story 8501 Building is generally "T"-shaped. The 8501 Building contains two commercial office tenants (Countrywide Home Loans, Inc. and Software Dynamics, Inc.), one vacant space totalling approximately 17,177 square feet on the ground floor and a wireless provider (New Cingular Wireless PCS) on the building roof. The building was reportedly originally constructed in 1959, with renovations in 1998/1999. According to available information, the renovations included reconstruction of the exterior walls including installing metal studs set outside the exterior walls and finished with plaster and set in windows, replacement of the building roof, and seismic strengthening the building by adding reinforcement and several inches of pneumatically placed concrete against one wall face and new boundary elements at the ends of the existing shear walls. The ground floor of the building is partially below grade at the west and northwest sides of the building due to the topography of the site.

The four story 8511 Building is irregular-shaped. The 8511 Building contains one primary tenant (Sterling Software) who has sub-leased portions of the building. The building was originally constructed in 2000. The building has a large balcony with canopy at the north side of the fourth floor, two small balconies on the third and fourth floors at the south side of the building, auditorium and employee cafe on the ground floor.

The three story 8521 Building is generally "T"-shaped. The 8521 Building contains two commercial office tenants (Countrywide Home Loans, Inc. and The Boeing Company) and three vacant spaces totalling approximately 16,906 square feet on the ground floor. The building was reportedly originally constructed in 1959, with renovations in 1998/1999. According to available information, the renovations included reconstruction of the exterior walls including installing metal studs set outside the exterior walls and finished with plaster and set in windows, replacement of the building roof, and seismic strengthening the building by adding reinforcement and several inches of pneumatically placed concrete against one wall face and new boundary elements at the ends of the existing shear walls. The ground floor of the building is partially below grade at the east side of the building due to the topography of the site.

The two story 8531 Building is generally rectangular-shaped. The 8531 Building contains one research and development (R&D) tenant (The Boeing Company). The building was reportedly originally constructed in 1979, with renovations in 1998/1999. According to available information, the renovations included the building exteriors, replacement of the building roof, and seismic strengthening the building by adding reinforcement and several inches of pneumatically placed concrete against one wall face and new boundary elements at the ends of the existing shear walls. The ground floor of the building is partially below grade at the east side of the building due to the topography of the site.

Parking for the Property is provided by asphalt pavement at grade and by a two-level parking garage. The balance of the Property consists primarily of paved parking areas, service/drive lanes, a guard shack at the east main entrance drive, pedestrian walkways, landscaping, water feature with flowing creeks and small lake and surrounding seating areas and a service yard adjacent to the 8401 Building for Unilab Corporation.

The site contact indicated that the following work was performed during the last five years: Waterproofed the 8401 and 8501 Buildings in 2005 ($325,000 for the 8501 Building); renovated the central plant including replacement of two of the central plant chillers, boilers, piping distribution and related equipment in 2004/2005; replaced the 8401 Building roof in 2005; installed oil coolers to the elevators in the 8511 Building in 2006 ($22,000); replaced the central plant boilers at the end of 2007 due to issues with the boilers installed in 2005; miscellaneous parking enhancements in 2006/2007; seal coated and striped the parking areas at the 8511, 8401 and 8403 Buildings in 2007; asphalt overlay at the central parking area at the east side of the 8407 Building in 2007; asphalt overlay of the parking areas at the 8531 Building in 2008; constructed the two-level parking garage at the east side of the Property in 2006/2007; utility submetering installation in 2006/2007 ($425,000); replaced the lower roof and repaired and installed a polyurethane foam coating at the upper roof of the 8415 Building in 2008 ($110,000); added two concrete pads, furniture and landscape to pond area in 2007/2008 ($95,000); renovated the boundary wall at the west side of the Property in 2007/2008 ($125,000); renovation of the 8411 Building in 2008 (not to exceed $5,994,024.00 according to signed contract but reportedly is totalling approximately $11,000,000) and current exterior sitework around the 8411 Building ($1,621,686). Additionally, Ms. Life reported that renovations to the 8413 Building including exterior facades, relocation of the south exit stairway to the north side, the addition of an entry on the south side, renovation of the north main entry, adding a fitness center at the basement and renovating the auditorium is scheduled to be performed in 2009. The site contact also reported that no fires, floods, storms, or other major incidents have damaged the Property.

Building Name	8401 Building
Number of Floors	3
Number of Units	4
Number of Basement Levels	0
Year Built:	1959
Building Special Features	None
Amenities	Service yard constructed by current tenant
Gross Floor Area	160,740
Net Leasable Area	160,740
Structure	Reinforced concrete
Exterior Walls	EIFS
Roof	Built-up
Foundation	Concrete slab-on-Grade
HVAC	Central Plant, Chiller, Cooling tower, Boiler, AHU, VAV
Electrical	Other
Vertical Transportation	Hydraulic elevator
Construction Quality	Good

Building Name	8403 Building
Number of Floors	1
Number of Units	1
Number of Basement Levels	0
Year Built:	1984
Building Special Features	None
Amenities	None
Gross Floor Area	38,795
Net Leasable Area	38,795
Structure	Steel-framed
Exterior Walls	EIFS
Roof	Metal
Foundation	Concrete slab-on-Grade
HVAC	Central Plant, AHU, VAV
Electrical	Other
Vertical Transportation	None
Construction Quality	Good

Building Name	8407 Building
Number of Floors	2
Number of Units	4
Number of Basement Levels	0
Year Built:	1984
Building Special Features	None
Amenities	None
Gross Floor Area	82,815
Net Leasable Area	82,815
Structure	Steel-framed
Exterior Walls	Stucco
Roof	Metal
Foundation	Concrete slab-on-Grade
HVAC	Central Plant, Chiller, AHU, VAV
Electrical	Other
Vertical Transportation	Hydraulic elevator
Construction Quality	Good

Building Name	8411 Building (Cafe) - Not accessed
Number of Floors	1
Number of Units	1
Number of Basement Levels	0
Year Built:	1959/2008
Building Special Features	None
Amenities	Commercial Kitchen
Gross Floor Area	11,021
Net Leasable Area	11,021
Structure	
Exterior Walls	EIFS, Stucco
Roof	PVC
Foundation	Concrete slab-on-Grade
HVAC	Central Plant
Electrical	Other
Vertical Transportation	None
Construction Quality	

Building Name	8413 Building
Number of Floors	2
Number of Units	4
Number of Basement Levels	1
Year Built:	1984
Building Special Features	None
Amenities	Auditorium
Gross Floor Area	30,271
Net Leasable Area	30,271
Structure	Steel-framed
Exterior Walls	Stucco, Concrete masonry unit
Roof	Metal
Foundation	Concrete slab-on-Grade
HVAC	Central Plant, AHU, VAV
Electrical	Other
Vertical Transportation	Hydraulic elevator
Construction Quality	Good

Building Name	8415 Building (central plant)
Number of Floors	1
Number of Units	1
Number of Basement Levels	0
Year Built:	1959
Building Special Features	None
Amenities	None
Gross Floor Area	17,600
Net Leasable Area	Not applicable
Structure	Reinforced concrete, Steel-framed
Exterior Walls	Reinforced concrete
Roof	Built-up, Other
Foundation	Concrete slab-on-Grade
HVAC	None
Electrical	Other
Vertical Transportation	Hydraulic elevator
Construction Quality	Good

Building Name	8501 Building
Number of Floors	3
Number of Units	4
Number of Basement Levels	0
Year Built:	1959
Building Special Features	None
Amenities	None
Gross Floor Area	160,681
Net Leasable Area	160,681
Structure	Reinforced concrete
Exterior Walls	Other
Roof	Built-up
Foundation	Concrete slab-on-Grade
HVAC	Central Plant, AHU, VAV
Electrical	Other
Vertical Transportation	Hydraulic elevator
Construction Quality	Good

Building Name	8511 Building
Number of Floors	4
Number of Units	1
Number of Basement Levels	0
Year Built:	2000
Building Special Features	Balcony
Amenities	Auditorium, Cafe
Gross Floor Area	141,386
Net Leasable Area	141,386
Structure	Steel-framed
Exterior Walls	Glass curtainwall, Other
Roof	Built-up
Foundation	Concrete slab-on-Grade
HVAC	Central Plant, AHU, VAV
Electrical	Other
Vertical Transportation	Hydraulic elevator
Construction Quality	Good

Building Name	8521 Building
Number of Floors	3
Number of Units	6
Number of Basement Levels	0
Year Built:	1959
Building Special Features	None
Amenities	None
Gross Floor Area	160,498
Net Leasable Area	160,498
Structure	Reinforced concrete
Exterior Walls	Other
Roof	Built-up
Foundation	Concrete slab-on-Grade
HVAC	Central Plant, AHU, VAV
Electrical	Other
Vertical Transportation	Hydraulic elevator
Construction Quality	Good

Building Name	8531 Building
Number of Floors	2
Number of Units	1
Number of Basement Levels	0
Year Built:	1974
Building Special Features	None
Amenities	None
Gross Floor Area	98,839
Net Leasable Area	98,839
Structure	Reinforced concrete
Exterior Walls	Reinforced concrete, Other
Roof	Built-up
Foundation	Concrete slab-on-Grade
HVAC	Central Plant, Chiller, AHU, VAV
Electrical	Other
Vertical Transportation	Hydraulic elevator
Construction Quality	Good

3.2 General Condition and Remaining Useful Life of the Property

Based on ATC's document reviews, interviews, and field observations, it is ATC's opinion that the subject Property has been well maintained and is in overall good condition. The average condition of the construction systems reviewed and recommendations for their repair is summarized in the Property Summary Table following section 1.1 of this report. The table presents a summary of the condition of site and building components and equipment observed, and costs associated with Immediate Needs and Physical Needs Over the Term. These conditions and recommendations are explained in more detail in Sections 3.3 through 4.0 of this report. A detailed discussion of opinions of cost, Immediate Needs and anticipated Physical Needs Over the Term is presented in Section 5.0, with tabulated opinions of cost presented in Appendix A.

It is ATC's professional opinion that the Estimated Useful Life (EUL) of the Property is approximately 50 years and the Effective Age (EA) of the Property is approximately 15 years. Therefore the Remaining Useful Life (RUL) of the Property is approximately 35 years.

This RUL is based on the observed physical condition of the Property at the time of ATC's Property visit and is subject to possible effects of concealed conditions or the occurrence of extraordinary events, such as natural disasters or other "acts of God", which may occur subsequent to the date of the on-site visit. The RUL is further based on the assumption that the immediate repairs, long term and replacement repairs that are provided as capital reserves are completed in a timely and professional manner, and appropriate routine maintenance and replacement items are performed on an as needed basis.

3.3 Site Conditions

3.3.1 Topography

Observations: The Property slopes moderately down from the north to the south across the Property as the site is located near the base of a hillside. No abnormal features such as ground fractures, settlement areas, or areas of unintended ponding water were identified.

Recommendations: Based on the observed condition of the topography, only routine maintenance will be required during the evaluation period; no other action is currently recommended.

No immediate or short term needs were identified.

3.3.2 Storm Water Drainage

Observations: Water is drained from the roofing surfaces directly into the municipal sewer system via internal drains and piping. The pavement and open areas slope slightly away from each building with the exception of the north side of the 8413 Building where a concrete swale and catch basin has been added to mitigate water intrusion into the basement. Water runs off the Property by way of sheet flow to curbs and gutters, concrete swales and area catch basins located in the pavement and landscaped areas. The storm water is directed into the municipal sewer system.

No evidence of erosion or chronically standing water that would require correction was noted. Overall, Property drainage appeared to be good and the drainage infrastructure components appeared to be in good condition. No drainage deficiencies were reported to ATC, and no significant deficiencies were observed. Sand bags were observed adjacent to the stairs and curbing between the 8413 and 8501 Buildings at the east that were reportedly installed due to a soil erosion issue that has been mitigated by adding grass turf to the hillside. In general, storm water collection system components can be expected to provide 50 or more years of useful life.

Recommendations: It is recommended that the sand bags between the 8413 and 8501 Buildings at the east be removed during the course of routine maintenance operations. Based on the observed condition of the storm water drainage systems, only routine maintenance will be required during the evaluation period; no other action is currently recommended.

No immediate or short term needs were identified.

3.3.3 Site Access and Egress

Observations: There are four vehicular entrances to the Property of which one is located on the south side along Roscoe Boulevard and three are located on the east side along Fallbrook Avenue. The entrance drives are constructed with asphalt pavement, and were observed to be in good condition with no significant deficiencies. The entrance drives appeared to be adequate in terms of location and accessibility.

Recommendations: Based on the observed condition of the site access and egress elements, only routine maintenance will be required during the evaluation period; no other action is currently recommended.

No immediate or short term needs were identified.

3.3.4 Paving, Curbing and Parking

Observations: Parking space is provided by asphalt pavement at grade throughout the Property . The site contact reported that the pavement adjacent to the 8511, 8401 and 8403 Buildings was seal coated and striped in 2007, that the central parking asphalt pavement to the east of the 8407 Building was overlaid in 2007 and the asphalt pavement adjacent to the 8531 Building was overlaid in 2008. The site contact did not know when the remaining pavement areas were last sealcoated and restriped. The asphalt pavement and striping appeared to be generally in good to fair condition with localized medium to high severity alligator and linear cracking primarily observed at the west side of the 8407 Building, east side of the 8403 Building and northeast side of the 8413 Building. In general, asphalt pavement can be expected to provide approximately 25 years of useful life, with sealcoating and restriping of the pavement conducted every five years.

Additionally, an asphalt paved helipad and walkway was observed between the 8403 and 8407 Buildings. The asphalt pavement appeared to be in good to fair condition with deterioration observed at the perimeter and large linear cracks observed.

The Property is also improved with a two-level concrete parking structure at the northeast side of the Property.
The site contact reported that the concrete pavement was striped and upper deck was coated at the time of construction (2007). The concrete pavement appeared to be generally in good condition with no significant cracking or surface deterioration observed. The parking space markings and deck coating appeared to be in good condition with striping and curb markings clearly visible throughout. In general, concrete pavement can be expected to provide approximately 30 years of useful life, with re-striping of the parking spaces conducted every five years.

The paved areas are bordered primarily by cast-in-place concrete curbing with integral gutters and precast concrete bumpers with formed asphalt curbing observed at the west side of the Property. The curbing appeared to be in good condition throughout the parking area with the exception of cracked and localized heaved sections of asphalt curbing at the west side of the Property.

Parking for a reported total of 3,648 vehicles is provided throughout the Property and includes 2,591 surface parking spaces and 1,057 parking spaces at the parking structure. The existing parking design and number of parking spaces appeared and was reported to be generally sufficient for the current activities of the Property.

Recommendations: Based on the condition and EUL of the asphalt pavement, ATC recommends that the asphalt pavement be scheduled for repairs, sealcoat and restriping during the term.

The concrete pavement can be expected to last through the term, and funds to restripe the parking spaces and the re-application of the upper deck waterproof coating have been allocated over the term.

Based on the observed condition of the curbing, replacement of the asphalt curbing at the west side of the Property will be required over the term. Based on the observed condition of the remaining curbing, the curbing will require only routine maintenance during the evaluation period; no other action is currently recommended.

The existing parking design and number of parking spaces appeared and was reported to be generally sufficient for the current activities of the Property; no other action is currently recommended.

No short term needs were identified.

3.3.5 Loading Areas, Docks and Flatwork

Observations: The Property contains one loading dock space and drive-up ramp in one loading dock area situated at the east side of the 8415 Building. The dock area is constructed of asphalt pavement. The asphalt pavement appeared to be generally in good to fair condition. The loading dock at the 8415 Building features rubber bumpers. No dock levelers were observed. The dock has a metal roof canopy that was in good condition. No trip hazards or other areas of damage were observed.

The service yard at the 8401 Building contains four loading dock spaces in one loading dock area situated at the southeast side of the 8401 Building. The dock area is constructed of cast-in-place concrete pavement. The concrete pavement appeared to be generally in good condition with no significant cracking or surface deterioration observed. The loading dock at the service yard features hydraulic dock levelers and

rubber bumpers. A total of four dock levelers were observed by ATC and each was reported and appeared to be in good condition. It was reported that Unilab Corporation is responsible for all repairs and maintenance at the service yard. The dock has an intergrated metal roof canopy with the service yard structure that was in good condition. No trip hazards or other areas of damage were observed.

Concrete pedestrian walks provide access to the Property. The pedestrian walks appeared to be generally in good condition with localized areas of linear cracking observed. A localized trip hazard was observed at the northwest corner of the 8403 Building that appeared to be due to cracking and settleling of a concrete sidewalk section.

Dumpsters are located in masonry enclosures adjacent to some of the buildings at the Property. Dumpster enclosures are described in Section 3.3.6. The dumpsters are placed directly on concrete pads that appeared to be in good condition. No trip hazards or other areas of damage were observed.

Recommendations: Based on the observed condition, the loading docks can be expected to last through the evaluation period with routine maintenance; no other action is currently recommended.

Based on the observed condition, the pedestrian walks and flatwork can be expected to last through the evaluation period with routine maintenance. It is recommended that the cracked and settled sidewalk section at the northwest corner of the 8403 Building causing a trip hazard be removed and replaced as an immediate need.

Based on the observed condition, dumpster pads can be expected to last through the evaluation period with routine maintenance; no other action is currently recommended.

No short term needs were identified.

3.3.6 Landscaping and Appurtenances

Observations: The landscaping consists primarily of ground cover, grass turf, shrubs, flowers and trees. The Property has an irrigation system that services the landscaped areas. While the irrigation system was not observed in operation, no significant deficiencies were observed or reported. The landscaping components appeared to be generally in good condition with no significant deficiencies.

The Property is identified and advertised from the adjacent thoroughfares by a concrete with sandstone finish monument sign at the east side of the Property that is located adjacent to the main entrance. Informational and directional signage was observed at landscaped areas throughout. Additional informational signage is affixed to each building. The Property and building signage is in good condition with no significant deficiencies.

Exterior lighting consists of building- and pole-mounted high intensity discharge fixtures with ceiling-mounted flourescent fixtures at the ground level of the parking structure that appeared to be in good condition. Since the survey was conducted during daylight hours, Property lighting levels could not be accurately assessed; however, the lighting layout appears to provide adequate coverage and the site contact reported no deficiencies.

Painted concrete and CMU retaining walls varying in height were observed throughout the Property. A painted CMU with stucco finish and light fixtures boundary wall approximately five feet in height was observed along the northern portion of the west Property line. Chain link boundary fencing was observed along the north side of the Property. The substation at the east side of the 8415 Building was observed to be

enclosed by high chain link fencing. Additionally, chain link fencing enclosures were observed at the north side of the Property. Dumpster enclosures at the Property are primarily constructed of painted CMU walls approximately six feet in height. The walls and fencing appeared to be in good condition, with no significant deficiencies. However, localized missing CMU coping caps were observed at the dumpster enclosure at the north side of the 8531 Building.

There is an exterior water feature between the 8501, 8511 and 8521 Buildings at the north side of the Property that features two flowing creeks with wood framed bridges and small lake. The water feature is surrounded by pedestrian walkways and seating areas on concrete pads.

Recommendations: Repair and replacement of landscaping components is considered to be a part of routine maintenance; no action is required.

Based on the observed conditions, the signage can be expected to last through the evaluation period with only routine maintenance, such as repair and repainting; no other action is currently recommended.

The exterior light fixtures can be expected to last through the term with periodic repairs and replacement as part of routine maintenance, no other action is currently recommended.

It is recommended that the localized missing CMU coping caps at the dumpster enclosure at the north side of the 8531 Building be replaced as part of routine maintenance. The walls and fencing can be expected to last through the term with periodic repairs and painting as part of routine maintenance, no other action is currently recommended.

Based on the observed condition, the water feature and surrounding seating areas can be expected to last through the term with periodic repairs as part of routine maintenance, no other action is currently recommended.

No immediate or short term needs were identified.

3.4 Site Amenities

Observations: No recreational amenities were observed at the Property.

Recommendations: Not applicable.

3.5 Utilities

Observations: The site contact provided ATC with information regarding the utilities at the Property. Los Angeles Department of Water and Power (LADWP) provides domestic drinking water to the Property. The site contact did not know what type of material (i.e., PVC, cast iron, ductile iron, etc.) was used for construction of the water mains and laterals. LADWP supplies electricity to the Property from two separate stations. The Gas Company supplies natural gas to the Property. LADWP provides sanitary and storm sewer collection service to the Property. Tenants are individually metered for electric services. There are no special utility systems on the Property.

In general, main utility lines can be expected to provide 50 or more years of useful life, depending on the type and quality of materials and workmanship of the installation. The site contact reported that there have been no problems associated with the utilities at the subject Property.

Recommendations: Based on observations, utilities at the Property can be expected to last through the evaluation period with only routine maintenance; no other action is currently recommended.

No immediate or short term needs were identified.

3.6 Structural Frame and Building Envelope

Within the authorized scope of this evaluation, definitive determination of the structural systems was not possible because ATC was able to make only limited observations due to lack of physical accessibility, no destructive testing was performed and ATC did not have the opportunity to review a complete set of as-built structural drawings. Our non-invasive surface observations, review of available construction documentation and our experience with buildings of similar type and age indicate the following construction:

3.6.1 Foundation

Observations: The building foundation systems were not observed and a complete set of as-built structural drawings were not available.

No crawl spaces cellars were reported or observed. The 8413 Building features a full basement and the ground floor of the 8401, 8407, 8501, 8521 and 8531 Buildings are partially below grade on one side of the building due to the topography of the Property.

The ATC representative observed no improper alignment, cracking or other indications that the foundation systems are in less than adequate condition.

Recommendations: Based on observations, the foundation systems at the Property can be expected to last through the evaluation period with only routine maintenance; no other action is currently recommended.

No immediate or short term needs were identified.

3.6.2 Building Frame

Observations: The 8401, 8501 and 8521 Buildings frame consist primarily of perimeter and interior concrete columns supporting the upper level and roofing systems. The upper level and roof framing systems consists of two-way waffle slabs. According to available documentation, the buildings also feature reinforced concrete shear walls distributed throughout the buildings.

The 8403 Building frame consists primarily of a pre-engineered steel frame structure with CMU perimeter walls and steel columns supporting the roof framing system. The roof framing system consists of structural steel beams and light-gauge steel joists supporting the roofing system with vinyl-backed insulation below.

The 8407 and 8413 Buildings frame consist primarily of CMU walls with interior pilaster and interior steel columns supporting the upper level and a pre-engineered rigid steel frame structure with steel columns supporting the roof framing system. The upper level framing system consists of structural steel beams and open web steel joists supporting fluted metal decking with concrete topping. The roof framing system consists of structural steel beams and light-gauge steel purlins supporting the roofing system with vinyl-backed insulation below.

The 8415 Building frame consists primarily of concrete tilt-up wall panels with interior pilasters supporting the roof framing system. The roof framing system consists of structural open web steel trusses and beams supporting steel decking with concrete topping.

The 8511 Building frame consists primarily of a steel moment frame structure with steel columns supporting the upper level and roof framing systems. The upper level and roof framing systems consist of structural steel girders and beams supporting fluted metal decking with concrete topping.

The 8531 Building frame consists primarily of reinforced poured-in-place concrete walls and interior columns supporting the upper level and roof framing systems. The upper level and roof framing systems consist of poured-in-place pan-joist slabs. According to available documentation, the building also features reinforced concrete shear walls distributed throughout the building.

The ATC representative observed no improper alignment, cracking or other indications that the framing systems are in less than good condition. Efflorescence indicative of water intrusion was observed at the north side of the 8413 Building basement; however, a concrete swale and catch basin was installed at the north side of the building to mitigate the water intrusion issue as previously discussed in Section 3.3.2 of this report. The structural systems appeared to be in generally good condition and well maintained from a structural perspective, with no significant areas of distress observed. In general, structural systems can be expected to provide 50 or more years of useful life.

According to available documentation, the 8401 Building underwent seismic repairs and strenghtening after the 1994 Northridge earthquake that caused moderate to large diagonal shear cracks in all concrete shear walls, spalling of concrete at door openings, at jambs and corners, at pilaster bases and cracks in slab and waffle slab joists. Concrete cracks in walls, slabs and joists, which resulted from the Northridge earthquake, were repaired by epoxy injection. The building was strenghtened by the addition of new concrete shear walls adjacent to existing shear walls at the first and second floor levels. Concrete column capacities were increased at ends of shear wall by the addition of reinforcement and concrete incasement. Repair work and strengthening work was performed in compliance with the 1992 Los Angeles City Building Code and 1991 UBC.

According to available documentation, the 8407 Building underwent seismic repairs after the Northridge earthquake that consisted of repairing CMU wall cracks by epoxy injection and repairing spalled and cracked pilasters at beam and pilaster connections by epoxy injection and grouting. Repair work was performed in compliance with the 1992 Los Angeles City Building Code and 1991 UBC.

According to available documentation, the 8415 Building underwent seismic repairs after the Northridge earthquake that resulted in wall cracks, concrete spalls at the end intersections where the interior wall meets the exterior north and south walls. The earthquake damages were repaired by epoxy injection and grouting. Additionally, the structure was strengthened by replacing existing machine bolts with high strength bolts at horizontal diagonal lateral bracing connections, supplemental steel channel members were added to all the roof level chord continuity.

According to available documentation, a seismic retrofit was reportedly performed in 1999 at the 8501, 8521 and 8531 Buildings and included adding reinforcement and several inches of pneumatically placed concrete against one wall face and new boundary elements at the ends of the existing shear walls. The seismic upgrade reportedly enabled each building to comply with the 1994 Uniform Building Code (UBC).

Recommendations: Based on observations, the building frame systems at the Property can be expected to last through the evaluation period with only routine maintenance; no other action is currently recommended.

No immediate or short term needs were identified.

3.6.3 Carports and Garages

Observations: The two-level parking structure at the east side of the Property is of a monolithic reinforced poured-in-place concrete structure with reinforced concrete slab-on grade and concrete columns supporting the upper deck. The upper deck consists of reinforced concrete girders and beams supporting a concrete slab. The parking structure features an expansion joint near the center of the structure with double columns and beams. The perimeter of the parking structure is enclosed by unpainted CMU walls. The ATC representative observed no improper alignment, cracking or other indications that the garages are in less than good condition. However, efflorescence was observed on both the exterior and interior faces of the CMU walls. This is indicative of moisture penetration into the wall core, causing the lime to leach out of the mortar or block itself. This process will continue unless the surfaces are sealed with a clear, spray applied masonry sealer.

Recommendations: Based on observations, the parking structure at the Property can be expected to last through the evaluation period with only routine maintenance. However, it is recommended that the CMU walls exhibiting efflorescence be pressure washed and a clear masonry sealer be applied at the CMU walls during the term.

For the parking structure, as a part of routine maintenance, a yearly preventive maintenance program should be implemented and include inspection for signs of distress (cracks), appropriate waterproofing, and joint integrity, as well as inspection for precursory and/or actual signs of concrete deterioration such as crack leaking, efflorescence, corrosion, and or spalling.

No immediate or short term needs were identified.

3.6.4 Exterior Finishes

Observations: The exterior walls consist of painted EIFS with sandstone tile wainscoting at the 8401 and 8403 Buildings, painted stucco with sandstone wainscoting at the 8407 Building, painted smooth plaster with granite panel wainscoting at the 8501, 8511, 8521 and 8531 Buildings, painted stucco at the 8413 Building and painted precast concrete tilt-up wall panels at the 8415 Building. Although the 8411 Building was not accessible, the exterior walls appear to consist of painted EIFS or stucco with stone wainscoting. The walls appeared to be generally in good condition with the exception of linear cracking observed throughout the base of the 8413 Building and an opened stucco section at the north side of the building. Also, localized linear cracking was observed at the 8407 Building. According to Ms. Life, the 8413 Building is scheduled for renovations in 2009 and the 8407 Building is scheduled for crack repairs and elastomeric painting ($200,000 per management) in 2009 as well.

The site contact reported that the 8401 and 8501 Buildings exteriors were painted in 2005/2006. The site contact did not know when the exterior of the remaining buildings were last painted. As the site contact was unaware of the last time the buildings were painted and she has been associated with the Property for approximately four years, it appears that the exteriors of the 8403, 8407, 8413, 8521 and 8531 Buildings were painted during the renovations performed in 1998/1999. The

exteriors of the 8511 Building appear to have been painted at the time of construction in 2000 and the exteriors of the 8411 Building appear to have been recently painted in 2008. The age of the exterior paint at the 8415 Building is unkown. In general, exterior painting can be expected to provide approximately eight years of useful life. The exterior paint appeared to be generally in good condition with the exception of localized peeling paint and staining observed at the 8431 Building. Ms. Lani provided two "Request for Services" from Duggan and Associates for painting and crack repairs dated July 15, 2008 and August 22, 2008, respectively. The requests total $33,010 and a copy of each is included in Appendix C of this report.

Recommendations: It was reported that the linear cracking at the 8407 Building is not currently causing leaking to occur at the building. Due to the condition and projected budget for the 8407 Building exteriors, crack repairs and elastomeric painting is recommended during year one of the term.

Due to the extensive stucco cracks and opening at the north side of the 8413 Building, it is recommended that the damaged stucco areas be replaced as a short term repair need with exterior painting to follow in year one of the term.

Based on the condition and EUL of the exterior paint, ATC recommends that the majority of the buildings' exteriors be scheduled for repainting during the term. Crack sealing and exterior painting of the 8531 Building is recommended a short term repair need.

3.6.5 Stairs, Steps and Balconies

Observations: A total of four sets of interior stairs were observed at the 8401, 8501 and 8521 Buildings, a total of two sets of interior stairs were observed at the 8407, 8511 and 8531 Buildings and a total of three sets of interior stairs were observed at the 8413 Building. The stairs are primarily metal pan construction with concrete-filled treads and landings with metal railings and of steel-framing with closed risers at the 8511 Building. The interior stairs appeared to be generally in good condition.

Several sets of exterior stairs and steps to building entrances and at elevation changes were observed at the Property. The stairs and steps are cast in place concrete with metal railings. Additionally, the parking structure has five dedicated stairways of metal pan construction with concrete-filled treads and landings with metal railings. The exterior stairs appeared to be generally in good condition.

Recommendations: The interior stairs can be expected to last through the term with periodic repairs as part of routine maintenance; no other action is currently recommended.

The exterior stairs can be expected to last through the term with periodic repairs as part of routine maintenance; no further action is required.

No immediate or short term needs were identified.

3.6.6 Exterior Doors

Observations: The main entrance to each building primarily consists of commercial grade all glass doors with top and bottom rails with a few buildings featuring aluminum doors with full glass panels set in metal frames. Metal overhead roll-up doors are located in the loading dock area of the 8415 Building and one observed at the southwest side of the 8407 Building. Auxiliary and emergency exit doors are constructed of aluminum doors with full glass panels set in metal frames with painted metal doors set in metal frames observed at the mechanical areas. The doors throughout the Property were

observed to be in good condition with no significant deficiencies noted. The locking and other hardware components of the doors appeared to be in good condition. In general, the entrance and service doors can be expected to provide 25 to 30 years of useful life.

Recommendations: The doors can be expected to last through the term with periodic repairs and repainting as part of routine maintenance; no other action is currently recommended.

ATC recommends that the repainting of the metal exterior doors be conducted at the time of the repainting of the buildings exterior.

No immediate or short term needs were identified.

3.6.7 Exterior Windows

Observations: Windows at the Property consist of anodized or painted aluminum storefront systems, ribbon windows and single fixed single-pane tinted glass in aluminum. Double-pane insulated windows were observed at the 8407 and 8413 Buildings. The windows throughout the Property were observed to be in good condition with no significant deficiencies noted or reported.

Caulking around the windows, caulking between exterior frames, and glazing gaskets appeared to be in good condition where observed. However, Ms. Lani has reported past window leaks at the buildings that are repaired at the time of each occurance.

Recommendations: The windows can be expected to last through the term with periodic repairs and caulking replacement as part of routine maintenance. However, due to the past window leaks, a window caulking and glazing gasket replacement allowance is recommended during the term.

No immediate or short term needs were identified.

3.6.8 Roofing Systems

Observations: The roofing systems at the 8401, 8501, 8521 and 8531 Buildings consist of a built-up roof (BUR) with gravel surfacing. The roofing systems at the lower roof of the 8415 Building and the 8511 Building consist of a BUR with mineralized cap sheet surfacing. The roofing system at the upper roof of the 8415 Building consists of a polyurethane foam roof applied over the existing roof. The building roof systems at the 8403, 8407 and 8413 Building consist of metal standing seam panels. The roofing system at the 8411 Building appears to consist of a single ply adhered Polyvinyl Chloride (PVC) membrane. The type and quality of installation of underlying components of the roof membrane could not be determined without intrusive investigation and testing. Therefore, the base sheet, the number of inter-ply(s), thickness and pliability of asphalt bitumen inter-moppings, and the base sheet fastening system could not be verified. Roof access is provided by an external building-mounted ladder or penthouse door.

The site contact reported that there are no active roof leaks at the Property. It was reported that the roofs at the 8403, 8407 and 8413 Buildings were installed at the time of original construction (1984 and 1986), at the 8501, 8521 and 8531 Buildings were installed in 1999, at the 8511 Building was installed at the time of original construction (2000), at the 8401 Building in 2005 and at the 8411 and 8415 Buildings in 2008. According to the site contact, there are no active roof warranties for the majority of the buildings at the Property. According to available documentation and the site contact, the 8511 Building has a 15-year roof warranty for the roofing at the

building; however, no documentation was provided for review. It was reported that the 8411 Building roof will have a roof warranty when the building renovation is complete but the term length is unknown.

The roofs are low-slope and primarily pitched to internal primary and secondary drains with a gutter system and internal drains at the 8403, 8407 and 8413 Buildings and internal primary and overflow scuppers at the lower roof of the 8415 Building. The slope and drainage design of the roof appeared to be generally adequate. ATC observed several areas of leaves on the roofing gutter system of the 8403 Building. Roof-mounted HVAC units primarily supported by raised platforms with metal flashing is present. The 8401, 8403, 8411, 8501 and 8521 Buildings feature metal framed mechanical equipment vision screens. Other penetrations observed included plumbing vents and electrical power and control conduit lines. Felt base flashing, roof field material base flashing, galvanized sheet metal counter flashing, aluminum counter flashing, mastic and caulking are used at roofing termination and penetration locations and appeared to be adequately sealed and flashed.

The parapet walls are projections of the exterior walls. A continuous parapet ranging in height from approximately two to six feet delineates the perimeter of each roof. The interior surface of the parapet walls consists primarily of mineralized cap sheet with mechanically fastened metal counterflashing terminating at EIFS coping, mineralized cap sheet terminated at metal coping, metal panel siding with EIFS coping and painted stucco with base felt flashing and mechanically fastened metal counterflashing terminating at metal coping . The joints between metal coping sections were observed to be in good to fair condition. The metal coping at the 8501 Building was observed to be in fair condition with peeling paint and coping joints in need of caulking.

No skylights were observed at the Property. No attics were observed at the Property. No fire retardant treated (FRT) plywood was observed or reported at the Property.

The roof membranes appeared to be in good condition with no significant deficiencies observed. However, cracking and deterioration of the parapet flashing was observed throughout the perimeter of the 8511 Building roof. In general, BUR systems can be expected to provide approximately 20 years of useful life and metal systems can be expected to provide approximately 40 years of useful life.

Recommendations: Based on the condition of the metal coping at the 8501 Building, it is recommended that the metal coping be prepped and painted and coping joints be caulked as an immediate repair.

The observed areas of leaves at the 8403 Building should be cleaned during the course of normal maintenance operations.

Due to the current condition of the parapet flashing at the 8511 Building, it is recommended that the deteriorated flashing be replaced as an immediate repair. As the 8511 Building roof currently features a roof warranty, no costs have been associated with this recommendation.

Based on the condition and age of the roofing at each building, ATC anticipates that the roofing can be expected to last through the term with repairs as part of routine maintenance; no other action is currently recommended.

No short term needs were identified.

3.7 Plumbing Systems

3.7.1 Supply and Waste Piping

Observations: ATC observed and the site contact reported that the interior water supply lines are copper and waste lines are cast iron. No polybutylene piping was reported at the Property or observed by ATC within the limited areas of accessible plumbing. (Note that since destructive testing was not within the scope of services of this project, ATC was not able to visually evaluate if polybutylene piping exists within the concealed areas, walls or underground as supply piping.)

The site contact reported that the Property has not experienced abnormal plumbing problems with the exception of a drip leak which has ceased leaking on the first floor at the southeast side of the 8531 Building. Mr. Blarckwell reported that an approximate four fout section of copper piping has to be replaced in the building. ATC observed no items indicating that the plumbing systems are in less than good condition. In general, plumbing lines can be expected to provide 50 or more years of useful life, depending on the type and quality of materials and workmanship of the installation.

Recommendations: Based on the limited nature of work, replacement of the deficient pipe section at the 8531 Building is recommended as part of routine maintenance. The piping can be expected to last through the term with periodic repairs as part of routine maintenance; no other action is currently recommended.

No immediate or short term needs were identified.

3.7.2 Domestic Hot Water Production

Observations: Domestic hot water for the restrooms at the 8401 Building is provided by one natural gas water heater manufactured by A.O. Smith located on the third floor with a tank capacity of 81 gallons. Domestic hot water for the restrooms at the 8403 Building is provided by one electric water heater manufactured by A.O. Smith located in the mechanical room with a tank capacity of 30 gallons. Domestic hot water for the restrooms at the 8407 Building is provided by one natural gas water heater manufactured by American located on the second floor with a tank capacity of 50 gallons. Domestic hot water for the restrooms at the 8413 Building is provided by one electric water heater manufactured by Reliance located on the second floor with a tank capacity of 55 gallons. Domestic hot water for the restrooms at the 8501 Building is provided by one natural gas water heater manufactured by Universal located on the third floor with a tank capacity of 75 gallons. Domestic hot water for the restrooms at the 8511 Building is provided by four electric water heater manufactured by A.O. Smith with one located on each floor and tank capacities of 30 gallons. The 8511 Building also has a Raypak natural gas boiler with a 327 gallon hot water storage tank located on the building roof for the showers and cafe on the first floor. Domestic hot water for the restrooms at the 8521 Building is provided by one natural gas water heater manufactured by A.O. Smith located on the third floor with a tank capacity of 109 gallons. Domestic hot water for the restrooms at the 8531 Building is provided by one electric water heater manufactured by A.O. Smith located on the ground floor with a tank capacity of six gallons and one natural gas water heater manufactured by American located on the second floor with a tank capacity of 75 gallons. Additionally, supplemental water heaters and instantaneous tankless under sink water heaters are present at tenant spaces.

The water heaters observed appeared to be generally in good condition. Seismic straps were installed on the water heaters observed by ATC. However, the California Building Code states that properties subject to seismic activity requires a minimum of two sets of seismic straps securing water heaters. The water heaters observed at the

8407 and 8413 Buildings only had one seismic strap securing the water heaters. In general, water heaters and boilers can be expected to provide approximately 15 and 25 years of useful life, respectively. The water heaters varied in age and approximately three years old at the 8401, 8403 Buildings, two years old at the 8407 Building, one year old at the 8413 Building, eight years old at the 8501 Building, one and eight years old at the 8511 Building, 10 years old at the 8521 Building, and two and nine years old at the 8531 Building. The boiler at the 8511 Building was reported to be installed in 2000.

Recommendations: Based on the limited nature of work, installation of an additional seismic strap at the water heaters in the 8407 and 8413 Buildings is recommended as part of routine maintenance.

The majority of the water heaters and boiler can be expected to last through the term with periodic repairs and replacement performed as part of routine maintenance. It was reported that the maintenance and replacement of the water heaters serving the restrooms is the responsibility of the Property; therefore, funds have been allocated for replacement of the majority of the water heaters in the 8511 Building and the water heaters in the 8501 and 8521 Buildings over the term.

It was reported that the maintenance and replacement of the water heaters within tenant spaces and boiler at the 8511 Building is the responsibility of the individual tenants; therefore no funds have been allocated for replacement over the term.

No immediate or short term needs were identified.

3.7.3 Fixtures

Observations: The restroom fixtures and faucets in each building observed by ATC were in good condition and no evidence of inadequate venting or water pressure was noted. Tempered water response time at fixtures and faucets in each building was also adequate. In general, fixtures and faucets can be expected to provide 15 to 20 years of useful life.

Recommendations: Repair and replacement of the fixtures and faucets is considered to be a part of routine maintenance over the term; no other action is currently recommended.

No immediate or short term needs were identified.

3.8 HVAC Systems

3.8.1 Equipment

Observations: There is a central plant at the 8415 Building consisting of chillers, boilers, cooling towers and associated piping and circulating pumps providing chilled and heated water to air-handling units at each building. The air-handling units at each building intern have double ducts supplying cooled and heated air to VAV units within the tenant areas. Supplemental after hours heating and cooling at the 8401 Building consists of chillers, boilers, a flat plate heat exchanger, cooling towers and associated piping and pumps that are located on the building roof. Supplemental after hours cooling for a tenant at the 8407 Building consists of one air-cooled scroll compressor chiller located at the roof well. Additionally, supplemental after hours cooling at the 8431 Building consists of one air-cooled chiller.

The central heating plant consists of five hot water boilers and associated circulating pumps. The boilers are natural gas-fired and have a rated input capacity of 2,000,000

BTU/Hour. The boilers were reportedly installed in 2007. The boilers observed were manufactured by Ajax and appeared to be generally in good condition. In general, boilers can be expected to provide approximately 25 or more years of useful life with preventative maintenance and overhauls every 10 years.

There is a central chilled water system providing air conditioning to the Property supplied by three water-cooled centrifugal chillers with two cooling towers and circulating pumps. The chillers have a rating of 1,200 tons (chillers no. 1 and 2) and 600 tons (chiller no. 3) and use R-123 and R-11 as a refrigerant, respectively. The chillers observed were manufactured by Trane and appeared to be generally in good to fair condition. In general, chillers can be expected to provide approximately 25 or more years of useful life with ongoing preventative maintenance and refurbishing every 10 years. It was reported that chillers no. 1 and 2 were installed in 2005 and the chiller no. 3 was installed in 1987. Chillers no. 1 and 2 have not been eddy current tested due to their age. The designated site contact reported that chiller no. 3 was last eddy current tested in 2004 by Control Air.

The cooling towers are constructed of concrete and are located at ground level adjacent to the west side of the 8415 Building. The reported capacity of each cooling tower is 2,500 tons. The cooling towers observed were specifically constructed for the Property and appeared to be generally in good condition. In general, cooling towers of this type can be expected to provide a long useful life with ongoing preventative maintenance and overhauls. It was reported that the cooling towers were constructed in 1985.

There are two 100-HP hot water circulating pumps, two 250-HP and one 300-HP chilled water pumps and two 125-HP and one 100-HP condenser water pumps. The water circulation pumps were reportedly in good operating condition. ATC did not note excessive vibration, bearing deterioration sounds, or leakage. In general, these pumps can be expected to provide approximately 20 or more years of useful life with ongoing preventative maintenance. It was reported that the chilled water pumps and two of the condenser water pumps were installed in 2005. The age of the remaining water pumps is unknown.

The central plant and associated HVAC equipment is reportedly owned and maintained by the Property. The supplemental HVAC equipment at each building is reportedly owned and maintained by each individual tenant. The HVAC systems appeared to be in overall good condition, and were operable at the time of ATC's visit. According to the site contact, the Property has experienced no abnormal HVAC problems.

Recommendations: Based on the observed condition and estimated age of the equipment, the boilers can be expected to last through the term; no other action is currently recommended.

Funds have been allocated for replacement of chiller no. 3 over the term of the evaluation. Funds have also been allocated for refurbishing of chillers no. 1 and 2 over the term of the evaluation.

Due to the large capacity of the cooling towers and air handling and the ability to replace their internal components, the units have a long effective useful life, which can be extended when property maintained. An allowance is recommended for as-needed replacement of HVAC components and/or repair of compressors, valves, coils, etc. Additionally, as-needed replacement of VAV units is also included in the allowance.

Based on the observed condition and estimated age of the equipment, the chilled water, hot water and condensate pumps can be expected to last through the term; no other action is currently recommended.

No immediate or short term needs were identified.

3.8.2 Distribution Systems

Observations: The central plant heating and cooling distribution system has a centralized four pipe distribution system that provides hot and chilled water for heating and cooling to air-handling units at each building. The air-handling units at each building have double ducts providing heated and cooled air for heating and cooling to VAV boxes located within each building. Restrooms are ventilated with ceiling exhaust fans which are always on. The exhaust fans have discharge ducts to the buildings exteriors. It was reported that the ventilation arrangements meet the current needs of the tenants.

Recommendations: The majority of the HVAC distribution system components can be expected to last through the term with periodic repairs as part of routine maintenance. A repair and/or replacement allowance for the HVAC distribution system components has been recommended in the previous section of this report.

No immediate or short term needs were identified.

3.8.3 Control Systems

Observations: The central plant at the Property is equipped with an energy management system (EMS) manufactured by Siemens that reportedly serves the HVAC equipment. The software on the EMS was reportedly upgraded in 2008 and is in good operating condition. The majority of the HVAC equipment at the Property has variable frequency drives (VFDs) that were reported to be in good condition.

Recommendations: The majority of the HVAC control system components can be expected to last through the term with periodic repairs as part of routine maintenance; no other action is currently recommended.

No immediate or short term needs were identified.

3.9 Electrical Systems

3.9.1 Service and Metering

Observations: Primary electrical service is fed from a central high voltage (4,160-volt) substation at the east side of the 8415 Building. The substation is fed from two different LADWP stations and the substation is equipped with "Vista" switches that allows the Property to be switched to be fed from one of the LADWP stations in case of power interuption from one of the stations. The site contact reported that the Property owns and maintains each transformer at the substation. The central high voltage system in the 8415 Building supplies power via underground conduit to the meter and main service panels located at each building. The electric system to the 8401 Building consists of 5,000-ampere, 277/480-volt, three-phase, four-wire alternating current (AC). The electric system to the 8403 Building consists of 1,200-ampere, 277/480-volt, three-phase, four-wire AC. The electric system to the 8407 Building consists of 1,200-ampere, 277/480-volt, three-phase, four-wire and of 3,000-ampere, 208Y/120-volt, three-phase, four-wire AC. The electric system to the 8413 Building consists of 600-ampere, 277/480-volt, three-phase, four-wire AC. The electric system to the 8403 Building consists of 1,200-ampere, 277/480-volt, three-phase, four-wire AC. The electric system to the 8501, 8511 and 8521 Buildings consists of 3,000-ampere, 277/480-volt, three-phase, four-wire AC. The electric system to the 8531 Building consists of 2,500-ampere, 277/480-volt, three-phase, four-wire AC.

The electrical distribution panels at the Property were located in locked electrical rooms and the circuit breakers observed by ATC were labeled.

Interior light fixtures consist primarily of a combination of fluorescent fixtures. The fixtures were observed to be in good condition with no significant deficiencies observed.

ATC observed a Kohler diesel-powered emergency engine-generator with self-contained "belly" tank set with a capacity of 750 KVA at the 8401 Building that reportedly supplies emergency power to the fire and life safety systems, refrigerators, lab exhaust fans and IT equipment. ATC observed a Kohler diesel-powered emergency engine-generator with self-contained "belly" tank set with a capacity of 300 KVA at the 8511 Building that reportedly supplies emergency power to the building fire and life safety systems. ATC also observed a Spectrum Detroit Diesel diesel-powered emergency engine-generator with self-contained "belly" tank set with a capacity of 100 kW at the 8531 Building that reportedly supplies emergency power to the building fire and life safety systems, IT equipment and security systems. The condition of the generators appeared to be good with no significant deficiencies observed.

Recommendations: The majority of the electrical service and metering components can be expected to last through the term with periodic repairs as part of routine maintenance; no other action is currently recommended.

The generators can be expected to last through the term with routine maintenance; no other action required. The generators are reportedly owned and maintained by the tenants, (Unilab Corporation, Sterling Software and The Boeing Company). However, the designated site contact reported that the generator at the 8511 Building will be the Property's responsibility when the tenant's lease is up in 2010.

No immediate or short term needs were identified.

3.9.2 Distribution

Observations: The main service wiring and interior branch wiring was reported to be copper.

The site contact reported that the Property has experienced no abnormal electrical problems. Infra-red inspections of the electrical systems at each building are reportedly performed yearly. ATC observed no items indicating that the electrical systems are in less than good condition. The electrical systems appeared to be adequate to meet the tenant requirements with adequate capacity for future similar tenants.

Recommendations: The majority of the electrical distribution components can be expected to last through the term with periodic repairs as part of routine maintenance; no other action is currently recommended.

No immediate or short term needs were identified.

3.10 Conveying Systems

Only dumbwaiters and systems intended for the conveyance of passengers (elevators, escalators, moving walkways and ramps) are included in the scope of this assessment, all other conveyance systems, if any, are specifically excluded.

3.10.1 Elevators

Observations: There is a total of 20 hydraulic elevators and one handicap accessible vertical platform/wheelchair lift at the Property and are distributed as follows:

The 8401 Building has two hydraulic passenger elevators and two hydraulic freight elevators with one passenger and freight elevator serving floors one through three, one passenger elevator serving floors two and three and one freight elevator serving the first floor to the building roof penthouse (4-stop). The elevators were manufactured by Otis Elevator Company and have a capacity of 3,500 pounds for the passenger elevator serving the second and third floors, 3,500 pounds for the passenger and freight elevators serving the first through third floors and 6,000 pounds for the freight elevator serving the roof penthouse. The elevators were modernized and/or installed at the time of tenant renovations performed in 2005. ATC reviewed the most recent municipal certificate of inspection for the elevators that indicated an expiration date of January 3, 2009.

The 8407 Building has two hydraulic passenger elevators serving the first and second floors. The elevators were manufactured by Dover Elevator Company and Reliable Elevator Corporation and have a capacity of 2,500 pounds (Dover) and 4,000 pounds (Reliable). The Dover elevator appears to have been installed in 1999 during the reported building renovations and the Reliable elevator is original to the building having been installed in 1985/1986. ATC reviewed the most recent municipal certificate of inspection for the elevators that indicated an expiration date of January 3, 2009.

The 8413 Building has two hydraulic passenger elevators serving the basement through second floors. The elevators were manufactured by Reliable Elevator Corporation and have a capacity of 3,500 pounds. The elevators appear to be original to the building and were installed in 1986. ATC reviewed the most recent municipal certificate of inspection for the elevators that indicated an expiration date of December 8, 2008.

The 8415 Building has one hydraulic freight elevator serving the building finished floor to the ground level at the north side of the building. The elevator was manufactured by Reliable Elevator Corporation and has a capacity of 2,000 pounds. The age of the elevator is unknown but appears to be 20 plus years old. ATC reviewed the most recent municipal certificate of inspection for the elevator that indicated an expiration date of September 10, 2008.

The 8501 Building has two hydraulic passenger elevators serving floors one through three and one hydraulic freight elevator serving floors one through the roof penthouse. The passenger elevators were manufactured by Schindler Elevator Corporation and have a capacity of 3,500 pounds and the freight elevator was manufactured by United Elevator and has a capacity of 6,000 pounds. The two passenger elevators appear to have been modernized/installed in 1998 during building renovations and the freight elevator appears to be original and installed in 1959. ATC reviewed the most recent municipal certificate of inspection for the elevators that indicated an expiration date of January 7, 2009.

The 8511 Building has two hydraulic passenger elevators and one hydraulic freight elevator serving floors one through four. The elevators were manufactured by Schindler Elevator Corporation and have a capacity of 3,500 pounds (passenger) and 4,000 pounds (freight). ATC reviewed the most recent municipal certificate of inspection for the elevators that indicated an expiration date of September 25, 2008. Additionally, the building also has one handicap accessible vertical platform/wheelchair lift serving the building auditorium. The vertical platform/wheelchair lift was manufactured by Concord and has a capacity of 750

pounds. The elevators and vertical platform/wheelchair lift were installed during original construction (2000). ATC did not observe the most recent municipal certificate of inspection posted on the vertical platform/wheelchair lift.

The 8521 Building has two hydraulic passenger elevators serving floors one through three and one hydraulic freight elevator serving floors one through the roof penthouse. The passenger elevators were manufactured by Schindler Elevator Corporation and have a capacity of 3,500 pounds and the freight elevator was manufactured by United Elevator and has a capacity of 6,000 pounds. The two passenger elevators appear to have been modernized/installed in 1998/1999 during building renovations and the freight elevator appears to be original and installed in 1959. ATC reviewed the most recent municipal certificate of inspection for the elevators that indicated an expiration date of December 7 and 8, 2008.

The 8531 Building has two hydraulic passenger elevators serving the first and second floors. The elevators were manufactured by Schindler Elevator Corporation and have a capacity of 3,500 pounds. The elevators appear to have been modernized/installed in 1998/1999 during building renovations. ATC reviewed the most recent municipal certificate of inspection for the elevators that indicated an expiration date of January 7, 2009.

The elevators were observed to be in good to fair condition with no significant deficiencies observed. However, shuddering of the original freight elevator at the 8521 Building was noted near the top of the roof penthouse. Additionally, ATC observed that the 8511 Building freight elevator oil cooler installed in 2006 was leaking with a pan placed beneath the unit and the odor of the hydraulic oil could be noticed in the building lobby. The remaining units operated smoothly and wait times were reasonable for elevator cars to arrive at the various floor levels during our site tour. The elevator machine rooms appeared well maintained. The controller equipment for elevators can be expected to provide approximately 25 to 30 years of useful life. Repair and replacement of the elevator equipment at the 8401 Building is reportedly the responsibility of the tenant.

It was reported that Schindler Elevator Corporation provides elevator service on a monthly and an as needed basis at the Property. It was reported that Fujitech America, Inc. provides elevator service on a monthly basis at the 8401 Building. ATC interviewed Mr. Jene Gutierrez of the Schindler Elevator Corporation who reported that the elevators at the Property are in good to fair operating condition and the three original elevators at the Property should be considered for modernization.

Recommendations: Based on the observed condition and age of the equipment, the majority of the elevators can be expected to last through the term. Based on the observed condition and age of the equipment, it is expected that modernization of the original elevators at the 8407, 8413, 8415, 8501 and 8521 Buildings may be necessary during the term and funds have been allocated in the reserve table.

It is recommended that the freight elevator oil cooler at the 8511 Building be repaired as part of routine maintenance due to the fairly new installation.

ATC recommends that the appropriate authority be contacted during the course of routine maintenance to schedule an inspection for the vertical platform/wheelchair lift at the 8511 Building which did not have a certificate of inspection posted.

No immediate or short term needs were identified.

3.10.2 Escalators

Observations: No escalator systems were reported or observed at the Property.

Recommendations: Not applicable.

3.10.3 Moving Walkways and Ramps

Observations: No moving walkways or ramps were reported or observed at the Property.

Recommendations: Not applicable.

3.11 Life Safety/Fire Protection

3.11.1 Sprinklers and Suppression Systems

Observations: Each building at the Property is equipped with a wet-type sprinkler system that provides fire protection. The fire sprinkler systems throughout the Property appeared to be generally in good condition and were reportedly operational. During our site visit stained tiles indicating leakage from the fire supression system were not noted. No information was available on the square footage coverage per sprinkler head. The designated contact reported that the five-year test of the fire sprinkler systems at the Property are performed annually. Fire Department connections are available at the buildings' exterior at back flow preventers.

In general, fire sprinkler lines can be expected to provide 50 or more years of useful life, depending on the type and quality of materials and workmanship of the installation. According to the site contact, there have been no problems associated with the fire sprinkler system. Fire sprinkler heads subject to recalls were not reported to ATC at the Property. ATC observed that some of the spare fire sprinkler heads for the system, located within the red storage box at the fire sprinkler main shut-off valve room, were manufactured by Central and Gem Sprinkler Company. Some models of fire sprinkler heads manufactured by Central and Gem Sprinkler Company have been included in a voluntary recall from the manufacturer.

The parking structure at the east side of the Property is not equipped with a sprinkler system; however, fire hose cabinets with fire extinguishers were observed.

Fire extinguishers were observed throughout the Property. None of the fire suppression equipment was tested in the scope of this survey. However, the fire extinguishers checked were tagged as having been inspected within the past year. Fire hydrants are situated in various locations throughout the Property. ATC observed no items indicating that the fire protection components are in less than good condition. However, the exteropr fire sprinkler line at the fourth floor balcony of the 8511 Building exhibited corrosion.

The kitchen hood at the cafe of the 8511 Building is equipped with a chemical extinguishing system that was observed and reported to be in good condition. The most recent inspection of the system was performed on April 4, 2008 by Cal Protection according to the tag observed.

The main computer room at the 8401 Building is reportedly served by a FM-200 preaction system and reported to be in good condition.

The west stairs at the 8511 Building is reportedly provided with a pressurization and smoke evacuation system.

Recommendations: It is recommended that the exterior exposed fire sprinkler line at the 8511 Building be wire brushed and painted during the course of routine maintenance operations.

No immediate or short term needs were identified.

3.11.2 Alarm Systems

Observations: Hard-wired smoke and heat detectors, lighted exit signs, emergency lighting or battery back-up lighting, alarm pull boxes, as well as audible and visual alarms were observed at the Property. Alarm pull boxes as well as audible and visual alarms were not observed at the 8413 Building. Each building is equipped with a fully addressable fire alarm control panel that are monitored by a 24-hour monitoring company. The observed fire alarm control panels were manufactured by Siemens, Fire Lite Alarms and Notifier. The equipment was reportedly operable at the time of ATC's visit. ATC observed no items indicating that the system components are in less than good condition.

Recommendations: No action over the term is currently recommended.

No immediate or short term needs were identified.

3.11.3 Security and Other Systems

Observations: The Property is equipped with a variety of security alarm systems, each of which is owned and maintained by the individual tenants. The systems were reportedly operable at the time of ATC's visit. ATC observed no items indicating that the security system components are in less than good condition.

Recommendations: No action over the term is currently recommended.

No immediate or short term needs were identified.

3.12 Interior Elements

3.12.1 Common Areas

Observations: The common areas at the Property are limited to lobbies, corridors and restrooms at the 8407, 8501 and 8521 Buildings. The floors in each building are covered primarily with granite, carpeting and ceramic tile in the restrooms. Exposed concrete-slab-on-grade was observed at the mechanical portions of each building. The interior walls in each building consist primarily of painted gypsum wallboard and ceramic tile at the restrooms. The ceilings in each building consist primarily of suspended ceiling panels and painted gypsum drywall with the underside of the floor/roof deck visible throughout the mechanical areas. The common area interior finishes of each building appeared to be generally in good condition with no significant deficiencies observed.

Recommendations: It was reported that the replacement of the common area interior finishes in the 8407, 8501 and 8521 Buildings is the responsibility of the Property; therefore, an allowance has been allocated for repainting and replacement over the term as the finishes vary in age.

No immediate or short term needs were identified.

3.12.2 Tenant Areas

Observations: Interior walls and ceilings of the tenant areas are constructed of painted drywall and suspended ceiling panels. The floor finishes consist of carpeting, granite, ceramic tile and vinyl tile flooring. Overall, the finishes of the tenant areas appeared to be in good condition with no significant deficiencies.

Recommendations: It was reported that the replacement of the tenant area interior finishes is the responsibility of the tenants; therefore, no funds have been allocated for replacement over the term.

No immediate or short term needs were identified.

3.12.3 Dwelling Units or Guest Rooms

Observations: There are no dwelling units or guest rooms at the Property.

Recommendations: Not applicable.

3.12.4 Bathrooms

Observations: There are no bathrooms at the Property.

Each building has tenant and common area restrooms on each floor. The restroom floors and walls are primarily finished with ceramic tile. The ceilings primarily consist of painted drywall.

Recommendations: Based on their estimated age and observed condition, the interior finishes in the restrooms can be expected to last through the term.

No immediate or short term needs were identified.

3.12.5 Kitchens

Observations: There is a commercial kitchen at the cafe located at the ground floor of the 8511 Building. The kitchen is equipped with standard equipment utilized for storage and food preparation. According to the site contact, the majority of the kitchen equipment is in good operating condition. Generally, kitchen equipment can be expected to provide 30 or more years of service.

Additionally, the 8411 Building will also feature a commercial kitchen when the building renovation is complete.

Recommendations: It was reported that one of the tenants at the 8511 Building owns and maintains the equipment in the kitchen; therefore, no funds have been allocated during the term.

No immediate or short term needs were identified.

3.12.6 Laundry Areas

Observations: No laundry areas are present at the Property.

Recommendations: Not applicable.

4.0 Additional Considerations

4.1 Code Compliance

Observations: ATC contacted the building, fire and planning departments during the course of the project to obtain general Property information and identify currently outstanding code violations at the Property.

ATC has submitted a request for code compliance information. As of the date of this report, a reply has not been received. A report of outstanding building code violations, if any, will be issued under a separate cover.

According to the Los Angeles Fire Department - Arson Investigation Unit, code compliance information is obtained through submission of a written request. ATC submitted a request and a copy is included in Appendix C. As of the date of this report, a reply has not been received. A report of outstanding fire code violations, if any, will be issued under a separate cover.

ATC requested information regarding the zoning at the Property. A review of the zoning information provided by the Los Angeles Zone Information & Map Access System (ZIMAS) indicated that the Property was located within two zoning districts. The southern half of the Property where the 8401, 8403, 8407, 8411, 8413 and 8415 Buildings are located was within a A1-1 (Agriculture) zoning district and appeared to be a legal non-conforming use. The northern half of the Property where the 8501, 8511, 8521 and 8531 Buildings are located was within a M1-1 (Limited Industrial) zoning district and appeared to be a conforming use.

Recommendations: No needs over the term were identified; no action is currently recommended.

No immediate or short term needs were identified.

4.2 Accessibility to Disabled Persons

Observations: The subject Property, based on the operations observed, appears to fall into the category of a "public accommodation".

Exterior routes from public transportation stops, accessible parking spaces, and public sidewalks at the Property appeared to be generally conforming to ADA requirements. However, the exterior ramp at the north side of the 8403 Building did not have handrails on both sides as required by ADA guidelines. Exterior entrances provided at the Property appeared to be generally conforming to ADA requirements.

Of the 3,648 parking spaces reported at the Property, there are a total of 100 designated handicap accessible parking spaces including 20 "van accessible" parking spaces. According to ADA guidelines, 57 accessible parking space including five "van accessible" parking spaces are required at the Property in appropriate locations. The accessible parking spaces provided at the Property appeared to be generally conforming to ADA requirements.

Common toilet facilities in at the Property appeared to be generally conforming to ADA requirements.

The elevators at the Property appeared to be generally conforming to ADA requirements with the exception of missing infra-red cab door reopening device at the west elevator of the 8407 Building.

Recommendations: No needs over the term were identified.

The installation of handrailing at the north side of the ramp at the north side of the 8403 Building is recommended as an immediate need.

Due to the potential liability, the installation of an infra-red cab door reopening device at the 8407 Building west elevator is recommended as an immediate repair.

No short term needs were identified.

4.3 Microbial Visual Survey

Observations: A microbial visual survey was not included in the scope of work for this Property.

Recommendations: Not applicable.

4.4 Furnishings, Fixtures and Equipment

Observations: In accordance with the scope of work, furniture, fixtures and equipment (FFE) costs have not been assessed for this Property and are not included within this report.

Recommendations: Not applicable.

4.5 Seismic Assessment

Observations: According to Figure No. 16-2, the "Seismic Zone Map of the United States", in the 1997 Uniform Building Code, the Property is located within Zone 4, defined as an area of high probability of damaging ground motion. As such, according to ATC's scope of work, a Scenario Expected Loss (SEL) report was included as part of the scope of work for this project and is included as Appendix C. Based on our field observations and using the damage prediction method developed by Thiel and Zsutty, in addition to ASTM E2026-07, and ground fault, seismicity and acceleration data from EQFAULT, EQSEARCH and FRISKSP software, the Scenario Expected Loss (SEL) for Corporate Pointe at West Hills in the Los Angeles, California ranges from 11 to 17 percent (for DBE 475-year event) and from 15 to 23 percent (for MCE 2,375-year event) and the Scenario Upper Loss (SUL) ranges from 15 to 20 percent (for DBE 475-year event) and from 20 to 27 percent (for MCE 2,375-year event) of the replacement cost of the buildings.

Recommendations: No needs over the term were identified; no action is currently recommended.

No immediate or short term needs were identified.

4.6 FEMA Wind Zone

Presentation of FEMA Wind Zone information was not included in the scope of work for this Property.

5.0 Recommendations and Preliminary Opinions of Cost

5.1 Opinions of Cost

The opinions of cost presented are for the repair/replacement of readily visible materials and building system defects that might significantly affect the value of the Property during the loan period. These opinions are based on approximate quantities and values. They do not constitute a warranty that all items, which may require repair or replacement, are included.

Estimated cost opinions presented in this report are from a combination of sources. The primary sources are from Means Repair and Remodeling Cost Data and Means Construction Cost Data; past invoices or bid documents provided by Property management; as well as ATC's experience with costs for similar projects and city cost indexes.

The opinions of cost do not address the cost impact of the possible presence of lead-based paint (LBP), asbestos-containing materials (ACM) or other environmentally regulated materials on renovation or demolition activities. Replacement and repair opinions of cost are based on approximate quantities. Information furnished by Property personnel or the property management, if presented, is assumed by ATC to be reliable. A detailed inventory of quantities for cost estimating is not a part of the scope of this Report.

Actual costs may vary depending on such matters as type and design of remedy; quality of materials and installation; manufacturer of the equipment or system selected; field conditions; whether a physical deficiency is repaired or replaced in whole; phasing of the work; quality of the contractor(s); project management exercised; and the availability of time to thoroughly solicit competitive pricing. In view of these limitations, the costs presented herein should be considered "order of magnitude" and used for budgeting purposes only. Detailed design and contractor bidding is recommended to determine actual cost.

These opinions should not be interpreted as a bid or offer to perform the work. All costs are stated in present value. The recommendations and opinions of cost provided herein are based on the understanding that the facility will continue operating in its present occupancy classification and general quality level, unless otherwise stated.

5.2 Immediate Needs

Immediate Needs are those repairs that are beyond the scope of regular maintenance, and should be performed at this time. Work that requires action based on its being (i) an existing or potentially significant unsafe condition, (ii) material physical deficiency, (iii) poor or deteriorated condition of a critical element or system, (iv) significant building code violation, or (v) a condition that if left "as is," with an extensive delay in remedying it, has the potential to result in or contribute to a critical element or system failure and will probably result in a significant escalation of its remedial costs. Based on our property observations, any immediate need items identified are listed in the table in Appendix A of this report.

5.3 Short-Term Needs

Short-Term Needs are those costs to remedy physical deficiencies, such as deferred maintenance, which may not warrant immediate attention, but require repairs or replacements that should be undertaken on a priority basis in addition to routine preventative maintenance. The time frame for such repairs is generally within one year.

5.4 Physical Needs Over the Term

Physical Needs Over the Term are items needing repair or replacement that are beyond the scope of regular maintenance, but are necessary to maintain the overall condition of the Property. These include major recurring probable expenditures, which are neither commonly classified as an operation, nor maintenance expense. Physical Needs Over the Term are reasonably predictable both in terms of frequency and cost; however, they may also include components or systems that have an indeterminable life, but nonetheless have a potential liability for failure within an estimated time period. These are items of work that are beyond the scope of regular maintenance and which we feel are necessary to maintain the overall condition of the

Property over the evaluation period, from the date of our investigation. These items are listed in the table in Appendix A of this report.

6.0 Limitations and Qualifications

Our services described herein were performed and our findings and recommendations were prepared in accordance with generally accepted consulting practices for this geographical area at this time. No warranties are provided, either expressed or implied. While ATC has made every reasonable effort to properly evaluate the Property conditions within the contracted scope of services, it should be recognized that this investigation is limited in several important respects including, but not limited to, the following:

Our findings and conclusions were based primarily on the visual appearance of the Property at the time of our Property visit and on comparative judgments with similar properties in the ATC Property assessor's experience. Our Property observations included only areas that were readily accessible to our representative without opening or dismantling any secured components or areas. The scope did not include invasive investigation, component sampling, laboratory analysis, an environmental site assessment, or engineering evaluations of structural, mechanical, electrical, or other systems with related calculations and review of design assumptions. Note that since destructive testing was not within the scope of services of this report, ATC was not able to visually evaluate if aluminum branch wiring, fire retardant treated plywood, phenolic foam insulation or polybutylene piping exists within the concealed areas.

Some of our conclusions were partially based on information provided by others including representatives of the client, the Property owner, the Property manager, contractors servicing the Property, and local building code officials. For the purposes of this report, we have assumed this information to be complete and correct unless otherwise noted. ATC assumes no liability for incorrect information provided by others.

Our opinions of cost represent a preliminary opinion only and are neither a quote nor a warranty or representation as to the actual costs that may be incurred. These estimates are based on typical cost data that may not fully characterize the scope of the Property conditions and are further limited by possible future changes in technology, by regulatory requirements, by Property location, and by contingencies that cannot reasonably be discovered until after commencement of on-site construction activities. ATC shall not be liable to the Client nor any other party for any costs or expenses that may be incurred in excess of these estimates, for any losses that may be incurred as a result of these estimates being different from the actual costs, nor for any damages whatsoever in connection with these estimates.

This report is intended for the use of and may be relied upon only by the entities identified in the Statement of Results on the first page following the Table of Contents at the beginning of this report. The scope-of-services performed in execution of this investigation may not be appropriate to satisfy the needs of other users, and any use or re-use of this document or its findings, conclusions, or recommendations is at the risk of said user. ATC is not responsible for conclusions, opinions, or recommendations made by others based on this information.

Appendix A:

Immediate Needs and Physical Needs Over the Term Table

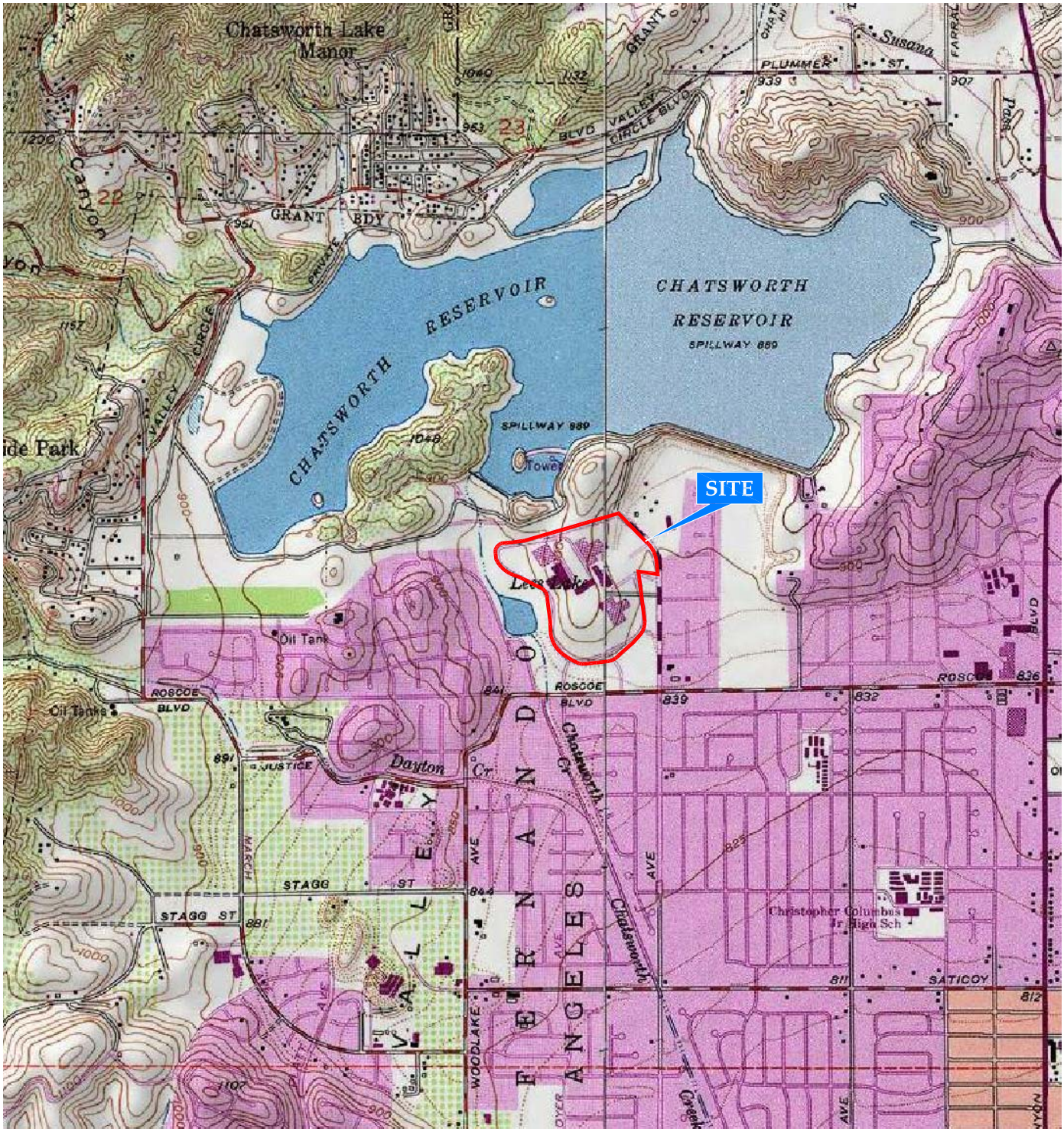
Component	AVE. EUL	EFF AGE	RUL	Quantity	Unit	Unit Cost	Immediate Need	Short Term Need	Yr. 1	Yr. 2	Yr. 3	Yr. 4	Yr. 5	Yr. 6	Yr. 7	Year 1-7 Totals
3.3.4 PAVING, CURBING AND PARKING																
Asphalt repair allowance including removal and replacement of alligatoring and sealing of linear cracks	-	-	-	1	LS	$100,000			$100,000							$100,000
Asphalt pavement sealcoat and striping allowance	5	var	var	910,000	SF	$0.15			$19,500	$19,500	$19,500	$19,500	$19,500	$19,500	$19,500	$136,500
Concrete deck coating	5	1	4	144,000	SF	$1.50						$216,000				$216,000
Asphalt curb machine formed	15	15+	0	425	LF	$5			$2,125							$2,125
Concrete parking space striping	5	1	4	1,057	EA	$15						$15,855				$15,855
3.3.5 LOADING AREAS, DOCKS AND FLATWORK																
Required - Remove and replace cracked and settled concrete sidewalk section at the northwest corner of the 8403 Building	-	-	-	40	SF	$5	$200									
3.6.3 CARPORTS AND GARAGES																
Pressure wash and apply clear masonry sealer at the unpainted CMU walls at the parking structure	-	-	-	1	LS	$10,000			$10,000							$10,000
3.6.4 EXTERIOR FINISHES																
Repair cracks and paint the exteriors of the 8407 Building	8	7	1	1	LS	$33,010			$33,010							$33,010
Repair cracks and elastomeric paint the 8407 Building	-	-	-	1	LS	$200,000			$200,000							$200,000
Repair stucco cracks throughout the 8413 Building	-	-	-	1,500	SF	$3.50	$5,250									
Paint exteriors of the 8413 Building	8	7	1	11,000	SF	$1			$11,000							$11,000
Paint EIFS exteriors of the 8403 Building	10	7	3	17,500	SF	$2					$35,000					$35,000
Paint exteriors of the 8415, 8511 and 8521 Buildings	8	var	var	80,000	SF	$1				$40,000	$40,000					$80,000
3.6.7 EXTERIOR WINDOWS																
Window caulking and glazing gasket replacement allowance	-	-	-	1	LS	$10,000			$10,000		$10,000		$10,000		$10,000	$40,000
3.6.8 ROOFING SYSTEMS																
Recommended - Caulk parapet coping joints and paint coping at the 8501 Building	10	10	0	1	LS	$4,000	$4,000									
Recommended - Replace parapet flashing at the 8511 Building under warranty	-	-	-	1	LS	$0	$0									
3.7.2 DOMESTIC HOT WATER PRODUCTION																
Replace 109 gallon water heater at the 8521 Building	15	10	5	1	EA	$2,200							$2,200			$2,200
Replace 75 gallon water heater at the 8521 Building	15	8	7	1	EA	$1,800									$1,800	$1,800
Replace 30 gallon water heaters at the 8511 Building	15	8	7	3	EA	$1,200									$3,600	$3,600
3.8.1 EQUIPMENT																
HVAC repair and/or replacement allowance	-	-	-	1	LS	$25,000				$25,000	$25,000	$25,000	$25,000	$25,000	$25,000	$150,000
Chiller (400 SF/ton)	20	18	2	600	TON	$900				$540,000						$540,000
Chiller refurbish	10	3	7	2,400	TON	$300									$720,000	$720,000
3.10.1 ELEVATORS																
Modernize 4,000 pound hydraulic elevator at the 8407 Building	25	22	3	1	LS	$50,000					$50,000					$50,000
Modernize hydraulic elevators at the 8413 Building	25	22	3	2	LS	$56,000					$112,000					$112,000

Component	AVE. EUL	EFF AGE	RUL	Quantity	Unit	Unit Cost	Immediate Need	Short Term Need	Yr. 1	Yr. 2	Yr. 3	Yr. 4	Yr. 5	Yr. 6	Yr. 7	Year 1-7 Totals
Modernize 6,000 pound hydraulic freight elevators at the 8501 and 8521 Buildings	25	25+	var	2	LS	$70,000			$140,000							$140,000
Modernize 2,000 pound fhydraulic reight elevator at the 8415 Building	25	25+	var	1	LS	$45,000				$45,000						$45,000
3.12.1 COMMON AREAS																
Allowance to refurbish common areas at the 8407, 8501 and 8521 Buildings	7	var	var	1	LS	$20,000				$20,000	$20,000	$20,000	$20,000	$20,000	$20,000	$120,000
4.2 ACCESSIBILITY TO DISABLED PERSONS																
Required - Install additional handrailing at the handicap accessible ramp at the north side of the 8403 Building	-	-	-	150	LF	$15	$2,250									
Required - Install infra-red cab door reopening device at the 8407 Building west elevator	-	-	-	1	LS	$2,300	$2,300									

						Total Immediate Repair Needs	$14,000									
						Total Short Term Repair Needs		$0								
AVE. EUL - Average Expected Useful Life						Total Estimated Costs, Uninflated	-	-	$525,635	$689,500	$311,500	$296,355	$76,700	$64,500	$799,900	$2,764,090
EFF. AGE - Effective Age (Estimated)						Inflation Factor at 2.50%	-	-	1.000	1.025	1.051	1.077	1.104	1.131	1.160	
RUL - Remaining Useful Life (Estimated)						Total Estimated Costs, Inflated	-	-	$525,635	$706,737	$327,270	$319,142	$84,662	$72,976	$927,639	$2,964,061
EA - Each; Var. - Varies																
SF - Square Feet; LF-Linear Feet						YEARS 1-7 CUMULATIVE TOTAL, INFLATED:	$2,964,061		Gross Floor Area (SF):	902,646		YEARS 1-7 CUMULATIVE TOTAL, UNINFLATED:			$2,764,090	
						Years 1-7 Avg. Cost per SF per Yr., Inflated:	$0.47		# of Yrs.:	7		Years 1-7 Avg. Cost per SF per Yr., Uninflated:			$0.44	

Appendix B:

Property Location and Site Plans



CANOGA PARK, CALIFORNIA QUADRANGLE (PROVISIONAL EDITION 1967)

SCALE
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MILES
1:24,000

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SITE VICINITY MAP

PROPERTY CONDITION ASSESSMENT
CORPORATE POINTE AT WEST HILLS
8401, 8403, 8407, 8411, 8413, 8501, 8511, 8521, 8531
FALLBROOK AVENUE
CANOGA PARK, CALIFORNIA 91304

PROJECT NUMBER: 70.75068.8184	TASK NO.: 52002	FIGURE
REVIEW BY: B. HIETT	DRAWN BY: DAW	1 of 2

VATC ASSOCIATES INC.
25 Cupania Circle
Monterey Park, CA 91755
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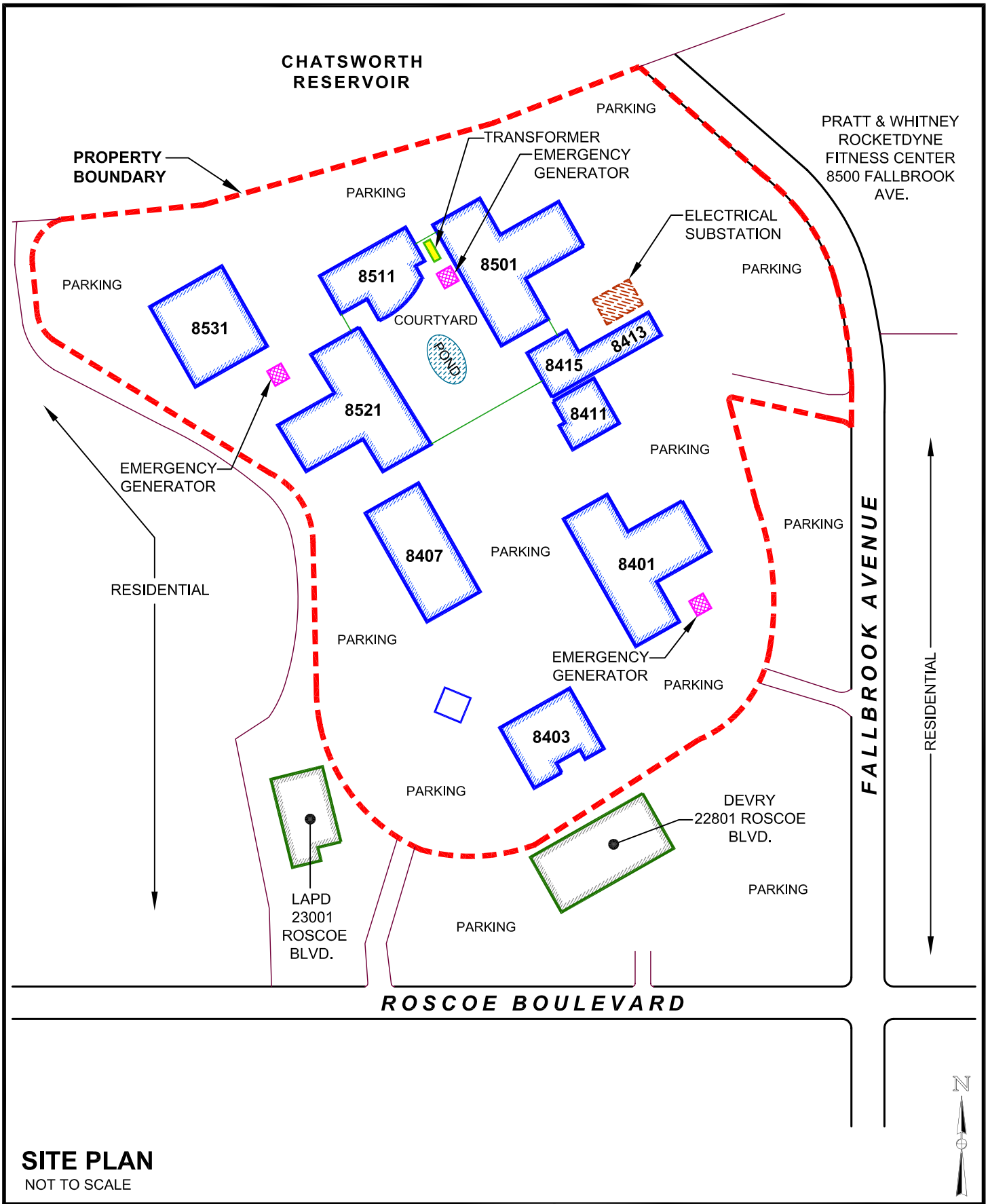


SITE PLAN

NOT TO SCALE

PROPERTY CONDITION ASSESSMENT

CORPORATE POINTE AT WEST HILLS
8401, 8403, 8407, 8411, 8413, 8501, 8511, 8521, 8531
FALLBROOK AVENUE
CANOGA PARK, CALIFORNIA 91304

PROJECT NUMBER: 70.75068.8184	TASK NO.: 52002	FIGURE 2 of 2
REVIEW BY: B. HIETT	DRAWN BY: DAW	

VATC ASSOCIATES INC.
25 Cupania Circle
Monterey Park, CA 91755
Ph: (323) 517-9780 *** Fax: (323) 517-9781

Appendix C:

Supporting Documentation

ATC ASSOCIATES INC.

Property Condition Assessment (PCA)
Pre-Survey Questionnaire

ATC Project No. 70.75068.8184, Task No. TBA

Please email completed questionnaire to hiett52@atc-enviro.com or fax to 323-517-9781. Thank you.

Please complete as much of this questionnaire as possible before our site visit. For those questions not applicable to the subject property, please respond "N/A". If you have any questions about how to answer any of the questions, please call Mr. Barry Hiett at ATC (323-517-9780). If additional pages for response are necessary, please attach them to this form. This document and your written responses will be an exhibit in ATC's Property Condition Report. Thank you very much.

GENERAL RETAIL/OFFICE/INDUSTRIAL PROPERTY DESCRIPTION

Property Name:	Corporate Pointe at West Hills	Address:	8401-8531 Fallbrook, West Hills, CA
Land Acres:	60	County:	Los Angeles
No. of Buildings:	9	Municipal Zoning:	M-1
No. of Tenants:	7	Current Occupancy (%):	91.8
		Tax ID/Parcel #:	52143830

Building Name	Stories	Year Built	Date(s) of Major Renovations	Age of Roof(s)	No. of Tenants	No. of Vacant Units	Leasable SF	Gross SF
Please see attachment #1								
Totals:								

GENERAL INFORMATION

Are there any significant deficiencies at the property? ☒ No, or ☐ Yes, Describe:

Are you in receipt of any notices of code violations from your municipality's building department, zoning and/or planning office, fire department, or health department? ☒ No, or ☐ Yes. If so, please disclose the nature of the violations, attach copies of the violations to this questionnaire and explain what actions are being undertaken to comply:

Are you in receipt of or have you solicited any proposals to perform any repairs or replacement work to the building(s) or any of its components that will exceed an aggregate cost of $2,000? ☐ No, or ☒ Yes, Describe:

See attached list

Any approved capital projects for the current year? ☐ No, or ☒ Yes, (List or attach capital expenditures budget):

see attached list

Any planned or anticipated capital projects for the next 5 years? ☐ No, or ☒ Yes, (List or attach capital expenditures budget):

See Attached list

During the last five years, have any major capital improvements been performed at the property? ☐ No, or ☒ Yes, Describe and provide approximate cost incurred:

See Attached list

Any major damage from fire, flood, storm, etc.? ☒ No, or ☐ Yes, Describe and state whether damage has been repaired:

Has a PCA been previously conducted by a consultant at the property? ☒ No, or ☐ Yes, List company name, report date and location of report:

Any knowledge of water leaks / infiltration and associated damage at the Property? ☐ No, or ☒ Yes, Describe and state whether damage has been repaired: Leaks from heavy rains each year. Each occurance repaired.

Has there been tenant occupant complaints concerning mold or microbial growth? ☐ No, or ☒ Yes, Describe location and state whether mold or microbial growth is still exists: previous tenant, xerox in 8501. mold remediation performed.

- 8511 Countrywide, ground FLOR, small area. Remediation performed.

Has mold or microbial growth ever been observed at the Property? ☐ No, or ☒ Yes, Describe location and state whether mold or microbial growth still exists: See previous Answer.

TOPOGRAPHY & SITE DRAINAGE

To where does the site drain? (Municipal storm sewer system at what street(s), creek, ponds, etc.): ☐ Not known, or describe: to gutters & storm drain to ocean

Are there sumps, dry wells or a lift station on site? ☐ No, or ☐ Yes, Describe quantity & location: Sumps - scattered in various locations, no drywells or lift stations

Any ground fractures, settlement areas or drainage problems (erosion, chronically standing water, etc.)? ☒ No, or ☐ Yes, Describe:

PAVING, CURBING & PARKING

Paving present ☐ No, ☒ Yes; Curbing present, ☐ No, ☒ Yes; Parking present ☐ No, ☒ Yes; Parking structure? ☐ No, ☒ Yes

Sufficient number of parking spaces? ☐ No, ☒ Yes

Responsibility for maintenance?: ☐ Tenant or ☒ Property Owner

Square footage of asphalt paving: ☒ Not known, ☐ N/A, or list majority of property is surface parking lot. See Attached site plan.

Square footage of concrete paving: ☐ Not known, ☐ N/A, or list

Year of last seal coat/restriping: ☒ Not known, ☐ N/A, or list 2007-8511; 2007-Eastdeck;

Quantity (SF) location and cost: ☒ Not known, ☐ N/A. or list 2005-8401 & 8403

Year of last asphalt overlay: ☐ Not known, ☐ N/A, or list 2008-8531; 2007 Central Plt; 2007 by helipad

Quantity (SF), location and cost: ☒ Not known, ☐ N/A, or list

Any abnormal problems in recent years? ☒ No, or ☐ Yes, Describe:

No. of parking spaces: ☒ Not known, ☐ N/A, or list

No. of standard ADA spaces: ☐ Not known, ☐ N/A, or list

No. of "van accessible" ADA spaces: ☐ Not known, ☐ N/A, or list

Is there a sufficient number of parking spaces? ☐ N/A, ☐ No, or ☒ Yes

Many additions & modifications. It didn't have one time.

LOADING AREAS, DOCKS & FLATWORK

Loading areas present, ☐ No, or ☐ Yes; Loading docks present, ☐ No, or ☒ Yes; Flatwork work present, ☒ No, or ☐ Yes; At Central Plant

Location(s) of flatwork: n/A

Responsibility for maintenance?: ☐ Tenant or ☐ Property Owner

No. of loading docks: 1

Location(s) of dock(s): Central Plant

Describe No. and type (manual, electric, hydraulic, etc.) of dock levelers: ☐ Not known, ☒ N/A, or list

Any abnormal problems in recent years? ☒ No, or ☐ Yes, Describe:

LANDSCAPING & APPURTENANCES

Landscaping present ☐ No, or ☒ Yes; Exterior lighting present ☐ No, or ☒ Yes, Exterior signage present ☐ No, or ☒ Yes

Type of irrigation system: ☐ None ☐ Manual or ☒ Automatic

Type of irrigation system piping: ☐ N/A, ☐ PVC, ☐ Steel, ☒ Not known, or ☐ Other, Describe:

Any abnormal irrigation system problems in recent years? ☐ N/A, ☒ No, or ☐ Yes, Describe:

Any exterior lighting problems? ☐ N/A, ☒ No, or ☐ Yes, Describe:

Any landscaping problems? ☐ N/A, ☒ No, or ☐ Yes, Describe:

Site amenities present (i.e. picnic areas, fitness center, etc.) ☐ No, or ☒ Yes, list: Picnic/pond area, food service bldg, Auditorium,

UTILITY PROVIDERS

Water: ☐ Not known, ☐ None, or list Los Angeles Dept Water & Power

Electricity: ☐ Not known, ☐ None, or list Los Angeles Dept Water & Power

Natural Gas: ☐ Not known, ☐ None, or list The Gas Company

Steam: ☐ Not known, ☒ None, or list

Storm Sewer: ☐ Not known, ☐ None, or list

Sanitary Sewer: ☐ Not known, ☐ None, or list Dept. water & Power

Chilled Water: ☐ Not known, ☐ None, or list Central Plant

Which utilities are separately metered (to tenants)? ☐ Water, ☐ Natural Gas, ☒ Electricity, ☐ Other, list

Any special utility systems? ☐No, or ☒Yes, Describe: Vista switches for electrical from City

Any abnormal utility problems in recent years? ☒No, or ☐Yes, Describe:

STRUCTURAL SYSTEMS

Type of foundation: ☐Not known or list Slab - concrete / Type of structural system: ☐Not known or list metal studs, block walls, different in buildings

Any structural problems in recent years? ☒No, or ☐Yes, Describe:

Any current or past basement water leaks / intrusion? ☐No, or ☐Yes, Describe and state whether leakage has been repaired:
2413 basement. Leak repaired

Any seismic upgrades performed? ☒N/A, ☐No, or ☐Yes, Describe location, work performed & date:

EXTERIOR WALLS, DOORS & WINDOWS

Describe the exterior walls of the building(s):
concrete, block wall, EFIS, stucco

When were exteriors last painted? ☐Not known, ☐N/A, or Cost of exterior painting: ☐Not known, ☐N/A, or list
list 2401 = 2006, 2501 = 2006, 2531 = 2008

Any exterior wall, door or window leaks in recent years? ☐No, or ☐Yes, Describe and state whether damage has been repaired:
Periodic leaks from rains in most Buildings. Repaired at time of leak

Has any exterior repair work been performed during the last 5 years? ☐No, or ☐Yes, Describe location, work performed & date:
2501 entire exterior caulked & elastomeric paint. 2401 same

Who is responsible for maintaining and replacing windows and doors?: ☐ Tenant or ☒ Property Owner unless w/in tenant suite

ROOFING SYSTEMS

Type of roofing: ☐Not known, or list See attached General Bldg Info. sheet Age of roofing: ☐Not known, or list

Any current roof or skylight leaks? ☐No, or ☐Yes, Describe, state location:
minor leaks found during rains

Any past roof or skylight leaks? ☐No, or ☐Yes, state location and date of leaks:
minor leaks found during rains

Roof warranty? ☒No, or ☐Yes, Please provide copy of warranty and describe length of term & expiration date:

Cost of recent roof replacement? ☐Not known, ☐N/A, or list Responsibility to maintain/replace roofing?: ☐ Tenant or ☒ Property Owner

Any fire retardant treated plywood roof sheathing at the property? ☒Not known, ☐No, or ☐Yes, State location and condition:

Any phenolic foam roof insulation at the property? ☐Not known, ☒No, or ☐Yes, State location and condition:

PLUMBING SYSTEMS

Plumbing systems present ☐No, or ☒Yes; Domestic hot water provided ☐No, or ☒Yes

Type of water supply lines: ☐Not known, ☒Copper, ☐PVC, ☐Galvanized Steel, ☐Polybutylene, or ☐Other, Describe:

Type of waste (drain) lines: ☐Not known, ☐Copper, ☐PVC, ☒Cast Iron, ☐Polybutylene, ☐ ABS, or ☐Other, Describe:

Is there polybutylene piping at the property? ☒Not known, ☐No, or ☐Yes, State location and history of defects:

Abnormal problems in recent years? ☐No, or ☐Yes, Describe: periodic leaks in old piping. Replacement done at time of leak

Inadequate hot water response time? ☒No, or ☐Yes, Describe:

Inadequate domestic water pressure or drainage problems? ☒No, or ☐Yes, Describe:

Type of water heaters: ☐None, ☒Electric, ☒Natural Gas, ☐Other, Describe: Capacity of water heaters: ☐Not known, ☐N/A, or list 50-80 gallons

Age of water heaters: ☐Not known, Responsibility to maintain/replace water heaters?: ☐ Tenant or ☒ Property Owner
☐N/A, or list 1-10 years - various throughout complex.

Are maintenance and/or complaint logs kept for the plumbing systems? ☐No ☐Yes Landlord & PM programs

Do you have wells ☒ No or ☐ Yes; sump pumps ☐ No or ☒ Yes; septic system ☐ No or ☒ Yes; grease traps ☐ No or ☒ Yes
Describe each item present: L 8531 L 2 cafes

HEATING, VENTILATING AND AIR CONDITIONING (HVAC) SYSTEMS

HVAC systems present: ☐ No, or ☒ Yes

Type of typical HVAC equipment: Double duct & VAV Systems - Central Plant

Who is responsible for maintaining and replacing the HVAC equipment: ☐ Tenant or ☒ Property Owner

Age of most HVAC equipment: central plant = 2-8 yrs Cost of recently replaced HVAC units: central plant renovated in 2006

Cooling equipment (type, manufacturer, age, capacity)

Trane Chillers - 3,000 tons total 2=2 yrs 1=1987

Heating equipment (type, manufacturer, age, capacity)

Ajax Boilers, 1 yrs old @ 1.9 million BTU x 5 Boilers

Ventilation equipment (type, manufacturer, age, capacity)

Air handlers supply/Return fans, capacity varies per Bldg, make varies

Is there an energy management system (EMS) ☐ No, or ☒ Yes, Indicate manufacturer, model, type and equipment controlled:
Siemens Apogee Ems - EP

Is there a centralized system? ☐ No, or ☐ Yes, Indicate: ☐ one, ☒ two, or ☐ four pipe distribution system.
central plant supply & return

When were the chillers' last eddy current tested and who performed the test? : ☐ Not known, ☐ N/A, or list
2 too new still Grayson

Refrigerant type: : ☐ Not known, ☐ N/A, or list R-11 & R123 Stored on site? ☒ No, or ☐ Yes, Location: except in equipment

Any refrigerant conversion plans? ☐ N/A, ☒ No, or ☐ Yes, Describe:

Is the cooling tower water treated? ☐ N/A, ☐ No, or ☒ Yes. If so, by whom? Chem Pro (310) 532-8611

Is the boiler water treated? ☐ N/A, ☐ No, or ☒ Yes. If so, by whom and date of last inspection?

Name and telephone number of HVAC service company: Grayson Inc (626) 961-9640

Any problems with inadequate drainage of condensate water (mold build-up)? ☒ No, or ☐ Yes, Describe location:

Abnormal problems in recent years? HVAC capacity, distribution or equipment deficiencies? ☒ No, or ☐ Yes, Describe:

ELECTRICAL SYSTEMS

Type of main transformer(s): ☒ Pad, ☐ Pole, ☐ Vault, ☐ Other, Describe: in Central Plant

Responsibility for maintaining and replacing main transformer(s)? ☐ Not known, ☐ Tenant or ☒ Property Owner, ☐ Utility, or list

Main supply amperage to building(s): ☐ Not known, or list 4160 volt 1500 - KVA

Property is equipped with: ☒ Circuit Breakers, or ☐ Fuses at panel at disconnects

Is there an emergency generator on site? ☐ No, or ☐ Yes 2 owned by tenants

How frequently is the generator tested? every 2 weeks

How frequently is generator exercised? every 2 weeks

How frequently is automatic transfer switch tested? 1 x per mo.

Generator fuel type: ☒ Diesel, ☐ Natural Gas, ☐ Propane, ☐ Other, Describe:

Generator capacity: ?

The generator supplies emergency power to what systems? Emergency lighting

Who is responsible for maintaining and replacing the emergency generator? ☒ Tenant or ☐ Property Owner,

Main service wiring: ☒ Copper, ☐ Aluminum, ☐ Not known

Interior branch wiring: ☒ Copper, ☐ Aluminum, ☐ Not known

How frequently are infrared inspections conducted? ☐ None, or list Every other year

Name of company performing inspections: Best Infrared / Pro Line

Abnormal electrical system problems in recent years? [X] No, or [ ] Yes, Describe:

VERTICAL TRANSPORTATION SYSTEMS

Elevator systems are present: [ ] No [X] Yes

Escalator systems are present: [X] No [ ] Yes

Who is responsible for maintaining and replacing the vertical transportation systems? [X] Tenant or [X] Property Owner Other Bldgs

Abnormal elevator problems in recent years? [ ] No, or [X] Yes, Describe: 8401 8511 Oil coolers installed to do excessive usage & Elev. malfunction

No. and capacity of passenger elevator(s): [ ] None, or list
8401 = 3, 8407 = 2, 8413 = 2, 8501 = 2, 8521 = 2, 8531 = 2

No. and capacity of freight elevator(s): [ ] None, or list
8401 = 1, 8501 = 1, 8521 = 1

Type of elevator(s): [X] Hydraulic, [ ] Overhead Traction, [ ] Other, Describe:

Elevator manufacturer: Schindler - most

Date of most recent state/city inspection: 10/2008

Elevator equipped with "fireman's" recall? [ ] No [X] Yes

Elevator age: See Attachment #1 Bldg Age + 8401 = 3 new elevators 2006

Is there a full-service contract in place? [ ] No [X] Yes

Elevator service/inspection frequency: [ ] Weekly, [X] Monthly, [ ] Quarterly [ ] As-Needed, [ ] Other, Describe: & when needed

Elevator maintenance contractor contact name and telephone number? Schindler (818) 336-3079

No. and location of escalators: [X] None, or list

Escalator manufacturer?

Date of most recent state/city inspection: ~~10/2007~~

Escalator age?

Is there a full-service contract in place? [ ] No [ ] Yes

Escalator service/inspection frequency: [ ] Weekly, [ ] Monthly, [ ] Quarterly [ ] As-Needed, [ ] Other, Describe:

Abnormal escalator problems in recent years? [ ] No, or [ ] Yes, Describe:

LIFE SAFETY AND FIRE PROTECTION SYSTEMS

Type of fire sprinkler systems: [ ] None, [X] Wet, [ ] Dry, [ ] Other, Describe: Some Tenants have pre-actions

Any fire sprinkler heads at the property subject to recalls? [X] No, or [ ] Yes, Describe:

Date of last 5-year sprinkler test:

5-year test inspection company:

Any fire sprinkler problems in recent years? [X] No, or [ ] Yes, Describe:

Name and telephone number of fire protection service company: Pyro-Comm (714) 902-8000

Is there a fire alarm throughout building(s)? [ ] No, or [X] Yes, Last tested: 11/2007

Is there a smoke evacuation system? [X] No, or [ ] Yes 8511 only Is there a stairwell pressurization system? [X] No, or [ ] Yes

Are there smoke detectors throughout building(s)? [ ] No, or [X] Yes, Last inspected:

Power for the smoke detectors throughout building(s): [ ] N/A, [ ] Battery, [X] Hardwired, or [ ] Both.

Are there fire extinguishers throughout building(s)? [ ] No, or [X] Yes, Last inspected: every November

Who is responsible for maintaining and replacing the fire suppression systems? [X] Tenant or [ ] Property Owner

The property features: [ ] None, [X] Fire Hoses, [X] Pull Boxes, [X] Lighted Exit Signs, [X] Audible Alarms, [X] Visible Alarms, [ ] Emergency Lighting, [X] Halon Systems, [ ] Chemical/Ansul Systems, [X] Fire Alarm Control Panel, [X] Other, Describe: L Cafe L Preaction in Tenants

Any special fire suppression systems at the property: [ ] None, or [ ] Yes, Describe:
8407 - Wellpoint & Countrywide 8501

Does the property feature a security alarm system? [ ] No, or [X] Yes, Describe:
L Tenants do - not property

Who is responsible for maintaining and replacing the security alarm systems? ☒ Tenant or ☐ Property Owner

INTERIOR FINISHES

Who is responsible for maintaining and replacing the interior finishes? ☒ Tenant or ☒ Property Owner - common areas in suites

For the common area interiors, what is your budget for repainting and replacement of finishes (carpet, vinyl, etc.)? ☐ None, ☐ N/A or describe: varies year to year

What is the age of the majority of finishes? ☐ Not known, or describe: varies by building

HANDICAP ACCESSIBILITY

Does the property generally comply with Americans with Disabilities Act (ADA) guidelines? ☐ No, or ☒ Yes. If no, Describe:

Has an ADA survey previously been completed for this property? ☒ Not known, ☐ No, or ☐ Yes, Please provide copy to ATC.

Have any ADA improvements been made to the property? ☐ Not known , ☐ No, or ☒ Yes, Describe: T.I's built to current ADA standards

Does a Barrier Removal Plan exist for the property? ☒ Not known, ☐ No, or ☐ Yes, Please provide copy to ATC.

Has the Barrier Removal Plan been reviewed/approved by an arms-length third party such as an engineering firm, architectural firm, building department, or other agency, etc.? ☒ Not known, ☐ N/A ☐ No, or ☐ Yes, Describe:

Have you received any accessibility complaints? ☒ No, or ☐ Yes, Describe:

Is any litigation pending related to ADA issues? ☒ No, or ☐ Yes, Describe:

QUESTIONNAIRE PREPARATION INFORMATION

Name: Lani Life Title: Real Estate Manager

Company: CB Richard Ellis Years with Property: 4

To the best of my knowledge, the statements contained in this document and the exhibits attached hereto are true and correct.

Signed: Lani Life Date: 8/19/08

Please have the following documents/drawings available for our review at the time of our site visit:

- ⇒ Past and Future Capital Budgets, Floor Plans, Site Plan, Construction Documents or Soils Report
- ⇒ ALTA/ACSM Land Title Survey
- ⇒ Certificates of Occupancy, Copies of Building Permits, Building and Fire Department violation schedules/notices, etc.
- ⇒ Fire protection and backflow inspection records
- ⇒ Elevator Maintenance Logs and Most Recent Inspection Certificate
- ⇒ Maintenance/Complaint Logs and Warranties (Roofing, Mechanical, Elevators, Fire Protection, etc.)
- ⇒ Tenant list
- ⇒ Mold Remediation Documents, previous engineering assessment reports
- ⇒ Provide means of access to roof; if none available, notify ATC prior to site visit

FORM CR-1

ARSON INVESTIGATION SECTION
LOS ANGELES FIRE DEPARTMENT

LOS ANGELES CITY FIRE DE
ARSON INVESTIGATION S
FIRE PREVENTION RECORDS

LOS ANGELES FIRE DEPARTMENT
ARSON INVESTIGATION SECTION
1700 STADIUM WAY, ROOM 109
LOS ANGELES, CALIFORNIA 90012

OFFICE (213) 485-6095
OFFICE (213) 485 6175
FAX (213) 485 5237

DATE: 8 / 20 / 08

NAME OF REQUESTOR (please print): JOSE J. REZA

REPRESENTING (Business Name & Address): ATC ASSOCIATES

25 CUPANA CIRCLE, MONTEREY PARK, CA

LIST SUBJECT ADDRESS: 8401, 8403, 8407, 8411, 8413, 8501, 8511, 8521 AND 8531 FALLBROOK AVE, LOS ANGELES, CA

REASON FOR REQUEST: OUTSTANDING FIRE CODE VIOLATIONS ON FILE IF ANY. PLEASE RESPOND W/ LETTER.

REQUESTOR'S SIGNATURE: _____

Office Use Only

_____ *FOR COPIES* _____ *FOR REVIEW*

PAID BY: _____ *CHECK (#*_____*)* _____ *MONEY ORDER* _____ *CASH*

FIRE STATION: _____

RECORDS ORDERED: _____ */ SPOKE WITH:* _____

RECORDS RECEIVED: _____ */ REQUEST COMPLETED:* _____

EXHIBIT "B" REQUEST FOR SERVICES

#	43694

CBRE
CB RICHARD ELLIS

Date: **July 15, 2008**

BILL TO:
MEPT West Hills, LLC
C/O CB Richard Ellis
1400 S. Douglass Road, Suite 150
Anaheim, CA 92806

CONTRACTOR:
Duggan and Associates
5804 W. Adams Blvd.
Los Angeles, CA 90016
CONTACT: Stephanie Alcocer
PHONE # : 323-965-1502
FAX # : 323-965-1506
E-MAIL: stephanie@duggan-associates.com

JOB LOCATION:
CB Richard Ellis
8521 Fallbrook Ave. Suite 150
West Hills, CA 91304
REQUESTED BY: Lani Life
PHONE: 818-610-8400
FAX: 818-610-8405

ITEM	DESCRIPTION	UNIT PRICE			AMOUNT
	Paint Exterior: 8531 Fallbrook, West Hills.				
1	Pressure wash 39,040 sq. feet of exterior walls prior to paint.				
2	Patch and repair any holes, dents, cracks, or voids.				
3	Spot prime any patched areas.				
4	Prep and paint 39,040 sq. feet of concrete exterior walls including				
	penthouse at roof using a 100% acrylic finish. Color to be determined.				
5	Prep and paint 3 metal double doors and frames at roof level.				
6	Prep and paint 6 metal exposed vents at roof level.				
7	Prep and paint 1 metal ladder at roof level.				

PROJECT #	**166**	**SUBTOTAL**		
ACCOUNT #	**16611**			
COST CODE	**1650-000**	**TAX**	**%**	$ -
		GRAND TOTAL		$ 28,210.00

Executed by Contractor:
By:
Print Name:
Signature:
Title:

Executed for Owner: MEPT West Hills, LLC
By Manager: CB Richard Ellis, Inc.
By: Lani Life
Signature: Pam Hung, Director
Title: Property Manager

EXHIBIT "B" REQUEST FOR SERVICES

#	43745

Date: **August 22, 2008**

BILL TO:
MEPT West Hills, LLC
C/O CB Richard Ellis
P.O. Box 2093
Warren, MI 48090-2093

CONTRACTOR:
Duggan & Associates
5804 W. Adams Blvd.
Los Angeles, CA 90016
CONTACT: Stephanie Alcocer
PHONE # : 323-965-1502
FAX # : 323-965-1506
E-MAIL ADDRESS: stephanie@duggan-associates.com

JOB LOCATION:
CB Richard Ellis
8531 Fallbrook Ave.
West Hills, CA 91304
REQUESTED BY: Lani Life
PHONE: 818-610-8400
FAX: 818-610-8405

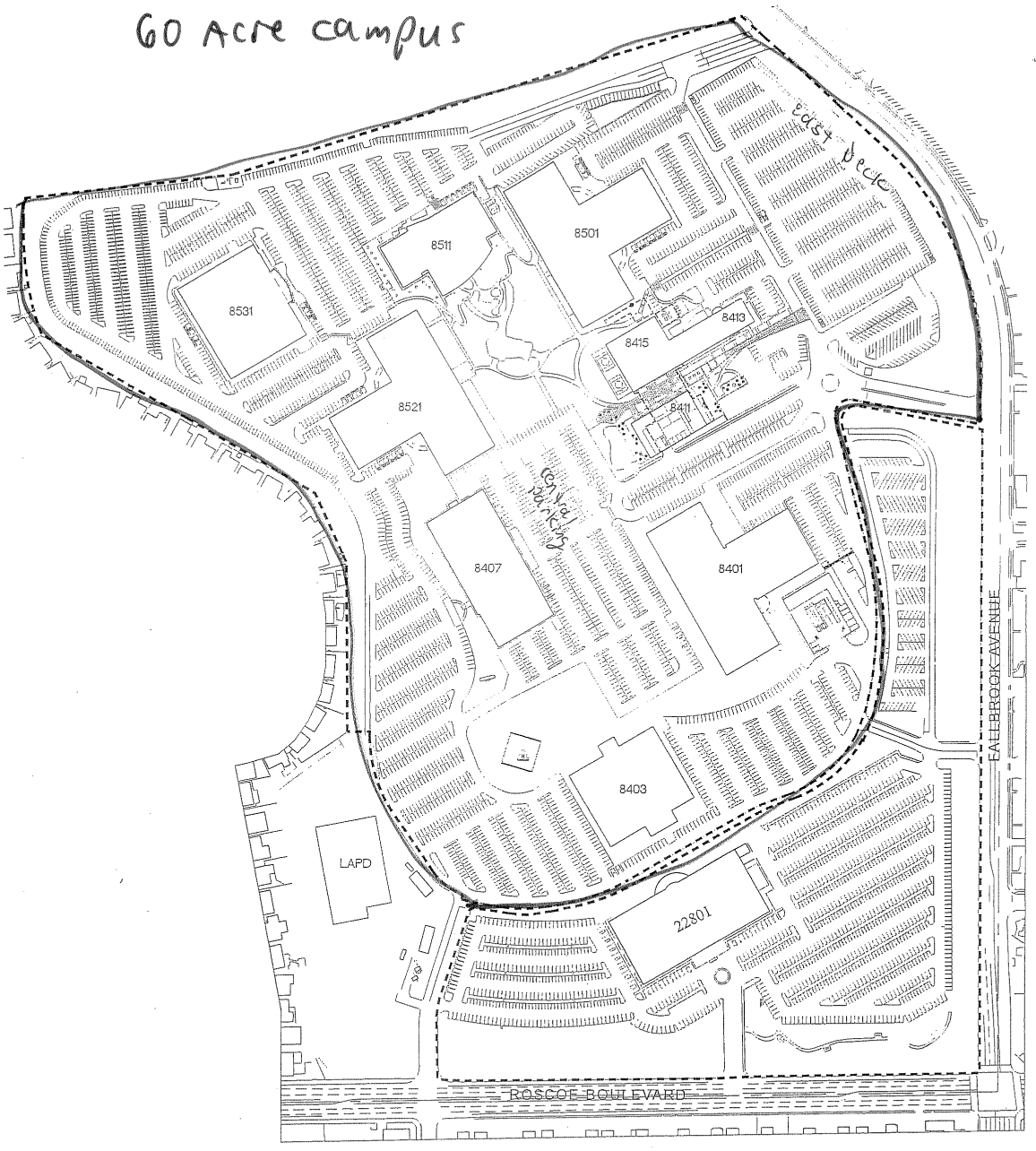
ITEM	DESCRIPTION	UNIT PRICE			AMOUNT
	Project #41135 Elastomeric Patching for 8531 Fallbrook Ave.				
1	Patch extensive cracking throughout building using				$ 4,800.00
	an elastomeric.				

PROJECT # 166 **SUBTOTAL**
ACCOUNT # 16611
COST CODE 1650-000 **TAX** ____ %
GRAND TOTAL $ 4,800.00

Executed by Contractor:
By:
Print Name:
Signature:
Title:

Executed for Owner: MEPT West Hills, LLC
By Manager: CB Richard Ellis, Inc.
By: Lani Life
Signature:
Title: Property Manager

Corporate Pointe at West Hills





SCENARIO EXPECTED LOSS
OF

CORPORATE POINTE AT WEST HILLS
ASSET NO. 166
8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 AND 8531
FALLBROOK AVENUE
LOS ANGELES, CALIFORNIA 91304

ATC PROJECT NO. 70.75068.8184

SEPTEMBER 9, 2008

Prepared by:

ATC Associates Inc.
25 Cupania Circle
Monterey Park, California 91755
Phone: 323-517-9661
Fax: 323-517-9781

Prepared for:

Mr. Kevin Wenzel
MetLife Real Estate Investments
10 Park Avenue/P.O. Box 1902
Morristown, New Jersey 07962

TABLE OF CONTENTS

CERTIFICATION OF RESULTS ..... **II**

1.0 EXECUTIVE SUMMARY **1**

1.1 General Description 1
1.2 Findings and Conclusions 3

2.0 PURPOSE AND SURVEY APPROACH **5**

2.1 Purpose 5
2.2 Survey Approach 5

3.0 SITE CHARACTERISTICS **8**

3.1 Location 8
3.2 Site Characteristics 8
3.3 Property Improvements 8
3.4 Current Use of the Property 10
3.5 Soil Type and Reference 10
3.6 Liquefaction Potential 11
3.7 Landslide Potential 11
3.8 Ground Fault Rupture Potential 11

4.0 BUILDING CHARACTERISTICS AND SITE OBSERVATIONS **12**

5.0 SEISMIC CHARACTERISTICS OF THE AREA **17**

5.1 Site Seismicity 17
5.2 Local Faults 17

6.0 SITE SEISMICITY AND PROBABLE MAXIMUM LOSS **20**

6.1 Earthquake Damage Estimate 20
6.2 Loss of Use of the Complex 22

7.0 LOSS ASSESSMENT LIMITATIONS **23**

7.1 Primary Structural Systems 23
7.2 Primary Architectural Systems 23

8.0 LIMITATIONS AND QUALIFICATIONS **25**

9.0 APPENDICES **26**

Appendix A - Modified Mercalli Intensity Scale
Appendix B - Interpretation of Earthquake Damage Ratios

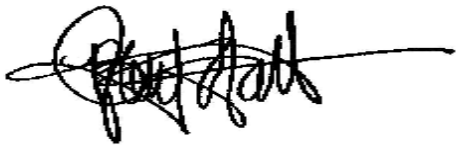
CERTIFICATION OF RESULTS

ATC Associates Inc. (ATC) has performed a Scenario Expected Loss (SEL) study of the Corporate Pointe at West Hills, located at 8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue, in Los Angeles, California, hereinafter known as the Property. The scope of the SEL was consistent with MetLife Structural Review (Report) Guidelines and Criteria for SEL Analysis. This report includes ATC's findings, conclusions, and supporting documentation.

This report has been prepared for the exclusive use of MetLife Real Estate Investment. The report dated September 9, 2008 is for the use and benefit of, and may be relied upon, subject to the terms and conditions of our contract with MetLife Real Estate Investment, or any of its affiliates; and the agents and advisors, initial and subsequent holders from time to time of any debt and/or debt securities secured, directly or indirectly, by any participation interest in any such debt; any indenture trustee, servicer, or other agent acting on behalf of such holders of such debt and/or debt securities; any rating agencies; and the institutional provider(s) from time to time of any liquidity facility or credit support for such financing, and their successors and assigns. ATC Associates Inc. (ATC) acknowledges that MetLife Real Estate Investment, may rely on this report in consideration of financing for the Site. Photocopying of this document, in part or in whole, by parties other than those designated by MetLife Real Estate Investment, or use of this document for purposes other than is intended, is prohibited.

Respectfully submitted on September 9, 2008.

ATC ASSOCIATES INC.



Barry D. Hiett
Senior Project Manager



Peter Chang, P.E., S.E.
Senior Structural Engineer

1.0 EXECUTIVE SUMMARY

1.1 General Description

The Property is an office facility comprised of 11 buildings. The buildings at the Property are named/designated as follows: 8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521, 8531 and the 22801 Buildings, by their numerical address. However, based on our scope of services and the instructions of the designated site contact, only 10 of the 11 buildings are included in this report. The 10 buildings included in ATC's scope of work are identified as the 8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Buildings. The remaining building at the Property, 22801 Building and associated parking areas at the south side of the Property, were not included in ATC's scope of work.

The Property is situated on eight irregular-shaped land parcels and is considered to be of generally good quality construction. The Property is located to the northwest of the northwest corner of Fallbrook Avenue and Roscoe Boulevard. The street address of the Corporate Pointe at West Hills is 8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue.

The three story 8401 Building is generally "T"-shaped. The 8401 Building contains one commercial office/lab tenant (Unilab Corporation) and a wireless provider (Pacific Bell Wireless, LLC) on the building roof. The building was reportedly originally constructed in 1959 with renovations in 1999 and 2005. Detail information regarding the renovations was not provided but appears to be similar to other buildings and includes exterior renovations and possible seismic strengthening in 1999 and roof replacement in 2005. The ground floor of the building is partially below grade at the west side of the building due to the topography of the site.

The one story 8403 Building is generally rectangular-shaped. The 8403 Building contains one lab tenant (Unilab Corporation). The building was reportedly originally constructed in 1984 with renovations in 1999 and 2005. Detail information regarding the renovations was not provided but appears to consist of exterior renovations in 1999.

The two story 8407 Building is generally rectangular-shaped. The 8407 Building contains two commercial office tenants (Blue Cross of California and Centex Title & Ancillary Services) and one vacant space on the second floor totalling approximately 8,246 square feet. The building was reportedly originally constructed in 1986, with renovations in 1999. Detail information regarding the renovation was not provided but appears to consit of exterior renovations. The ground floor of the building is partially below grade at the east side of the building due to the topography of the site.

The one story 8411 Building is generally rectangular-shaped. The 8411 Building contains one food service tenant (Sodexo Marriott Services). The building was originally constructed in 1959, with renovations including reconstruction of the building and surrounding areas currently being performed and scheduled for completion by the end of 2008, although original date of substantial completion was scheduled no later than April 18, 2008 and final completion no later than May 18, 2008 according to the signed contract. Access to the building and surrounding areas was not available during ATC's site visit as the construction company was no longer present. Due to the current construction at the 8411 Building, a temporary leased cafe structure and bungalow is located between the 8415 and 8501 Buildings that is being utilized by the tenant.

The two story 8413 Building with full basement is generally rectangular-shaped and is contiguous and to the east of the 8415 Building. The 8413 Building is currently vacant. The building features an auditorium. The building was reportedly originally constructed in 1986, with renovations in 1999. Detail information regarding the renovation was not provided but appears to consit of exterior renovations.

The one story 8415 Building is generally square-shaped and is contiguous and to the west of the 8413 Building. The 8415 Building contains the Property central plant. The building was reportedly originally constructed in 1959.

The three story 8501 Building is generally "T"-shaped. The 8501 Building contains two commercial office tenants (Countrywide Home Loans, Inc. and Software Dynamics, Inc.), one vacant space totaling approximately 17,177 square feet on the ground floor and a wireless provider (New Cingular Wireless PCS) on the building roof. The building was reportedly originally constructed in 1959, with renovations in 1998/1999. According to available information, the renovations included reconstruction of the exterior walls including installing metal studs set outside the exterior walls and finished with plaster and set in windows, replacement of the building roof, and seismic strengthening the building by adding reinforcement and several inches of pneumatically placed concrete against one wall face and new boundary elements at the ends of the existing shear walls. The ground floor of the building is partially below grade at the west and northwest sides of the building due to the topography of the site.

The four story 8511 Building is irregular-shaped. The 8511 Building contains one primary tenant (Sterling Software) who has sub-leased portions of the building. The building was originally constructed in 2000. The building has a large balcony with canopy at the north side of the fourth floor, two small balconies on the third and fourth floors at the south side of the building, auditorium and employee cafe on the ground floor.

The three story 8521 Building is generally "T"-shaped. The 8521 Building contains two commercial office tenants (Countrywide Home Loans, Inc. and The Boeing Company) and three vacant spaces totaling approximately 16,906 square feet on the ground floor. The building was reportedly originally constructed in 1959, with renovations in 1998/1999. According to available information, the renovations included reconstruction of the exterior walls including installing metal studs set outside the exterior walls and finished with plaster and set in windows, replacement of the building roof, and seismic strengthening the building by adding reinforcement and several inches of pneumatically placed concrete against one wall face and new boundary elements at the ends of the existing shear walls. The ground floor of the building is partially below grade at the east side of the building due to the topography of the site.

The two story 8531 Building is generally rectangular-shaped. The 8531 Building contains one research and development (R&D) tenant (The Boeing Company). The building was reportedly originally constructed in 1979, with renovations in 1998/1999. According to available information, the renovations included renovations to the exteriors, replacement of the building roof, and seismic strengthening the building by adding reinforcement and several inches of pneumatically placed concrete against one wall face and new boundary elements at the ends of the existing shear walls. The ground floor of the building is partially below grade at the east side of the building due to the topography of the site.

Parking for the Property is provided by asphalt pavement at grade and by a two-level parking garage. The balance of the Property consists primarily of paved parking areas, service/drive lanes, pedestrian walkways, landscaping, water feature with flowing creeks and small lake and surrounding seating areas and a service yard adjacent to the 8401 Building for Unilab Corporation.

The Property is located in Seismic Zone 4 based on the "Seismic Zone Map of the United States", Figure No. 16-2 in the 1997 Uniform Building Code. This area is defined as an area with a high probability of damaging ground motion. The Property is not located within an Earthquake Fault Zone as defined in the Alquist-Priolo Earthquake Fault Zoning Act.

1.2 Findings and Conclusions

Based on our field observations on August 28, 2008 and using the damage prediction method developed by Thiel and Zsutty and ground fault, seismicity and acceleration data from EQFAULT, EQSEARCH and FRISKSP software, the SEL for the Corporate Pointe at West Hills in Los Angeles, California range from 11 percent (for a 475-year return period) to 27 percent (for a 2,375-year return period) of the replacement cost of the buildings. The Modified Mercalli Intensity at the Property is X based on the nearest active fault, Northridge (E. Oak Ridge), less than one mile from the Property.

RESULTS SUMMARY TABLES

[1a] SITE SEISMICITY per evaluation of Scenario Loss (SL):

SCENARIO LOSS (SL)				
Scenario/ Ground Motion	**Select max. MMI (modified Mercalli earthquake intensity)**	**Corresponding PGA (peak ground acceleration values)**	**SEL - (scenario expected loss) Mean or 50% damageability**	**SUL - (scenario upper loss) 90% damageability**
BLDG 8401 DBE - 475 year event	X	0.54	16%	19%
MCE-2,375 year event	XI	0.89	22%	25%
BLDG 8403 DBE - 475 year event	X	0.54	15%	18%
MCE-2,375 year event	XI	0.89	20%	23%
BLDG 8407 DBE - 475 year event	X	0.54	17%	20%
MCE-2,375 year event	XI	0.89	23%	27%
BLDG 8411 DBE - 475 year event	X	0.54	16%	19%
MCE-2,375 year event	XI	0.89	22%	25%
BLDG 8413 DBE - 475 year event	X	0.54	17%	20%
MCE-2,375 year event	XI	0.89	23%	27%
BLDG 8415 DBE - 475 year event	X	0.54	16%	19%
MCE-2,375 year event	XI	0.89	22%	25%
BLDG 8501 DBE - 475 year event	X	0.54	16%	19%
MCE-2,375 year event	XI	0.89	22%	25%
BLDG 8511 DBE - 475 year event	X	0.54	11%	15%
MCE-2,375 year event	XI	0.89	15%	20%

SCENARIO LOSS (SL)				
BLDG 8521 DBE - 475 year event	X	0.54	16%	19%
MCE-2,375 year event	XI	0.89	22%	25%
BLDG 8531 DBE - 475 year event	X	0.54	15%	18%
MCE-2,375 year event	XI	0.89	21%	24%

SITE STABILITY:

		Very Low	Low	Medium	High	Very High
[3]	**LIQUEFACTION POTENTIAL**			X		
[4]	**SURFACE FAULT RUPTURE POTENTIAL**		X			
[5]	**LAND SLIDE POTENTIAL**		X			

[6] **SOIL PROFILE** Soil Type S_D – Defined in 1997 UBC as Soft Soil Profile

		Low (< 2 mos)	Medium (2 to 6 mos)	High (>6 mos)
[10]	**LOSS OF USE:**		X	

[*n*] refers to numbering of items above

1. Site Seismicity – determine the estimated Modified Mercalli Intensity (MMI) level for the site due to the given probabilistic earthquake scenarios of 10% probability of exceedance in 50 years (return period of 475 years – Design Basis Earthquake, DBE) and 2% probability of exceedance in 50 years (return period of 2,375 years – Maximum Capable Earthquake, MCE) unless other seismic scenarios are specifically requested for individual property reviews.. Alternate scenarios should be made available, at the option of MetLife, for substitution or addition in the report.
2. Overview of zone and faults associated with or near the site that are predicted to affect the building.
3. Liquefaction potential as Very Low, Low, Medium, High or Very High.
4. Surface fault rupture potential as Very Low, Low, Medium, High or Very High.
5. Landsliding potential as Very Low, Low, Medium, High or Very High.
6. Soil profile as defined by the latest edition of the Uniform Building Code.
7. Summary of site seismic hazards.
8. Earthquake physical damage estimate for the designated MMI levels.
9. Summary of seismic risk assessment in the tables below.
10. An estimate of the Loss of Use of the building as Low (less than 2 months), Medium (2 to 6 months) and High (greater than 6 months).

2.0 PURPOSE AND SURVEY APPROACH

2.1 Purpose

The purpose of this Scenario Expected Loss (SEL) report is to provide the client with a seismic loss assessment for an asset based on the interpretation of statistical calculations, and the structural and seismic condition of the Property as ascertained by field observations and available documentation. Our result is not intended to serve as a guarantee of how the Property will perform in a seismic occurrence. Rather, it is a review, based upon statistical and historical data, which is intended to suggest how the Property will be affected by a probable seismic event.

In the preparation of this report, ATC has provided a professional opinion regarding the damage to be expected as a result of projected earthquake ground motion based solely on the observed building type, condition and Property location. The opinion expressed in the SEL is an estimate based on probability of seismic activity and the resistance of this type facility to damage from the seismic activity. The actual loss value is highly variable and would be known only after an actual earthquake.

2.2 Survey Approach

At present, there is no single universally accepted methodology for estimating the seismic risk of structures. Methods that are currently used depend to a large degree on the subjective interpretations of the professional.

Scenario Expected Loss (SEL) is a term used historically to characterize building damageability in earthquakes: the financial loss that the property is likely to sustain as a result of future earthquake damages. It has had a number of significantly different explicit and implicit definitions. Per the ASTM E2026-99 "Standard Guide for the Estimation of Building Damageability in Earthquakes" it is widely acknowledged that this term is less accurate than the terms Probable Loss (PL) and Scenario Loss (SL), whose definitions are precise, and that these terms be used to characterize the earthquake damageability of buildings and groups of buildings.

Irrespective of the definition used, the loss estimation process reflects uncertainty in both the seismic environment and the building's performance. The fact that one cannot predict with certainty the actual amount of earthquake damage is reflected in the term "probable". Earthquake loss estimate explicitly recognizes that there is uncertainty implicit in the value given. The understanding of the earthquakes and the response of structures are not yet sufficient to make exact statements on damageability. The result of this series of uncertainties is that the current state-of-the-art requires that the earthquake loss estimates be determined in a probabilistic manner.

The damage estimate definition that is frequently used in the seismic assessment industry and therefore used in this report for determination of the damageability of the property:

Probable Loss (PL): For a given return period this is the amount of loss that a property is expected to meet or exceed on an average basis for a given return period. PL values are expressed as a percentage of building replacement current construction cost. The period of recurrence for the postulated earthquake (475-year earthquake in this case) in the scenario event is always stated with loss estimate.

Scenario Loss (SL): The earthquake loss to the building(s) from earthquake shaking, not including contents or equipment, resulting from a specified ground motions or specified scenario event on specific faults affecting the building. SL values are expressed as a percentage of building replacement current construction cost. The probability of SL value being exceeded in the scenario event is always stated with loss estimate.

The scenario ground motion very often used is the 475-year return period ground motion, which is also often stated as the ground motion, which has a 10% probability of being exceeded in 50 years. *This criterion has been used to estimate the earthquake loss of this subject property.*

The Scenario Upper Loss (SUL-PML_{90}) is the expected value of the loss in the event of the postulated earthquake (475-year earthquake in this case) having 90% confidence level (i.e., 9 out of 10 similar buildings will have damage equal to or less than the SUL value in the event of the postulated earthquake).

The Scenario Expected Loss (SEL-PML_{50}) is the expected value of the loss in the event of the postulated earthquake (475-year earthquake in this case) having average (mean) loss due to the scenario event.

Consistent with the industry practice, the earthquake loss estimates reported here do not include possible earthquake triggered losses from foundation soil failure, fires, water damage, or related business interruption or losses to the contents of the building.

Our analysis of this particular site employs the damage prediction method developed by Messrs. Charles C. Thiel, Jr. and Theodore C. Zsutty, (see "Earthquake Spectra" Vol. 3, No. 4: Nov. 1987 entitled **Earthquake Characteristics and Damage Statistics**) and ASTM E2026-99 "Standard Guide for the Estimation of Building Damageability in Earthquakes". This method is based on damage observations made after previous earthquakes discussed in the Applied Technology Council Publication No. 13. The standard damage prediction is based on construction type, geometry, quality of construction, on the geological characteristics of the site and its susceptibility to major ground motion and the soil response to a predicted ground motion, and is based on the perceived ability of the design to resist the predicted ground motion.

The process involved in developing the seismic assessment is not exact and is subject to a number of estimations and projections. These estimations typically include the:

- Underlying soil response.
- Possible magnitude and duration of the earthquake.
- Effects of the distance to the causative fault.
- Type of building structure.
- Quality of the structure's design and construction.

In order to implement the method cited above, the following factors were evaluated and quantified:

- Construction type and quality of the subject building including building geometry, structural systems to resist both vertical and lateral loads, and previous structural upgrades.
- Characteristics of the site.
- Projected intensity of ground motions.
- Nature of the foundation soil based on area-wide seismic and geological data.
- Appropriateness of the original design and details to resist seismic forces.

The seismic assessment is an estimate of losses expected to occur from an earthquake attributed to local geological faults reported as a percentage of building replacement value. This assessment was prepared utilizing data relative to the Property that was obtained during our Property visit. No calculation of structural capacity was made or reviewed as a part of this loss calculation. In the preparation of this report, ATC has provided a professional opinion regarding the damage to be expected as a result of projected earthquake ground motion based solely on the observed building type, condition and site location. A site-specific geologic study was not conducted as part of this investigation.

In performing this calculation, we visited the Property and observed the general building configuration, building exterior components, and portions of the accessible structure as well as the overall quality of construction. A complete set of structural design drawings were not available for our review.

3.0 SITE CHARACTERISTICS

3.1 Location

The Property is located to the northwest of the northwest corner of Fallbrook Avenue and Roscoe Boulevard. The street address of the Corporate Pointe at West Hills is 8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue in Los Angeles, California.

3.2 Site Characteristics

The Property slopes moderately down from the north to the south across the Property as the site is located near the base of a hillside. No abnormal features such as ground fractures, settlement areas, or areas of unintended ponding water were identified.

3.3 Property Improvements

The Property is a office facility comprised of 11 buildings. The buildings at the Property are named/designated as follows: 8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521, 8531 and the 22801 Buildings, by their numerical address. However, based on our scope of services and the instructions of the designated site contact, only 10 of the 11 buildings are included in this report. The 10 buildings included in ATC's scope of work are identified as the 8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Buildings. The remaining building at the Property, 22801 Building and associated parking areas at the south side of the Property, were not included in ATC's scope of work.

The Property is situated on eight irregular-shaped land parcels and is considered to be of generally good quality construction. The Property is located to the northwest of the northwest corner of Fallbrook Avenue and Roscoe Boulevard. The street address of the Corporate Pointe at West Hills is 8401, 8403, 8407, 8411, 8413, 8415, 8501, 8511, 8521 and 8531 Fallbrook Avenue.

The three story 8401 Building is generally "T"-shaped. The 8401 Building contains one commercial office/lab tenant (Unilab Corporation) and a wireless provider (Pacific Bell Wireless, LLC) on the building roof. The building was reportedly originally constructed in 1959 with renovations in 1999 and 2005. Detail information regarding the renovations was not provided but appears to be similar to other buildings and includes exterior renovations and possible seismic strengthening in 1999 and roof replacement in 2005. The ground floor of the building is partially below grade at the west side of the building due to the topography of the site.

The one story 8403 Building is generally rectangular-shaped. The 8403 Building contains one lab tenant (Unilab Corporation). The building was reportedly originally constructed in 1984 with renovations in 1999 and 2005. Detail information regarding the renovations was not provided but appears to consist of exterior renovations in 1999.

The two story 8407 Building is generally rectangular-shaped. The 8407 Building contains two commercial office tenants (Blue Cross of California and Centex Title & Ancillary Services) and one vacant space on the second floor totalling approximately 8,246 square feet. The building was reportedly originally constructed in 1986, with renovations in 1999. Detail information regarding the renovation was not

provided but appears to consit of exterior renovations. The ground floor of the building is partially below grade at the east side of the building due to the topography of the site.

The one story 8411 Building is generally rectangular-shaped. The 8411 Building contains one food service tenant (Sodexo Marriott Services). The building was originally constructed in 1959, with renovations including reconstruction of the building and surrounding areas currently being performed and scheduled for completion by the end of 2008, although original date of substantial completion was scheduled no later than April 18, 2008 and final completion no later than May 18, 2008 according to the signed contract. Access to the building and surrounding areas was not available during ATC's site visit as the construction company was no longer present. Due to the current construction at the 8411 Building, a temporary leased cafe structure and bungalow is located between the 8415 and 8501 Buildings that is being utilized by the tenant.

The two story 8413 Building with full basement is generally rectangular-shaped and is contiguous and to the east of the 8415 Building. The 8413 Building is currently vacant. The building features an auditorium. The building was reportedly originally constructed in 1986, with renovations in 1999. Detail information regarding the renovation was not provided but appears to consit of exterior renovations.

The one story 8415 Building is generally square-shaped and is contiguous and to the west of the 8413 Building. The 8415 Building contains the Property central plant. The building was reportedly originally constructed in 1959.

The three story 8501 Building is generally "T"-shaped. The 8501 Building contains two commercial office tenants (Countrywide Home Loans, Inc. and Software Dynamics, Inc.), one vacant space totaling approximately 17,177 square feet on the ground floor and a wireless provider (New Cingular Wireless PCS) on the building roof. The building was reportedly originally constructed in 1959, with renovations in 1998/1999. According to available information, the renovations included reconstruction of the exterior walls including installing metal studs set outside the exterior walls and finished with plaster and set in windows, replacement of the building roof, and seismic strengthening the building by adding reinforcement and several inches of pneumatically placed concrete against one wall face and new boundary elements at the ends of the existing shear walls. The ground floor of the building is partially below grade at the west and northwest sides of the building due to the topography of the site.

The four story 8511 Building is irregular-shaped. The 8511 Building contains one primary tenant (Sterling Software) who has sub-leased portions of the building. The building was originally constructed in 2000. The building has a large balcony with canopy at the north side of the fourth floor, two small balconies on the third and fourth floors at the south side of the building, auditorium and employee cafe on the ground floor.

The three story 8521 Building is generally "T"-shaped. The 8521 Building contains two commercial office tenants (Countrywide Home Loans, Inc. and The Boeing Company) and three vacant spaces totaling approximately 16,906 square feet on the ground floor. The building was reportedly originally constructed in 1959, with renovations in 1998/1999. According to available information, the renovations included reconstruction of the exterior walls including installing metal studs set outside the exterior walls and finished with plaster and set in windows, replacement of the building roof, and seismic strengthening the building by adding reinforcement and several inches of pneumatically placed concrete against one wall face and new boundary elements at the ends of the existing shear walls. The ground floor of the building is partially below grade at the east side of the building due to the topography of the site.

The two story 8531 Building is generally rectangular-shaped. The 8531 Building contains one research and development (R&D) tenant (The Boeing Company). The building was reportedly originally constructed in 1979, with renovations in 1998/1999. According to available information, the renovations included renovations to the exteriors, replacement of the building roof, and seismic strengthening the building by adding reinforcement and several inches of pneumatically placed concrete against one wall face and new boundary elements at the ends of the existing shear walls. The ground floor of the building is partially below grade at the east side of the building due to the topography of the site.

Parking for the Property is provided by asphalt pavement at grade and by a two-level parking garage. The balance of the Property consists primarily of paved parking areas, service/drive lanes, pedestrian walkways, landscaping, water feature with flowing creeks and small lake and surrounding seating areas and a service yard adjacent to the 8401 Building for Unilab Corporation.

The site contact indicated that the following work was performed during the last five years: Waterproofed the 8401 and 8501 Buildings in 2005 ($325,000 for the 8501 Building); renovated the central plant including replacement of two of the central plant chillers, boilers, piping distribution and related equipment in 2004005; replaced the 8401 Building roof in 2005; installed oil coolers to the elevators in the 8511 Building in 2006 ($22,000); re-replaced the central plant boilers at the end of 2007; miscellaneous parking enhancements in 2006/2007; seal coated and striped the parking areas at the 8511, 8401 and 8403 Buildings in 2007; asphalt overlay at the central parking at the east side of the 8407 Building in 2007; asphalt overlay at the parking areas at the 8531 Building in 2008; constructed the two-level parking garage at the east side of the Property in 2006/2007; utility submetering installation in 2006/2007 ($425,000); replaced the lower roof and repaired and installed a polyurethane foam coating at the upper roof of the 8415 Building in 2008 ($110,000); added two concrete pads, furniture and landscape to pond area in 2007/2008 ($95,000); renovated the boundary wall at the west side of the Property in 2007/2008 ($125,000); renovation of the 8411 in 2008 (not to exceed $5,994,024.00 according to signed contract but reportedly is totaling approximately $11,000,000) and current exterior sitework around the 8411 Building ($1,621,686). Additionally, Ms. Life reported that renovations to the 8413 Building including exterior facades, relocation of the south exit stairway to the north side, the addition of an entry on the south side, renovate the north main entry, add a fitness center at the basement and renovate the auditorium is scheduled to be performed in 2009. The site contact also reported that no fires, floods, storms, or other major incidents have damaged the Property.

3.4 Current Use of the Property

The Property is currently used for professional offices purposes.

3.5 Soil Type and Reference

The soil conditions at a site may influence the damageability of a structure in several ways including the fact that soft soils tend to amplify ground motion and collateral hazards such as soil liquefaction, sliding or rupturing can potentially result in considerable damage to a structure.

According to available documentation, the soils in the area of the Property are formed from alluvium. According to the Geologic Map of California, the area consists of Cenozoic aged land.

It should be noted that specific soil profile data, based on actual field borings, was not obtained for this site, since this would have been beyond the scope of these services.

3.6 Liquefaction Potential

Liquefaction of soil is a phenomenon wherein the soil is transformed into a fluid-like condition due to increased pore water pressure caused by strong ground shaking. Liquefaction potential has been found to be the greatest where the groundwater level is shallow and saturated, loose fine sands occur within a depth of about 50 feet or less. Liquefaction potential decreases as grain size and clay and gravel content increase. As ground acceleration and duration of shaking increase during an earthquake, liquefaction potential increases. The liquefied sands undergo a temporary loss of strength that commonly results in displacement of the ground surface due to factors such as loss of bearing capacity, ground settlement, and lateral spreading. The resulting damage to structures constructed over the liquefied soils can be significant.

Our review of the California State Department of Conservation's Geologic Map, 1991 and the Canoga Park Quadrangle of the Reconnaissance Seismic Hazard Maps (dated February 1, 1998) for the Property indicates that the Property location is associated with moderate liquefaction susceptibility.

3.7 Landslide Potential

Slopes that are susceptible to landslides and/or mudslides are often destabilized during severe earthquake shaking. Predicting this potential is difficult in all but the most precarious physical situations. Slope Stability, and a slope's performance during severe shaking is influenced by many factors, including the stratigraphy of soils, the angle of incidence of the slope, vegetation, soil drainage, and other factors.

The buildings at the site are situated on sloped terrain. The potential for landslide due to an active earthquake at the site is considered moderate.

3.8 Ground Fault Rupture Potential

The buildings at the Property are not located within an Earthquake Fault Zone as defined in the Alquist-Priolo Earthquake Fault Zoning Act. The potential for fault surface rupture potential due to an active earthquake at the site is considered low.

4.0 BUILDING CHARACTERISTICS AND SITE OBSERVATIONS

On August 28, 2008, ATC visited the Property to visually inspect the exterior and interior of the Property components, systems and elements that are visible and accessible for the purposes of identifying and classifying the characteristics of the building, review as-built conditions, and to identify structural deficiencies as they pertain to inadequate gravity and horizontal loading under current code requirements.

Based on our site observations, it is our opinion that the buildings at the subject Property have been well maintained and is in overall good condition. The structural systems appeared to be in generally good condition and well maintained from a structural perspective, with no significant areas of distress observed.

The following characteristics are present at the buildings at the Property:

Number of Stories:	See following paragraphs
Building Code Design Edition:	See following paragraphs
Year Constructed:	1958-1960; 1984-1986 and 2000
Year Renovated/Upgraded:	1994-2000
Structural Irregularities:	Generally Irregular and rectangular-shaped in plan view
Overall Construction Quality:	Good

The Corporate Pointe at West Hills Property has a six level concrete parking structure located west of the Corporate Pointe at West Hills Office Building. The parking structure appeared generally to be in generally good condition and well maintained from a structural perspective, with no significant areas of distress observed.

Within the authorized scope of this evaluation, definitive determination of the structural systems was not possible because ATC was able to make only limited observations due to lack of physical accessibility, no destructive testing was performed and ATC did not have the opportunity to review a complete set of as-built structural drawings. Our non-invasive surface observations, review of available construction documentation and our experience with buildings of similar type and age indicate the following construction:

Foundation

The foundation system for the onsite structures typically consists of the reinforced concrete spread footings and reinforced concrete tie beams. The 8413 Building features a full basement and the ground floor of the 8401, 8407, 8501, 8521 and 8531 Buildings are partially below grade on one side of the building due to the topography of the Property.

The allowable soil bearing values indicated on the structural strengthening drawings for imposed dead and live loads are 10,000 pounds per square foot. The interior columns are typically founded on rectangular concrete pad footings, and the concrete walls are supported on continuous footings. The footings bear on the shale bedrock. The ground floor of the buildings consists of a 5"-thick concrete slab-on-grade.

The columns of the steel space frame in Building 8511 are founded on rectangular pad footings. Reinforced concrete grade beams tie the pad footings supporting the moment-resisting frame columns. The grade-beams are detailed to provide rotational fixity for the column bases. The ground floor consists of a five-inch-thick concrete slab-on-grade reinforced with a rectangular grid of 1/2"-diameter steel bars spaced at 16" on-center each direction.

The building foundation systems were not observed, however a complete set of as-built structural drawings were available on site. The ATC representative observed no improper alignment, cracking or other indications that the foundation systems are in less than adequate condition.

The 8401, 8501, 8521 and 8531 Buildings frame consist primarily of perimeter and interior concrete columns supporting the upper level and roofing systems. The upper level and roof framing systems consists of two-way waffle slabs. According to available documentation, the buildings also feature reinforced concrete shear walls distributed throughout the buildings.

The building roof and floor structures are conventionally-reinforced concrete pan-joist, or waffle, slabs. The waffle slab system typically consists of a 2"- to 3"-thick concrete slab cast integrally with regularly spaced concrete joists arranged in a rectangular grid. The joists span between concrete girders which frame between interior and perimeter circular concrete columns.

According to available documentation, the 8401 Building underwent seismic repairs and strengthening after the 1994 Northridge earthquake that caused moderate to large diagonal shear cracks in all concrete shear walls, spalling of concrete at door openings, at jambs and corners, at pilaster bases and cracks in slab and waffle slab joists.

Concrete cracks in walls, slabs and joists, which resulted from the Northridge earthquake, were repaired by epoxy injection. The building was strenghtened by the addition of new concrete shear walls adjacent to existing shear walls at the first and second floor levels. Concrete column capacities were increased at ends of shear wall by the addition of reinforcement and concrete incasement. Repair work and strengthening work was performed in compliance with the 1992 Los Angeles City Building Code and 1991 UBC.

According to available documentation, a seismic retrofit was reportedly performed in 1999 at the 8501, 8521 and 8531 Buildings and included adding reinforcement and several inches of pneumatically placed concrete against one wall face and new boundary elements at the ends of the existing shear walls. The seismic upgrade reportedly enabled each building to comply with the 1994 Uniform Building Code (UBC).

Lateral wind and seismic forces acting on the concrete structures are resisted by the concrete floor and roof diaphragms, or deep horizontal beams, which span between reinforced concrete shear walls distributed throughout the building plans. During the 1999 seismic retrofit of each building, the original shear walls were strengthened by adding reinforcing and several inches of pneumatically placed concrete against one wall face. New boundary elements also were provided at the ends of the strengthened walls. The lateral diaphragm forces are transferred to the concrete walls through embedded steel reinforcing bars; the concrete shear walls transfer the lateral forces to the concrete foundations.

The 8403 Building frame consists primarily of a pre-engineered steel frame structure with CMU perimeter walls and steel columns supporting the roof framing system. The roof framing system consists of structural steel beams and light-gauge steel joists supporting the roofing system with vinyl-backed insulation below.

The building is a one-story rectangular shaped pre-engineered steel framed building with transverse steel bent frame supporting long span "Z" purlin between bents. A system of diagonal rod bracing and metal decking provide roof diaphragm seismic bad transfer to bents in the transverse direction. In the longitudinal direction, a system of diagonal rod bracing, in the plane of the wall, transfers lateral loads to perimeter masonry block shear walls which extend approximately mid-height of the building.

As part of the tenant improvement work for the building, new wall openings were created and existing openings closed by the application of shotcrete. Repair and alteration work was performed in compliance with the 1992 Los Angeles City Building Code and 1991 Uniform building Code.

The 8407 and 8413 Buildings frame consist primarily of CMU walls with interior pilaster and interior steel columns supporting the upper level and a pre-engineered rigid steel frame structure with steel columns supporting the roof framing system. The upper level framing system consists of structural steel beams and open web steel joists supporting fluted metal decking with concrete topping. The roof framing system consists of structural steel beams and light-gauge steel purlins supporting the roofing system with vinyl-backed insulation below.

Both buildings are two-story rectangular building of hybrid construction. First floor level consists of conventional construction of exterior masonry wall with steel beam, bar joist and concrete fill over metal deck. The second level framed structure is a pre-engineered building consisting of steel bent frames supporting light steel roof purlins. The building experienced no significant damage as a result of the Northridge earthquake.

According to available documentation, the 8407 Building underwent seismic repairs after the Northridge earthquake that consisted of repairing CMU wall cracks by epoxy injection and repairing spalled and cracked pilasters at beam and pilaster connections by epoxy injection and grouting. Repair work was performed in compliance with the 1992 Los Angeles City Building Code and 1991 UBC.

The 8415 Building frame consists primarily of concrete tilt-up wall panels with interior pilasters supporting the roof framing system. The roof framing system consists of structural open web steel trusses and beams supporting steel decking with concrete topping.

The building is a rectangular one-story tilt-up concrete wall building with steel roof framing. Strategically located horizontal diagonal bracing transfers lateral building loads to exterior and interior concrete shear walls. Repair and limited strengthening were performed in compliance with the 1992 Los Angeles City Building Code and 1991 Uniform building Code.

According to available documentation, the 8415 Building underwent seismic repairs after the Northridge earthquake that resulted in wall cracks, concrete spalls at the end intersections where the interior wall meets the exterior north and south walls. The earthquake damages were repaired by epoxy injection and grouting. Additionally, the structure was strengthened by replacing existing machine bolts with high strength bolts at horizontal diagonal lateral bracing connections, supplemental steel channel members were added to all the roof level chord continuity.

The 8511 Building frame consists primarily of a steel moment frame structure with steel columns supporting the upper level and roof framing systems. The upper level and roof framing systems consist of structural steel girders and beams supporting fluted metal decking with concrete topping.

The vertical load-carrying system, i.e., roof and floor framing systems, beams and columns, and foundation system of the building, appears to have adequate strength and stiffness to resist the construction dead load plus code-specified live loads.

The lateral force-resisting systems for the building appear to be designed in accordance with the 1997 UBC and currently accepted standards of care. The office building appears to have sufficient redundancy of the lateral load resisting system to meet the stringent 1997 UBC criteria. The building moment frame configuration meets the strong column, weak beam criteria of the 1997 UBC.

The office building moment frames utilize Reduced Beam Section (RBS) connections, which are an improved alternate connection to the typical pre-Northridge earthquake moment frame connections used in the 1970s through early 1990s. This connection design was developed in response to the poor performance of the Pre-Northridge connection in the 1994 Northridge and other recent earthquakes. The connections are similar to those that performed poorly in the Northridge earthquake; however, they have important modifications that reduce the risk of failure compared to the pre-Northridge configuration. However, the connections may still be susceptible to premature failure in significant seismic events and therefore create some increased seismic risk for the building. The connections utilize steel girders that have notches or necked-down regions cut out of their top and bottom flanges adjacent the welded beam-to-column joints. The notches are provided to help assure that plastic-hinges develop in the moment-frame beams prior to fracture of the welded joint connections. The RBS connection can enhance the performance of the beam-to-column connections, but may not be the end-all solution to the connection dilemma. In determining an appropriate level of seismic risk to the building, consideration must be given to the fact that high tri-axial stresses, panel zone deformation, and variable material properties may still negatively contribute to the performance of the connections.

Lateral wind and seismic forces acting on the structure are resisted by composite floor and roof diaphragms spanning between the vertical resisting elements. The vertical lateral-force resisting elements of the building consist of specially detailed steel moment-resisting frames utilizing the Reduced Beam Section (RBS) joint connection, commonly referred to as the "dogbone connection". The moment frames consist of two, six-bay frames in the longitudinal direction and two, five-bay frames in the transverse direction. The lateral diaphragm forces are transferred to the moment frames through steel welded studs fastened to the top flange of the frame girders. The moment frames act primarily in shear and bending to transfer the lateral forces to the concrete foundations.

The 8531 Building frame consists primarily of reinforced poured-in-place concrete walls and interior columns supporting the upper level and roof framing systems. The upper level and roof framing systems consist of poured-in-place pan-joist slabs. According to available documentation, the building also features reinforced concrete shear walls distributed throughout the building.

According to available documentation, a seismic retrofit was reportedly performed in 1999 at the 8531 Building and included adding reinforcement and several inches of pneumatically placed concrete against one wall face and new boundary elements at the ends of the existing shear walls. The seismic upgrade reportedly enabled each building to comply with the 1994 Uniform Building Code (UBC).

The ATC representative observed no improper alignment, cracking or other indications that the framing systems are in less than good condition. Efflorescence indicative of water intrusion was observed at the north side of the 8413 Building basement; however, a concrete swale and catch basin was installed at the north side of the building to mitigate the water intrusion issue. The structural systems appeared to be in

generally good condition and well maintained from a structural perspective, with no significant areas of distress observed. In general, structural systems can be expected to provide 50 or more years of useful life.

The two-level parking structure at the east side of the Property is of a monolithic reinforced poured-in-place concrete structure with reinforced concrete slab-on grade and concrete columns supporting the upper deck. The upper deck consists of reinforced concrete girders and beams supporting a concrete slab. The parking structure features an expansion joint near the center of the structure with double columns and beams. The perimeter of the parking structure is enclosed by unpainted CMU walls. The ATC representative observed no improper alignment, cracking or other indications that the garages are in less than good condition. However, efflorescence was observed on both the exterior and interior faces of the CMU walls.

This is indicative of moisture penetration into the wall core, causing the lime to leach out of the mortar or block itself. This process will continue unless the surfaces are sealed with a clear, spray applied masonry sealer.

5.0 SEISMIC CHARACTERISTICS OF THE AREA

5.1 Site Seismicity

The Richter magnitude scale gives an indication of the absolute energy released in an earthquake. However, generally speaking, the further a building is from the epicenter, the less shaking it will experience. As such, just considering the magnitude of an earthquake does not give an adequate picture of the building's risk, since the distances from potential earthquake sources to the subject site must also be considered.

The Modified Mercalli Intensity (MMI) Scale considers the reduction, or attenuation, of ground motion as the distance between source and site increases; the scale is calibrated from I to XII. For example, in one large earthquake, a site near the fault may experience intensity IX shaking, while a site many miles away may experience only intensity VII shaking. A copy of the MMI Scale containing a brief description of the effect of each MMI level is included as an attachment to this Report.

Several earthquakes of moderate-to-large magnitude have occurred in California in recent history. The following table lists historical earthquakes with magnitude greater than 5.9 (Richter) and their corresponding effect (MMI) at the subject Property; these earthquakes are within a 100-mile radius of the subject Property as recorded since 1900:

HISTORIC EARTHQUAKES

North Latitude	West Longitude	Date	Richter Magnitude	Site Acceleration (g)	Site MMI	Approx. Distance to Site - Mi. (km.)
34.2130	118.5370	01/17/1994	6.70	0.309	IX	5.2 (8.3)
34.4110	118.4010	02/09/1971	6.40	0.113	VII	18.2 (29.3)
34.0650	119.0350	02/21/1973	5.90	0.067	VI	25.8 (41.5)
34.0610	118.0790	10/01/1987	5.90	0.055	VI	33.3 (53.5)
34.9000	118.9000	10/23/1916	6.00	0.043	VI	49.2 (79.2)
34.3670	119.5830	07/01/1941	5.90	0.037	V	55.4 (89.2)
33.6170	117.9670	03/11/1933	6.30	0.045	VI	56.4 (90.8)
35.0000	119.0000	07/21/1952	6.40	0.047	VI	57.6 (92.7)
35.0000	119.0170	07/21/1952	7.70	0.092	VII	58.0 (93.3)
35.0000	119.0170	01/12/1954	5.90	0.036	V	58.0 (93.3)
34.3000	119.8000	06/29/1925	6.25	0.038	V	67.2 (108.1)
35.3670	118.5830	07/23/1952	6.10	0.031	V	79.0 (127.1)
33.7000	117.4000	05/15/1910	6.00	0.030	V	79.0 (127.1)
34.0000	117.2500	07/23/1923	6.25	0.033	V	80.2 (129.1)
35.3830	118.8500	07/29/1952	6.10	0.031	V	81.0 (130.4)
34.2000	117.1000	09/20/1907	6.00	0.027	V	87.2 (140.3)
32.8170	118.3500	12/26/1951	5.90	0.024	IV	98.4 (158.4)
33.7500	117.0000	04/21/1918	6.80	0.038	V	98.7 (158.8)

5.2 Local Faults

Based on various geological and seismological characteristics, it is possible to estimate the theoretical maximum magnitude a given fault can generate. It is also possible to estimate the probability that a given magnitude earthquake will occur in a given future time window.

The following table lists the most potentially damaging faults (within a 50-mile radius) found in the area of the Property. The table shows the potential loss to the Property in the event of an earthquake of the Richter magnitude listed in the third column generated by the fault listed in the first column:

LOCAL FAULTS				
Fault or Source Name	**Approx. Distance Mi. (km.)**	**Maximum Earthquake Magnitude**	**Peak Site Acceleration (g)**	**Estimated Site MMI**
NORTHRIDGE (E. Oak Ridge)	<1.0 (<1.6)	7.0	0.571	X
SIMI-SANTA ROSA	6.8 (10.9)	7.0	0.310	IX
SANTA SUSANA	6.8 (11.0)	6.7	0.263	IX
ANACAPA-DUME	9.8 (15.8)	7.5	0.316	IX
SIERRA MADRE (San Fernando)	10.0 (16.1)	6.7	0.204	VIII
OAK RIDGE (Onshore)	10.1 (16.2)	7.0	0.238	IX
HOLSER	10.3 (16.6)	6.5	0.180	VIII
MALIBU COAST	10.4 (16.8)	6.7	0.198	VIII
VERDUGO	12.1 (19.4)	6.9	0.199	VIII
SANTA MONICA	12.1 (19.5)	6.6	0.169	VIII
HOLLYWOOD	13.2 (21.3)	6.4	0.143	VIII
SAN GABRIEL	14.5 (23.4)	7.2	0.167	VIII
SAN CAYETANO	16.6 (26.7)	7.0	0.166	VIII
NEWPORT-INGLEWOOD (L.A.Basin)	18.4 (29.6)	7.1	0.133	VIII
PALOS VERDES	19.3 (31.1)	7.3	0.143	VIII
SIERRA MADRE	19.6 (31.5)	7.2	0.163	VIII
UPPER ELYSIAN PARK BLIND THRUST	20.4 (32.8)	6.4	0.104	VII
PUENTE HILLS BLIND THRUST	22.0 (35.4)	7.1	0.142	VIII
RAYMOND	23.7 (38.1)	6.5	0.098	VII
SANTA YNEZ (East)	28.3 (45.6)	7.1	0.096	VII
VENTURA - PITAS POINT	30.6 (49.2)	6.9	0.099	VII
CLAMSHELL-SAWPIT	31.4 (50.6)	6.5	0.079	VII
SAN ANDREAS - Whole M-1a	32.7 (52.6)	8.0	0.138	VIII
SAN ANDREAS - 1857 Rupture M-2a	32.7 (52.6)	7.8	0.124	VII
SAN ANDREAS - Mojave M-1c-3	32.7 (52.6)	7.4	0.101	VII
SAN ANDREAS - Cho-Moj M-1b-1	32.7 (52.6)	7.8	0.124	VII
SAN ANDREAS - Carrizo M-1c-2	33.5 (53.9)	7.4	0.099	VII
M.RIDGE-ARROYO PARIDA-SANTA ANA	35.2 (56.6)	7.2	0.104	VII
OAK RIDGE(Blind Thrust Offshore)	36.1 (58.1)	7.1	0.097	VII
CHANNEL IS. THRUST (Eastern)	36.4 (58.6)	7.5	0.119	VII
OAK RIDGE MID-CHANNEL STRUCTURE	37.2 (59.8)	6.6	0.073	VII
WHITTIER	38.4 (61.8)	6.8	0.065	VI
RED MOUNTAIN	39.3 (63.3)	7.0	0.086	VII
SAN JOSE	43.0 (69.2)	6.4	0.059	VI

LOCAL FAULTS				
Fault or Source Name	**Approx. Distance Mi. (km.)**	**Maximum Earthquake Magnitude**	**Peak Site Acceleration (g)**	**Estimated Site MMI**
GARLOCK (West)	44.1 (70.9)	7.3	0.076	VII
PLEITO THRUST	44.6 (71.7)	7.0	0.078	VII
BIG PINE	46.0 (74.0)	6.9	0.059	VI
CUCAMONGA	48.2 (77.5)	6.9	0.070	VI
CHINO-CENTRAL AVE. (Elsinore)	49.3 (79.4)	6.7	0.062	VI

5.3 Effective Peak Ground Acceleration

The Property is located in Seismic Zone 4 based on the "Seismic Zone Map of the United States", Figure No. 16-2 in the 1997 Uniform Building Code. This area is defined as an area with a high probability of damaging ground motion.

The peak ground acceleration for the Property was determined using FRISKSP software. The peak ground acceleration is approximately 0.54g (for a 475-year return period) and 0.89g (for a 2,375-year return period). This calculation was made using the mean ground motion attenuation relations for a Type "D" site classification in Boore et al. (1997) and a probabilistic seismic hazard analysis. Dispersion was included by considering the mean-plus-one standard deviation attenuations in Boore et al.

6.0 SITE SEISMICITY AND PROBABLE MAXIMUM LOSS

The SEL is expressed as a damage ratio that is defined as the approximate repair cost resulting from the previously tabulated possible seismic sources divided by the replacement cost of the building. The SEL percentage consists of the structural and major architectural elements only and does not include special features such as finishes, MEP systems and so forth, nor does in take into account associated costs from death or injury or loss of service. In addition, replacement costs do not include the value of the land nor do they refer to the market value of the Property.

The effects from all of the faults in the area may be taken into account to derive composite estimates of the ground shaking that would affect the site. Two scenarios have been described. We refer to these seismic hazard scenarios as Lower Level Event (LLE) and Upper Level Event (ULE) hazards, having mean return periods of approximately 475 and 2,375 years, respectively. These anticipated accelerations have a 10% and 2% probability of exceedence in an assumed 50-year life of the buildings, respectively.

6.1 Earthquake Damage Estimate

Based upon the epicenter's location and the site soil conditions in conjunction with the information available at the time of this review, the SEL for this Property is shown below:

EARTHQUAKE DAMAGE ESTIMATE – CORPORATE POINTE AT WEST HILLS
(As a Percentage of Building Replacement Value)

SCENARIO LOSS (SL)				
Scenario/ Ground Motion	**Select max. MMI (modified Mercalli earthquake intensity)**	**Corresponding PGA (peak ground acceleration values)**	**SEL - (scenario expected loss) Mean or 50% damageability**	**SUL - (scenario upper loss) 90% damageability**
BLDG 8401 DBE - 475 year event	X	0.54	16%	19%
MCE-2,375 year event	XI	0.89	22%	25%
BLDG 8403 DBE - 475 year event	X	0.54	15%	18%
MCE-2,375 year event	XI	0.89	20%	23%
BLDG 8407 DBE - 475 year event	X	0.54	17%	20%
MCE-2,375 year event	XI	0.89	23%	27%
BLDG 8411 DBE - 475 year event	X	0.54	16%	19%
MCE-2,375 year event	XI	0.89	22%	25%
BLDG 8413 DBE - 475 year event	X	0.54	17%	20%
MCE-2,375 year event	XI	0.89	23%	27%
BLDG 8415 DBE - 475 year event	X	0.54	16%	19%

SCENARIO LOSS (SL)				
MCE-2,375 year event	XI	0.89	22%	25%
BLDG 8501 DBE - 475 year event	X	0.54	16%	19%
MCE-2,375 year event	XI	0.89	22%	25%
BLDG 8511 DBE - 475 year event	X	0.54	11%	15%
MCE-2,375 year event	XI	0.89	15%	20%
BLDG 8521 DBE - 475 year event	X	0.54	16%	19%
MCE-2,375 year event	XI	0.89	22%	25%
BLDG 8531 DBE - 475 year event	X	0.54	15%	18%
MCE-2,375 year event	XI	0.89	21%	24%

6.2 Loss of Use of the Complex

The loss of use estimate for the building at the Property in the event of maximum probable seismic activity is Medium (two to six months).

7.0 LOSS ASSESSMENT LIMITATIONS

The loss assessment included in this report focused on the primary structural and architectural systems of the building. The following primary structural and architectural systems are typical of what was included in the loss assessment:

7.1 Primary Structural Systems

1. Foundation systems which may include floor slabs, thick edge slabs, grade beams, foundation walls, retaining walls, piers, piles, caissons, column pads and other load bearing foundation systems and substructures.
2. Vertical structural systems that may include bearing walls, columns, posts, girders, beams, trusses and other principle vertical load transfer systems.
3. Horizontal structural systems that may include shear walls, floor, ceiling and roof diaphragms, braced frames, moment frames and other principal lateral load transfer systems.

7.2 Primary Architectural Systems

1. Building envelope that may include lath and plaster, siding, cladding, wall panels, wallboard, paint and coatings, window systems, veneer, door systems, storefronts, window walls, attached greenhouses, roofing systems, moisture resistant systems, insulation, and other components that enclose the building.
2. Architectural appendices which may include, but not limited to, attached decks, balconies, steps, exterior stairs, railings, overhangs, canopies, chimneys and parapets.
3. Interior construction which may include lath and plaster, gypsum board, veneer plaster, paneling, suspended ceiling systems, trim, non-bearing partitions, built-in cabinetry, glazing, door systems, stair and steps, hand railings, guard railings, fireplaces and barbecues.

Unless otherwise indicated above, building construction and site improvements not included in the loss assessment of the subject facility included items identified under the following general headings as defined by the Construction Specifications Institute (CSI).

- Site Work
- Finishes
- Specialties
- Equipment
- Furnishings
- Special Construction
- Conveying Systems
- Mechanical
- Electrical

In addition, personal injury or physical conditions of the building and site, resulting from seismic activity or its after effects was not included in the loss assessment. These may include:

- Personal Injury or Fatalities
- Loss of Personal Property
- Water and Flooding Damage
- Fire and Smoke Damage
- Weather Damage
- Tsunami Damage
- Structural Pounding Damage
- Landslide or Mudslide Damage
- Non Earthquake Differential Settlement
- Unrepaired Damage
- Damage Resulting from Deteriorated Construction
- Damage Resulting from Deferred Maintenance
- Damage Resulting from Unpermitted Modifications or Additions

8.0 LIMITATIONS AND QUALIFICATIONS

Our services described herein were performed, and our findings and recommendations were prepared in accordance with generally accepted consulting practices for this geographical area at this time. This warranty is in lieu of all other warranties, either expressed or implied. While ATC has made every reasonable effort to properly evaluate the Property conditions within the contracted scope of services, it should be recognized that this investigation is limited in several important respects including, but not limited to, the following:

Our findings and conclusions were based primarily on the visual appearance of the Property at the time of our site visit and on comparative judgments with similar properties in the ATC site inspector's experience. Our site observations included only areas that were readily accessible to our representative without opening or dismantling any secured components or areas. The scope did not include invasive investigation, component sampling, laboratory analysis, an environmental site assessment, or engineering evaluations of structural, mechanical, electrical, or other systems with related calculations and review of design assumptions. Within the authorized scope of this evaluation, definitive determination of the structural systems was not possible because ATC did not have the opportunity to perform destructive testing and was able to make only limited observations due to lack of physical accessibility.

Some of our conclusions were partially based on information provided by others including representatives of the client, the Property owner, the Property manager, contractors servicing the Property, and local building code officials. For the purposes of this report, we have assumed this information to be complete and correct unless otherwise noted. ATC assumes no liability for incorrect information provided by others.

Our cost estimates represent a preliminary opinion only and are neither a quote nor a warranty or representation as to the actual costs that may be incurred. These estimates are based on typical cost data that may not fully characterize the scope of the Property conditions and are further limited by possible future changes in technology, by regulatory requirements, by Property location, and by contingencies that cannot reasonably be discovered until after commencement of on-site construction activities. The cost estimates do not address the cost impact of the possible presence of lead-based paint (LBP), asbestos-containing materials (ACM) or other environmentally regulated materials on renovation or demolition activities. ATC shall not be liable to the Client nor any other party for any costs or expenses that may be incurred in excess of these estimates, for any losses that may be incurred as a result of these estimates being different from the actual costs, nor for any damages whatsoever in connection with these estimates.

This report is intended for the sole use of MetLife Real Estate Investment. The scope-of-services performed in execution of this investigation may not be appropriate to satisfy the needs of other users, and any use or re-use of this document or its findings, conclusions, or recommendations is at the risk of said user. ATC is not responsible for conclusions, opinions, or recommendations made by others based on this information.

9.0 APPENDICES

Appendix A: Modified Mercalli Intensity Scale
Appendix B: Interpretation of Earthquake Damage Ratios

Appendix A

Modified Mercalli Intensity Scale

MODIFIED MERCALLI INTENSITY SCALE (1931 ABRIDGED)	
I.	Not felt except by a very few under especially favorable circumstances
II.	Felt only by a few persons at rest, especially on upper floors of buildings. Delicately suspended objects may swing.
III.	Felt noticeably indoors, especially on upper floors of buildings, but many people do not recognize it as an earthquake. Standing motor cars may rock slightly. Vibration likes passing of truck. Duration estimated.
IV.	During the day felt by many, felt outdoors by few. At night some awakened. Dishes, windows, doors disturbed; walls make creaking sound. Sensation like heavy truck striking building. Standing motor cars rocked noticeably.
V.	Felt by nearly everyone; many awakened. Some dishes, windows, etc. broken; a few instances of cracked plaster; unstable objects overturned. Disturbances of trees, poles, and other tall objects sometimes noticed. Pendulum clocks may stop.
VI.	Felt by all; many frightened and run outdoors. Some heavy furniture moved; a few instances of fallen plaster or damaged chimneys. Damage slight.
VII.	Everybody runs outdoors. Damage negligible in buildings of ordinary structures; considerable in poorly built or badly designed structures; some chimneys broken. Noticed by persons driving motor cars.
VIII.	Damage slight in specially designed structures; considerable in ordinary substantial buildings with partial collapse; great in poorly built structures. Panel walls thrown out of frame structures. Fall of chimney, factory stacks, columns, monuments, and walls. Heavy furniture overturned. Sand and mud ejected in small amounts. Changes in well water. Disturbs persons driving motor cars.
IX.	Damage considerable in specially designed structures; well-designed frame structures thrown out of plumb; damage great in substantial buildings, with partial collapse. Complex shifted off foundations. Ground cracked conspicuously. Underground pipes broken.
X.	Some well-built wooden structures destroyed; most masonry and frame structures destroyed with foundations; ground badly cracked. Rails bent. Landslides considerable from riverbanks and steep slopes. Shifted sand and mud. Water splashed (slopped) over banks.
XI.	Few, if any, (masonry) structures remain standing. Bridges destroyed. Broad fissures in ground. Underground pipe lines completely out of service. Earth slumps and land slips in soft ground. Rails bent greatly.
XII.	Damage total. Waves seen on ground surfaces. Lines of sight and level distorted. Objects thrown upward into the air.

Appendix B

Interpretation of Earthquake Damage Ratios

INTERPRETATION OF EARTHQUAKE DAMAGE RATIOS
(Modified from: Applied Technology Council ATC-13, 1985, Table 2.1)

Damage State	**PML** Damage Range	Average PML Damage Value	General Damage Description	Wood Frame Construction Damage Description	Loss of Occupancy Potential
Slight	0% - 1%	0.5%	Limited localized minor damage not requiring repair.	Window damage, contents shifting, drywall and stucco cracking.	None
Light	1% - 10%	5%	Significant localized damage of some components generally not requiring structural repair.	Major stucco cracks, drywall damage, many windows broken.	Low
Moderate	10% - 30%	20%	Significant localized damage of many components warranting structural repair.	Large X cracks in shear walls, extensive drywall damage, roof diaphragm distress. Overturning of unsecured water heater - potential fire ignition.	Medium
Heavy	30% - 60%	45%	Extensive damage requiring major repairs.	Shifting of foundation (without collapse).	High
Major	60% - 100%	80%	Major widespread damage that may result in the facility being razed, demolished or repaired.	Collapse, cripple wall failure, house out-of-plumb.	Almost Certain

Appendix D:

Property Photographs



Photo 1: North side of the 8413 Building.



Photo 2. East side of the 8415 Building.



Photo 3: North side of the 8501 Building.



Photo 4: West side of the 8501 Building.



Photo 5: Northwest side of the 8511 Building.



Photo 6: South side of the 8511 Building.



Photo 7: East side of the 8407 Building.



Photo 8: West side of the 8407 Building.



Photo 9: South side of the 8521 Building.



Photo 10: Southeast side of the 8531 Building.



Photo 11: West side of the 8531 Building.



Photo 12: West side of the 8403 Building.



Photo 13: East side of the 8403 Building.



Photo 14: North side of the 8401 Building.



Photo 15: Service yard at the southeast side of the 8401 Building.



Photo 16: West side of the 8411 Building.



Photo 17: Southeast side of the 8411 Building.



Photo 18: Temporary café between the 8415 and 8501 Buildings.



Photo 19: Parking areas.



Photo 20: Parking areas.



Photo 21: Alligatoring at the east side of the 8403 Building.



Photo 22: Alligatoring to the west of the 8407 Building.



Photo 23: Helipad between the 8403 and 8407 Buildings.



Photo 24: Upper parking deck.



Photo 25: Lower parking deck.



Photo 26: Asphalt curbing at the west side of the Property.



Photo 27: Localized trip hazard at the northwest side of the 8403 Building.



Photo 28: Monument sign at main entrance drive.



Photo 29: Boundary wall at the west side of the Property.



Photo 30: Missing CMU wall coping caps.



Photo 31: Water feature between the 8501, 8511 and 8521 Buildings.



Photo 32: Water feature.



Photo 33: Substation at the east side of the 8415 Building.



Photo 34: Evidence of past water intrusion at the basement of the 8413 Building.



Photo 35: Concrete swale and catch basin added to the north side of the 8413 Building.



Photo 36: Observed framing at the 8403 Building.



Photo 37: Observed framing at the 8407 and 8413 Buildings.



Photo 38: Observed framing at the 8407 and 8413 Buildings.



Photo 39: Observed framing at the 8415 Building.



Photo 40: Observed framing at the 8415 Building.



Photo 41: Observed framing at the 8531 Building.



Photo 42: Observed framing at the 8531 Building.



Photo 43: Observed framing at the 8401, 8501 and 8521 Buildings.



Photo 44: Observed framing at the parking structure.



Photo 45: Expansion joint at the parking structure.



Photo 46: Efflorescence observed at the parking structure CMU wall.



Photo 47: Efflorescence observed at the parking structure CMU wall.



Photo 48: Observed linear cracking and open stucco section at the 8413 Building.



Photo 49: Observed linear cracking at the 8407 Building.



Photo 50: Peeling paint at the 8531 Building.



Photo 51: Staining observed at the 8531 Building.



Photo 52: Standing seam metal roof at the 8413 Building.



Photo 53: BUR with cap sheet surfacing at the lower roof of the 8415 Building.



Photo 54: Polyurethane foam roof at the upper roof level of the 8415 Building.



Photo 55: Roof system at the 8411 Building.



Photo 56: Leaves at gutter system of the 8403 Building.



Photo 57: Example of BUR with gravel surfacing.



Photo 58: Example of BUR with gravel surfacing.



Photo 59: Deteriorated parapet flashing at the 8511 Building.



Photo 60: Deteriorated parapet flashing at the 8511 Building.



Photo 61: Parapet metal coping at the 8501 Building.



Photo 62: Missing additional seismic strap at water heater.



Photo 63: Chiller at central plant.



Photo 64: Chillers at central plant.



Photo 65: Boilers at central plant.



Photo 66: One of two cooling towers adjacent to the 8415 Building.



Photo 67: Example of central plant circulating pumps.



Photo 68: Example of air handling units.



Photo 69: Example of air handling unit.



Photo 70: Main electrical equipment at the central plant.



Photo 71: Example of main distribution panels at each building.



Photo 72: Freight elevator at the 8415 Building.



Photo 73: Elevator equipment at the 8415 Building.



Photo 74: Example of elevator equipment room.

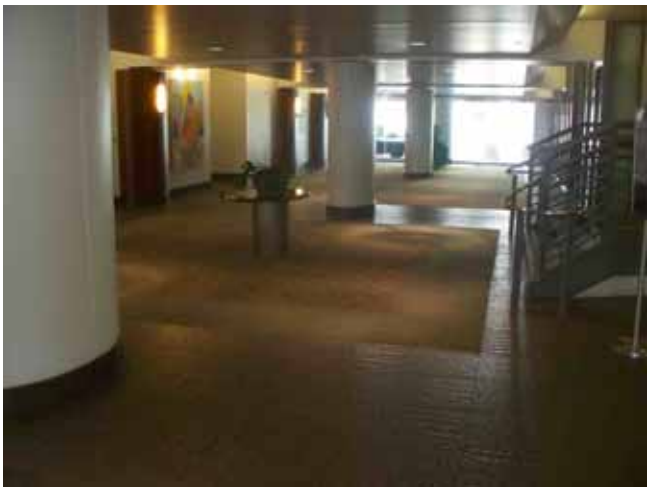


Photo 75: Example of common area lobby.



Photo 76: Example of tenant interiors.



Photo 77: Missing railing at ramp at the north side of the 8403 Building.



Photo 78: Missing infra-red cab door reopening device at west elevator at the 8407 Building.

Appendix E:

Professional Resumes

JOSE REZA
SENIOR STAFF SCIENTIST

EDUCATION, TRAINING AND CERTIFICATIONS

- A.S. in Computer Aided Drafting, ITT Technical Institute
- ASTM training course on Property Condition Assessments, Los Angeles, California, 2001

PROFESSIONAL SUMMARY

Mr. Reza has five years of experience in conducting property condition consulting services for self-storage, commercial and industrial facilities, in addition to hotel, retail and multi-family residential properties. He has participated in a wide variety of professional services and building surveys, including Property Condition Surveys, Asbestos and Lead-Based Paint surveys.

Mr. Reza has special expertise in providing due diligence property condition survey and seismic assessment reports during real estate transactions in addition to development of procedures and methodologies related to the creation of as-built CAD drawings for financial and institutional clients nationwide.

Mr. Reza has performed over 500 properties condition/site screen surveys nationwide and abroad including projects in Tijuana, Baja California, Mexico; Playa del Carmen, Quintana Roo, Mexico; Manzanillo, Colimas, Mexico; and Farallon, Cocle, Panama.

PROFESSIONAL EXPERIENCE

Building Services

- **Property Condition Assessments / HUD – Real Estate Recovery Inc. / Southern California.** Conducted numerous engineering assessments of multi-family apartment facilities in accordance with Fannie Mae, United States Department of Housing and Urban Development (HUD) Mark-to-Market Program Physical Inspection Services Work Scope and ASTM standards. Projects involved detail evaluation of the condition of site and building components and equipment in affordable housing properties. Creation of recommended work items and cost estimates associated with critical repair items, 12-month physical needs, and long term physical needs (i.e., 20-year replacement reserves).

- **Due Diligence Assessment / Marcus and Millichap / Northridge, CA.** Conducted the pre-purchase condition evaluation of roofing and HVAC systems at a multiple-use facility including retail and medical office tenant spaces. Field

observation and appropriate inquiry of tenants and maintenance contractors identified several items needing immediate repair and others requiring replacement reserves, which were spread over the 10-year reserve period.

- **Physical Assessments / John Hancock Real Estate / Woodland Hills, CA.** Performed PCA and handicap compliance survey of multi-building, 300+ dwelling unit multi-family apartment complex.

- **Property Condition Assessments / Prudential Mortgage Capital Company / Southern California.** Performed multiple physical inspections for commercial and industrial properties including comprehensive evaluation of building systems, review of code compliance issues and life-cycle replacement reserve analysis.

- **Property Condition Assessments / Merrill Lynch Mortgage Capital / Southern California.** Performed multiple physical inspections on various retail, office and industrial properties throughout California.

- **Building Evaluations / Various Clients / California. C**ompleted numerous PCAs for multiple clients, including real estate investors/developers and financial institutions. Project sites have involved industrial, commercial, and multi-family residential properties. Services have included code compliance, cost estimating, termite and water damage inspections, and structural and HVAC system evaluations.

- **Property Condition Assessments / UBS Warburg / Southern California.** Performed multiple physical inspections in conformance with ASTM E2018-99 standards on U-Haul properties in southern California.

- **Property Condition Assessments / Sares Regis Group / Westminster, CA.** Performed due diligence PCA with handicap compliance survey of 32-building apartment complex in southern California.

- **Existing Condition Survey / ADR/Preferred Business Properties / West Hollywood, CA.** Performed field surveys, as-built measurements and drafting of floor plans of existing commercial office.

- **Property Condition Screening Report / Barceló Crestline Corporation / Manzanillo, Colimas, Mexico.** Performed a site screen inspection of an all-inclusive, 324-guestroom resort hotel known as the *Karmina Palace*. The project included the comprehensive evaluation of building systems and life cycle immediate and replacement reserve analysis.

- **Property Condition Screening Report / Barceló Crestline Corporation / Farallon, Cocle, Panama.** Performed a site screen inspection of an all-inclusive, 221-guestroom resort hotel known as *Playa Blanca Hotel & Resort*. The project included the comprehensive evaluation of building systems and life-cycle immediate and replacement reserve analysis.

- **Property Condition Screening Report / Barceló Crestline Corporation /, Playa del Carmen, Quintana Roo, Mexico.** Performed site screen inspection of three all-inclusive resort hotels. The project included the comprehensive evaluation of building systems and life-cycle immediate and replacement reserve analysis.

William D. Horner,
Branch Manager - Sacramento

LICENSE AND CERTIFICATIONS

Licensed Engineering Contractor (California A License)
Registered Environmental Assessor I (REA I-05415)
Certified Asbestos Consultant (CA #93-1120)

PROFESSIONAL SUMMARY

ATC Associates Inc, Sacramento, CA (2001-Current). Branch Manager for ATC Sacramento, California office. Responsible for oversight and management of environmental and engineering services provided by Sacramento ATC office, which includes Building Sciences (asbestos/lead/IAQ/mold), Engineering and Construction Management Services (PCA/PML/plan and draw reviews), Environmental (Phase I, II, subsurface, QMR), and Environmental Compliance (SPCC and SWPP). Responsible for overall sales, marketing and P&L. In addition, Mr. Horner is the Director for PCA Services for the Western Region, responsible for managing and coordinating the PCA and seismic surveys for WA, OR, CA, NV, AZ, NM, CO, UT, ID, MT and WY.

CAL Inc., Vacaville, CA (1992-2001). Vice President of Operations. Responsible for overall sales and operations for the company, including the construction, remediation, abatement, training and environmental consulting divisions. In addition, Mr. Horner was the Division Manager for the Construction and Abatement Divisions, responsible for estimating and managing construction projects in CA, NV, AL, and AR. The company's revenue increased from $2M/yr to $15M/yr during his tenure.

LWA & Associates Inc (1990-1992). Senior Project Manager and Instructor for LWA & Associates. Primarily conducted asbestos and lead surveys, including private and government, hospitals, commercial buildings and residential. Mr. Horner conducted site visits, prepared project designs, provided asbestos and lead consulting and on-site project management. As an instructor for a subsidiary of LWA (NCEI), Mr. Horner was responsible for development of training curriculum, classroom exercises, and environmental health and safety courses.

Department of Army, Sacramento Army Depot (1982-1990). Construction Inspector/ Construction Manager at Sacramento Army Depot, Sacramento, California. Mr. Horner reported to Base Facilities Engineer and Director for Engineering and Logistics, managing a construction program estimated at $10,000,000 per year. As the senior construction inspector, he performed inspections on a number of different types of construction projects, varying in size and complexity. Mr. Horner performed constructability reviews and design reviews for proposed projects. Mr. Horner also acted as the primary liaison with the Corps of Engineers and approved all draw requests at the base.

EDUCATION

- Sacramento City College, Engineering Drafting
- California State University, Sacramento, Construction Management

PROFESSIONAL EXPERIENCE

- **Property Condition Assessments / Various Clients / Various Locations Throughout the U.S.** Performed and reviewed over 300 property condition assessments at low/mid/high-rise office buildings, retail, hotel, senior living, apartments, and light industrial/ warehouse facilities throughout the country. The diversity of site locations has provided a wide range of experience with various construction methods and local regulatory environments. These assessments typically include investigation of pavements, site/civil, building structure, mechanical/electrical/ plumbing equipment, vertical transportation, fire protection, and architectural finishes. These assessments also typically include limited building code and zoning compliance reviews as well as a cursory Americans with Disabilities Act checklist. The assessments include identification of constraints on future development, suggested repair actions, and cost estimates and capital reserves for repairs.

- **Loan Monitoring Services / Various Clients / Various Locations Throughout the U.S.** These projects generally include performance of periodic site visits to determine the percentage of work completed, general condition of work performed, conformance with plans and specifications, and adherence to project schedule and budget; review of escrow draw documents submitted by borrower for accuracy and completeness; determination of whether budgeted project escrow funds remaining are sufficient to complete the work; evaluation of potential scheduling delays; evaluation of inflationary impacts on escrow budget; review and calculation of applicable retainage and stored values to verify compliance with requirements of loan documents; and provide written reports of observations.

- **Construction Management/ Various Clients/ Various Locations Throughout the U.S.** Estimated projects between $5,000 and $5M. Acted as the senior project manager for numerous construction projects varying in size and complexity. Projects included new construction and renovation for public and private entities including colleges, universities and military installations.

- **Construction Management/ Sacramento Army Depot.** Acted as the senior construction inspector and project manager for a $10M construction program. Acted as the primary liaison between the Corps of Engineers and the Sacramento Army Depot. Responsibilities included plan review, submittal review, draw reviews, inspection of construction, change order review/ approval and project administration.

- **Asbestos Abatement Consultant Services/ Various Clients / Various Locations in California and Nevada.** Performance of air monitoring and observation of contractor work practices during abatement. Responsibilities include maintenance of a field log documenting contractor work practices, progress of work and compliance with specifications; collection of area air samples for analysis; collection of bulk samples to be submitted to the laboratory for analysis by Polarized Light Microscopy; photographic documentation recording project site conditions, construction means and methods and various construction phases and activities; and compilation of progress meeting minutes.

- **Asbestos Survey Services / Various Clients / Various Locations in California and Nevada.** Performance of surveys of commercial/industrial buildings and schools in accordance with Asbestos Hazards Emergency Response Action (AHERA) protocol to determine the presence, location and quantity of ACM. These reports typically include the following for identified ACM: descriptions of hazard assessments, recommended preventative measures and/or response actions, plan for reinspection of ACM, program for informing workers and building occupants, and evaluation of resources needed to implement recommendations made.

- **Asbestos Abatement Construction Management/ Various Clients / Various Locations in California and Nevada.** Provide consulting services to building owners for abatement projects, including design development submittals, plan and specification preparation, addendum preparation, preparation of bidding documents, bid review/evaluation, contract administration, and contractor submittal review. Clients have included school districts and commercial property owners and managers.

SPECIALIZED TRAINING

Construction and Engineering

- ATC, Property Condition Assessment and Probable Maximum Loss Training
- Corps of Engineers Construction Quality Control and Verification Training
- Corps of Engineers, Flexible Pavement Inspection Training
- Corps of Engineers, Electrical Inspection Training
- University California Long Beach, PERT and CPM Training
- University of California, Long Beach, Public Works Contracting
- US Army Logistics Management College, Contracting Officers Representative

Asbestos, Lead, Microbial and IAQ

- ATC, Microbial Investigations and Assessments
- AHERA Asbestos Inspector/ Management Planner
- AHERA Project Designer
- AHERA Supervisor
- Radiation Safety Training
- Certified Operator for Niton X-Ray Fluorescence Analyzer
- Certified Advanced Operator of the Scitec X-Ray Fluorescence Spectrum Analyzer

Environmental

- University California Davis, Conducting Environmental Evaluations: Assessments and Audits
- University California Davis, UST Installation
- University California Davis Ground Water Modeling for Remedial Actions
- University California Davis Sampling Strategies and Techniques for Contaminated Soils
- University California Davis Field Monitoring and Sampling

Appendix F:

Condition Evaluation Definitions and Common Abbreviations

Definitions of the terms used in this PCA report to describe average or overall conditions are listed below.

Good: Average to above-average condition for the building system or materials assessed, with consideration of its age, design, and geographical location. Generally, other than normal maintenance, no remedial work is recommended or required.

Fair: Average condition for the building system evaluated. System is aging and some work is required or recommended, primarily due to normal aging and wear of the building system, to return the system to a good condition.

Poor: Below average condition for the building system evaluated. Significant work (major repair or replacement) should be anticipated to restore the building system or material to an acceptable condition.

Where it seemed more appropriate, ATC assigned combination assessments such as "good to fair" in evaluating various construction components.

Common Abbreviations

AC:	Alternating Current	**HID:**	High-Intensity Discharge (Lighting)
ADA:	Americans with Disabilities Act	**HP:**	Horsepower
AHU	Air Handling Unit	**HVAC:**	Heating, Ventilation & Air Conditioning
BLDG:	Building	**IN:**	Inches
BOCA:	Building Officials & Code Administrators	**KVA:**	Kilovolt Ampere
BTU:	British Thermal Unit	**LF:**	Linear Feet
BUR:	Built-Up Roofing	**MBH:**	Thousand BTUs per Hour
CF:	Cubic Feet	**MEP:**	Mechanical, Electrical and Plumbing
CFM:	Cubic Feet per Minute	**NLA:**	Net Leasable Area
CIP:	Cast Iron Pipe	**NO:**	Number
CMP:	Corrugated Metal Pipe	**NRA:**	Net Rentable Area
CMU:	Concrete Masonry Unit	**OSB:**	Oriented Strand Board
CY:	Cubic Yard	**PSI:**	Pounds per Square Inch
DC:	Direct Current	**PVC:**	Polyvinyl Chloride
EA	Each	**RTU:**	Roof-Top Unit (HVAC)
EIFS:	Exterior Insulation Finish System	**RUL**	Remaining Useful Life
EMT:	Electrical Metallic Tubing (Conduit)	**SBC:**	Standard Building Code
EPDM:	Ethylene Propylene Diene Monomer	**SF:**	Square Feet
EUL	Expected Useful Life	**SY:**	Square Yard
F:	Fahrenheit	**UBC:**	Uniform Building Code
FT:	Feet	**UL:**	Underwriters Laboratory
GBA:	Gross Building Area	**VAV:**	Variable Air Volume
GPM:	Gallons Per Minute	**VWC:**	Vinyl Wall Covering

Appendix G:

Work Item Recommendation Definitions

As part of this project, ATC has identified deferred maintenance and capital expense items recommended at the Property. Preliminary opinions of cost have been developed for each repair and maintenance recommendation, and each recommendation has been classified as Immediate Needs (items requiring work at this time) or Physical Needs Over the Term (items requiring work over the requested evaluation period).

Immediate Needs – Immediate Needs are those repairs that are beyond the scope of regular maintenance and that should be performed at this time. Work that requires action based on its being (i) a material existing or potentially unsafe condition, (ii) material building or fire code violation, (iii) a condition that if left unremedied, has the potential to result in or contribute to a critical element or system failure within one year and will probably result in a significant escalation of remedial costs, or (iv) poor or deteriorated condition of a critical element or system.

Immediate Needs shall be further categorized as "Required" or "Recommended." Required is defined that ATC understands a law, regulation, regulatory guideline or industry standard, mandates that the item be corrected. Recommended is defined that it is good industry practice to correct these deficiencies. Appendix A notes whether Immediate Needs are Required or Recommended.

Short-Term Needs – Costs to remedy physical deficiencies, such as deferred maintenance, which may not warrant immediate attention, but require repairs or replacements that should be undertaken on a priority basis in addition to routine preventative maintenance. The timeframe for such repairs or replacements is in Year 1.

Physical Needs Over the Term (Years 1 Through Reserve Term) – Physical Needs Over the Term are items needing repair or replacement that are beyond the scope of regular maintenance but are necessary to maintain the overall condition of the Property. These include major recurring probable expenditures, which are neither commonly classified as an operation, nor maintenance expense. Physical Needs Over the Term are reasonably predictable both in terms of frequency and cost; however, they may also include components or systems that have an indeterminable life, but nonetheless have a potential liability for failure within an estimated time period.

Routine Maintenance Needs – Routine Maintenance Needs are those repair and maintenance items that can be considered regular ongoing (annual) repair and maintenance that may be performed by property management as part of annual operating expenditures; therefore costs may be excluded from the report. Typical items considered to be routine maintenance may include, but are not limited to the following: asphalt pavement seal coat, restriping, and minor repair; concrete pavement restriping and minor repair; minor and recurring exterior painting, caulking and finish repair; minor and recurring pavement, parking garage, roof and HVAC equipment repairs; normal tenant space and common area interior finish repair and replacement; and tenant space build-out.

Appendix H:

Deviations from the Guide

This Property Condition Assessment was prepared in general accordance with the ASTM E2018-01 "Standard Guide for Property Condition Assessments: Baseline Property Condition Assessment Process". ASTM E2018-01 requires that any deviations from the guide be so stated in the report. Items required by ASTM E2018-01 have been included in this PCA and report. Additional "non-scope" items were addressed at the request of the Client or provided as value added considerations. These include the following:

- A limited assessment of ADA accessibility (Tier I) included a visual review of the following components: exterior path-of-travel, parking, elevators and public toilet rooms (each as applicable). No measurements were conducted.
- Preparation of the Immediate Needs, Short-Term Needs and Physical Needs Over the Term table based upon a reserve term provided by the Client.
- Provision of a statement on the Property's Remaining Useful Life.
- Provision of a Property Summary Table.
- Determination of geographic Uniform Building Code Seismic Zone.

SERVICE ✓
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WATER TREATMENT SPECIALISTS

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MSDS ✓

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TEL: (858) 565-2462 FAX: (858) 565-2575

CORPORATE OFFICE
TEL: (310) 532-8611 FAX: (310) 719-9502

CENTRAL VALLEY OFFICE
TEL: (559) 561-2320 FAX: (559) 561-2320

FIELD REPORT - ANALYSIS AND OPERATING CONDITIONS

DATE: 11/29/12	ROUTE#: N432	ORDER#:	ATT: Pat
CUSTOMER NAME: CBRE		ROUTE NAME:	
ROUTE ADDRESS: 22801 Roscoe Blvd.		CITY: West Hills	
REP: FJ		TIME OF DAY: 10:40	

MAKE UP - MU, COOLING TOWER - CT, EVAP CONDENSER - EC, OPEN FLUID COOLER - FC, CLOSED SYSTEM - CW OR HW OR CC, STEAM BOILER - SB, CONDENSATE - SC

SAMPLE SOURCE →	1 MU	2 CT	3 CW	4 HW	5	6	CONTROL LIMITS CT	CW	HW
Conductivity, umhos/cm	400	1300	3000	2000			3030C	3800	2800
Set Point		1200							
Cycles of Concentration		3.3							
pH	8.1	8.8	10.2	9.5					
"P" Alkalinity ppm									
"T" Alkalinity ppm									
Chloride ppm	40	120							
Calcium Hardness ppm		300							
Total Hardness ppm	80	260							
Phosphate Cycle ppm		3.2							
Sulfite ppm									
Iron ppm									
Molybdenum ppm									
Nitrite ppm			1480	720				900-1200	1000-1,500
Phosphonate ppm		4					4-6		
PMP		100 h							
Dkm 3030C		2/3							
EO		Full							

COMMENTS

CT- Levels ok.

CW- Levels ok.

HW- Customer will circulate system soon. Chemical in pot feeder.

Rep Signature:

Customer Signature: Left copy on chair

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As we celebrate
Over 50 years of service!

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CENTRAL VALLEY OFFICE
TEL: (559) 561-2320 FAX: (559) 561-2320

FIELD REPORT - ANALYSIS AND OPERATING CONDITIONS

DATE: 11/29/12	ROUTE#: N431	ORDER#:	ATT: Pat
CUSTOMER NAME: CBRE		ROUTE NAME: Central Plant	
ROUTE ADDRESS: 8415 Fallbrook		CITY: West Hills	
REP: KJ		TIME OF DAY: 9:30	

MAKE UP - MU, COOLING TOWER - CT, EVAP CONDENSER - EC, OPEN FLUID COOLER - FC, CLOSED SYSTEM - CW OR HW OR CC, STEAM BOILER - SB, CONDENSATE - SC

SAMPLE SOURCE →	1 MU	2 CT	3 CW	4 CW Meter	5 HW	6 HW Meter	CONTROL LIMITS CT	CW	HW
Conductivity, umhos/cm	400	1100	2300	78105	500	380.87	3050c	3800	3800
Set Point		1200							
Cycles of Concentration		2.8							
pH	8.1	8.8	9.0		8.8				
"P" Alkalinity ppm									
"T" Alkalinity ppm		180							
Chloride ppm	40	120							
Calcium Hardness ppm		3.0							
Total Hardness ppm	80	260							
Phosphate ~~Cyclo~~ ppm		~~8~~							
Sulfite ppm		3.3							
Iron ppm									
Molybdenum ppm									
Nitrite ppm			800		120			900-1200	900-1200
Phosphonate ppm		14					8-14		
Pump		100%							
Dram 3050c M348		1/2							
		1/4							

COMMENTS

CT- Levels ok, cleaned the probe. Added 15 gal of 3050c (on site) + water to drum. Replaced coupons. Dropped of ED buckets. Added 10 gal M348 (on site) to drum.

CW- Levels slightly low but ok.

HW- System doesn't hold chemical.

Rep Signature: [signature]

Customer Signature: Left copy on chair

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As we celebrate
Over 50 years of service!

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STATE CERTIFIED LABORATORY
WASTE WATER ANALYSIS
POLLUTION MONITORING
WATER TREATMENT

Corrosion Test Report

October 8, 2012

Report#: C6572

RECEIVED
OCT 23 2012
By

ATTN: Building Engineer
Central Plant

8415 Fallbrook Ave
West Hills, CA 91304-

RE: Corrosion Test - Strip Type
CENTRAL PLANT, 8415 FALLBROOK AVE, WEST HILLS, CA
N431.1 8415 CP Cooling Tower, Treatment: 3050C
Location of test strip: Corrosion Coupon Rack

Test Data:

Coupon Number: 6572
Coupon Metal: Copper

Date Installed: 05/01/2012
Date Removed: 08/29/2012
Days Exposed: 120

Original Weight: 9.8630 g
Final Weight: 9.8589 g
Weight Loss: 0.0041 g

Test Results:

Corrosion Rate: <0.001 millimeters per year
0.030 milliinches per year

Comments:

Test results indicate an excellent corrosion rate.
Visual inspection of coupon indicates general corrosion.

Respectfully Submitted,
Chem Pro Laboratory, Inc.

Michael Bortnik
Chemical Director

cc: files
bcc:

All reports are submitted as the confidential information of clients. Publication from or regarding our reports is reserved pending our written approval.

CHEM PRO LABORATORY, INC.
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STATE CERTIFIED LABORATORY
WASTE WATER ANALYSIS
POLLUTION MONITORING
WATER TREATMENT

Corrosion Test Report

October 8, 2012

Report#: I6692

ATTN: Building Engineer
Central Plant

8415 Fallbrook Ave
West Hills, CA 91304-

RE: Corrosion Test - Strip Type
CENTRAL PLANT, 8415 FALLBROOK AVE, WEST HILLS, CA
N431.1 8415 CP Cooling Tower, Treatment: 3050C
Location of test strip: Corrosion Coupon Rack

Test Data:

Coupon Number: 6692
Coupon Metal: Steel

Date Installed: 05/01/2012
Date Removed: 08/29/2012
Days Exposed: 120

Original Weight: 7.6867 g
Final Weight: 7.5336 g
Weight Loss: 0.1531 g

Test Results:

Corrosion Rate: 0.037 millimeters per year
1.441 milliinches per year

Comments:

Test results indicate a very good corrosion rate.
Visual inspection of coupon indicates general corrosion.

Respectfully Submitted,
Chem Pro Laboratory, Inc.

Michael Bortnik
Chemical Director

cc: files
bcc:

All reports are submitted as the confidential information of clients. Publication from or regarding our reports is reserved pending our written approval.

95 786007

RECORDING REQUEST BY

WHEN RECORDED RETURN TO:

Hughes Aircraft Company
Building C01, MS A162
P.O. Box 80028
Los Angeles, California 90080-0028
Attention: Mr. William D. Messori

RECORDED/FILED IN OFFICIAL RECORDS
RECORDER'S OFFICE
LOS ANGELES COUNTY
CALIFORNIA
MAY 17 1995 AT 8 A.M.

12 $40

SPACE ABOVE THIS LINE RESERVED FOR RECORDER'S USE

TITLE(S)

FEE $ 79.00 I 25

STATEMENT REGARDING REMEDIATION COVENANTS

R422 6/94

Description: Los Angeles,CA Document-Year.DocID 1995.786007 Page: 1 of 25
Order: bob Comment:

WHEN RECORDED RETURN TO:

Hughes Aircraft Company
Building C01, MS A162
P.O. Box 80028
Los Angeles, California 90080-0028
Attention: Mr. William D. Messori

STATEMENT REGARDING REMEDIATION COVENANTS

THIS STATEMENT REGARDING REMEDIATION COVENANTS ("**Statement**") dated as of May 15, 1995, is executed by HUGHES AIRCRAFT COMPANY, a Delaware corporation ("**Hughes**"), and THE VALLEY JOB RECOVERY CORPORATION, a California nonprofit public benefit corporation ("**Valley**").

A. Substantially concurrently with the execution hereof, Hughes conveyed to Valley certain real property more particularly described in the legal description attached hereto as Exhibit "A" and incorporated herein by this reference (the "**Property**").

B. In connection therewith, Hughes and Valley desire to execute and record this Statement upon the terms set forth below.

NOW THEREFORE, in consideration of the covenants, conditions and agreements set forth herein, and other good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the parties hereto provide as follows:

1. **Definitions.**

1.1 **Current Environmental Laws.** "**Current Environmental Laws**" shall mean any and all federal, state, municipal and local laws, statutes, ordinances, rules, regulations, orders, and decrees, in effect as of the date hereof, pertaining to the use, generation, manufacture, production, storage, release, emission, discharge, disposal, handling, treatment, removal, decontamination, clean-up, transportation or regulation of any Hazardous Substance as defined in Paragraph 1.3 of this Statement. Environmental Laws shall include, without limitation, the Comprehensive Environmental Response Compensation Liability Act of 1980

95 786007 1401887-9

Description: Los Angeles,CA Document-Year.DocID 1995.786007 Page: 2 of 25
Order: bob Comment:

("CERCLA"), 42 U.S.C. Sections 9601, et seq., the Resource Conservation and Recovery Act of 1976 ("RCRA") 42 U.S.C. Sections 6901, et seq., the Hazardous Materials Transportation Act, 49 U.S.C. Section 1801 et seq., the Clean Water Act, 33 U.S.C. § 1251 et seq., the California Health and Safety Code § 25100, et seq., the California Health and Safety Code § 25300 et seq., the Porter Cologne Water Quality Control Act, California Water Code § 13000 et seq., and the California Health & Safety Code § 25500 et seq.

1.2 **Updated Environmental Laws**. **"Updated Environmental Laws"** shall mean any and all federal, state, municipal and local laws, statutes, ordinances, rules, regulations, orders, and decrees, now in effect and as amended from time to time hereafter, pertaining to the use, generation, manufacture, production, storage, release, emission, discharge, disposal, handling, treatment, removal, decontamination, clean-up, transportation or regulation of any Hazardous Substance as defined in Paragraph 1.3 of this Statement. Updated Environmental Laws shall include, without limitation, CERCLA, RCRA, the Hazardous Materials Transportation Act, 49 U.S.C. Section 1801 et seq., the Clean Water Act, 33 U.S.C. § 1251 et seq., the California Health and Safety Code § 25100, et seq., the California Health and Safety Code § 25300 et seq., the Porter Cologne Water Quality Control Act, California Water Code § 13000 et seq., and the California Health & Safety Code § 25500 et seq. as such statutes may be amended from time to time hereafter.

1.3 **Hazardous Substance**. **"Hazardous Substance"** shall mean any "hazardous substance," "toxic substance," "hazardous waste" or "hazardous material" as defined in one or more Current Environmental Laws, petroleum hydrocarbons including crude oil or any fraction thereof, polychlorinated biphenyls, any toxic, flammable, explosive or radioactive substance, waste, material, or matter, and any other substance, material, waste, pollutant, contaminant or matter regulated by one or more Current Environmental Laws. However, Hazardous Substance shall exclude non-friable, un-released asbestos utilized in or incorporated into any existing building, structure, or other Improvement on the Property.

1.4 **Fee Owner**. **"Fee Owner"** shall mean any person or entity that acquires fee title to any portion or all of the Property after the date hereof.

95 786007

Description: Los Angeles,CA Document-Year.DocID 1995.786007 Page: 3 of 25
Order: bob Comment:

1.5 **Release**. "**Release**" shall mean any release, discharge, emission or disposal as defined under any Current Environmental Law of a Hazardous Substance in, on, under, about or from the Property or any portion thereof, including any migration of a Hazardous Substance from the Property or any portion thereof to, in, on, under or about any adjacent or other portion of the Property or any other property.

1.6 **Releases and Conditions Relating to Hughes**.

1.6.1 **Known Releases**. "**Known Releases**" shall mean the Releases known to exist as of the date hereof and set forth on the list of known releases ("**List of Known Releases**") attached hereto as Exhibit "B."

1.6.2 **Hughes Party Release**. "**Hughes Party Release**" shall mean any Release which results from the acts or omissions of Hughes or any affiliate, agent, employee, tenant or contractor of Hughes or of any other occupant of the Property during periods of time during which Hughes (or any affiliate of Hughes) was the owner in fee of all or any portion of the Property (collectively, "**Hughes Responsible Parties**") on the Property which is required to be reported, investigated and/or remediated under any then effective Updated Environmental Law.

1.7 **Valley Release**. "**Valley Release**" shall mean any Release which results from the acts or omissions of Valley, any tenant or subtenant of Valley, any other occupant of any portion of the Property holding under Valley, or any of their respective affiliates, agents, employees or contractors (collectively, "**Valley Responsible Parties**") which is required to be reported, investigated and/or remediated under any then effective Updated Environmental Law. Notwithstanding the foregoing, the parties agree that the mere migration across or under the Property of a pre-existing Hughes Party Release shall not constitute a Valley Release hereunder.

1.8 **Fee Owner Release**. "**Fee Owner Release**" shall mean any Release which results from the acts or omissions of any Fee Owner, any tenant or subtenant of any Fee Owner, any other occupant of any portion of the Property holding under any Fee Owner, or any of their respective affiliates, agents, employees or contractors (collectively, "**Fee Owner Responsible Parties**") which is required to be reported, investigated and/or remediated under any Updated Environmental Laws.

95 786007

Description: Los Angeles,CA Document-Year.DocID 1995.786007 Page: 4 of 25
Order: bob Comment:

1.9 **Satisfaction of Jurisdictional Agencies**. **"Satisfaction of Jurisdictional Agencies"** means with respect to a particular act, condition or event which under then applicable Updated Environmental Laws requires the approval of one or more governmental entities asserting jurisdiction over the environmental condition of the Property (**"Jurisdictional Agencies"**), the approval, consent or other acknowledgment by the appropriate Jurisdictional Agency or Agencies that such Jurisdictional Agency or Agencies will not challenge or contest such act, condition or event; provided, however, that any reference contained herein to Satisfaction of Jurisdictional Agencies shall not prejudice the right of any party seeking the same to negotiate for, contest, challenge or appeal any particular decision, standards or determination of any Jurisdictional Agency.

2. **Notice and Identification Issues**.

2.1 **Hughes Notice to Valley and Fee Owners**. Hughes shall, within a reasonable period after its discovery thereof, notify Valley and any then current or prior Fee Owner of the portion of the Property affected, of the discovery (or receipt of written notice other than through this Paragraph 2) by Hughes of any Release in, on, under or about the Property required to be reported under any then effective Updated Environmental Law.

2.2 **Valley Notice to Hughes**. Valley shall, within a reasonable period of time after its discovery thereof, notify Hughes and any then current or prior Fee Owner of the portion of the Property affected, of the discovery (or receipt of written notice other than through this Paragraph 2) by Valley of any Release in, on, under or about the Property required to be reported under any then effective Updated Environmental Law.

2.3 **Fee Owner Notice to Hughes**. Each Fee Owner within a reasonable period of time after its discovery thereof, notify Hughes, Valley and any then current or prior Fee Owner of the portion of the Property affected, of the discovery (or receipt of written notice other than through this Paragraph 2) by such Fee Owner of any Release required to be reported under any then effective Updated Environmental Law.

95 786007

Description: Los Angeles,CA Document-Year.DocID 1995.786007 Page: 5 of 25
Order: bob Comment:

3. Investigation, Remediation and/or Closure of Releases and Conditions.

3.1 General Covenants.

3.1.1 Procedure to Address Known Releases. Subject to the provisions of Paragraph 3.2, and except for the No-Action Releases (defined in Paragraph 3.2.1(b)), if not prepared prior to the date hereof, Hughes shall prepare or continue to prepare and/or process the remediation plan or plans (each, a "**Remediation Plan**") for each Known Release in, on, under, on or about the Property in order to obtain all required regulatory approvals for commencement of such Remediation Plans ("**Commencement Approvals**"), and Hughes shall, subject to any delays arising due to force majeure events following procurement of such Commencement Approvals, prosecute such Remediation Plans (as may be modified from time to time subject to the approval standards in Paragraph 3.2.5) to completion with reasonable diligence in compliance with any then effective Updated Environmental Laws and, if and to the extent required by the Jurisdictional Agencies, to the satisfaction of Jurisdictional Agencies. Upon completion of work under any such Remediation Plan, Hughes shall submit a written request, in a form substantially similar to Exhibit "C" attached hereto, for a written certificate of completion or closure from the appropriate Jurisdictional Agencies. In addition, Hughes shall use reasonable efforts (which the parties acknowledge may, depending on the circumstances, involve no further efforts) to obtain a reasonable written certificate of completion or closure (or other reasonable evidence of governmental approval or acknowledgment of completion or closure of such Remediation Plan), regarding the Known Releases in, under, on or about the Property covered by such Remediation Plan, if or to the extent such certificate of completion (or such other reasonable evidence) is required under the then prevailing practices of or is reasonably available from the Jurisdictional Agencies. As used in this Agreement, "force majeure events" shall mean any delays due to strikes, acts of God, governmental delays or other matters beyond the control of (and not arising due to the failure or misconduct of) the party asserting the force majeure event, but shall exclude the unavailability of labor or materials at reasonable prices and governmental delays to the extent caused by the acts or omissions of the parties hereto. Notwithstanding any provision of this Statement to the contrary, for purposes of this Statement, the term "**Remediation Plans for Known Releases**" shall include all closure plans with respect to Hughes Tank "T-3"

95 786007

Description: Los Angeles,CA Document-Year.DocID 1995.786007 Page: 6 of 25
Order: bob Comment:

and the Hughes Hazardous Waste Storage Facility covered by the RCRA Permit EPA I.D. No. CA 0041162124 issued to Hughes.

3.1.2 **Procedure to Address Hughes Party Releases and Valley Releases.**

(a) In the event that at any time following the date of this Statement, a Hughes Party Release (which is not one of the Known Releases) or a Valley Release is discovered in, on, under or about the Property, Hughes with respect to such Hughes Party Release, or Valley with respect to such Valley Release, shall, within a reasonable period following discovery by such party (or delivery of written notice of such Release to such party from the other party, any Fee Owner, any Jurisdictional Agency or any third party), report such Release, if required under any then applicable Updated Environmental Law, and thereafter commence to investigate the scope and nature of the Release, the possible methods of remediation or closure thereof and the likely remediation standards applicable thereto under any then effective Updated Environmental Law.

(b) Thereafter with reasonable diligence, Hughes with respect to a Hughes Party Release in, on, under or about the Property, or Valley with respect to a Valley Release in, on, under or about the Property, shall prepare a Remediation Plan (which, if determined in good faith to be appropriate under the circumstances, may be a "No-Action Plan" (defined below) or the equivalent thereof) and submit the same for approval, in accordance with Paragraph 3.2, to the other party, any then Fee Owner of any Property affected by such Release and the Jurisdictional Agencies. Following receipt of the Commencement Approvals therefor and, if applicable pursuant to the provisions of this Statement, the approval of the other party or any affected Fee Owner thereof, such party shall, subject to any delays arising due to force majeure events following procurement of such Commencement Approvals, prosecute the implementation of such Remediation Plan (as the same may be modified from time to time subject to the approval standards in Paragraph 3.2.5) to completion with reasonable diligence in compliance with any then effective Updated Environmental Laws, and if and to the extent required by the Jurisdictional Agencies, to the satisfaction of Jurisdictional Agencies.

(c) Upon completion of work under any Remediation Plan, Hughes with respect to any Remediation Plan covering a Hughes Party Release in, on, under or about the Property,

95 786007

Description: Los Angeles,CA Document-Year.DocID 1995.786007 Page: 7 of 25
Order: bob Comment:

and Valley with respect to any Remediation Plan covering a Valley Release in, on, under or about the Property, shall submit a written request, in a form substantially similar to Exhibit "C" attached hereto, for a written certificate of completion or closure from the appropriate Jurisdictional Agencies. In addition, Hughes shall use reasonable efforts (which the parties acknowledge may, depending on the circumstances, involve no further efforts) to obtain a reasonable written certificate of completion (or other reasonable evidence of governmental approval or acknowledgement of completion) with respect to such Remediation Plan if and to the extent such certificate of completion (or such other reasonable evidence) is required under the then prevailing practices of or is reasonably available from the Jurisdictional Agencies.

3.1.3 **Procedure to Address Fee Owner Releases.** In the event that a Fee Owner Release is discovered, the Fee Owner shall:

(a) within a reasonable period following discovery by such Fee Owner (or delivery of written notice of such Release to the Fee Owner from Hughes, Valley, any other Fee Owner, any Jurisdictional Agency or any third party), report such Release (if such reporting is required under any then applicable Updated Environmental Laws), and thereafter commence to investigate the scope and nature of the Release, the possible methods of remediation, and the likely remediation standards applicable thereto under any then applicable Updated Environmental Laws;

(b) thereafter with reasonable diligence, prepare a Remediation Plan and submit the same, in accordance with Paragraph 3.2, to Hughes, Valley, any then Fee Owner of any Property affected by such Release and the Jurisdictional Agencies;

(c) following receipt of the Commencement Approvals therefor and, if applicable pursuant to the provisions of this Statement, the approval of Hughes, Valley or any other affected Fee Owner thereof, subject to any delays arising due to force majeure events following procurement of such Commencement Approvals, promptly commence and thereafter prosecute the implementation of such Remediation Plan (as the same may be modified from time to time subject to the approval standards in Paragraph 3.2.5) to completion with reasonable diligence in compliance with any then effective applicable Updated Environmental Laws and, if and to the extent required by the Jurisdictional

95 786007

Description: Los Angeles,CA Document-Year.DocID 1995.786007 Page: 8 of 25
Order: bob Comment:

Agencies, to the satisfaction of the Jurisdictional Agencies; and

(d) upon completion of any work under such Remediation Plan, submit a written request, in a form substantially similar to Exhibit "C" attached hereto, for a written certificate of completion or closure from the appropriate Jurisdictional Agencies. In addition, the Fee Owner shall use reasonable efforts (which the parties acknowledge may, depending on the circumstances, involve no further efforts), to obtain a reasonable written certificate of completion (or other reasonable evidence of governmental approval or acknowledgement of completion) with respect to such Remediation Plan if and to the extent such certificate of completion (or such other reasonable evidence) is required under the then prevailing practices of, or is reasonably available from, the Jurisdictional Agencies.

3.2 **Preparation of Remediation Plans.**

3.2.1 **Remediation Plans for Known Releases and Hughes Party Releases.**

(a) The parties hereto agree that, subject to the provisions of this Paragraph 3.2.1 and Paragraph 3.2.5 and both prior to and following the date hereof, Hughes shall have the sole control of the preparation, submission, negotiation and renegotiation, if any, to and with the Jurisdictional Agencies, of each Remediation Plan, if any, applicable to each Known Release and Hughes Party Release to be implemented by Hughes. Hughes shall provide copies of all Remediation Plans, correspondence, permits, reports and data submitted to or received from any Jurisdictional Agencies with respect to each such Release and/or Remediation Plan to Valley and any Fee Owner of any affected portion of the Property. Valley and the Fee Owners shall retain the right to report new Releases as required by Updated Environmental Laws and, subject to the prior approval of Hughes (which approval shall not be unreasonably withheld or delayed), to communicate and negotiate with the Jurisdictional Agencies to the extent necessary provide for Valley's or the Fee Owner's use, occupancy and development of the Property; provided, however, that any such communications and/or negotiations of Valley and/or the Fee Owners shall be reasonably coordinated with Hughes and shall not directly address the details of any proposed Remediation Plan for which Hughes shall be responsible. Notwithstanding the foregoing, in the case where Valley or any Fee Owner shall have agreed to bear (or Hughes has asserted that such

95 786007

Description: Los Angeles,CA Document-Year.DocID 1995.786007 Page: 9 of 25
Order: bob Comment:

party should bear, to the extent that and for so long as such issue has not been resolved in favor of Valley or the Fee Owner) any direct cost of implementing any Remediation Plan applicable to a Known Release or a Hughes Party Release, Valley or the Fee Owner, as the case may be, shall have the right to review and reasonably approve, to the same extent as Hughes, the preparation, submission, negotiation and renegotiation of those issues relevant to those portions of the Remediation Plan with respect to which Valley or the Fee Owner, as the case may be, has agreed to bear the cost (or Hughes has asserted that such party should bear the cost).

(b) Valley acknowledges that with respect to certain of the Known Releases, described on Exhibit "B" as the "No-Action Known Releases" (the "**No-Action Releases**"), Hughes is proposing (or has previously proposed to the Jurisdictional Agencies) that the Jurisdictional Agencies approve Hughes' written plan not to remediate the No-Action Releases (the "**No-Action Plan**"). Subject to Valley's rights set forth in this Paragraph 3.2.1 and in Paragraph 3.2.5 and to any modification or reopening of such No-Action Plan based on new information or as required to comply with any Updated Environmental Laws or to satisfy Jurisdictional Agencies, Valley hereby approves and agrees to not contest or take any action to oppose or modify the No-Action Plan.

(c) The parties hereto agree that in the event that Hughes shall, following the date hereof, materially modify any Remediation Plan for a Known Release or a Hughes Party Release (or convert any portion of the No-Action Plan to a Remediation Plan) or any other Remediation Plan of Hughes previously approved by Valley pursuant to this Paragraph 3.2.1, that affects any portion of the Property owned by a Fee Owner during the Fee Owner's ownership of the same, such material modification shall be subject to the prior written approval of such Fee Owner, which approval shall be subject to the provisions of Paragraph 3.2.5.

(d) Notwithstanding any provision of this Statement to the contrary, for purposes of determining when any modification, revision or amendment of a particular Remediation Plan shall be considered a "material" amendment or modification, (i) all activities, actions or elements confirmed or reasonably contemplated by any proposed modification, revision or amendment to such Remediation Plan which are called for or contemplated by any other Remediation Plan previously submitted to Valley and any affected Fee Owner shall not be considered to be a

95 786007

Description: Los Angeles,CA Document-Year.DocID 1995.786007 Page: 10 of 25
Order: bob Comment:

modification to the Remediation Plan in question and shall be disregarded in the consideration of whether the overall proposed modification, revision or amendment shall be considered a "material" modification or amendment thereto, and (ii) the parties shall consider only those new activities, actions or elements contained in or contemplated by the proposed modification, revision or amendment to the Remediation Plan in question (and which are not contained in or contemplated by any Remediation Plan previously submitted to Valley and any affected Fee Owner). The parties acknowledge that although the change reflected in a particular modification or amendment may not be material (and accordingly not subject to approval hereunder), the change reflected in an aggregate of several individually immaterial modifications may, as an aggregate, be considered material.

3.2.2 **Remediation Plans for Valley Releases**. The parties hereto agree that, subject to the provisions of Paragraph 3.2.5, Valley shall have the sole control of the preparation, submission, negotiation and renegotiation, if any, to and with the applicable Jurisdictional Agencies of the Remediation Plan applicable to each Valley Release to be implemented solely by Valley. Valley shall provide copies to Hughes of all Remediation Plans, correspondence, permits, reports and data submitted to or received from any Jurisdiction Agencies. Hughes shall retain, however, the right to report new Releases as required by Updated Environmental Laws. Notwithstanding the foregoing, in the case where Hughes shall have agreed to bear (or Valley has asserted that Hughes should bear, to the extent and for so long as such issue has not been resolved in favor of Hughes) any direct cost of implementing any Remediation Plan applicable to a Valley Release, Hughes shall have the right to review and reasonably approve, to the same extent as Valley, the preparation, submission, negotiation and renegotiation of those issues relevant to those portions of the Remediation Plan with respect to which Hughes has agreed to bear the cost (or Valley has asserted that Hughes should bear the cost).

3.2.3 **Remediation Plans for Fee Owner Releases**. Subject to the provisions of Paragraph 3.2.5, Fee Owner shall have the sole control of the preparation, submission, negotiation and renegotiation, if any, to and with the applicable Jurisdictional Agencies of the Remediation Plan applicable to each Fee Owner Release to be implemented solely by Fee Owner. Fee Owner shall provide copies to Hughes, Valley and prior Fee Owners of all

95 786007

Description: Los Angeles,CA Document-Year.DocID 1995.786007 Page: 11 of 25
Order: bob Comment:

Remediation Plans, correspondence, permits, reports and data submitted to or received from any Jurisdiction Agencies. Hughes shall retain the right to report new Releases as required by Updated Environmental Laws. Notwithstanding the foregoing, in the case where Hughes shall have agreed to bear (or any Fee Owner has asserted that Hughes should bear, to the extent that and for so long as such issue has not been resolved in favor of Hughes) any direct cost of implementing any Remediation Plan applicable to a Fee Owner Release, Hughes shall have the right to review and reasonably approve, to the same extent as such Fee Owner, the preparation, submission, negotiation and renegotiation of those issues relevant to those portions of the Remediation Plan with respect to which Hughes has agreed to bear the cost (or such Fee Owner has asserted that Hughes should bear the cost).

3.2.4 **Remediation Plans for Releases Attributable to More Than One Entity.**

(a) Notwithstanding any provision of this Statement to the contrary, in the event that remediation or corrective action is required by the Jurisdictional Agencies of a Release or a condition that constitutes a mixture of a Known Release or a Hughes Party Release and a Valley Release and/or a Fee Owner Release ("**Mixed Release**"), and the Remediation Plans for the Releases can reasonably be severed, then Hughes as to any Known Release or Hughes Party Release, Valley as to any Valley Release and/or Fee Owner as to any Fee Owner Release, shall prepare, submit and negotiate with the Jurisdictional Agencies the Remediation Plans for the Release, provided, however, that in the event that the Remediation Plan for any Valley Release or Fee Owner Release affects Hughes' remediation, corrective action, closure or other obligations with respect to any Known Release or Hughes Party Release, the Remediation Plan for such Valley Release or Fee Owner Release shall be subject to Hughes' approval pursuant to Paragraph 3.2.5.

(b) In the event that remediation or corrective action is required for a Mixed Release and the Remediation Plan for the Valley Release or Fee Owner Release cannot reasonably be severed from one or more Remediation Plans applicable to one or more Known Releases or Hughes Party Releases (or the implementation thereof), Hughes, Valley and the Fee Owner shall reasonably cooperate in the negotiations with agencies and third parties and in the preparation of modifications to any existing Remediation Plan made necessary by the remediation or corrective action of the

Description: Los Angeles,CA Document-Year.DocID 1995.786007 Page: 12 of 25
Order: bob Comment:

Valley Release or Fee Owner Release, and any new Remediation Plans with respect to such Valley Releases or Fee Owner Releases shall be jointly prepared by Hughes, Valley and the Fee Owner, as the case may be, and subject to the joint approval of Hughes, Valley and/or Fee Owners pursuant to Paragraph 3.2.5.

(c) Notwithstanding any provision of this Statement to the contrary, in the case where (i) the existence, nature or Remediation Plan for a Valley Release or a Fee Owner Release which then independently requires remediation under then effective Updated Environmental Laws materially and adversely affects the cost of remediation of a Known Release or a Hughes Party Release, the party responsible for the Valley Release (Valley) or the Fee Owner Release (the appropriate Fee Owner) shall reimburse Hughes within a reasonable period following written request to do so for an equitable amount of any increased out-of-pocket costs of such remediation so incurred by Hughes, (ii) the existence, nature or Remediation Plan for a Known Release or Hughes Party Release which then independently requires remediation under then effective Updated Environmental Laws materially and adversely affects the cost of remediation of a Valley Release or a Fee Owner Release, Hughes shall reimburse Valley (or the Fee Owner, as the case may be), within a reasonable period following written request to do so, for an equitable amount of any increased out-of-pocket costs of such remediation so incurred by Valley or the Fee Owner, as the case may be, and (iii) Hughes and either Valley or a Fee Owner (or some combination thereof) are jointly remediating a Mixed Release, the costs of remediation of the Mixed Release shall be borne by the parties involved on an equitable basis, taking into account the nature and volume of the Release (to the extent then existing and not previously remediated) for which each party would otherwise be responsible hereunder and the reasonably expected cost of remediation of such Release had there been no mixture of such Releases.

3.2.5 **Remediation Plan Approval Standards.**

(a) Any disapproval by Hughes, Valley or any Fee Owner, of all or of any portion of any Remediation Plan (or modification thereof) shall be based upon one or more of the following and shall not be unreasonably withheld, conditioned or delayed:

95 786007

Description: Los Angeles,CA Document-Year.DocID 1995.786007 Page: 13 of 25
Order: bob Comment:

(i) The proposed Remediation Plan would involve an unreasonable risk of possible bodily injury to individuals;

(ii) In the case of a Remediation Plan for a Known Release or a Hughes Party Release, implementation of the Remediation Plan would result in Hughes's or its agents', employees' or contractors' exclusive use or occupancy of more than five hundred (500) contiguous square feet of rentable area of any portion of the improvements located on the Property or ten (10) contiguous or twenty (20) total parking spaces such that the same would be untenantable for a continuous period of at least three (3) days, unless Hughes agrees to lease such untenantable area at its then net fair market rental value (which net fair market rental value shall be calculated so as to take into account all factors and costs reasonably relevant to the potential net rental value of such area, after deduction of leasing costs) ("**Net Fair Market Rental Value**") for the period of the interference; provided, however, that the provisions of this Paragraph 3.2.5(a)(ii) shall not apply to any such Remediation Plan submitted to any Fee Owner prior to the date hereof, except to the extent any such Remediation Plan is materially modified, revised or amended (and such modification or amendment is submitted to any Fee Owner following the date hereof) under circumstances where the change effected by the modification or amendment (or, if there are more than one such modification or amendment, the changes effected by the modifications and amendments in the aggregate) would result in an increase in Hughes' exclusive use or occupancy which, if viewed alone, would require that Hughes enter into a lease under this Paragraph 3.2.5(a)(ii).

(iii) In the case of a Remediation Plan with respect to a Known Release or a Hughes Party Release, implementation of the Remediation Plan would involve an unreasonable risk of permanent (or semipermanent) damage to the Property; or

(iv) The Remediation Plan does not comply with then applicable Updated Environmental Laws.

(b) Provided the above conditions for approval are met, (i) Hughes shall not be required to remediate any Hughes Party Release or Known Release to any higher, cleaner or more comprehensive standard necessitated by new more sensitive uses of the Property (other than office uses (including uses incidental thereto, to the extent relevant to a particular area) and the use of the existing baseball

95 786007

Description: Los Angeles,CA Document-Year.DocID 1995.786007 Page: 14 of 25
Order: bob Comment:

field for recreational purposes) instituted following the date hereof, and (ii) where alternative remediation methods or technologies are available, Hughes shall retain sole control with respect to the selection of the method or technology to be implemented with respect to remediation of each Known Release or Hughes Party Release without regard to the length of time required to complete (or substantially complete) the remediation of Hazardous Substances thereunder. Notwithstanding the foregoing conditions for approval (or any other provision of this Statement to the contrary), Valley acknowledges and agrees that in no event shall Hughes be required to lease (or pay the Net Fair Market Rental with respect to) any portion of the Property or Improvements due to Hughes' implementation of any Remediation Plan submitted to Valley prior to the date hereof in accordance with the terms thereof (and excluding any modification, revision or amendment submitted following the date hereof).

(c) Each of Hughes, Valley and each Fee Owner shall have the right to reasonably disapprove any modification of all or any portion of any Remediation Plan based upon a determination that the proposed modification would materially extend the time required to complete such Remediation Plan or would materially adversely affect the quality of the results of the remediation, corrective action or closure set forth therein, and that alternative remediation methods are reasonably available which would not so materially extend the time required or materially adversely affect the quality of results.

4. **Records and Reporting**. Each of Hughes, Valley and each Fee Owner shall promptly, (a) provide to each of the other parties copies of any written notice, order, direction or other correspondence received from any regulatory agency, any tenant of the Property or any owner or tenant of any adjacent property or any other third party regarding the existence or release or suspected existence or release of any Hazardous Substance in, on, under or about the Property or any Known Release, Hughes Party Release, Valley Release or Fee Owner Release, and (b) within a reasonable period following receipt of written request to do so, make available for review by the other parties all non-privileged audits, reports and other written materials or communications and all sampling or testing data or results prepared or received by such party with respect to Hazardous Substances released in, on, under, about or from the Property or any Known Releases, Hughes Party Releases, Valley Releases or any Fee Owner Releases.

95 786007

Description: Los Angeles,CA Document-Year.DocID 1995.786007 Page: 15 of 25
Order: bob Comment:

5. Implementation.

5.1 **License and Right of Entry**. Hughes and those agents, employees and contractors of Hughes identified in a written notice provided to Fee Owner not less than forty-eight (48) hours prior to Hughes's initial entry onto the Property pursuant to this Paragraph 17.5.3 (which notice Hughes shall reasonably update to Valley or any Fee Owner of any portion of the Property affected by Hughes' activities from time to time, on an as-needed basis) ("**Hughes Identified Representatives**") are hereby granted an irrevocable license and easement for the period ("**License Period**") commencing as of the date hereof and continuing until all remediation, closure, and investigative and other obligations of Hughes under this Statement have been completed, to enter the Property at any reasonable time (provided that the parties acknowledge that in some cases continuous access on a pre-arranged basis may be required) and from time to time (a) to conduct all investigation, remediation, effluent disposal investigation, corrective action, closure and monitoring activities contemplated hereunder or required for governmental reporting, including the installation, maintenance and removal of underground pipelines, a groundwater treatment plant and other facilities in, on, under or about the Property, and (b) to respond to and investigate, at reasonable times, any claimed Suspected Hughes Release or any third party claims with respect thereto. If Hughes or the Hughes Identified Parties require the exclusive use or occupancy of more than five hundred (500) contiguous square feet of rentable area of any portion of the improvements located on the Property or ten (10) contiguous or twenty (20) total parking spaces such that the same would be untenantable for a continuous period of at least three (3) days, Hughes agrees to lease the same at its then Net Fair Market Rental Value for the period of the interference; and provided, however, that in no event shall Hughes be required to lease (or pay Net Fair Market Rental Value with respect to) any portion of the Property or improvements due to Hughes' implementation of any Remediation Plan submitted to Valley prior to the date hereof in accordance with the terms thereof, except to the extent any such Remediation Plan is materially modified, revised or amended (and such modification or amendment is submitted to Valley or the Fee Owner following the date hereof) under circumstances where the change effected by the modification or amendment (or, if there are more than one such modification or amendment, the changes effected by the modifications and amendments in the aggregate) would result in an increase in Hughes' exclusive use or occupancy which,

95 786007

Description: Los Angeles,CA Document-Year.DocID 1995.786007 Page: 16 of 25
Order: bob Comment:

if viewed alone, would require that Hughes enter into a lease under this Paragraph 5.1. Hughes shall be solely responsible for providing security for the personnel, property and equipment of Hughes and its agents, employees and contractors which enter or are located on the Property.

5.2 **Compliance With Law**. Each of Hughes, Valley and each Fee Owner shall comply with all Updated Environmental Laws applicable to (i) reporting Hazardous Substances known to or discovered by such party, and (ii) the handling, storage, use, generation, release, investigation and remediation of Hazardous Substances. Hughes shall, and shall cause its agents, employees and contractors who enter the Property after the date hereof to, comply with all federal, state and Local laws and regulations applicable to Hughes' use of the license as provided hereunder; provided, however, that the provisions of this sentence shall not apply to, and shall not affect, any party's rights and obligations hereunder with respect to any Release or the remediation thereof.

6. **Pump and Treat; Use of Treated Water in Irrigation**. The parties agree that subject to Hughes' obtaining applicable approvals from the Jurisdictional Agencies with respect thereto and complying with all then applicable Updated Environmental Laws, Valley and each Fee Owner shall (a) cooperate reasonably with (and permit Hughes to implement), at no cost to Valley or Fee Owners (except the cost and expense of Valley or Fee Owner's employees, agents or attorneys), any Remediation Plan proposed by Hughes with respect to a Known Release or a Hughes Party Release which proposes to dispose of treated water produced in connection with such remediation through irrigation (using the current landscape irrigation system) of landscaping on the Property and (b) allow Hughes to utilize other possible on- or off-site disposal methods (including but not limited to storm drain disposal, or use of on-site injection wells) to the extent approved by the applicable Jurisdictional Agencies; provided, however, that any such use or disposal of treated water shall not violate any present or future law, regulation or policy of any Jurisdictional Agency, result in a condition dangerous to human health or safety or cause damage to the existing landscaping on the Property (other than damage that can be and is repaired by Hughes promptly following Hughes' discovery or receipt of written notice from Valley or any Fee Owner thereof).

Description: Los Angeles,CA Document-Year.DocID 1995.786007 Page: 17 of 25
Order: bob Comment:

7. **Removal of Hughes' Remediation Equipment.** Following completion or other lawful termination of any Remediation Plan, Hughes shall, at its expense, remove the groundwater treatment plant and other facilities installed by Hughes on the Property in connection with its remediation activities hereunder and restore the surface of the Property to a reasonable condition (including reasonable compaction and paving) consistent with the surrounding Property and improvements; provided, however, that, in the case of underground pipelines and any other facilities now or hereafter installed below the surface of the Property, Hughes shall be permitted to reasonably abandon the same in place, subject to compliance with then applicable Updated Environmental Laws and, if and to the extent required by the Jurisdictional Agencies, to the Satisfaction of Jurisdictional Agencies, and in a manner that will not unreasonably interfere with Valley's or an affected Fee Owner's reasonable occupancy, use or development of the affected Property.

8. **Asbestos.**

8.1 **Acknowledgement Regarding Asbestos Containing Materials.** Notwithstanding any provision of this Statement or any agreement between Hughes and Valley or any Fee Owner to the contrary, each of Valley and each Fee Owner shall be responsible for, and hereby assume, responsibility for the proper remediation and containment in accordance with Updated Environmental Laws of any and all asbestos or asbestos derivatives now or hereafter located in the buildings or improvements on that portion of the Property owned by such party during such party's ownership of the same.

8.2 **Operations and Maintenance Program.** Each of Valley and each Fee Owner shall implement an operations and maintenance program in accordance with Updated Environmental Laws as to any and all asbestos and asbestos derivatives now or hereafter located in the buildings or improvements on that portion of the Property owned by such party during such party's ownership of the same.

9. **Additional Provisions.** Each of Hughes, Valley and each Fee Owner agree as follows:

9.1 **Hughes Retained Environmental Claims.** Hughes shall retain all claims, rights, actions and remedies (collectively, "**Hughes Retained Environmental Claims**") against each and every third party (i) whose acts or

95 786007

Description: Los Angeles,CA Document-Year.DocID 1995.786007 Page: 18 of 25
Order: bob Comment:

omissions cause (or caused) or contribute (or contributed) to any Hughes Party Release or Known Release or who otherwise would be legally responsible in whole or in part therefor and (ii) whose acts or omissions cause (or caused), or contribute (or contributed) to any increased obligation or expense assumed or incurred by Hughes pursuant to this Statement; provided, however, that Valley and each Fee Owner do not waive or release any claims, rights, actions or remedies they may independently have against third parties.

9.2 **Effect of Breach**. No breach by any Fee Owner (who is not Valley and is wholly independent of Valley) of any obligation provided in this Statement shall (i) constitute a breach by Valley hereunder or under this Statement, or (ii) except as otherwise specifically provided hereunder, modify or invalidate any of Valley's rights under this Statement.

10. **Miscellaneous**.

10.1 **Notices**. All notices or other communications required or permitted hereunder shall be in writing and shall be personally delivered (including by means of professional messenger service) or sent by registered or certified mail, postage prepaid, return receipt requested, by facsimile, or by recognized overnight air courier (e.g., Federal Express) and shall be deemed received upon the date of receipt thereof and addressed as follows:

Valley: Valley Job Recovery Corporation
c/o Valley Industry and Commerce Association
c/o Benjamin M. Reznik, Esq.
Reznik & Reznik
15456 Ventura Boulevard
5th Floor
Sherman Oaks, California 91403-3002
(818) 907-9898 Telephone
(818) 907-8465 Facsimile

Hughes: William D. Messori
Hughes Aircraft Company
Bldg. C01, MS A162
7200 Hughes Terrace
Los Angeles, CA 90045-0066
(310) 568-7354 Telephone
(310) 348-8791 Facsimile

95 786007

Description: Los Angeles,CA Document-Year.DocID 1995.786007 Page: 19 of 25
Order: bob Comment:

with a copy to: Gary Rafferty, Esq.
Hughes Aircraft Company
Bldg. C01, MS A114
7200 Hughes Terrace
Los Angeles, CA 90045-0066
(310) 568-6270 Telephone
(310) 568-7834 Facsimile

with a copy to: Patrick A. Ramsey, Esq.
Paul, Hastings, Janofsky & Walker
555 South Flower Street
Los Angeles, California 90071
(213) 683-6291 Telephone
(213) 627-0705 Facsimile

Notice of change of address shall be given by written notice in the manner detailed in this Paragraph.

10.2 **Termination**. Notwithstanding any provision of this Statement to the contrary, each and all of the obligations of the parties hereto shall terminate and shall be of no further force or effect on the date which is five (5) years following (i) completion of work under all Remediation Plans for Known Releases and Hughes Party Releases in, on or about the Property, and (ii) final resolution or settlement of each claim, action or proceeding by Valley against Hughes or by Hughes against Valley under any provisions of this Statement. Upon the termination of this Statement under the terms hereof, Hughes and Valley shall execute and deliver (at no cost to Hughes and Valley) any and all instruments as may be appropriate to clear this Statement from title to the Property or any portion thereof.

10.3 **Arbitration of Disputes**. Any controversy or claim between or among Hughes, Valley or any Fee Owner relating to Hazardous Substances in, on, under or about the Property or any of the covenants, agreements, rights or obligations set forth in this Statement, shall at the written request of any party be determined by mandatory binding arbitration in accordance with California law and the applicable rules of the American Arbitration Association then in effect subject to reasonable opportunities for mutual discovery.

10.4 **Successors and Assigns**. This Statement shall be binding upon and inure to the benefit of the successors and assigns of the parties hereto.

95 786007

Description: Los Angeles,CA Document-Year.DocID 1995.786007 Page: 20 of 25
Order: bob Comment:

10.5 **Covenants Running With the Land.** Each of the covenants contained in this Statement and in the Additional Agreement (defined below) shall run with the Property and are intended to and shall bind each and every person or entity having any fee interest in any part of the Property at any time and from time to time.

10.6 **Binding Effect.** Each and every agreement, covenant, promise, undertaking, condition, easement, right, privilege, option and restriction made, granted or assumed, as the case may be, by a party is made by such party not only personally for the benefit of the other parties but also as owner of a portion of the Property, and shall constitute an equitable servitude of such portion of the Property for the benefit of other portions of the Property. A transferee of any part of the Property shall automatically be deemed, by acceptance of the title to any portion of the Property, to have assumed all obligations of this Statement relating thereto and to have agreed with the then Fee Owner or Fee Owners of all other portions of the Property to execute any and all instruments and to do any and all things reasonably required to carry out the intention of this Statement.

IN WITNESS WHEREOF, this Statement has been executed by the parties hereto as of the date set forth above.

HUGHES: HUGHES AIRCRAFT COMPANY,
a Delaware corporation

By: _____
M.K. Esposito, Director
of Real Estate

VALLEY: VALLEY JOB RECOVERY CORPORATION,
a California nonprofit public
benefit corporation

By: _____
Name: Benjamin M. Reznik
Title: President

LIST OF EXHIBITS

A Legal Description of the Property
B List of Known Releases
C Form of Request for Closure

95 786007

Description: Los Angeles,CA Document-Year.DocID 1995.786007 Page: 21 of 25
Order: bob Comment:

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of CALIFORNIA
County of LOS ANGELES

On MAY 15 1995 (DATE) before me. CHARLOTTE GREGORY (NAME, TITLE OF OFFICER - E.G., "JANE DOE, NOTARY PUBLIC")

personally appeared M. K. ESPOSITO (NAME(S) OF SIGNER(S))

☒ personally known to me - OR - ☐ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

CHARLOTTE GREGORY
COMM. #1045401
Notary Public — California
LOS ANGELES COUNTY
My Comm. Expires NOV 20,1998

Charlotte Gregory
SIGNATURE OF NOTARY

OPTIONAL SECTION

CAPACITY CLAIMED BY SIGNER

Though statute does not require the Notary to fill in the data below, doing so may prove invaluable to persons relying on the document

☐ INDIVIDUAL
☐ CORPORATE OFFICER(S)
_____ (TITLE(S))
☐ PARTNER(S) ☐ LIMITED ☐ GENERAL
☐ ATTORNEY-IN-FACT
☐ TRUSTEE(S)
☐ GUARDIAN/CONSERVATOR
☐ OTHER: _____

SIGNER IS REPRESENTING:
(NAME OF PERSON(S) OR ENTITY(IES))

_____

_____

STATE OF CALIFORNIA
COUNTY OF LOS ANGELES } ss.

On May 15, 1995, before me, Jackie Franzman, Notary Public,
personally appeared * BERNARD M. REZNIK *
_____, personally known to me
(or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Signature Jackie Franzman
JACKIE FRANZMAN

JACKIE FRANZMAN
COMM. # 1014505
Notary Public — California
LOS ANGELES COUNTY
My Comm. Expires JAN 23, 1998

(This area for official notarial seal)

95 786007

EXHIBIT "A"

LEGAL DESCRIPTION OF THE PROPERTY

LOT 1 OF TRACT 24606, IN THE CITY OF LOS ANGELES, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 648 PAGES 87, 88 AND 89 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

95 786007

Description: Los Angeles,CA Document-Year.DocID 1995.786007 Page: 23 of 25
Order: bob Comment:

EXHIBIT "B"

KNOWN RELEASES

1. Northwestern corner of the Property from north of Building 269 to near extreme northwestern edge of Property - chlorinated VOCs and petroleum hydrocarbons in groundwater, as described in the Corrective Action Plan ("**CAP**"), dated November 13, 1992, prepared by Hughes Environmental Systems and revised by Groundwater Technology.

2. North of Building 282 - gasoline in soil, as described in the CAP.

3. North of Building 282 to locations north, west and directly beneath Building 272 - gasoline at top of groundwater, as described in the CAP.

NO-ACTION KNOWN RELEASES

1. Chlorinated VOCs in groundwater in the vicinity of monitoring well CM-8D, as described in the Corrective Action Plan Addendum ("**Addendum**"), dated March 29, 1994, prepared by Groundwater Technology.

2. Trichlorofluoromethane (Freon 11) in groundwater in the vicinity of monitoring well CM-10, as described in the Addendum.

95 786007

Description: Los Angeles,CA Document-Year.DocID 1995.786007 Page: 24 of 25
Order: bob Comment:

EXHIBIT "C"

FORM OF REQUEST FOR CLOSURE

JURISDICTIONAL AGENCY
ADDRESS

Re: Request for Certification of Closure or Completion Hughes Aircraft Company Closure Plan/Remediation Plan Former Hughes Missile Systems Group Facility 8433 Fallbrook Avenue, Canoga Park, California 91304

Dear Sir/Madam:

Hughes has completed the closure/remediation of [permitted unit/release] under the Closure Plan/Remediation Plan in compliance with applicable laws and regulations. Please confirm you agency's concurrence by providing a written certification of closure or completion of remediation. For your convenience, we have enclosed as draft certification letter.

Sincerely

Hughes Representative

Enclosure

DRAFT CERTIFICATION LETTER

Dear Hughes Representative:

This letter confirms this agency's review of the remediation/closure activities at the former Hughes Missile System Group Canoga Park facility located at 8433 Fallbrook Avenue in the City of Los Angeles (the "Property"). Based upon this agency's review of Hughes' Closure Plan/Remediation Plan, records and documentation supplied by Hughes and our inspection of the Property, we find that the closure/ remediation is complete and no further environmental investigation or remediation is necessary or warranted at the Property with respect to the closure/remediation.

Sincerely,

Agency Representative

Description: Los Angeles,CA Document-Year.DocID 1995.786007 Page: 25 of 25
Order: bob Comment:

RCRA FACILITY ASSESSMENT.

HUGHES MISSILE SYSTEMS COMPANY

CANOGA PARK FACILITY

(RAYTHEON)

EPA ID – CAD041162124

Prepared by:

Martin Herrmann
Hazardous Substance Engineer

Department of Toxic Substances Control
8800 Cal Center Drive

January 30, 2008

Table of Contents

1.0 INTRODUCTION..... 3
2.0 SITE DESCRIPTION..... 3
3.0 ENVIRONMENTAL SETTING 5
4.0 SOLID WASTE MANAGEMENT UNITS And AREAS Of CONCERN..... 6
5.0 EXPOSURE PATHWAYS..... 15
6.0 VISUAL SITE INSPECTIONS 15
7.0 RECOMMENDATIONS FOR FURTHER ACTION..... 15
FIGURES..... 17

1.0 INTRODUCTION

The 1984 Resource Conservation and Recovery Act (RCRA) amendments provide authority for the U.S. Environmental Protection Agency (USEPA) to require comprehensive corrective action on Solid Waste Management Units (SWMUs) and other areas of concern at facilities applying for a Part B permit and those with RCRA Interim Status or facilities that operated in a manner that required a hazardous waste facility permit even though the facility had not obtained or applied for a hazardous waste permit. The Hughes Missile Systems Company operated the Canoga Park Facility with two permitted interim status units. These units were closed with closure certification pending. Interim Remediation is currently being under taken under the Los Angeles Regional Water Quality Control Board (LARWQCB).

In 1997 the Raytheon Missile Systems Company acquired the Hughes Missile Systems Company which then merged with Raytheon in 1998 to become the Raytheon Systems Company (Raytheon). Raytheon subsequently sold off the Canoga Park site but retains responsibility for site cleanup.

In order to accomplish the objective of corrective action, a RCRA Facility Assessment (RFA) of the Canoga Park Facility was conducted. This assessment consisted of a preliminary review (PR) of documentation of past site investigations and a Visual Site Inspections (VSI). The VSI was conducted on June 13, 2007.

This report is a summary of the PR and the VSI. The PR is based upon information found in files and reports at the Department of Toxic Substances Control (DTSC) including the facility operation plan, closure plan, and documents provided by Hughes/Raytheon. The documents that form the basis for this RFA are referenced and are considered as supplemental documents.

2.0 SITE DESCRIPTION

2.1 Location

The Canoga Park Facility is located at 8433 Fallbrook Avenue in Canoga Park, California. The facility is located in the northwest portion of the San Fernando Valley of Los Angeles County, California. The site is approximately 86 acres in area and ranges in elevation from approximately 900 feet above mean sea level (MSL) in the north-central portion to approximately 840 feet above MSL at its southern boundary. The site is bounded to the east by Fallbrook Avenue, to the south by Roscoe Boulevard, to the north by open space land adjacent to the Chatsworth reservoir, and to the west by single family residential housing (Figure 1 - Aerial photo). Residential neighborhoods are located across Fallbrook Avenue and Roscoe Boulevard.

2.2 Ownership History

In 1959, the 8433 Fallbrook Avenue property was developed as an industrial park by Bunker-Ramo, an electrical component design and testing company. Bunker-Ramo was the sole occupant of the Facility from 1959 until 1966. From 1966 to 1976, Hughes

Missile Systems Company (Hughes) was a co-occupant with Rocketdyne, a division of Rockwell International, and Bunker-Ramo. Hughes purchased the entire Site in the mid-1970s and became the sole occupant, operating as an aerospace research and development facility. Through a merger with Hughes in 1997, Raytheon assumed management of the environmental investigations and remediation activities at the Facility. The January 17, 1994 Northridge Earthquake (Mw 6.7) damaged several buildings at the property and led to Hughes moving people and activities to Tucson, Arizona. In May 1995, the Facility was purchased from Hughes by Coast Federal Bank (CFB). At this time, land use changed from research, development and "prototyping" to commercial office space. The northern portion of the Site was sold to Regent Properties, Inc. (Regent) in 1997. Regent completed a major development project that included building redevelopment, remodeling and re-grading to raise the elevation of a portion of the Site. Parcels within the southern portion of the Site were subsequently purchased by DeVry Incorporated, Los Angeles Metropolitan Police Department and Trammel Crow. DeVry initiated a development project that included new building construction and re-grading. In September 2001, Regent sold its portion of the Facility to Shamrock Holdings, Inc., who in turn, sold the property to MEPT West Hills Limited Liability Corporation (LLC) in June 2002. MEPT West Hills LLC is the current property owner, although Trammell Crow Company acts as property manager for the Facility. As stipulated in the sales agreement with CFB in 1995, Hughes (now Raytheon) continued to address environmental impacts resultant from its former operations.

2.3 Past Waste Management Activities

Small amounts of hazardous wastes were collected in 55 gallon drums and stored in the HWSA, where flammables were physically separated from corrosives. Wastes handled include acids, bases, iron, tin, fluorine, gasoline, diesel, copper, chromium, Freon, oils, cyanides, flammable solvents and chlorinated solvents. The curbed storage area had a reinforced concrete base with a grated sump. Security was controlled by masonry, chain link walls and gated access. The area had a tarpaulin roof. Wastes were accumulated, and full containers were periodically sent to a hazardous waste facility.

Hazardous waste oils and solvents were collected in a four thousand gallon underground storage tank (T3) just northwest of the HSWA. Wastes were accumulated and were periodically sent by tanker to a hazardous waste facility.

2.4 Current Waste Management Activities

Currently the site is used as office space for a multitude of tenants. The waste activities are chiefly the remediation of the soil and groundwater at the identified hot spots in the north west and the central east portions of the site. Since 1995 the groundwater and soil in the northwest plume has been treated by a groundwater recovery and treatment system, (GRTS), a solvent vapor extraction system(SVE) and later enhanced with an air sparge system (AS). The water was treated by air stripping and carbon absorption of the volatile organics. The soil vapor was extracted by vacuum volatilization and carbon absorption. These were shutdown because of asymptotic conditions and replaced with an enhanced in-situ bioremediation process (EISB) starting in October of 2005. The EISB process was also applied to a smaller plume in the northeast of the site in December of 2006.

Current operations involve ground water monitoring on a quarterly basis to monitor the effectiveness of the EISB process.

2.5 Permit History for Hazardous Waste Management Units

Hughes Missile Systems Group operated at the site since 1965 and was issued a Hazardous Waste Facility Permit on June 28, 1985 for the HWSA and T3 RCRA units. Operations ceased in 1994. A Closure and Post Closure Plan was approved in late1995. This plan included a report of the T3 closure. A closure certification report for the HWSA was submitted in November 8, 2002. Both of these closures were incomplete with soil and ground water contamination at depth.

3.0 ENVIRONMENTAL SETTING

3.1 Site Geology

The shallow geologic deposits of the western San Fernando Valley in the vicinity of the project site are comprised of predominantly unconsolidated sands, silts and clays with occasional gravels. These alluvial fill deposits are of Quaternary age and range in thickness from thin veneer at the valley margins to more than 700 feet in the central portion of the San Fernando Valley. In the western portion of valley, the unconsolidated alluvial fill deposits are unconformably underlain by consolidated bedrock of the Modelo and Chatsworth Formations, respectively. The Modelo Formation consists of grayish siltstone, clayey siltstone and shale, with minor interbedded diatomaceous shale. A relatively thin weathered zone exists along the top of the formation where it is in contact with the shallow alluvial deposits. The Chatsworth Formation is comprised primarily of a turbidite sandstone sequence with interbedded shale and minor conglomerates. The bedrock of the Chatsworth Formation, which is the major rock comprising the Simi Hills, forms the distinct outcrops north of Chatsworth Reservoir (McLaren, 1989). A major portion of the Former Raytheon Facility is constructed on consolidated bedrock of the Miocene Modelo Formation. Near surface (to 50 or 100 ft bg), deposits are highly weathered. Beds of the Modelo are seen in road cuts and in drill-hole samples to be dipping at up to 45° from horizontal. Generally, dip direction is toward the south or southwest.

In the northwestern portion of the Facility, to the west and northwest of Building 270 and at other locations on the site periphery, the shallow subsurface is comprised of unconsolidated alluvial valley fill of Quaternary age. This material is present to depths of at least 75 feet. The beds are flat-lying, and consist primarily of mixed silt and fine sand, with lesser amounts of clay. The Modelo Formation is believed to be unconformably present beneath the valley fill. A thin (up to 10-foot) layer of construction fill material is locally present at the surface overlying

3.2 Surface Water Hydrology

Primary surface drainage in the site vicinity is Chatsworth Creek, lying immediately west of the Site. Portions of Chatsworth Creek, north and south of Hidden Lake (formerly Lees Lake) are contained within large underground culverts. Other portions are contained in lined or unlined structured channels. The portion of Chatsworth Creek in

the site vicinity is contained in underground cement-lined tunnels. Water from Chatsworth Creek eventually flows into the Los Angeles River about 2.5 miles down gradient. Hidden Lake is the only active reservoir within a 1-mile radius of the site. Hidden Lake is used as a recreational area by residents of the surrounding housing development. It should be noted that storm drainage, including storm drain discharge, from the site flows to Chatsworth Creek, the majority of which enters south and downstream of Hidden Lake.

3.3 Groundwater Hydrology

Groundwater gradient direction within the vicinity of the site regionally flows from northwest to southeast, from the Simi Hills to the San Fernando Valley. The depth to groundwater is approximately 25 feet bg near Roscoe Boulevard. The hydraulic gradient of the regional groundwater is approximately 0.0047 feet per foot (ft/ft). The water bearing materials comprising the western portion of the valley are generally fine grained alluvial sediments, which contain naturally-occurring total dissolved solids (TDS) in excess of 1,000 milligrams per liter (mg/L), exceeding the recommended USEPA drinking water guidelines. Due to the relatively low yields and excessive TDS, there are no drinking water wells in the vicinity of the facility. Essentially all drinking water consumed in the western San Fernando Valley is derived from the State Water project and the Los Angeles Aqueduct, which delivers water to southern California from the Sierra Nevada Mountains. Although the Los Angeles Department of Water and Power (LADWP) supplements its water supply with groundwater from the San Fernando Basin, all of the groundwater production well fields are located in the eastern quarter of the basin. The nearest active production well for supply of potable water to the public is more than 15 miles down gradient from the Site. In the vicinity of the site, groundwater occurs between 10 and 65 ft bg, depending on the location on the property. Groundwater gradient direction is generally to the southeast (i.e., from the Simi Hills to the San Fernando Valley), but on the western side of the property, there is a westward component due to the local topography Quarterly groundwater gauging of onsite monitoring wells has been conducted since December 1991 (with previous monthly gauging from August 1990). The groundwater gradient in the northwest portion of the site, which contains the main volatile organic compound (VOC) plume, is consistently westward and ranges from 0.01 to 0.02 ft/ft. In the extreme northwest corner of the site, the gradient becomes less steep and a localized depression is often observed even under static non-pumping conditions. This is likely due to the lithologic change from the Modelo formation to the alluvial unit in this area. The apparent groundwater gradient over the remainder of the Site is towards the southwest, south and south-southeast, with gradients ranging from 0.01 to 0.04 ft/ft. Water depths, groundwater gradients, and apparent groundwater flow directions are generally consistent with minor localized changes due to pumping activities during GRTS operation. Average hydraulic conductivities were calculated to be approximately 9 gallons per day per square foot (gpd/ft^2) for the Modelo Formation ($4.24x10^{-4}$ centimeters per second or cm/sec) and approximately 270 gpd/ft^2 for the alluvial fill ($1.27x10^{-2}$ cm/sec) (GTI, 1993).

4.0 SOLID WASTE MANAGEMENT UNITS And AREAS Of CONCERN

This Assessment has included all Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) identified by DTSC in 2002 from in a previous draft Corrective Action Consent Agreement; Table 1. The northeast plume at well CM-8 was also considered as an AOC. These units are indicated on the site drawing, Figure 2.

4.1 SWMUs

4.1.1 SWMU-1 (aka Hazardous Waste Storage Area, HWSA)

This unit was used to store carboy and drum quantities of hazardous wastes containing solvents, acids, bases, plating solutions and paint.

This unit was addressed in the *Modified Closure Plan for the Hazardous Waste Storage Area and Tank T3* [1] which was accepted by DTSC and dated August 1995. A document titled *Closure Certification Report for the Hazardous Waste Storage Area*[2] and dated 11/08/2002 documents the action taken. The closure process discovered arsenic, cadmium and hexavalent chromium that exceeded Closure Performance Standards in the underlying soils. After excavation to 14.5 feet below the former HWSA pad there still were high levels of hexavalent chromium. The pit was lined with polyethylene and back filled. Latter the area was regraded with about 8-9 feet of additional soil and paved. Additional borings were made to help define the extent of the chromium plume[3,4]. High levels of hexavalent chromium were detected in a narrow plume below the former HWSA all the way to groundwater. Since August 1999 Raytheon has been monitoring the groundwater at nearby wells for hexavalent chromium.

The Closure Certification Report was not accepted by DTSC as of the present. The extent of high levels of hexavalent chromium in subsurface soil and water must be defined and considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

Table 1
SOLID WASTE MANAGEMENT UNITS AND AREAS OF CONCERN
RAYTHEON MISSLE SYSTEMS COMPANY
CANOGA PARK, CALIFORNIA

EPA and DTSC DESIGNATION	NAME	RELEASES
SWMU-1 (HWSA)	Hazardous waste storage area	Release to soil and groundwater. COCs include hexavalent chromium
SWMU-2 (T3)	Underground Storage Tank (UST) for Waste	Release to soil and groundwater. Constituents include dichloroethylene (DCE)
SWMU-3	Building 272	Volatile organic compounds (VOCs) identified in vapor survey.
SWMU-4	Building 282 Former Drum Storage Room	Soil tested positive for chlorinated VOC vapors
SWMU-5	Pits #1 and #2 near Building 269	Releases to soil of cadmium and Beryllium. Groundwater contaminated with tetrachloroethylene (PCE).
SWMU-6	Parking area between Buildings 274 & 276	Releases to soil and groundwater. Constituents include Freon-11
SWMU-7	Cooling Unit outside of Building 274	Releases to soil. Constituents include Freon-11
SWMU-8	Former USTs T-1/T2 pump island near Buildings 272 & 282	Releases to soil and groundwater. Constituents include petroleum hydrocarbons
SWMU-9	Site wide sewer line	Releases to soil near soil boring BSL-4. Constituents include arsenic.
AOC-1	Building 262 drains and feeder sewer lines	Suspected release. Building is up gradient of wells CM-8d, CM-9d and CM-18 which have 1,1 DCE for which no source has been determined.
AOC-2	Building 263 drains, sumps and feeder sewer lines	Suspected release. Building is near and up gradient of well CM-8d which have 1,1 DCE.
AOC-3	Building 265 drains and feeder sewer lines	Suspected release. Down gradient SWMU-4 has contaminated soil with Freon-11
AOC-4	Building 269 interior: plating pit, drains, sumps, degreaser exterior clarifier pit and feeder sewer lines	Releases to soil at exterior clarifier pit, SWMU-5

Table 1
SOLID WASTE MANAGEMENT UNITS AND AREAS OF CONCERN
RAYTHEON MISSLE SYSTEMS COMPANY
CANOGA PARK, CALIFORNIA

Continued …

EPA and DTSC DESIGNATION	NAME	RELEASES
AOC-5	Building 271 industrial waste clarifier, drains and feeder sewer lines	Suspected release. Building associated with UST T-4. CM-8d nearly down gradient and groundwater contaminated with Freon-11
AOC-6	Building 274 drains and feeder sewer lines	Unknown. Building was used to store/use solvents including 1,1, TCA, Freon-11 and hydraulic fluid. Up gradient of CM-10 which had Freon-11 in groundwater..
AOC-7	Building 276 drains and feeder sewer lines	Unknown. Soil gas data from parking area toward Building 274 shows vapor phaseFreon-11. Building is up gradient of CM-10 which had Freon-11 in groundwater.
AOC-8	Building 281 drains and feeder sewer lines	Unknown. Building is up gradient of CM-8d and cross gradient from CM-9d which had Freon-11 in groundwater. Also next to former diesel USTs
AOC-9	Former USTs T-5 & T-6	Suspected releases. T-5 used for storage of hazardous waste including waste oil and sulfuric acid.
AOC-10	Former USTs T-7, T-8 and T-9	Diesel fuel contaminated soil was excavated in this area
AOC-11	Above ground tank, T-14	Unknown. Tank was located inside Building 269 and stored solvent waste such as acetone, 1,1,1 TCA and isopropyl alcohol.
AOC-12	Site wide storm water system	Releases suspected
AOC-13	Northeast plume	1,1 DCE, Freon

4.1.2 SWMU-2 (aka T3)

This tank was used to store bulk quantities of hazardous wastes which consisted of machine cutting fluids, some solvents used for cleaning and maintenance of machinery, and machine lubricating oils. Hazardous constituents present in these wastes were 1,1,l-trichloroethane (TCA), acetone, and oils. Contaminants detected in the soil in vicinity of T3 include TPH, 1,1dichloroethylene (l,l-DCE), 1,1-dichloroethane (l,l-DCA), and TCA.

Tank T3 was permitted under RCRA when it was removed. The tank was removed in June 1988 and associated contaminated soils were removed in September 1991 under a Corrective Action Plan (CAP) approved on March 18, 1991 by the CalEPA Los Angeles Regional Water Quality Control Board (LARWQCB). The document, *Final Report, Remediation of Former T3 Tank Site*[5] (November 1991), discusses the extent of soils removed. The soil was excavated to 40 feet below ground surface in the vicinity of the former T3 by boring three foot holes on a triangular pitch. The excavation left a cookie cutter pattern of soil wedges behind unexcavated. The holes were backfilled with a cement and sand slurry. Later the area was regraded with about 7 feet of additional soil and paved. CAP goals were used to determine the extent of excavation. The LARWQCB approved cleanup action levels for remediation of impacted soils at the T3 site were:

LARWQCB Corrective Action Plan Cleanup Action Levels	
Total petroleum hydrocarbons (TPH)	100 ppm
Total volatile organic compounds (VOCs)	20 ppm
1, l-dichloroethylene (1, 1-DCE)	6 ppm

The groundwater in the area is contaminated with a range chlorinated VOCs and has been undergoing a series of interim remediation under LARWQCB guidance. From 1995 to 2005 ground water has been treated via a Pump and Treat system with the treated water used for on site irrigation needs. The soil has been treated via a Soil Vapor Extraction system (SVE) for the same period. Contaminant levels became asymptotic by 2000 and an Enhanced In-Situ Bioremediation approach (EISB) was instituted in 2005[6]. Final cleanup levels have not been determined under DTSC protocol.

The Closure Certification Report was not accepted by DTSC as of this document. The presence of VOCs in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.1.3 SWMU-3 (Building 272)

Building 272 is a small building associated with the former gas pump area. The building has been removed. The area is within the NW treatment area that includes the EISB areas A, B & C. The contamination there is well defined and is currently undergoing interim remediation under LARWQCB guidance. Final cleanup levels have not been determined under DTSC protocol. The presence of VOCs in subsurface soil and water

must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.[7]

4.1.4 SWMU-4 (Building 282)

Building 282 is a former drum storage room associated with the former gas pump area. The building has been removed. The area is within the NW treatment area that includes the EISB areas A, B & C. The contamination there is well defined and is currently undergoing interim remediation under LARWQCB guidance. Final cleanup levels have not been determined under DTSC protocol. The presence of VOCs in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.[8]

4.1.5 SWMU-5 (Pits #1 and #2 near Building 269)

These pits received photographic wastes and neutralized acids. Releases to soil of Cadmium and Beryllium have been noted. Groundwater is contaminated with tetrachloroethylene (PCE). These pits have been removed. The area is within the NW treatment area that includes the EISB areas A, B & C. The contamination there is well defined and is currently undergoing interim remediation under LARWQCB guidance. Final cleanup levels have not been determined under DTSC protocol. The presence of VOCs and metals in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.1.6 SWMU-6 (Parking area between Buildings 274 & 276)

The 1991 Preliminary Assessment authorized under US EPA cites the presence of Freon-11 and elevated radioactivity in this area.[8] It has been contended that elevated radioactivity is due to natural geologic variation.[9] This area is in the SE part of the site. The contamination is suspected to have resulted from maintenance work on cooling units next to the former Building 274. According to a 1998 Fluor Daniel GTI Site Assessment report[10] the cooling unit at Building 274 used Freon 22 and only Buildings 263 used Freon 11. In any event the plume was delineated as centered at the edge of a former parking area. At the time of the report it was concluded that the Freon levels were declining and below drinking water standards. Need to determine if any issues remain.

4.1.7 SWMU-7 (Cooling Unit outside of former Building 274)

The presence of Freon-11 was detected in the soil. This area is in the SE part of the site. The contamination is suspected to have resulted from maintenance work on the cooling units.[11] Need to determine if any issues remain.

4.1.8 SWMU-8 (Former USTs T1 & T2 for the gasoline pump island)

The release of petroleum hydrocarbons to soil and groundwater occurred. The area is within the NW treatment area that includes the EISB areas A, B & C. The extent of hydrocarbon contamination was assesses in 1991.[12] The plume is within the larger VOC plume in the northwest corner of the site and is currently undergoing interim remediation under LARWQCB guidance. Final cleanup levels have not been determined under DTSC protocol. The presence of VOCs in subsurface soil and water must be considered

in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.1.9 SWMU-9 (Site wide sewer line)

Site wide assessment in 1991 did not show up any metal contamination at detection limits.[13] One sample had a trace (0.009 mg/kg) of toluene. Sample B-SL had 0.3 mg/kg of toluene. No other VOCs were detected. Need to determine if any issues remain.

4.2 AOCs

4.2.1 AOC-1 (Building 262 drains and feeder sewer lines)

This building is up gradient of a release and could be a source of the contamination. It is near the area that includes the EISB areas D, a small plume of VOCs. The contamination there is well defined and is currently undergoing interim remediation under LARWQCB guidance. Final cleanup levels have not been determined under DTSC protocol. The presence of VOCs in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.2.2 AOC-2 (Building 263 drains sumps and feeder sewer lines)

This building is adjacent to an area of release and could be a source of the contamination. It is near the area that includes the EISB areas D, a small plume of VOCs. The contamination there is well defined and is currently undergoing interim remediation under LARWQCB guidance. Final cleanup levels have not been determined under DTSC protocol. The presence of VOCs in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels. In 1992 wells near Building 263 tested above EPA Maximum Concentration Limit (MCL) for uranium.[14]

4.2.3 AOC-3 (Building 265 drains and feeder sewer lines)

This building is next to an area with Freon contamination and could be a source of the contamination. Final cleanup levels have not been determined under DTSC protocol. The presence of Freon in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.2.4 AOC-4 (Building 269 drains and feeder sewer lines)

This building was in an area where soil is contaminated with VOCs and the sewer line may have been a source. The building was removed by 1988. It was in the area that includes the EISB areas A, B & C. The contamination there is well defined and is currently undergoing interim remediation under LARWQCB guidance. Final cleanup levels have not been determined under DTSC protocol. The presence of VOCs in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.[8,15]

4.2.5 AOC-5 (Building 271 drains and feeder sewer lines)

This small building was associated with a large concrete water basin, T4. This building is adjacent to an area of release and could be a source of the contamination. It is near the area that includes the EISB areas D, a small plume of VOCs. The contamination there is well defined and is currently undergoing interim remediation under LARWQCB

guidance. Final cleanup levels have not been determined under DTSC protocol. The presence of VOCs in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.2.6 AOC-6 (Building 274 drains and feeder sewer lines)

This small building was use for solvent parts cleaning and stored 1,1,1 TCA, Freon, and Hydraulic fluid. The building has been removed. Nearby is an area with Freon contamination and it could be a source of the contamination. Final cleanup levels have not been determined under DTSC protocol. The presence of contamination in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.2.7 AOC-7 (Building 276 drains and feeder sewer lines)

This building had 2 active chemical use areas, solvent cleaning and photographic processing operations. Freon has been detected at a down gradient well, CM-10. Final cleanup levels have not been determined under DTSC protocol. The presence of contamination in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.2.8 AOC-8 (Building 281 drains and feeder sewer lines)

This building is adjacent to an area of release and could be a source of the contamination. Generally it handled small quantities of in a maintenance shop setting. Chemicals included dichloromethane, insecticides, mineral oil and ethylene glycol. It is near the area that includes the EISB areas D, a small plume of VOCs. The contamination there is well defined and is currently undergoing interim remediation under LARWQCB guidance. Also it is next to the former diesel USTs. Final cleanup levels have not been determined under DTSC protocol. The presence of VOCs and hydrocarbons in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.2.9 AOC-9 (T5 and T6)

These USTs were used to store waste oil and sulfuric acid. These were glass lined 500 gallon vessels that were contained in a concrete vault located west of building 263. The tanks were removed in 1984 along with the vaults and soil was excavated.[16] Residual contamination consisting of toluene and xylenes need to be considered in the HRA. The presence of VOCs and hydrocarbons in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.2.10 AOC-10 (T7, T8 & T9)

These USTs were used to store diesel fuel. The tanks were removed in1991.[17]. Subsequently the soil was excavated to remove contaminated soil.[18]. A clean-up level of 100 ppm of TPHD was used. Currently most of this area has been covered with a bi-level parking lot. Residual diesel should be considered in a health and environmental risk assessment.

4.2.11 AOC-11 (T14)

This AOC is an above ground tank that was located in building B269. Building 269 was removed by 1998. The area is within the contaminant plume in EISB treatment areas A & B. The plume there has been characterized and has undergone SVE, pump and treat and currently EISB. The presence of VOCs in subsurface soil and water must be considered in a health and environmental risk assessment in order to determine final closure cleanup levels.

4.2.12 AOC-12 Site Wide Storm Sewer System.

The Storm sewer system has not been investigated. Key points where runoff could carry contaminants and where leaks are more likely to occur may need to be tested for contamination.

4.2.13 AOC-13 Northeast Plume between B263, B264 & B281

This plume has had definition and is currently undergoing interim measures by EISB in area D.

4.3 SUMMARY OF CONSOLIDATED SWMUS AND AOCS.

The various SWMUs and AOCs can be regrouped in to several zones for Risk assessment and treatment purposes (figure 3). The following zones are defined.

4.3.1 Zone 1 The contiguous Northwest Plume consisting of:

- SWMU-1 former HSWA
- SWMU-2 former T3
- SWMU-3 former B272 gas station bldg
- SWMU-4 former B282 drum stg bldg
- SWMU-5 former P1 & P2 at B269
- SWMU-8 former T1 &T2 gasoline tanks
- AOC-4 former B-269
- AOC-11 former AST in B269

This zone has a known contamination of VOCs, CVOCs, chromium^{+6} and potential cadmium and beryllium at SWMU-5.

4.3.2 Zone 2 Sewer system network consisting of

- SWMU-9 Sewer System
- AOC-1 B262 sewer drains and feeders
- AOC-2 B263 sewer drains and feeders
- AOC-3 B265 sewer drains and feeders
- AOC-5 B271 sewer drains and feeders
- AOC-6 B274 sewer drains and feeders
- AOC-7 B276 sewer drains and feeders
- AOC-8 B281 sewer drains and feeders

4.3.3 Zone 3 South plume area (Freon 11 contamination)

- SWMU-6 B274,276 parking lot
- SWMU-7 former B-274; Chiller building

4.3.4 Other areas that remain individual AOCs. These are:

- AOC-9 former T5,T6; oil, sulfuric acid tanks
- AOC-10 former T-7,8,9; diesel tanks
- AOC-12 Storm sewer system
- AOC-13 Northeast plume

5.0 EXPOSURE PATHWAYS

5.1 Surface Water

Nearest stream is in adjacent neighborhood to the west where a small stream, Chatsworth Creek, enters and exits a small lake, Hidden Lake (aka Lees Lake), via culverts and continues south via lined and unlined structured channels. The property is graded to drain to the SE through storm drains which empty into this stream.

5.2 Groundwater

Groundwater flows to the West at the NW corner of the property but generally to the SSE on the rest of the property into the San Fernando Valley. With measured TDS of over 1000 ppm the water is not likely to be used for drinking water. There may be interaction between the groundwater and Hidden Lake to the west.

5.3 Air

The area is paved, built upon or vegetated with irrigated beds. There is potential for soil gas intrusion into buildings. Buildings are being used commercially as office space.

5.4 Surface Soil

There is essentially no exposed soil due to paving and buildings. Soil exposure could occur when it is disturbed during construction activities.

6.0 VISUAL SITE INSPECTIONS

The site was visited on Wednesday June 13, 2007. The site is a well landscaped business office site. The vast majority of the area is covered with office buildings, roadways, parking lots and walkways. The remaining area consists of a central park area and narrow vegetated corridors that border and subdivide the property. The primary treatment area is in the north western corner of the site. A new parking structure was nearly completed in the north east corner of the site.

Visual Evidence of SWMUs, AOCs and treatment systems are minimal. The GRTS and SVE equipment are idle behind a small fenced area. Well heads are flush to ground level and covered. Observations are photo documented (See figures 4 to 11).

7.0 RECOMMENDATIONS FOR FURTHER ACTION

- Continue Groundwater Remediation

- Determine data gaps to developing a site wide heath risk assessment using the current DTSC-modified model. A site conceptual model needs to be developed to address all exposure routes.

- Collect samples needed to fill in the data gaps.

- Complete a soil vapor survey using old and new data as appropriate to model vapor intrusion. This work is to be in accordance with the Department's publications: GUIDANCE FOR THE EVALUATION AND MITIGATION OF SUBSURFACE VAPOR INTRUSION TO INDOOR AIR and ADVISORY – ACTIVE SOIL GAS INVESTIGATIONS. As these documents are under going revision it is important that this investigation be done with close coordination with the project manager.

- Prepare site wide HRA for all modes of exposure to define remediation goals acceptable to DTSC.

- Modify remediation effort as required to meet the DTSC remediation goals or existing CAP goals whichever is the more stringent.

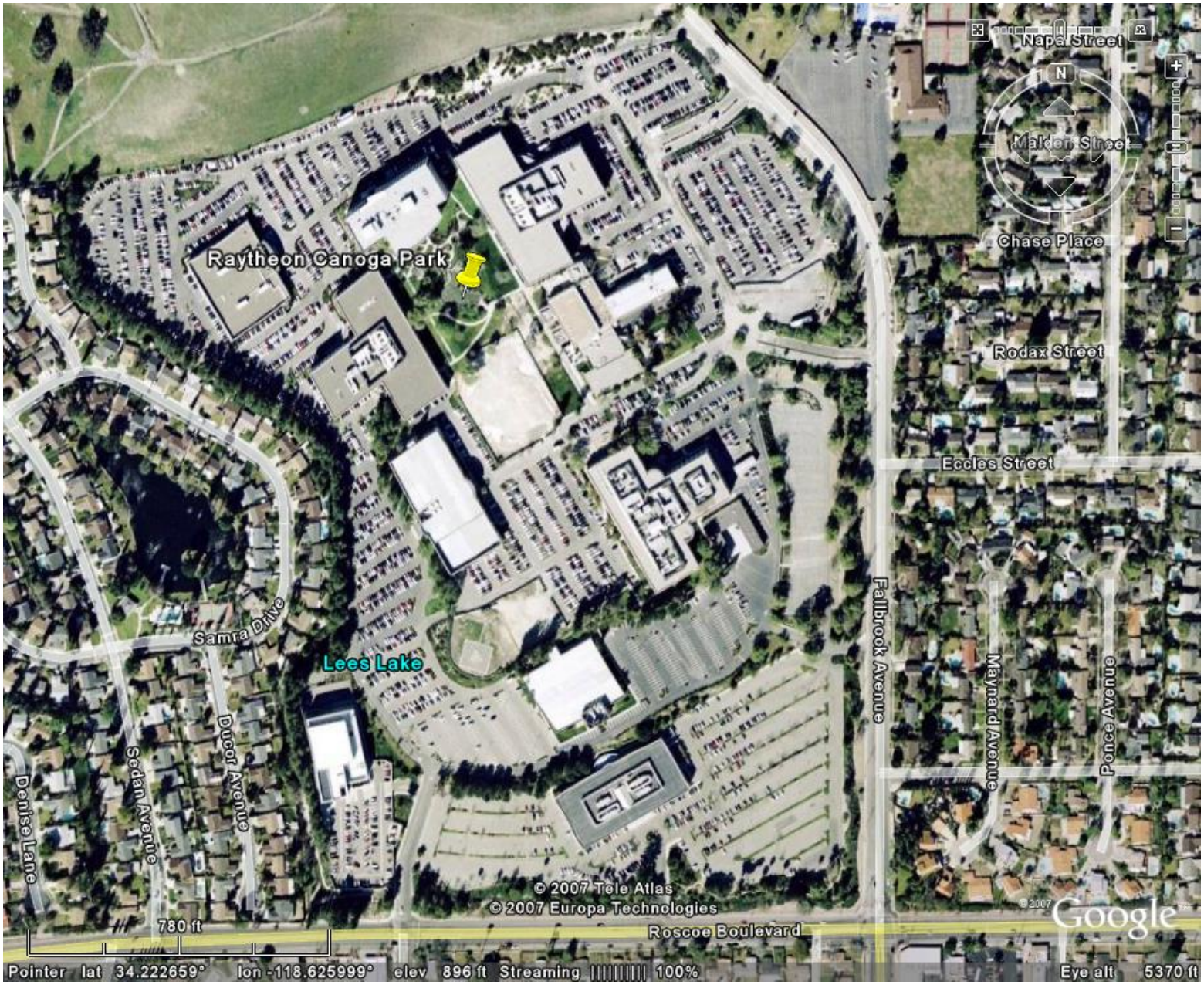
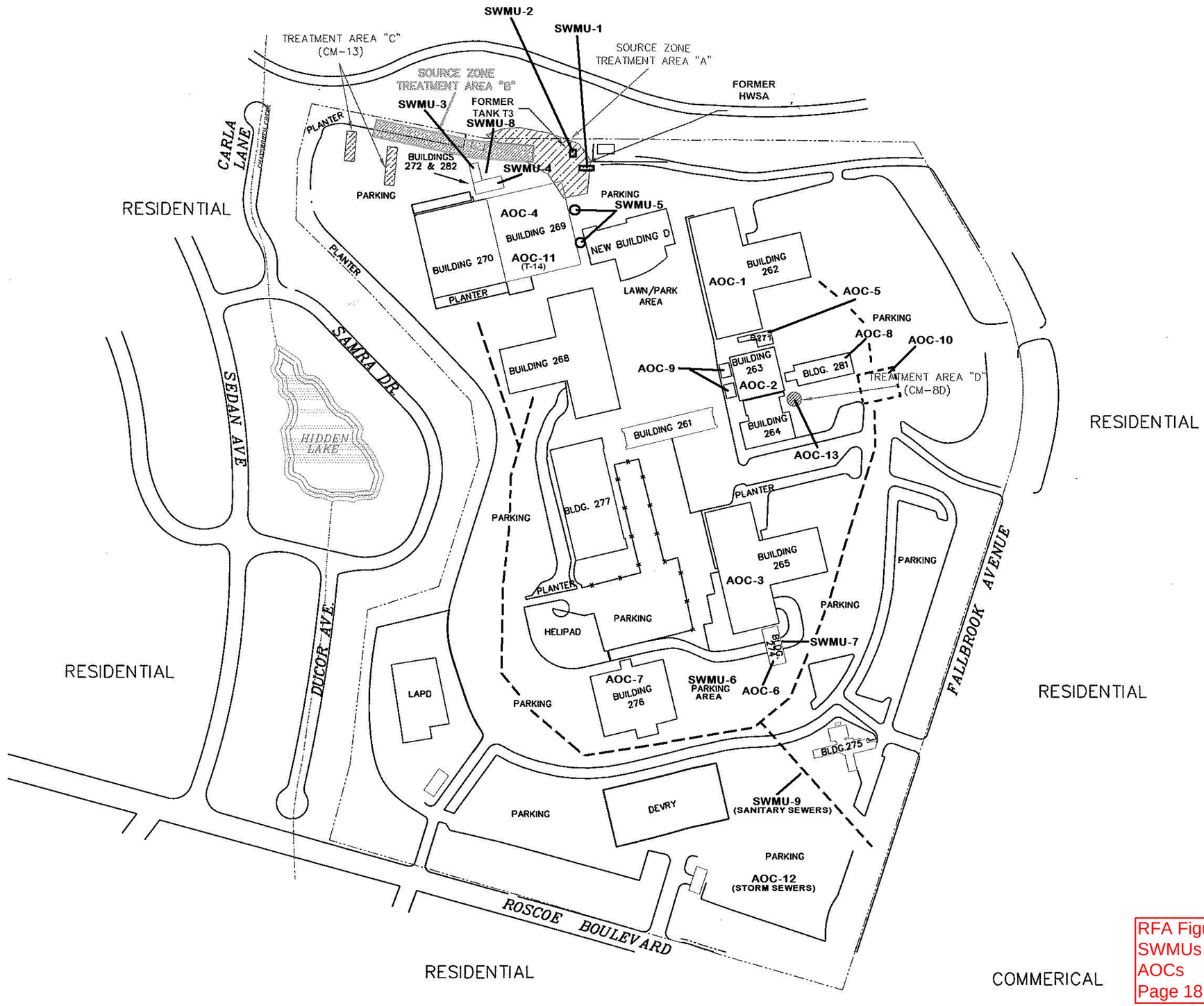
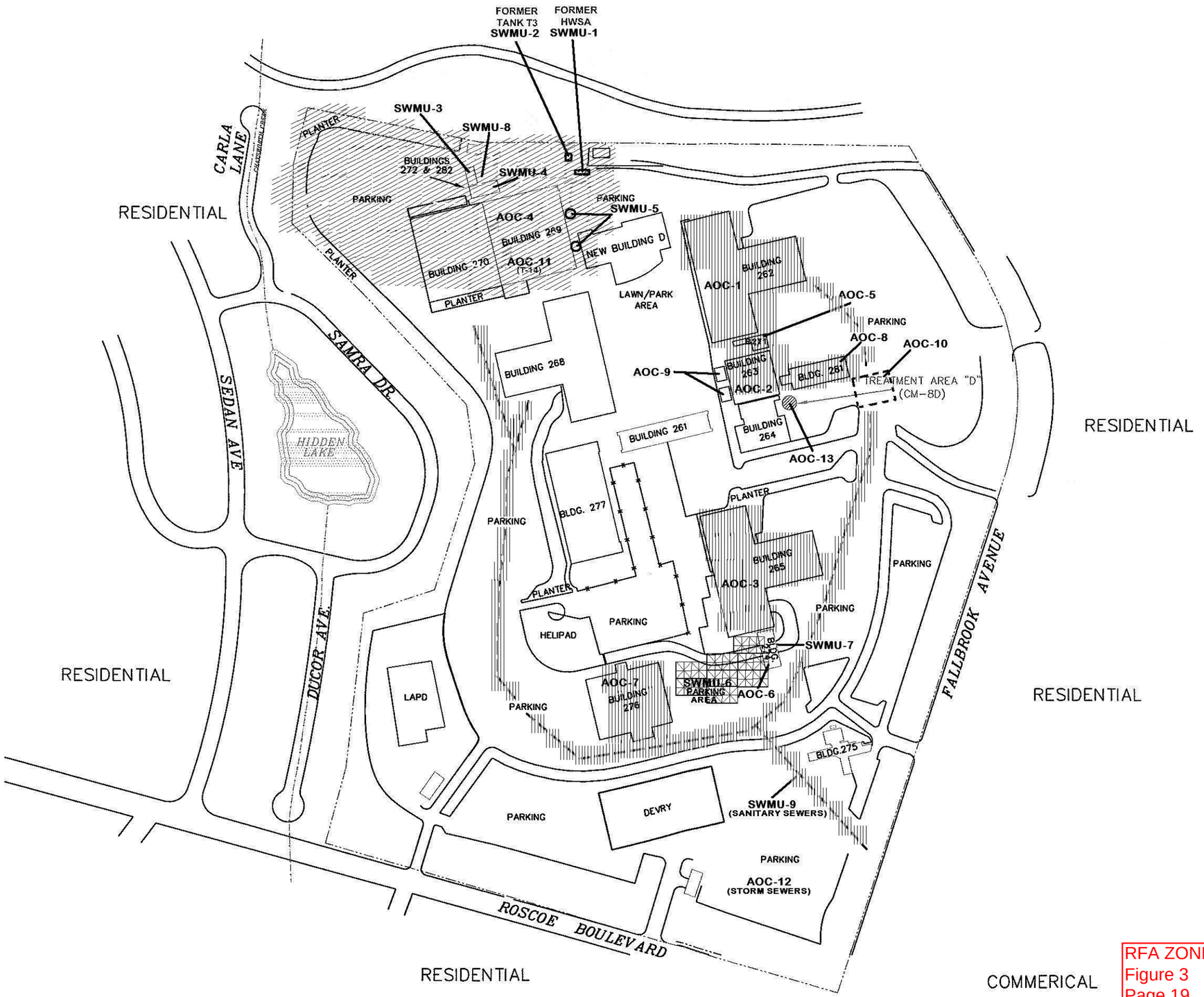


Figure 1. Former Raytheon Canoga Park Site, Google Earth image downloaded 12/18/2007



RFA Figure 2
SWMUs &
AOCs
Page 18



LEGEND

- PROPERTY LINE
- FORMER CREEK TREND
- FORMER BUILDING
- CURRENT BUILDING
- Zone 1 (NW PLUME)
- Zone 2 (SEWERS)
- Zone 3 (S PLUME)

SCALE IN FEET
0 140 280 420

DATE:	FILE NAME:	REVISED:
07/12/2004	RC-DATA-04.DWG	04/12/2007

SITE PLAN SHOWING CONCEPTUAL DESIGN FOR EISB IMPLEMENTATION

FORMER RAYTHEON FACILITY
8433 FALLBROOK AVENUE
CANOGA PARK, CALIFORNIA

T N & Associates, Inc.
Engineering and Science

FIGURE 2

RFA ZONES
Figure 3
Page 19



Figure 4. SVE & GRTS Idle Equipment (June 13,2007)



Figure 5. SVE & GRTS Idle Equipment (June 13,2007)



Figure 6. SVE & GRTS Idle Eq (June 13,2007)



Figure 7. NW fence line (June 13,2007)



Figure 8. B269 (where it was) (June 13,2007)



Figure 9. B270 looking W (June 13,2007)



Figure 10. New parking structure (June 13,2007)



Figure 11 New parking structure lower level (June 13,2007)

[1] *Modified Closure Plan for the Hazardous Waste Storage Area and Tank T3* , August 1995

[2] *Closure Certification Report for the Hazardous Waste Storage Area*, 11/08/2002

[3] *Results of Additional Subsurface Characterization, Former Hazardous Waste Storage Area*; Former Company Facility, 8433 Fallbrook Avenue, Canoga Park, California. September 22, 2000

[4] *Additional Subsurface Characterization, Former Hazardous Waste Storage Area*, Former Raytheon Systems Company Facility, 8433 Fallbrook Avenue, Canoga Park, California; EPA ID No. CAD 041162124, October 10, 2000

[5] *Final ReportRemediation of Former T-3 Tank Site*, November 1991

[6] *COVERAGE UNDER GENERAL WASTE DISCHARGE PERMIT ORDER NO. R4-2005-0030 AND MONITORING AND REPORTING PROGRAM NO. CI-8947* - (SLIC NO. 0693, SITE ID NO. 2043TOO), September 20, 2005

[7] SUMMARY REPORT OF SUPPLEMENTAL SAMPLING AND ANALYSIS PERFORMED AT THE LOCATIONS OF FORMER BUILDINGS 269, 272 AND 282, September 23, 1998

[8] *ENVIRONMENTAL PRIORITIES INITIATIVE PRELIMINARY ASSESSMENT*, Ecology and Environment, Inc., July 29, 1991

[9] *RADIOISOTOPE REVIEW AND COMPARISON FOR THE HUGHES MISSILE SYSTEMS GROUP FACILITY*, CANOGA PARK, CALIFORNIA, McLaren/Hart Environmental Engineering Corporation, July 30, 1991

[10] *Additional Site Assessment Report, Vicinity of CM-10 and Buildings 265,274, and 276, Former Raytheon Missile Systems Company Facility*, 8433 Fallbrook, Canoga Park, California, FLUOR DANIEL GTI**,** September 2, 1998

[11] *Additional Site Assessment Report, Vicinity of CM-10 and Buildings 265,274, and 276, Former Raytheon Missile Systems Company Facility*, 8433 Fallbrook, Canoga Park, California, FLUOR DANIEL GTI**,** September 2, 1998

[12] *GASOLINE CONTAMINATION SITE ASSESSMENT for HUGHES MISSILE SYSTEMS GROUP*, 8433 Fallbrook Avenue, Canoga Park, California, AMERICAN ENVIRONMENTAL MANAGEMENT CORPORATION, October 28,1991

[13] *REPORT ON FACILITY-WIDE SITE ASSESSMENT, HUGHES MISSILE SYSTEMS COMPANY*, CANOGA PARK, CALIFORNIA, Groundwater Technology, Inc., January 4, 1994

[14] *RESULTS OF RADIOLOGICAL SAMPLING OF MONITORING WELLS*, July 1, 1992, Hughes Missile Systems Group, Canoga Park Facility, Groundwater Resources Consultants, Inc.

[15] *ADDITIONAL SITE ASSESSMENT REPORT, SAMPLING AND ANALYSIS FOR FORMER BUILDING 269 LOCATION*, FORMER RAYTHEON SYSTEMS COMPANY, CANOGA PARK, CALIFORNIA , IT Project No. 779027, April 1999

[16] *Closure Report, Removal of Underground Tanks*, Hughes Aircraft Company, Canoga Park, California, Project No. 846562, January 29, 1985

Final Closure Report, Removal of Underground Tank, Hughes Aircraft Company, Canoga Park, California, Project No. 846562, March 12, 1985

[17] *DIESEL UNDERGROUND STORAGE TANK CLOSURE REPORT*, HUGHES MISSILE SYSTEMS GROUP, Canoga Park, October 28, 1991

[18] *DIESEL TANK SUBSURFACE INVESTIGATION and SITE REMEDIATION*, HUGHES MISSILE SYSTEMS GROUP, Canoga Park, California, August 14, 1992
-

APPENDIX E

REGULATORY DATABASE REPORT

8401 Fallbrook Avenue
8401 Fallbrook Avenue
Canoga Park, CA 91304

Inquiry Number: 03468067.2r
December 03, 2012

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	8
Orphan Summary	64
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-9
Physical Setting Source Map Findings	A-11
Physical Setting Source Records Searched	A-13

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

8401 FALLBROOK AVENUE
CANOGA PARK, CA 91304

COORDINATES

Latitude (North):	34.2216000 - 34° 13' 17.76''
Longitude (West):	118.6235000 - 118° 37' 24.60''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	350452.9
UTM Y (Meters):	3787723.5
Elevation:	848 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	34118-B5 CANOGA PARK, CA
Most Recent Revision:	1967
West Map:	34118-B6 CALABASAS, CA
Most Recent Revision:	1967

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	2009, 2010
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
QUEST DIAGNOSTICS 8401 FALLBROOK AVENUE WEST HILLS, CA 91304	RCRA-LQG	CAR000164962
QUEST DIAGNOSTICS INC 8401 FALLBROOK AVENUE WEST HILLS, CA 91304	HAZNET	N/A
QUEST DIAGNOSTICS 8401 FALLBROOK AVENUE WEST HILLS, CA 91304	FINDS	N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

CERCLIS ---------- Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY ---------- Federal Facility Site Information listing

Federal RCRA generators list

RCRA-CESQG ---------- RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls
LUCIS ---------- Land Use Control Information System

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ---------- State Response Sites

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ---------- Solid Waste Information System
WDS ---------- Waste Discharge System

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

UST ---------- Active UST Facilities

AST ---- Aboveground Petroleum Storage Tank Facilities
INDIAN UST ---- Underground Storage Tanks on Indian Land
FEMA UST ---- Underground Storage Tank Listing

State and tribal voluntary cleanup sites

VCP ---- Voluntary Cleanup Program Properties
INDIAN VCP ---- Voluntary Cleanup Priority Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

ODI ---- Open Dump Inventory
DEBRIS REGION 9 ---- Torres Martinez Reservation Illegal Dump Site Locations
WMUDS/SWAT ---- Waste Management Unit Database
SWRCY ---- Recycler Database
HAULERS ---- Registered Waste Tire Haulers Listing
INDIAN ODI ---- Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL ---- Clandestine Drug Labs
HIST Cal-Sites ---- Historical Calsites Database
SCH ---- School Property Evaluation Program
Toxic Pits ---- Toxic Pits Cleanup Act Sites
AOCONCERN ---- San Gabriel Valley Areas of Concern
CDL ---- Clandestine Drug Labs
US HIST CDL ---- National Clandestine Laboratory Register

Local Land Records

LIENS 2 ---- CERCLA Lien Information
LIENS ---- Environmental Liens Listing
DEED ---- Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ---- Hazardous Materials Information Reporting System
CHMIRS ---- California Hazardous Material Incident Report System
LDS ---- Land Disposal Sites Listing
MCS ---- Military Cleanup Sites Listing

Other Ascertainable Records

DOT OPS ---- Incident and Accident Data
DOD ---- Department of Defense Sites
FUDS ---- Formerly Used Defense Sites
CONSENT ---- Superfund (CERCLA) Consent Decrees
ROD ---- Records Of Decision

EXECUTIVE SUMMARY

UMTRA	Uranium Mill Tailings Sites
MINES	Mines Master Index File
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
RADINFO	Radiation Information Database
RAATS	RCRA Administrative Action Tracking System
CA BOND EXP. PLAN	Bond Expenditure Plan
UIC	UIC Listing
NPDES	NPDES Permits Listing
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
Notify 65	Proposition 65 Records
LA Co. Site Mitigation	Site Mitigation List
LOS ANGELES CO. HMS	HMS: Street Number List
WIP	Well Investigation Program Case List
ENF	Enforcement Action Listing
EMI	Emissions Inventory Data
INDIAN RESERV	Indian Reservations
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
MWMP	Medical Waste Management Program Listing
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
HWT	Registered Hazardous Waste Transporter Database
FINANCIAL ASSURANCE	Financial Assurance Information Listing
2020 COR ACTION	2020 Corrective Action Program List
PRP	Potentially Responsible Parties
EPA WATCH LIST	EPA WATCH LIST
US FIN ASSUR	Financial Assurance Information
PCB TRANSFORMER	PCB Transformer Registration Database
PROC	Certified Processors Database

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants	EDR Proprietary Manufactured Gas Plants
EDR Historical Auto Stations	EDR Proprietary Historic Gas Stations
EDR Historical Cleaners	EDR Proprietary Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS NFRAP site List

CERC-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 12/28/2011 has revealed that there is 1 CERC-NFRAP site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUGHES MISSILE SYSTEMS CO	***8433 FALLBROOK AVENUE***	***0 - 1/8 (0.000 mi.)***	***A9***	***29***

Federal RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 08/19/2011 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUGHES MISSILE SYSTEMS CO	***8433 FALLBROOK AVENUE***	***0 - 1/8 (0.000 mi.)***	***A9***	***29***

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-TSDF list, as provided by EDR, and dated 03/15/2012 has revealed that there is 1 RCRA-TSDF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUGHES MISSILE SYSTEMS CO	***8433 FALLBROOK AVENUE***	***0 - 1/8 (0.000 mi.)***	***A9***	***29***

EXECUTIVE SUMMARY

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/15/2012 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
QUEST DIAGNOSTICS	8403 FALLBROOK AVENUE	0 - 1/8 (0.000 mi.)	A5	20

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/15/2012 has revealed that there are 4 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUGHES MISSILE SYSTEMS CO	***8433 FALLBROOK AVENUE***	***0 - 1/8 (0.000 mi.)***	***A9***	***29***
ROCKWELL AID	***8500 FALLBROOK AVE***	***N 0 - 1/8 (0.018 mi.)***	***B12***	***50***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
LAKEVIEW CLEANERS	***22736 ROSCOE BLVD***	***SSE 1/8 - 1/4 (0.152 mi.)***	***13***	***51***
LA FIRE STATION 106	***23004 ROSCOE BLVD***	***WSW 1/8 - 1/4 (0.205 mi.)***	***C14***	***55***

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 11/05/2012 has revealed that there is 1 ENVIROSTOR site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUGHES MISSILE SYSTEMS CO	***8433 FALLBROOK AVENUE***	***0 - 1/8 (0.000 mi.)***	***A9***	***29***
Status: Refer: RCRA				
Status: Active				

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 10/17/2012 has revealed that there are 3 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUGHES MISSILE SYSTEMS CO	***8433 FALLBROOK AVENUE***	***0 - 1/8 (0.000 mi.)***	***A9***	***29***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
CITY OF LA GENERAL SERVICES	***23004 ROSCOE BLVD***	***WSW 1/8 - 1/4 (0.205 mi.)***	***C16***	***59***
Status: Open - Site Assessment				
LA CITY FIRE STATION #106	23004 ROSCOE BLVD	WSW 1/8 - 1/4 (0.205 mi.)	C17	60

SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 10/17/2012 has revealed that there are 2 SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUGHES MISSILE SYSTEMS	8433 FALLBROOK	0 - 1/8 (0.000 mi.)	A7	23
HUGHES MISSILE SYSTEMS CO	***8433 FALLBROOK AVENUE***	***0 - 1/8 (0.000 mi.)***	***A9***	***29***
Facility Status: Open - Remediation				
Facility Status: Open - Remediation				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Registered Storage Tanks

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 4 CA FID UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUGHES AIRCRAFT COMPANY	***8433 FALLBROOK AVE***	***0 - 1/8 (0.000 mi.)***	***A4***	***16***
CHATSWORTH RESERVOIR	***8600 FALLBROOK AVE***	***NNW 0 - 1/8 (0.015 mi.)***	***10***	***47***
ROCKWELL AID /C	***8500 FALLBROOK AVE***	***N 0 - 1/8 (0.018 mi.)***	***B11***	***48***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
FIRE STATION 106	***23004 ROSCOE BLVD***	***WSW 1/8 - 1/4 (0.205 mi.)***	***C15***	***58***

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 3 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MISSLE SYSTEMS GROUP	8433 FALLBROOK AVE	0 - 1/8 (0.000 mi.)	A6	22
MISSILE SYSTEMS GROUP	***8433 FALLBROOK AVE***	***0 - 1/8 (0.000 mi.)***	***A8***	***23***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
FIRE STATION 106	2004 ROSCOE BLVD.	WSW 1/8 - 1/4 (0.206 mi.)	C18	61

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 4 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUGHES AIRCRAFT COMPANY	***8433 FALLBROOK AVE***	***0 - 1/8 (0.000 mi.)***	***A4***	***16***
CHATSWORTH RESERVOIR	***8600 FALLBROOK AVE***	***NNW 0 - 1/8 (0.015 mi.)***	***10***	***47***
ROCKWELL AID /C	***8500 FALLBROOK AVE***	***N 0 - 1/8 (0.018 mi.)***	***B11***	***48***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
FIRE STATION 106	***23004 ROSCOE BLVD***	***WSW 1/8 - 1/4 (0.205 mi.)***	***C15***	***58***

Other Ascertainable Records

RCRA-NonGen: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA-NonGen list, as provided by EDR, and dated 03/15/2012 has revealed that there is 1 RCRA-NonGen site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
K CHERIE MURRAY DBA M & J TRUC	***8551 FAUST AVE***	***NNE 1/8 - 1/4 (0.215 mi.)***	***19***	***62***

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there

is 1 HIST CORTESE site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUGHES MISSILE SYSTEMS CO	*8433 FALLBROOK AVENUE*	*0 - 1/8 (0.000 mi.)*	*A9*	*29*

DRYCLEANERS: A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the DRYCLEANERS list, as provided by EDR, and dated 01/19/2012 has revealed that there is 1 DRYCLEANERS site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
LAKEVIEW CLEANERS	*22736 ROSCOE BLVD*	*SSE 1/8 - 1/4 (0.152 mi.)*	*13*	*51*

HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the HWP list, as provided by EDR, and dated 08/28/2012 has revealed that there is 1 HWP site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUGHES MISSILE SYSTEMS CO	*8433 FALLBROOK AVENUE*	*0 - 1/8 (0.000 mi.)*	*A9*	*29*

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 8 records.

Site Name	Database(s)
AMBITECH, INC.	CERCLIS, PRP
FALLBROOK DENTAL GROUP	HAZNET
THE BOEING CO WEST HILLS	RCRA-SQG, HAZNET
21041 TARTHENIA AVENUE	ERNS
DISTRIBUTION FACILITY 800 PIER T A	ERNS
161 NORTH ISLAND AVENUE	ERNS
5445 LINDLEY AVENUE	ERNS
601 SOUTH VAIL AVENUE	ERNS

OVERVIEW MAP - 03468067.2r



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 8401 Fallbrook Avenue ADDRESS: 8401 Fallbrook Avenue Canoga Park CA 91304 LAT/LONG: 34.2216 / 118.6235	CLIENT: Hillmann Environmental Co. CONTACT: Kristi Hill INQUIRY #: 03468067.2r DATE: December 03, 2012 2:17 pm

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DETAIL MAP - 03468067.2r



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 8401 Fallbrook Avenue	CLIENT: Hillmann Environmental Co.
ADDRESS: 8401 Fallbrook Avenue Canoga Park CA 91304	CONTACT: Kristi Hill INQUIRY #: 03468067.2r
LAT/LONG: 34.2216 / 118.6235	DATE: December 03, 2012 2:21 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	1.000		0	0	0	0	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		1	0	0	NR	NR	1
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		1	0	0	0	NR	1
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		1	0	0	NR	NR	1
Federal RCRA generators list								
RCRA-LQG	0.250	1	1	0	NR	NR	NR	2
RCRA-SQG	0.250		2	2	NR	NR	NR	4
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		1	0	0	0	NR	1
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		1	2	0	NR	NR	3

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SLIC	0.500		2	0	0	NR	NR	2
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
AOCONCERN	1.000		0	0	0	0	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
CA FID UST	0.250		3	1	NR	NR	NR	4
HIST UST	0.250		2	1	NR	NR	NR	3
SWEEPS UST	0.250		3	1	NR	NR	NR	4
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
LIENS	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA-NonGen	0.250		0	1	NR	NR	NR	1
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
RAATS	TP		NR	NR	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
Cortese	0.500		0	0	0	NR	NR	0
HIST CORTESE	0.500		1	0	0	NR	NR	1
CUPA Listings	0.250		0	0	NR	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
LA Co. Site Mitigation	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	1	NR	NR	NR	1
LOS ANGELES CO. HMS	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
HAZNET	TP	1	NR	NR	NR	NR	NR	1
EMI	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
HWT	0.250		0	0	NR	NR	NR	0
HWP	1.000		1	0	0	0	NR	1
FINANCIAL ASSURANCE	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR PROPRIETARY RECORDS								
EDR Proprietary Records								
Manufactured Gas Plants	1.000		0	0	0	0	NR	0
EDR Historical Auto Stations	0.250		0	0	NR	NR	NR	0
EDR Historical Cleaners	0.250		0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 Target Property — **QUEST DIAGNOSTICS**, **8401 FALLBROOK AVENUE**, **WEST HILLS, CA 91304** — **RCRA-LQG** — **1008402415**, **CAR000164962**

Site 1 of 9 in cluster A

Actual: 848 ft.

RCRA-LQG:

Date form received by agency:	06/03/2010
Facility name:	QUEST DIAGNOSTICS
Facility address:	8401 FALLBROOK AVENUE WEST HILLS, CA 91304
EPA ID:	CAR000164962
Mailing address:	FALLBROOK AVENUE WEST HILLS, CA 91304
Contact:	WALTER P PROBER
Contact address:	FALLBROOK AVENUE WEST HILLS, CA 91304
Contact country:	Not reported
Contact telephone:	(818) 737-6032
Contact email:	WALTER.P.PROBER@QUESTDIAGNOSTICS.COM
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	QUEST DIAGNOSTICS
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	02/20/2006
Owner/Op end date:	Not reported

Owner/operator name:	QUEST DIAGNOSTICS
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	02/18/2006
Owner/Op end date:	Not reported

Owner/operator name:	QUEST DIAGNOSTICS
Owner/operator address:	FALLBROOK AVENUE WEST HILLS, CA 91304

QUEST DIAGNOSTICS (Continued) **1008402415**

Owner/operator country: Not reported
Owner/operator telephone: (818) 737-6032
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 02/20/2006
Owner/Op end date: Not reported

Owner/operator name: QUEST DIAGNOSTICS
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 08/23/2002
Owner/Op end date: Not reported

Owner/operator name: QUEST DIAGNOSTICS
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 08/23/2002
Owner/Op end date: Not reported

Owner/operator name: QUEST DIAGNOSTICS
Owner/operator address: 8401 FALLBROOK AVENUE
WEST HILLS, CA 91304
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 02/18/2006
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 05/28/2008

QUEST DIAGNOSTICS (Continued) **1008402415**

Facility name: QUEST DIAGNOSTICS
Classification: Large Quantity Generator

Date form received by agency: 08/19/2005
Facility name: QUEST DIAGNOSTICS
Classification: Large Quantity Generator

Hazardous Waste Summary:
Waste code: 134
Waste name: 134

Waste code: 214
Waste name: 214

Waste code: 331
Waste name: 331

Waste code: 343
Waste name: 343

Waste code: 352
Waste name: 352

Waste code: 551
Waste name: 551

Waste code: 791
Waste name: 791

Waste code: 792
Waste name: 792

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D009
Waste name: MERCURY

Waste code: D011
Waste name: SILVER

Waste code: D022

QUEST DIAGNOSTICS (Continued) **1008402415**

Waste name: CHLOROFORM

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: U122
Waste name: FORMALDEHYDE

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D022
Waste name: CHLOROFORM

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR

QUEST DIAGNOSTICS (Continued) **1008402415**

MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D009
Waste name: MERCURY

Waste code: D011
Waste name: SILVER

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS

QUEST DIAGNOSTICS (Continued) **1008402415**

LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Biennial Reports:

Last Biennial Reporting Year: 2011

Annual Waste Handled:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs): 222611

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs): 222611

Waste code: D009
Waste name: MERCURY
Amount (Lbs): 222611

Waste code: D011
Waste name: SILVER
Amount (Lbs): 222611

Waste code: D022
Waste name: CHLOROFORM
Amount (Lbs): 222611

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 222611

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS

QUEST DIAGNOSTICS (Continued) **1008402415**

CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Amount (Lbs): 222611

Waste code: U122
Waste name: FORMALDEHYDE
Amount (Lbs): 222611

Violation Status: No violations found

A2 **QUEST DIAGNOSTICS INC** **HAZNET** **S108753460**
Target **8401 FALLBROOK AVENUE** **N/A**
Property **WEST HILLS, CA 91304**

Site 2 of 9 in cluster A

Actual:
848 ft.

HAZNET:

Year: 2011
Gepaid: CAR000164962
Contact: WALTER PROBER/S. CA EHS MGR
Telephone: 8187376032
Mailing Name: Not reported
Mailing Address: 8401 FALLBROOK AVE
Mailing City,St,Zip: WEST HILLS, CA 913040000
Gen County: Not reported
TSD EPA ID: CAD008302903
TSD County: Not reported
Waste Category: Laboratory waste chemicals
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 27.16755
Facility County: Los Angeles

Year: 2011
Gepaid: CAR000164962
Contact: WALTER PROBER/S. CA EHS MGR
Telephone: 8187376032
Mailing Name: Not reported
Mailing Address: 8401 FALLBROOK AVE
Mailing City,St,Zip: WEST HILLS, CA 913040000
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Off-specification, aged or surplus organics
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.2
Facility County: Los Angeles

Year: 2011
Gepaid: CAR000164962
Contact: WALTER PROBER/S. CA EHS MGR
Telephone: 8187376032
Mailing Name: Not reported
Mailing Address: 8401 FALLBROOK AVE
Mailing City,St,Zip: WEST HILLS, CA 913040000

QUEST DIAGNOSTICS INC (Continued) **S108753460**

Gen County: Not reported
TSD EPA ID: TXD000838896
TSD County: Not reported
Waste Category: Unspecified solvent mixture
Disposal Method: Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: 2.85
Facility County: Los Angeles

Year: 2011
Gepaid: CAR000164962
Contact: WALTER PROBER/S. CA EHS MGR
Telephone: 8187376032
Mailing Name: Not reported
Mailing Address: 8401 FALLBROOK AVE
Mailing City,St,Zip: WEST HILLS, CA 913040000
Gen County: Not reported
TSD EPA ID: TXD000838896
TSD County: Not reported
Waste Category: Liquids with pH <= 2
Disposal Method: Not reported
Tons: 0.2502
Facility County: Los Angeles

Year: 2011
Gepaid: CAR000164962
Contact: WALTER PROBER/S. CA EHS MGR
Telephone: 8187376032
Mailing Name: Not reported
Mailing Address: 8401 FALLBROOK AVE
Mailing City,St,Zip: WEST HILLS, CA 913040000
Gen County: Not reported
TSD EPA ID: CAD982444481
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 10.45
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access
403 additional CA_HAZNET: record(s) in the EDR Site Report.

A3 **QUEST DIAGNOSTICS** **FINDS** **1008905327**
Target **8401 FALLBROOK AVENUE** **N/A**
Property **WEST HILLS, CA 91304**

Site 3 of 9 in cluster A

Actual:
848 ft.

FINDS:

Registry ID: 110022819333

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

QUEST DIAGNOSTICS (Continued) **1008905327**

corrective action activities required under RCRA.

HAZARDOUS WASTE BIENNIAL REPORTER

A4 **HUGHES AIRCRAFT COMPANY** **CA FID UST** **S101582682**
8433 FALLBROOK AVE **SWEEPS UST** **N/A**
< 1/8 **CANOGA PARK, CA 91304**
1 ft.

Site 4 of 9 in cluster A

Relative: Higher

Actual: 849 ft.

CA FID UST:

Facility ID:	19001041
Regulated By:	UTNKI
Regulated ID:	00035465
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	8187021014
Mail To:	Not reported
Mailing Address:	8433 FALLBROOK AVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	CANOGA PARK 913040000
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

SWEEPS UST:

Status:	Not reported
Comp Number:	1994
Number:	Not reported
Board Of Equalization:	44-012123
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	19-050-001994-000001
Actv Date:	Not reported
Capacity:	12000
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	14

Status:	Not reported
Comp Number:	1994
Number:	Not reported
Board Of Equalization:	44-012123
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported

HUGHES AIRCRAFT COMPANY (Continued) **S101582682**

Swrcb Tank Id: 19-050-001994-000002
Actv Date: Not reported
Capacity: 10000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 1994
Number: Not reported
Board Of Equalization: 44-012123
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 19-050-001994-000003
Actv Date: Not reported
Capacity: 4000
Tank Use: CHEMICAL
Stg: PRODUCT
Content: UNKNOWN
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 1994
Number: Not reported
Board Of Equalization: 44-012123
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 19-050-001994-000004
Actv Date: Not reported
Capacity: 500
Tank Use: CHEMICAL
Stg: PRODUCT
Content: UNKNOWN
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 1994
Number: Not reported
Board Of Equalization: 44-012123
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 19-050-001994-000005
Actv Date: Not reported
Capacity: 500
Tank Use: CHEMICAL
Stg: PRODUCT
Content: UNKNOWN

HUGHES AIRCRAFT COMPANY (Continued) **S101582682**

Number Of Tanks: Not reported

Status: Not reported
Comp Number: 1994
Number: Not reported
Board Of Equalization: 44-012123
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 19-050-001994-000006
Actv Date: Not reported
Capacity: 12000
Tank Use: CHEMICAL
Stg: PRODUCT
Content: UNKNOWN
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 1994
Number: Not reported
Board Of Equalization: 44-012123
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 19-050-001994-000007
Actv Date: Not reported
Capacity: 12000
Tank Use: CHEMICAL
Stg: PRODUCT
Content: UNKNOWN
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 1994
Number: Not reported
Board Of Equalization: 44-012123
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 19-050-001994-000008
Actv Date: Not reported
Capacity: 12000
Tank Use: CHEMICAL
Stg: PRODUCT
Content: UNKNOWN
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 1994
Number: Not reported
Board Of Equalization: 44-012123

HUGHES AIRCRAFT COMPANY (Continued) **S101582682**

Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	19-050-001994-000009
Actv Date:	Not reported
Capacity:	10000
Tank Use:	CHEMICAL
Stg:	PRODUCT
Content:	UNKNOWN
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	1994
Number:	Not reported
Board Of Equalization:	44-012123
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	19-050-001994-000010
Actv Date:	Not reported
Capacity:	85
Tank Use:	CHEMICAL
Stg:	PRODUCT
Content:	UNKNOWN
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	1994
Number:	Not reported
Board Of Equalization:	44-012123
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	19-050-001994-000011
Actv Date:	Not reported
Capacity:	10000
Tank Use:	CHEMICAL
Stg:	PRODUCT
Content:	UNKNOWN
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	1994
Number:	Not reported
Board Of Equalization:	44-012123
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	19-050-001994-000012

HUGHES AIRCRAFT COMPANY (Continued) **S101582682**

Actv Date:	Not reported
Capacity:	40
Tank Use:	CHEMICAL
Stg:	PRODUCT
Content:	UNKNOWN
Number Of Tanks:	Not reported
Status:	Not reported
Comp Number:	1994
Number:	Not reported
Board Of Equalization:	44-012123
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	19-050-001994-000013
Actv Date:	Not reported
Capacity:	1687
Tank Use:	CHEMICAL
Stg:	PRODUCT
Content:	UNKNOWN
Number Of Tanks:	Not reported
Status:	Not reported
Comp Number:	1994
Number:	Not reported
Board Of Equalization:	44-012123
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	19-050-001994-000014
Actv Date:	Not reported
Capacity:	135000
Tank Use:	CHEMICAL
Stg:	PRODUCT
Content:	UNKNOWN
Number Of Tanks:	Not reported

A5 **QUEST DIAGNOSTICS** **RCRA-LQG** **1008402418**
8403 FALLBROOK AVENUE **CAR000164996**
< 1/8 **WEST HILLS, CA 91304**
1 ft.

Site 5 of 9 in cluster A

Relative: Higher

Actual: 848 ft.

RCRA-LQG:

Date form received by agency:	08/24/2005
Facility name:	QUEST DIAGNOSTICS
Facility address:	8403 FALLBROOK AVENUE WEST HILLS, CA 91304
EPA ID:	CAR000164996
Mailing address:	18408 OXNARD ST TARZANA, CA 91356
Contact:	WALTER PROBER
Contact address:	18408 OXNARD ST TARZANA, CA 91356

QUEST DIAGNOSTICS (Continued) **1008402418**

Contact country: US
Contact telephone: 818-996-7300
Telephone ext.: 6615
Contact email: Not reported
EPA Region: 09
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: QUEST DIAGNOSTICS
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 03/31/2004
Owner/Op end date: Not reported

Owner/operator name: QUEST DIAGNOSTICS
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 03/31/2004
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

QUEST DIAGNOSTICS (Continued) **1008402418**

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D007
Waste name: CHROMIUM

Waste code: D009
Waste name: MERCURY

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

A6 **MISSLE SYSTEMS GROUP** **HIST UST** **U001567142**
8433 FALLBROOK AVE **N/A**
< 1/8 **CANOGA PARK, CA 91304**
1 ft.

Site 6 of 9 in cluster A

Relative: Higher

Actual: 849 ft.

HIST UST:

Region: STATE
Facility ID: 00000050582
Facility Type: Other
Other Type: MISSILE RESEARCH & D
Total Tanks: 0003
Contact Name: ROSS A. MOORE
Telephone: 8187021035
Owner Name: HUGHES AIRCRAFT COMPANY MISSLE
Owner Address: 8433 FALLBROOK AVENUE
Owner City,St,Zip: CANOGA PARK, CA 91304

Tank Num: 001
Container Num: PIT #2
Year Installed: 1959
Tank Capacity: 00005476
Tank Used for: WASTE
Type of Fuel: Not reported
Tank Construction: 8 inches
Leak Detection: None

Tank Num: 002

MISSLE SYSTEMS GROUP (Continued) **U001567142**

Container Num: S-1
Year Installed: 1981
Tank Capacity: 00000011
Tank Used for: WASTE
Type of Fuel: Not reported
Tank Construction: 6 inches
Leak Detection: None

Tank Num: 003
Container Num: S-2
Year Installed: 1981
Tank Capacity: 00000011
Tank Used for: WASTE
Type of Fuel: Not reported
Tank Construction: 6 inches
Leak Detection: None

A7 **HUGHES MISSILE SYSTEMS** **SLIC** **1005984143**
8433 FALLBROOK **N/A**
< 1/8 **CANOGA PARK, CA 91304**
1 ft.

Site 7 of 9 in cluster A

Relative: SLIC REG 4:
Higher Region: 4
Facility Status: Remediation
Actual: SLIC: 0693
849 ft. Substance: VOCs
Staff: TTW

A8 **MISSILE SYSTEMS GROUP** **HIST UST** **U001567141**
8433 FALLBROOK AVE **EMI** **N/A**
< 1/8 **CANOGA PARK, CA 91304**
1 ft.

Site 8 of 9 in cluster A

Relative: HIST UST:
Higher Region: STATE
Facility ID: 00000035465
Actual: Facility Type: Other
849 ft. Other Type: MISSILE RESEARCH AND
Total Tanks: 0014
Contact Name: ROSS A. MOORE
Telephone: 8187021035
Owner Name: HUGHES AIRCRAFT COMPANY MISSLE
Owner Address: 8433 FALLBROOK AVENUE
Owner City,St,Zip: CANOGA PARK, CA 91304

Tank Num: 001
Container Num: T-1
Year Installed: 1974
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: 1/4 inches
Leak Detection: Stock Inventor

MISSILE SYSTEMS GROUP (Continued) **U001567141**

Tank Num: 002
Container Num: T-2
Year Installed: 1975
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Tank Construction: 1/4 inches
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: T-3
Year Installed: 1979
Tank Capacity: 00004000
Tank Used for: WASTE
Type of Fuel: Not reported
Tank Construction: 1/4 inches
Leak Detection: None

Tank Num: 004
Container Num: T-5
Year Installed: 1959
Tank Capacity: 00000500
Tank Used for: Not reported
Type of Fuel: Not reported
Tank Construction: 3/16 unknown
Leak Detection: Visual

Tank Num: 005
Container Num: T-6 (ABAND
Year Installed: 1959
Tank Capacity: 00000500
Tank Used for: Not reported
Type of Fuel: Not reported
Tank Construction: 3/16 inches
Leak Detection: Visual

Tank Num: 006
Container Num: T-7
Year Installed: 1979
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: 1/4 inches
Leak Detection: Stock Inventor

Tank Num: 007
Container Num: T-8
Year Installed: 1979
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: 1/4 inches
Leak Detection: Stock Inventor

Tank Num: 008
Container Num: T-9
Year Installed: 1979

MISSILE SYSTEMS GROUP (Continued) **U001567141**

Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: 1/4 inches
Leak Detection: Stock Inventor

Tank Num: 009
Container Num: T-10
Year Installed: 1959
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: 5/16 inches
Leak Detection: None

Tank Num: 010
Container Num: T-12
Year Installed: 1980
Tank Capacity: 00000085
Tank Used for: WASTE
Type of Fuel: Not reported
Tank Construction: 1/4 inches
Leak Detection: None, 10

Tank Num: 011
Container Num: T-13
Year Installed: 1977
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: 1/4 inches
Leak Detection: Stock Inventor, 10

Tank Num: 012
Container Num: T-17
Year Installed: 1971
Tank Capacity: 00000040
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: Not reported
Leak Detection: Visual

Tank Num: 013
Container Num: PIT #1
Year Installed: 1981
Tank Capacity: 00001687
Tank Used for: WASTE
Type of Fuel: Not reported
Tank Construction: 6 inches
Leak Detection: None

Tank Num: 014
Container Num: T-4
Year Installed: 1959
Tank Capacity: 00135000
Tank Used for: Not reported
Type of Fuel: Not reported

MISSILE SYSTEMS GROUP (Continued) **U001567141**

Tank Construction: 16 inches
Leak Detection: None

EMI:

Year:	1987
County Code:	19
Air Basin:	SC
Facility ID:	17018
Air District Name:	SC
SIC Code:	3761
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	22
Reactive Organic Gases Tons/Yr:	10
Carbon Monoxide Emissions Tons/Yr:	5
NOX - Oxides of Nitrogen Tons/Yr:	6
SOX - Oxides of Sulphur Tons/Yr:	5
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	17018
Air District Name:	SC
SIC Code:	3761
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	7
SOX - Oxides of Sulphur Tons/Yr:	2
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1993
County Code:	19
Air Basin:	SC
Facility ID:	17018
Air District Name:	SC
SIC Code:	3761
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1995
County Code:	19

MISSILE SYSTEMS GROUP (Continued) **U001567141**

Air Basin:	SC
Facility ID:	17018
Air District Name:	SC
SIC Code:	3761
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1996
County Code:	19
Air Basin:	SC
Facility ID:	17018
Air District Name:	SC
SIC Code:	3761
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	1
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1997
County Code:	19
Air Basin:	SC
Facility ID:	17018
Air District Name:	SC
SIC Code:	3761
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1998
County Code:	19
Air Basin:	SC
Facility ID:	17018
Air District Name:	SC
SIC Code:	3761
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported

MISSILE SYSTEMS GROUP (Continued) **U001567141**

Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1999
County Code:	19
Air Basin:	SC
Facility ID:	17018
Air District Name:	SC
SIC Code:	3761
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2000
County Code:	19
Air Basin:	SC
Facility ID:	17018
Air District Name:	SC
SIC Code:	3761
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2001
County Code:	19
Air Basin:	SC
Facility ID:	17018
Air District Name:	SC
SIC Code:	3761
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0

MISSILE SYSTEMS GROUP (Continued) **U001567141**

Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

A9
< 1/8
1 ft.

Relative:
Higher

Actual:
849 ft.

HUGHES MISSILE SYSTEMS CO
8433 FALLBROOK AVENUE
CANOGA PARK, CA 91304

Site 9 of 9 in cluster A

RCRA-TSDF **1000240986**
CERC-NFRAP **CAD041162124**
CORRACTS
RCRA-SQG
FINDS
NPDES
HIST CORTESE
LUST
SLIC
ENVIROSTOR
HWP
FINANCIAL ASSURANCE
US FIN ASSUR

RCRA-TSDF:

Date form received by agency:	09/01/1996
Facility name:	HUGHES AIRCRAFT COMPANY
Facility address:	8433 FALLBROOK AVENUE CANOGA PARK, CA 91304
EPA ID:	CAD041162124
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	TSDF
Description:	Handler is engaged in the treatment, storage or disposal of hazardous waste

Owner/Operator Summary:

Owner/operator name:	HUGHES AIRCRAFT COMPANY
Owner/operator address:	8433 FALLBROOK AVENUE CANOGA PARK, CA 91304
Owner/operator country:	Not reported
Owner/operator telephone:	(213) 702-1000
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	HUGHES AIRCRAFT COMPANY
Owner/operator address:	8433 FALLBROOK AVENUE CITY NOT REPORTED, CA 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(213) 702-1000
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

HUGHES MISSILE SYSTEMS CO (Continued) **1000240986**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 09/01/1996
Facility name: HUGHES AIRCRAFT COMPANY
Classification: Small Quantity Generator

Date form received by agency: 03/28/1994
Facility name: HUGHES AIRCRAFT COMPANY
Site name: HUGHES MISSILE SYSTEMS CO.
Classification: Large Quantity Generator

Date form received by agency: 02/27/1992
Facility name: HUGHES AIRCRAFT COMPANY
Site name: HUGHES AIRCRAFT CO/MISSLE R&D
Classification: Large Quantity Generator

Date form received by agency: 08/18/1980
Facility name: HUGHES AIRCRAFT COMPANY
Classification: Large Quantity Generator

Corrective Action Summary:
Event date: 07/29/1991
Event: CA029WQ

Event date: 07/29/1991
Event: CA049PA

Event date: 07/29/1991
Event: CA074LO

Event date: 07/29/1991
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Event date: 07/29/1991
Event: RFA Completed

Event date: Not reported
Event: CA03193

HUGHES MISSILE SYSTEMS CO (Continued) **1000240986**

Event date: Not reported
Event: RFI Imposition

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 12/19/2007
Date achieved compliance: 03/04/2008
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/07/2008
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 12/19/2007
Date achieved compliance: 03/04/2008
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 01/02/2009
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 20000
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 12/19/2007
Date achieved compliance: 03/04/2008
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 12/05/2008
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 20000
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 12/19/2007
Date achieved compliance: 01/02/2009
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/07/2008
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported

HUGHES MISSILE SYSTEMS CO (Continued) **1000240986**

Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 12/19/2007
Date achieved compliance: 01/02/2009
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/07/2008
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 12/19/2007
Date achieved compliance: 03/04/2008
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 01/02/2009
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 20000
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 12/19/2007
Date achieved compliance: 03/04/2008
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 12/05/2008
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 20000
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 12/19/2007
Date achieved compliance: 03/04/2008
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/07/2008
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported

HUGHES MISSILE SYSTEMS CO (Continued) **1000240986**

Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General Facility Standards
Date violation determined: 08/23/1994
Date achieved compliance: 09/22/1994
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 08/23/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 500
Final penalty amount: 500
Paid penalty amount: 500

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 11/22/1991
Date achieved compliance: 06/01/1994
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 04/24/1991
Date achieved compliance: 05/28/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/07/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 02/22/1989
Date achieved compliance: 10/15/1990
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 07/06/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5500
Paid penalty amount: 5500

HUGHES MISSILE SYSTEMS CO (Continued) **1000240986**

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 02/22/1989
Date achieved compliance: 10/15/1990
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/06/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 02/22/1989
Date achieved compliance: 10/15/1990
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 07/06/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5500
Paid penalty amount: 5500

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 02/22/1989
Date achieved compliance: 10/15/1990
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/06/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 04/14/2009
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/26/2009
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/04/2008
Evaluation: NOT A SIGNIFICANT NON-COMPLIER

HUGHES MISSILE SYSTEMS CO (Continued) **1000240986**

Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/19/2007
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/19/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 03/04/2008
Evaluation lead agency: State

Evaluation date: 12/19/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 01/02/2009
Evaluation lead agency: State

Evaluation date: 12/19/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: 01/02/2009
Evaluation lead agency: State

Evaluation date: 12/19/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: 03/04/2008
Evaluation lead agency: State

Evaluation date: 12/05/2007
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/20/2007
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/12/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/29/2006
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

HUGHES MISSILE SYSTEMS CO (Continued) **1000240986**

Evaluation date: 06/15/2006
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/26/2004
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/22/1996
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/09/1995
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/10/1994
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/01/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General Facility Standards
Date achieved compliance: 09/22/1994
Evaluation lead agency: State

Evaluation date: 04/06/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 11/22/1991
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 06/01/1994
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 04/24/1991
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: TSD - General
Date achieved compliance: 05/28/1991
Evaluation lead agency: State

Evaluation date: 02/22/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure

HUGHES MISSILE SYSTEMS CO (Continued) **1000240986**

Date achieved compliance: 10/15/1990
Evaluation lead agency: State

Evaluation date: 02/22/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 10/15/1990
Evaluation lead agency: State

Evaluation date: 02/21/1989
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

CERC-NFRAP:
Site ID: 0903304
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: Deferred to RCRA

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13054566.00000
Person ID: 9271184.00000

Contact Sequence ID: 13290319.00000
Person ID: 13003854.00000

Contact Sequence ID: 13295914.00000
Person ID: 13003858.00000

Contact Sequence ID: 13301772.00000
Person ID: 13004003.00000

Program Priority:
Description: RCRA Deferral - Lead Confirmed

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: Not reported
Date Completed: 04/01/1991
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: Not reported
Date Completed: 08/09/1991
Priority Level: Deferred to RCRA (Subtitle C)

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 01/23/1996
Priority Level: Not reported

CORRACTS:

HUGHES MISSILE SYSTEMS CO (Continued) **1000240986**

EPA ID: CAD041162124
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 07/29/1991
Action: CA029WQ
NAICS Code(s): 336414 336419
Guided Missile and Space Vehicle Manufacturing
Other Guided Missile and Space Vehicle Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD041162124
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 07/29/1991
Action: CA049PA
NAICS Code(s): 336414 336419
Guided Missile and Space Vehicle Manufacturing
Other Guided Missile and Space Vehicle Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD041162124
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 07/29/1991
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): 336414 336419
Guided Missile and Space Vehicle Manufacturing
Other Guided Missile and Space Vehicle Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD041162124
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 07/29/1991
Action: CA050 - RFA Completed
NAICS Code(s): 336414 336419
Guided Missile and Space Vehicle Manufacturing
Other Guided Missile and Space Vehicle Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD041162124
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 07/29/1991
Action: CA074LO
NAICS Code(s): 336414 336419
Guided Missile and Space Vehicle Manufacturing
Other Guided Missile and Space Vehicle Parts and Auxiliary Equipment

HUGHES MISSILE SYSTEMS CO (Continued) **1000240986**

Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD041162124
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: Not reported
Action: CA03193
NAICS Code(s): 336414 336419
Guided Missile and Space Vehicle Manufacturing
Other Guided Missile and Space Vehicle Parts and Auxiliary Equipment Manufacturing
Original schedule date: 10/01/1993
Schedule end date: Not reported

FINDS:

Registry ID: 110000609477

Environmental Interest/Information System

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY

NPDES:

Npdes Number:	CAS000002
Facility Status:	Terminated
Agency Id:	0
Region:	4
Regulatory Measure Id:	312268
Order No:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	4 19C343870
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	10/04/2006
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	05/20/2010
Discharge Name:	MEPT West Hills LLC
Discharge Address:	1215 Fourth Ave Ste 2400
Discharge City:	Seattle
Discharge State:	Washington
Discharge Zip:	98161

HUGHES MISSILE SYSTEMS CO (Continued) **1000240986**

CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 913040352

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 913040352
Status: Remedial action (cleanup) Underway
Substance: Solvents
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: Excavate and Dispose
Global ID: T0603702098
W Global ID: W0605100510
Staff: SLC
Local Agency: 19050
Cross Street: ECCLES ST
Enforcement Type: Not reported
Date Leak Discovered: 6/20/1988
Date Leak First Reported: 1/29/1985
Date Leak Record Entered: 12/31/1986
Date Confirmation Began: Not reported
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 7/15/1998
Date the Case was Closed: Not reported
How Leak Discovered: Tank Closure
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: Not reported
Water System: VIRGINIA LKS. MUT. WATER CO.
Well Name: Not reported
Approx. Dist To Production Well (ft): 13531.155956221583606583331749
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: 4/21/1988
Remediation Plan Submitted: Not reported
Remedial Action Underway: 3/10/1992
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Yes
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: HUGHES AIRCRAFT COMPANY
RP Address: SAME AS SITE

HUGHES MISSILE SYSTEMS CO (Continued) **1000240986**

Program: SLIC
Lat/Long: 34.224103 / -1
Local Agency Staff: PEJ
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: 2600510-001GEN
Summary: QTRLY G/W MON. SOLVENT & TRACE METAL CONTAMINATION. 9-21-88 UPDATE-REDRILLING WELLS 1ST ONE DRY. 4-89 UPDATE-SAP FOR NEWWELLS EXPECTED. 07/15/98 - GW & REMEDIATION SYSTEM MON 1998 Q

SLIC:
Region: STATE
Facility Status: **Open - Remediation**
Status Date: 03/10/1992
Global Id: T0603702098
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number: Not reported
Latitude: 34.224103
Longitude: -118.6235434
Case Type: Cleanup Program Site
Case Worker: SLC
Local Agency: LOS ANGELES, CITY OF
RB Case Number: 913040352
File Location: Not reported
Potential Media Affected: Aquifer used for drinking water supply
Potential Contaminants of Concern: * Solvents
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Region: STATE
Facility Status: **Open - Remediation**
Status Date: 06/30/2002
Global Id: SL2043T1572
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number: Not reported
Latitude: 34.224235
Longitude: -118.623812
Case Type: Cleanup Program Site
Case Worker: SH
Local Agency: Not reported
RB Case Number: 0693
File Location: Not reported
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

ENVIROSTOR:
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported

HUGHES MISSILE SYSTEMS CO (Continued) **1000240986**

NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Chatsworth
Facility ID: 19360344
Site Code: Not reported
Assembly: 45
Senate: 27
Special Program: Not reported
Status: Refer: RCRA
Status Date: 05/01/1995
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Not reported
Latitude: 34.22444
Longitude: -118.6236
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: RAYTHEON SYSTEMS CO
Alias Type: Alternate Name
Alias Name: THOMPSON-RAMCO-WOOL-RIDGE
Alias Type: Alternate Name
Alias Name: CAD041162124
Alias Type: EPA Identification Number
Alias Name: 19360344
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 04/15/1988
Comments: SITE SCREENING DONE UNABLE TO VEIW COMPLEX DURING DRIVE-BY PA MED DUE TO LACK OF INFO.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 10/22/1982
Comments: FACILITY IDENTIFIED ID FROM LA CHAM COMM DIR 1963-64. COMPUTERS, MISSILE COMPONENTS.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Site Type: Corrective Action

HUGHES MISSILE SYSTEMS CO (Continued) **1000240986**

Site Type Detailed: Corrective Action
Acres: 86
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: WM
Program Manager: Stephanie Lewis
Supervisor: Juli Propes
Division Branch: Cleanup Chatsworth
Facility ID: 80001366
Site Code: 300336
Assembly: 45
Senate: 27
Special Program: Not reported
Status: Active
Status Date: 06/15/2009
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Not reported
Latitude: 34.22321
Longitude: -118.6261
APN: NONE SPECIFIED
Past Use: HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, RESEARCH - AEROSPACE, UNDERGROUND STORAGE TANKS, WASTE - INDUSTRIAL WASTE LINE
Potential COC: 30001, 30003, 30005, 30020, 30022, 30024, 30026, 30027, 30028, 30080, 30108, 30153, 30192, 30193, 30194, 30565, 30586
Confirmed COC: 30001-NO,30003,30565,30020-NO,30022,30024,30026,30108,30153,30192, 30193,30586-NO,30027,30194,30080,30028,30005
Potential Description: OTH, SOIL, SV
Alias Name: HUGHES AIRCRAFT COMPANY
Alias Type: Alternate Name
Alias Name: CAD041162124
Alias Type: EPA Identification Number
Alias Name: 300336
Alias Type: Project Code (Site Code)
Alias Name: 19360344
Alias Type: Envirostor ID Number
Alias Name: 80001366
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Soil/Site Management Plan
Completed Date: 05/08/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Soil/Site Management Plan
Completed Date: 12/18/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Soil/Site Management Plan
Completed Date: 05/12/2009
Comments: Not reported

HUGHES MISSILE SYSTEMS CO (Continued) **1000240986**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 09/17/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 07/29/1991
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 10/27/2009
Comments: Final letter sent to developer.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/20/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/27/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 07/08/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 01/10/2012
Comments: DTSC approved Appendix A4 for the Soil Management Plan

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 07/29/1991
Comments: RFA was sent to Raytheon Misslie Systems on February 4, 2008

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/05/2008
Comments: This memo outlines condition to which development can occur at the site without impeding site cleanup.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

HUGHES MISSILE SYSTEMS CO (Continued) **1000240986**

Completed Document Type: RCRA Facility Assessment Report
Completed Date: 07/29/1991
Comments: Not reported

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: RCRA Facility Assessment Report
Future Due Date: 2013
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HWP:
EPA Id: CAD041162124
Latitude: 34.22321
Longitude: -118.6261
Facility Type: Historical - Non-Operating
Cleanup Status: CLOSED
Supervisor: Not reported
Site Code: 300336
Assembly District: 45
Senate District: 27
Public Information Officer: Not reported

Activities:
EPA Id: CAD041162124
Facility Type: Historical - Non-Operating
Unit Names: Not reported
Event Description: New Operating Permit - APPLICATION PART A RECEIVED
Actual Date: 11/18/1980

EPA Id: CAD041162124
Facility Type: Historical - Non-Operating
Unit Names: Not reported
Event Description: New Operating Permit - CALL-IN LETTER ISSUED
Actual Date: 03/21/1983

EPA Id: CAD041162124
Facility Type: Historical - Non-Operating
Unit Names: Not reported
Event Description: New Operating Permit - APPLICATION PART B RECEIVED
Actual Date: 05/13/1983

EPA Id: CAD041162124
Facility Type: Historical - Non-Operating
Unit Names: Not reported
Event Description: New Operating Permit - FINAL PERMIT (EFFECTIVE)
Actual Date: 06/28/1985

EPA Id: CAD041162124
Facility Type: Historical - Non-Operating
Unit Names: Not reported
Event Description: New Operating Permit - PUBLIC COMMENT (BEGIN)
Actual Date: 04/26/1985

HUGHES MISSILE SYSTEMS CO (Continued) **1000240986**

EPA Id: CAD041162124
Facility Type: Historical - Non-Operating
Unit Names: Not reported
Event Description: Renewal - Historical - APPLICATION PART B RECEIVED
Actual Date: 12/18/1989

EPA Id: CAD041162124
Facility Type: Historical - Non-Operating
Unit Names: Not reported
Event Description: New Operating Permit - FINAL PERMIT (EXPIRES)
Actual Date: 06/28/1990

EPA Id: CAD041162124
Facility Type: Historical - Non-Operating
Unit Names: Not reported
Event Description: New Operating Permit - FINAL PERMIT
Actual Date: 06/28/1985

Closure:
EPA Id: CAD041162124
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1
Event Description: Closure Final - ISSUE CLOSURE VERIFICATION
Actual Date: 06/27/1996

Alias:
EPA Id: CAD041162124
Facility Type: Historical - Non-Operating
Alias Type: Alternate Name
Alias: HUGHES AIRCRAFT COMPANY

EPA Id: CAD041162124
Facility Type: Historical - Non-Operating
Alias Type: Project Code (Site Code)
Alias: 300336

EPA Id: CAD041162124
Facility Type: Historical - Non-Operating
Alias Type: Envirostor ID Number
Alias: 19360344

CA FINANCIAL ASSURANCE 1:
EPA ID Number: CAD041162124
Closure Mechanism: LOC
Closure Amount: 110,821
Post Clousure Mechanism: LOC
Post Clousure Amount: 2,630,506
Corrective Action Mechanism: Not reported
Corrective Action Amount: Not reported
Sudden Mecahanism Type: LOC
Sudden Mecahanism Amount: 10,000,000
Non Sudden Mecahanism Type: Not reported
Non Sudden Mecahanism Amount: Not reported

HUGHES MISSILE SYSTEMS CO (Continued) **1000240986**

US FIN ASSUR:
EPA ID: CAD041162124
Provider: INTESA SANPAOLO
EPA region: 9
County: LOS ANGELES
Mechanism type: LETTER OF CREDIT
Mechanism ID: 093074-793
Cost estimate: 715765
Face value: 715765
Effective date: 5/20/2009

10
NNW
< 1/8
0.015 mi.
80 ft.

CHATSWORTH RESERVOIR **CA FID UST** **S101618346**
8600 FALLBROOK AVE **SWEEPS UST** **N/A**
CANOGA PARK, CA 91304

Relative:
Higher

Actual:
872 ft.

CA FID UST:
Facility ID: 19055642
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 2133495146
Mail To: Not reported
Mailing Address: 111 N HOPE ST
Mailing Address 2: Not reported
Mailing City,St,Zip: CANOGA PARK 913040000
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

SWEEPS UST:
Status: Not reported
Comp Number: 3933
Number: Not reported
Board Of Equalization: Not reported
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: Not reported
Actv Date: Not reported
Capacity: Not reported
Tank Use: Not reported
Stg: Not reported
Content: Not reported
Number Of Tanks: 0

B11 **ROCKWELL AID /C** **CA FID UST** **S101585911**
North **8500 FALLBROOK AVE** **SWEEPS UST** **N/A**
< 1/8 **CANOGA PARK, CA 91303** **HAZNET**
0.018 mi.
95 ft. **Site 1 of 2 in cluster B**

Relative:
Higher

Actual:
853 ft.

CA FID UST:

Facility ID:	19033210
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	8187102145
Mail To:	Not reported
Mailing Address:	8500 FALLBROOK AVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	CANOGA PARK 913030000
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

SWEEPS UST:

Status:	Not reported
Comp Number:	7377
Number:	Not reported
Board Of Equalization:	Not reported
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	Not reported
Actv Date:	Not reported
Capacity:	Not reported
Tank Use:	Not reported
Stg:	Not reported
Content:	Not reported
Number Of Tanks:	0

HAZNET:

Year:	2010
Gepaid:	CAD982412959
Contact:	NICK LOEBS
Telephone:	8183077310
Mailing Name:	Not reported
Mailing Address:	PO BOX 7922
Mailing City,St,Zip:	CANOGA PARK, CA 913097922
Gen County:	Not reported
TSD EPA ID:	CAD008302903
TSD County:	Not reported
Waste Category:	Off-specification, aged or surplus organics
Disposal Method:	Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.25
Facility County:	Los Angeles

ROCKWELL AID /C (Continued) **S101585911**

Year:	2009
Gepaid:	CAD982412959
Contact:	NICK LOEBS
Telephone:	8183077310
Mailing Name:	Not reported
Mailing Address:	PO BOX 7922
Mailing City,St,Zip:	CANOGA PARK, CA 913097922
Gen County:	Los Angeles
TSD EPA ID:	CAD008302903
TSD County:	Los Angeles
Waste Category:	Other organic solids
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.006
Facility County:	Los Angeles

Year:	2009
Gepaid:	CAD982412959
Contact:	NICK LOEBS
Telephone:	8183077310
Mailing Name:	Not reported
Mailing Address:	PO BOX 7922
Mailing City,St,Zip:	CANOGA PARK, CA 913097922
Gen County:	Los Angeles
TSD EPA ID:	CAT000646117
TSD County:	Kings
Waste Category:	Other inorganic solid waste
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	29.498
Facility County:	Los Angeles

Year:	2009
Gepaid:	CAD982412959
Contact:	NICK LOEBS
Telephone:	8183077310
Mailing Name:	Not reported
Mailing Address:	PO BOX 7922
Mailing City,St,Zip:	CANOGA PARK, CA 913097922
Gen County:	Los Angeles
TSD EPA ID:	CAD008302903
TSD County:	Los Angeles
Waste Category:	Asbestos containing waste
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.035
Facility County:	Los Angeles

Year:	2008
Gepaid:	CAD982412959
Contact:	JOHN SNYDER, MANAGER
Telephone:	8188878583
Mailing Name:	Not reported
Mailing Address:	8500 FALLBROOK AVE
Mailing City,St,Zip:	WEST HILLS, CA 913040000
Gen County:	Los Angeles
TSD EPA ID:	CAD008302903

ROCKWELL AID /C (Continued) **S101585911**

TSD County: Los Angeles
Waste Category: Other organic solids
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.055
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access
3 additional CA_HAZNET: record(s) in the EDR Site Report.

B12 **ROCKWELL AID** **RCRA-SQG** **1000273240**
North **8500 FALLBROOK AVE** **FINDS** **CAD982412959**
< 1/8 **CANOGA PARK, CA 91304**
0.018 mi.
95 ft. **Site 2 of 2 in cluster B**

Relative:
Higher

Actual:
853 ft.

RCRA-SQG:
Date form received by agency: 03/08/1989
Facility name: ROCKWELL AID
Facility address: 8500 FALLBROOK AVE
CANOGA PARK, CA 91304
EPA ID: CAD982412959
Mailing address: FALLBROOK AVE
CANOGA PARK, CA 91304
Contact: ENVIRONMENTAL MANAGER
Contact address: 8500 FALLBROOK AVE
CANOGA PARK, CA 91304
Contact country: US
Contact telephone: (818) 710-2145
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: ROCKWELL INTL
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported

ROCKWELL AID (Continued) **1000273240**

Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002807669

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

13
SSE
1/8-1/4
0.152 mi.
802 ft.

LAKEVIEW CLEANERS
22736 ROSCOE BLVD
CANOGA PARK, CA 91304

RCRA-SQG **1000224867**
FINDS **CAD981639297**
DRYCLEANERS
HAZNET

Relative:
Lower

Actual:
842 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: LAKEVIEW CLEANERS
Facility address: 22736 ROSCOE BLVD
CANOGA PARK, CA 91304
EPA ID: CAD981639297
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of

LAKEVIEW CLEANERS (Continued) **1000224867**

hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: CHOI SOO DONG
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 12/29/1986
Facility name: LAKEVIEW CLEANERS
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002734827

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA

LAKEVIEW CLEANERS (Continued) **1000224867**

program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

DRYCLEANERS:

EPA Id:	CAL000312588
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial
Create Date:	10/16/2006
Facility Active:	No
Inactive Date:	06/30/2008
Facility Addr2:	Not reported
Mailing Name:	Not reported
Mailing Address:	22736 ROSCOE BLVD
Mailing Address 2:	Not reported
Mailing State:	CA
Mailing Zip:	91304
Owner Name:	KYUNG HO OH
Owner Address:	22736 ROSCOE BLVD
Owner Address 2:	Not reported
Owner Telephone:	8183481013
Contact Name:	KYUNG UN HO
Contact Address:	22736 ROSCOE BLVD
Contact Address 2:	Not reported
Contact Telephone:	8183481013

EPA Id:	CAL000092099
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial
Create Date:	01/24/1995
Facility Active:	No
Inactive Date:	06/30/2004
Facility Addr2:	Not reported
Mailing Name:	Not reported
Mailing Address:	22736 ROSCOE BLVD
Mailing Address 2:	Not reported
Mailing State:	CA
Mailing Zip:	913040000
Owner Name:	LAKEVIEW CLEANERS
Owner Address:	22736 ROSCOE BL
Owner Address 2:	Not reported
Owner Telephone:	8183481013
Contact Name:	SUNG K KIM
Contact Address:	--
Contact Address 2:	Not reported
Contact Telephone:	8183481013

HAZNET:

Year:	2008
Gepaid:	CAL000312588
Contact:	KYUNG UN HO
Telephone:	8183481013

LAKEVIEW CLEANERS (Continued) **1000224867**

Mailing Name: Not reported
Mailing Address: 22736 ROSCOE BLVD
Mailing City,St,Zip: CANOGA PARK, CA 91304
Gen County: Los Angeles
TSD EPA ID: NVR000076158
TSD County: 99
Waste Category: Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method: Solvents Recovery
Tons: 0.325
Facility County: Los Angeles

Year: 2007
Gepaid: CAL000312588
Contact: KYUNG UN HO
Telephone: 8183481013
Mailing Name: Not reported
Mailing Address: 22736 ROSCOE BLVD
Mailing City,St,Zip: CANOGA PARK, CA 91304
Gen County: Los Angeles
TSD EPA ID: NVR000076158
TSD County: 99
Waste Category: Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method: Solvents Recovery
Tons: Not reported
Facility County: Los Angeles

Year: 2007
Gepaid: CAL000312588
Contact: KYUNG UN HO
Telephone: 8183481013
Mailing Name: Not reported
Mailing Address: 22736 ROSCOE BLVD
Mailing City,St,Zip: CANOGA PARK, CA 91304
Gen County: Los Angeles
TSD EPA ID: NVR000076158
TSD County: 99
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Solvents Recovery
Tons: Not reported
Facility County: Los Angeles

Year: 2007
Gepaid: CAL000312588
Contact: KYUNG UN HO
Telephone: 8183481013
Mailing Name: Not reported
Mailing Address: 22736 ROSCOE BLVD
Mailing City,St,Zip: CANOGA PARK, CA 91304
Gen County: Los Angeles
TSD EPA ID: NVR000076158
TSD County: 99
Waste Category: Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method: Solvents Recovery
Tons: 0.22
Facility County: Los Angeles

LAKEVIEW CLEANERS (Continued) **1000224867**

Year:	2005
Gepaid:	CAD981639297
Contact:	CANCELLED BY SUNG K KIM ON 1-
Telephone:	8183481013
Mailing Name:	Not reported
Mailing Address:	22736 ROSCOE BLVD
Mailing City,St,Zip:	CANOGA PARK, CA 913040000
Gen County:	Los Angeles
TSD EPA ID:	NVR000076158
TSD County:	99
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Recycler
Tons:	Not reported
Facility County:	Not reported

Click this hyperlink while viewing on your computer to access
9 additional CA_HAZNET: record(s) in the EDR Site Report.

C14 **LA FIRE STATION 106** **RCRA-SQG 1000229490**
WSW **23004 ROSCOE BLVD** **FINDS CAD981964208**
1/8-1/4 **CANOGA PARK, CA 91304** **HAZNET**
0.205 mi.
1082 ft. **Site 1 of 5 in cluster C**

Relative:
Lower

Actual:
839 ft.

RCRA-SQG:

Date form received by agency:	03/09/1987
Facility name:	LA FIRE STATION 106
Facility address:	23004 ROSCOE BLVD CANOGA PARK, CA 91304
EPA ID:	CAD981964208
Mailing address:	200 N MAIN RM EIGHTH HUNDRED C LOS ANGELES, CA 90012
Contact:	ENVIRONMENTAL MANAGER
Contact address:	23004 ROSCOE BLVD CANOGA PARK, CA 90012
Contact country:	US
Contact telephone:	(213) 485-7527
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	CITY OF LOS ANGELES
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Municipal
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

LA FIRE STATION 106 (Continued) **1000229490**

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Municipal
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110006474555

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:
Year: 2002
Gepaid: CAD981964208
Contact: SHARI KUROKI MGMT ANALYST
Telephone: 2134737748
Mailing Name: Not reported
Mailing Address: 419 S SPRING ST 12TH FLOOR
Mailing City,St,Zip: LOS ANGELES, CA 900130000
Gen County: Los Angeles
TSD EPA ID: Not reported

LA FIRE STATION 106 (Continued) **1000229490**

TSD County: Los Angeles
Waste Category: Asbestos containing waste
Disposal Method: Disposal, Land Fill
Tons: 2.10
Facility County: Not reported

Year: 1999
Gepaid: CAD981964208
Contact: DEPT OF GENERAL SERVICES
Telephone: 2134855846
Mailing Name: Not reported
Mailing Address: 111 E 1ST STREET RM 709
Mailing City,St,Zip: LOS ANGELES, CA 900120000
Gen County: Los Angeles
TSD EPA ID: CAD028409019
TSD County: Los Angeles
Waste Category: Tank bottom waste
Disposal Method: Treatment, Tank
Tons: 0.417
Facility County: Los Angeles

Year: 1998
Gepaid: CAD981964208
Contact: DEPT OF GENERAL SERVICES
Telephone: 2134855846
Mailing Name: Not reported
Mailing Address: 111 E 1ST STREET RM 709
Mailing City,St,Zip: LOS ANGELES, CA 900120000
Gen County: Los Angeles
TSD EPA ID: CAD009007626
TSD County: Los Angeles
Waste Category: Asbestos containing waste
Disposal Method: Disposal, Land Fill
Tons: .1685
Facility County: Los Angeles

Year: 1993
Gepaid: CAD981964208
Contact: DEPT OF GENERAL SERVICES
Telephone: 2134855846
Mailing Name: Not reported
Mailing Address: 111 E 1ST STREET RM 709
Mailing City,St,Zip: LOS ANGELES, CA 900120000
Gen County: Los Angeles
TSD EPA ID: CAT080011059
TSD County: Los Angeles
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Tons: .0625
Facility County: Los Angeles

Year: 1993
Gepaid: CAD981964208
Contact: DEPT OF GENERAL SERVICES
Telephone: 2134855846
Mailing Name: Not reported
Mailing Address: 111 E 1ST STREET RM 709

LA FIRE STATION 106 (Continued) **1000229490**

Mailing City,St,Zip: LOS ANGELES, CA 900120000
Gen County: Los Angeles
TSD EPA ID: CAD099452708
TSD County: Los Angeles
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Tons: .1251
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access additional CA_HAZNET: detail in the EDR Site Report.

C15 **FIRE STATION 106** **CA FID UST** **S101585525**
WSW **23004 ROSCOE BLVD** **SWEEPS UST** **N/A**
1/8-1/4 **CANOGA PARK, CA 91304**
0.205 mi.
1082 ft. **Site 2 of 5 in cluster C**

Relative:
Lower

Actual:
839 ft.

CA FID UST:
Facility ID: 19024479
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 2134855846
Mail To: Not reported
Mailing Address: 200 MAIN ST
Mailing Address 2: Not reported
Mailing City,St,Zip: CANOGA PARK 913040000
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

SWEEPS UST:
Status: A
Comp Number: 6188
Number: 4
Board Of Equalization: Not reported
Ref Date: 02-25-93
Act Date: 04-05-94
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 6188-1
Swrcb Tank Id: 19-050-006188-000001
Actv Date: 07-29-93
Capacity: 10000
Tank Use: M.V. FUEL
Stg: P
Content: DIESEL
Number Of Tanks: 1

C16 **CITY OF LA GENERAL SERVICES** **LUST** **S108744742**
WSW **23004 ROSCOE BLVD** **HAZNET** **N/A**
1/8-1/4 **CANOGA PARK, CA 91304**
0.205 mi.
1082 ft. **Site 3 of 5 in cluster C**

Relative:
Lower

Actual:
839 ft.

LUST:

Region:	STATE
Global Id:	T0603793051
Latitude:	34.219163
Longitude:	-118.62804
Case Type:	LUST Cleanup Site
Status:	Open - Site Assessment
Status Date:	07/11/2002
Lead Agency:	LOS ANGELES, CITY OF
Case Worker:	NR
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	913040670
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Aviation
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0603793051
Contact Type:	Local Agency Caseworker
Contact Name:	ELOY LUNA
Organization Name:	LOS ANGELES, CITY OF
Address:	200 North Main Street, Suite 1780
City:	LOS ANGELES
Email:	eloy.luna@lacity.org
Phone Number:	Not reported

Global Id:	T0603793051
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0603793051
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported

Global Id:	T0603793051
Action Type:	Other
Date:	01/01/1950
Action:	Leak Discovery

HAZNET:

Year:	2006

CITY OF LA GENERAL SERVICES (Continued) **S108744742**

Gepaid:	CAD981964208
Contact:	LEE MOORE, MGMT ANALYST II
Telephone:	2139783798
Mailing Name:	Not reported
Mailing Address:	111 E 1ST ST ROOM 600
Mailing City,St,Zip:	LOS ANGELES, CA 900120000
Gen County:	Los Angeles
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Waste Category:	Tank bottom waste
Disposal Method:	Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Tons:	0.01
Facility County:	Los Angeles

C17 **LA CITY FIRE STATION #106** **LUST** **S104773279**
WSW **23004 ROSCOE BLVD** **N/A**
1/8-1/4 **CANOGA PARK, CA 91304**
0.205 mi.
1082 ft. **Site 4 of 5 in cluster C**

Relative:
Lower

Actual:
839 ft.

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	913040670	
Status:	Leak being confirmed	
Substance:	1	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603793051	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19050	
Cross Street:	Not reported	
Enforcement Type:	Not reported	
Date Leak Discovered:	8/16/1999	
Date Leak First Reported:		10/7/1999
Date Leak Record Entered:	Not reported	
Date Confirmation Began:	10/7/1999	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		10/7/1999
Date the Case was Closed:		Not reported
How Leak Discovered:	Repair Tank	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	CITY OF LA FIRE DEPT.	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		15634.935088091666429858451742
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported

LA CITY FIRE STATION #106 (Continued) **S104773279**

Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Enforcement Action Date:	Not reported
Historical Max MTBE Date:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil:	Not reported
Significant Interim Remedial Action Taken:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	CTIY OF LOS ANGELES
RP Address:	419 S. SPRING ST., 12TH FL., LOS ANGELES CA 90013
Program:	LUST
Lat/Long:	34.219163 / -1
Local Agency Staff:	PEJ
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	Not reported

C18 **FIRE STATION 106** **HIST UST** **U001567133**
WSW **2004 ROSCOE BLVD.** **N/A**
1/8-1/4 **CANOGA PARK, CA 91304**
0.206 mi.
1086 ft. **Site 5 of 5 in cluster C**

Relative:
Lower

Actual:
839 ft.

HIST UST:

Region:	STATE
Facility ID:	00000047402
Facility Type:	Other
Other Type:	FIRE STATION
Total Tanks:	0001
Contact Name:	Not reported
Telephone:	8189898606
Owner Name:	CITY OF LOS ANGELES
Owner Address:	200 N. MAIN ST
Owner City,St,Zip:	LOS ANGELES, CA 90012
Tank Num:	001
Container Num:	FS106-1
Year Installed:	Not reported
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Tank Construction:	Not reported
Leak Detection:	Stock Inventor

19
NNE
1/8-1/4
0.215 mi.
1136 ft.

K CHERIE MURRAY DBA M & J TRUCKING
8551 FAUST AVE
WEST HILLS, CA 91304

RCRA-NonGen **1004677040**
FINDS **CAR000092544**

Relative:
Higher

Actual:
855 ft.

RCRA-NonGen:

Date form received by agency:	03/01/2001
Facility name:	K CHERIE MURRAY DBA M & J TRUCKING
Facility address:	8551 FAUST AVE WEST HILLS, CA 913042235
EPA ID:	CAR000092544
Contact:	KIMBERLY MURRAY
Contact address:	8551 FAUST AVE WEST HILLS, CA 913042235
Contact country:	US
Contact telephone:	(818) 999-2205
Contact email:	Not reported
EPA Region:	09
Land type:	Private
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	KIMBERLY CHERIE MURRAY
Owner/operator address:	8551 FAUST AVE WEST HILLS, CA 91304
Owner/operator country:	Not reported
Owner/operator telephone:	(818) 999-2205
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	Yes
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Facility Has Received Notices of Violations:

Regulation violated:	Not reported
Area of violation:	Generators - General
Date violation determined:	04/14/2005
Date achieved compliance:	02/16/2006
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL

K CHERIE MURRAY DBA M & J TRUCKING (Continued) **1004677040**

Enforcement action date: 04/14/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 04/14/2005
Date achieved compliance: 02/16/2006
Violation lead agency: State
Enforcement action: SINGLE SITE CA/FO
Enforcement action date: 02/16/2006
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 10000
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 04/14/2005
Date achieved compliance: 02/16/2006
Violation lead agency: State
Enforcement action: LETTER OF INTENT TO INITIATE ENFORCEMENT ACTION
Enforcement action date: 10/21/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 04/14/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 02/16/2006
Evaluation lead agency: State

FINDS:

Registry ID: 110012209662

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Count: 8 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CANOGA PARK	2003708870	21041 TARTHENIA AVENUE	21041 TARTHENIA AVENUE		ERNS
CHATSWORTH	1009908227	AMBITECH, INC.	8944 FULLBRIGHT AVE	91311	CERCLIS, PRP
LOS ANGELES COUNTY	2011977704	DISTRIBUTION FACILITY 800 PIER T A	DISTRIBUTION FACILITY 800 PIER		ERNS
LOS ANGELES COUNTY	2011981313	161 NORTH ISLAND AVENUE	161 NORTH ISLAND AVENUE		ERNS
LOS ANGELES COUNTY	2011979849	5445 LINDLEY AVENUE	5445 LINDLEY AVENUE		ERNS
LOS ANGELES COUNTY	2011972999	601 SOUTH VAIL AVENUE	601 SOUTH VAIL AVENUE		ERNS
WEST HILLS	S111857608	FALLBROOK DENTAL GROUP	6739TH & 4 FALLBROOK AVE	91307	HAZNET
WEST HILLS	1001815639	THE BOEING CO WEST HILLS	8521 AND 8531 FALLBROOK AVE	91307	RCRA-SQG, HAZNET

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 06/07/2012
Date Data Arrived at EDR: 07/05/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 75

Source: EPA
Telephone: N/A
Last EDR Contact: 10/11/2012
Next Scheduled EDR Contact: 01/21/2013
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 06/07/2012
Date Data Arrived at EDR: 07/05/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 75

Source: EPA
Telephone: N/A
Last EDR Contact: 10/11/2012
Next Scheduled EDR Contact: 01/21/2013
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 06/07/2012
Date Data Arrived at EDR: 07/05/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 75

Source: EPA
Telephone: N/A
Last EDR Contact: 10/11/2012
Next Scheduled EDR Contact: 01/21/2013
Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 12/27/2011
Date Data Arrived at EDR: 02/27/2012
Date Made Active in Reports: 03/12/2012
Number of Days to Update: 14

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 11/28/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 12/10/2010
Date Data Arrived at EDR: 01/11/2011
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 10/09/2012
Next Scheduled EDR Contact: 01/21/2013
Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 12/28/2011
Date Data Arrived at EDR: 02/27/2012
Date Made Active in Reports: 03/12/2012
Number of Days to Update: 14

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 11/28/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 08/19/2011
Date Data Arrived at EDR: 08/31/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 132

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 11/12/2012
Next Scheduled EDR Contact: 02/25/2013
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/15/2012
Date Data Arrived at EDR: 04/04/2012
Date Made Active in Reports: 05/15/2012
Number of Days to Update: 41

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 11/29/2012
Next Scheduled EDR Contact: 01/14/2013
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/15/2012
Date Data Arrived at EDR: 04/04/2012
Date Made Active in Reports: 05/15/2012
Number of Days to Update: 41

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 11/29/2012
Next Scheduled EDR Contact: 01/14/2013
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/15/2012
Date Data Arrived at EDR: 04/04/2012
Date Made Active in Reports: 05/15/2012
Number of Days to Update: 41

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 11/29/2012
Next Scheduled EDR Contact: 01/14/2013
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/15/2012
Date Data Arrived at EDR: 04/04/2012
Date Made Active in Reports: 05/15/2012
Number of Days to Update: 41

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 11/29/2012
Next Scheduled EDR Contact: 01/14/2013
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 07/18/2012
Date Data Arrived at EDR: 07/24/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 104

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/05/2012
Next Scheduled EDR Contact: 12/24/2012
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 07/18/2012
Date Data Arrived at EDR: 07/24/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 104

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/05/2012
Next Scheduled EDR Contact: 12/24/2012
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/15/2012
Next Scheduled EDR Contact: 03/04/2013
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 04/02/2012
Date Data Arrived at EDR: 04/03/2012
Date Made Active in Reports: 06/14/2012
Number of Days to Update: 72

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 10/02/2012
Next Scheduled EDR Contact: 01/14/2013
Data Release Frequency: Annually

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 11/05/2012
Date Data Arrived at EDR: 11/06/2012
Date Made Active in Reports: 11/30/2012
Number of Days to Update: 24

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/06/2012
Next Scheduled EDR Contact: 02/18/2013
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 11/05/2012
Date Data Arrived at EDR: 11/06/2012
Date Made Active in Reports: 11/30/2012
Number of Days to Update: 24

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/06/2012
Next Scheduled EDR Contact: 02/18/2013
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 08/20/2012
Date Data Arrived at EDR: 08/20/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 44

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 11/19/2012
Next Scheduled EDR Contact: 03/04/2013
Data Release Frequency: Quarterly

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 11/26/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 10/17/2012
Date Data Arrived at EDR: 10/18/2012
Date Made Active in Reports: 11/07/2012
Number of Days to Update: 20

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 10/18/2012
Next Scheduled EDR Contact: 12/31/2012
Data Release Frequency: Quarterly

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC: Statewide SLIC Cases

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 10/17/2012
Date Data Arrived at EDR: 10/18/2012
Date Made Active in Reports: 11/07/2012
Number of Days to Update: 20

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 10/18/2012
Next Scheduled EDR Contact: 12/31/2012
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011
Date Data Arrived at EDR: 09/13/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 59

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 12/14/2011
Date Data Arrived at EDR: 12/15/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 26

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/12/2012
Date Data Arrived at EDR: 05/09/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 62

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 11/01/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 08/17/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 08/01/2012
Date Data Arrived at EDR: 08/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 75
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/30/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 09/06/2012
Date Data Arrived at EDR: 09/07/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 39
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Quarterly

State and tribal registered storage tank lists

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 10/17/2012
Date Data Arrived at EDR: 10/18/2012
Date Made Active in Reports: 11/07/2012
Number of Days to Update: 20
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 10/18/2012
Next Scheduled EDR Contact: 12/31/2012
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
Registered Aboveground Storage Tanks.

Date of Government Version: 08/01/2009
Date Data Arrived at EDR: 09/10/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 21
Source: State Water Resources Control Board
Telephone: 916-327-5092
Last EDR Contact: 10/22/2012
Next Scheduled EDR Contact: 01/21/2013
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/12/2012
Date Data Arrived at EDR: 05/02/2012
Date Made Active in Reports: 07/16/2012
Number of Days to Update: 75
Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 11/01/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 12/14/2011
Date Data Arrived at EDR: 12/15/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 26
Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 08/02/2012
Date Data Arrived at EDR: 08/03/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 94

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 08/17/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 08/01/2012
Date Data Arrived at EDR: 08/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 75

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 09/06/2012
Date Data Arrived at EDR: 09/07/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 39

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 10/15/2012
Next Scheduled EDR Contact: 01/28/2013
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/28/2012
Date Data Arrived at EDR: 10/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 14
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 10/02/2012
Next Scheduled EDR Contact: 01/14/2013
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27
Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 11/05/2012
Date Data Arrived at EDR: 11/06/2012
Date Made Active in Reports: 11/30/2012
Number of Days to Update: 24
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/06/2012
Next Scheduled EDR Contact: 02/18/2013
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 10/24/2012
Date Data Arrived at EDR: 10/26/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 10
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/24/2012
Next Scheduled EDR Contact: 01/07/2013
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39
Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137
Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/03/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: No Update Planned

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30
Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 11/12/2012
Next Scheduled EDR Contact: 02/25/2013
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 09/17/2012
Date Data Arrived at EDR: 09/19/2012
Date Made Active in Reports: 10/12/2012
Number of Days to Update: 23
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/19/2012
Next Scheduled EDR Contact: 12/31/2012
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 07/09/2012
Date Data Arrived at EDR: 07/12/2012
Date Made Active in Reports: 09/06/2012
Number of Days to Update: 56
Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 11/15/2012
Next Scheduled EDR Contact: 03/04/2013
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52
Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 11/05/2012
Next Scheduled EDR Contact: 02/18/2013
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 07/11/2012
Date Data Arrived at EDR: 09/12/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 54
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 09/05/2012
Next Scheduled EDR Contact: 12/17/2012
Data Release Frequency: Quarterly

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21
Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 11/05/2012
Date Data Arrived at EDR: 11/06/2012
Date Made Active in Reports: 11/30/2012
Number of Days to Update: 24
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/06/2012
Next Scheduled EDR Contact: 02/18/2013
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27
Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 06/30/2012
Date Data Arrived at EDR: 09/12/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 21
Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 10/01/2012
Next Scheduled EDR Contact: 01/14/2013
Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Lists of Registered Storage Tanks

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/23/2009
Date Data Arrived at EDR: 09/23/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 12/03/2012
Next Scheduled EDR Contact: 03/18/2013
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/16/2012
Date Data Arrived at EDR: 03/26/2012
Date Made Active in Reports: 06/14/2012
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 11/01/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Varies

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 09/18/2012
Date Data Arrived at EDR: 09/19/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 14

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 09/05/2012
Next Scheduled EDR Contact: 12/24/2012
Data Release Frequency: Varies

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 09/10/2012
Date Data Arrived at EDR: 09/11/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 22

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 09/11/2012
Next Scheduled EDR Contact: 12/24/2012
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 04/01/2012
Date Data Arrived at EDR: 04/03/2012
Date Made Active in Reports: 06/14/2012
Number of Days to Update: 72

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 10/02/2012
Next Scheduled EDR Contact: 01/14/2013
Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 03/28/2012
Date Data Arrived at EDR: 05/01/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 24

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 11/02/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 10/17/2012
Date Data Arrived at EDR: 10/18/2012
Date Made Active in Reports: 11/07/2012
Number of Days to Update: 20

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 10/18/2012
Next Scheduled EDR Contact: 12/31/2012
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 10/17/2012
Date Data Arrived at EDR: 10/18/2012
Date Made Active in Reports: 11/07/2012
Number of Days to Update: 20

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 10/18/2012
Next Scheduled EDR Contact: 12/31/2012
Data Release Frequency: Quarterly

Other Ascertainable Records

RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/15/2012
Date Data Arrived at EDR: 04/04/2012
Date Made Active in Reports: 05/15/2012
Number of Days to Update: 41

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 11/29/2012
Next Scheduled EDR Contact: 01/14/2013
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 11/06/2012
Next Scheduled EDR Contact: 02/18/2013
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 10/18/2012
Next Scheduled EDR Contact: 01/28/2013
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 08/12/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 112

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 09/10/2012
Next Scheduled EDR Contact: 12/24/2012
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/01/2012
Date Data Arrived at EDR: 07/24/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 56

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 10/01/2012
Next Scheduled EDR Contact: 01/14/2013
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 02/27/2012
Date Data Arrived at EDR: 03/14/2012
Date Made Active in Reports: 06/14/2012
Number of Days to Update: 92

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/12/2012
Next Scheduled EDR Contact: 12/24/2012
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/28/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Varies

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/18/2011
Date Data Arrived at EDR: 09/08/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 21

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 09/04/2012
Next Scheduled EDR Contact: 12/17/2012
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 09/01/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 131

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/28/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/29/2012
Next Scheduled EDR Contact: 01/07/2013
Data Release Frequency: Every 4 Years

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 11/26/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 11/26/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems
Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77
Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 11/01/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011
Date Data Arrived at EDR: 11/10/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 10/19/2012
Next Scheduled EDR Contact: 01/28/2013
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010
Date Data Arrived at EDR: 11/10/2010
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 98

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/19/2012
Next Scheduled EDR Contact: 01/28/2013
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/21/2011
Date Data Arrived at EDR: 07/15/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 60

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 09/05/2012
Next Scheduled EDR Contact: 12/24/2012
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/02/2012
Date Data Arrived at EDR: 10/02/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 10/02/2012
Next Scheduled EDR Contact: 01/21/2013
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 10/23/2011
Date Data Arrived at EDR: 12/13/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 79

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 09/11/2012
Next Scheduled EDR Contact: 12/24/2012
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 03/01/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 62

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 11/30/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Biennially

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UIC: UIC Listing

A listing of underground control injection wells.

Date of Government Version: 08/14/2012
Date Data Arrived at EDR: 09/19/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 14

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 09/19/2012
Next Scheduled EDR Contact: 12/31/2012
Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 08/20/2012
Date Data Arrived at EDR: 08/20/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 44

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/19/2012
Next Scheduled EDR Contact: 03/04/2013
Data Release Frequency: Quarterly

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 10/01/2012
Date Data Arrived at EDR: 10/02/2012
Date Made Active in Reports: 10/23/2012
Number of Days to Update: 21

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 10/02/2012
Next Scheduled EDR Contact: 01/14/2013
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 10/21/1993
Date Data Arrived at EDR: 11/01/1993
Date Made Active in Reports: 11/19/1993
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 09/24/2012
Next Scheduled EDR Contact: 01/07/2013
Data Release Frequency: No Update Planned

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 01/19/2012
Date Data Arrived at EDR: 01/19/2012
Date Made Active in Reports: 02/21/2012
Number of Days to Update: 33

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 10/11/2012
Next Scheduled EDR Contact: 12/24/2012
Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 10/01/2012
Next Scheduled EDR Contact: 01/14/2013
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 08/15/2011
Date Data Arrived at EDR: 08/23/2011
Date Made Active in Reports: 10/03/2011
Number of Days to Update: 41

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/15/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 06/22/2012
Date Made Active in Reports: 07/06/2012
Number of Days to Update: 14

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 10/15/2012
Next Scheduled EDR Contact: 01/28/2013
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 10/18/2010
Number of Days to Update: 19
Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 09/28/2012
Next Scheduled EDR Contact: 01/07/2013
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations
This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34
Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/18/2012
Next Scheduled EDR Contact: 01/28/2013
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing
The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54
Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 10/22/2012
Next Scheduled EDR Contact: 02/04/2013
Data Release Frequency: Varies

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 10/01/2012
Date Data Arrived at EDR: 10/04/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 32
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 10/04/2012
Next Scheduled EDR Contact: 01/14/2013
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST
EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/13/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 36
Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 11/12/2012
Next Scheduled EDR Contact: 02/25/2013
Data Release Frequency: Quarterly

US FIN ASSUR: Financial Assurance Information
All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 08/20/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 69

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 11/16/2012
Next Scheduled EDR Contact: 03/04/2013
Data Release Frequency: Quarterly

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 11/02/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Varies

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 09/17/2012
Date Data Arrived at EDR: 09/19/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 14

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/19/2012
Next Scheduled EDR Contact: 12/31/2012
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 09/06/2012
Date Data Arrived at EDR: 09/12/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 21

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 09/10/2012
Next Scheduled EDR Contact: 12/24/2012
Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 10/16/2012
Next Scheduled EDR Contact: 01/28/2013
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands
Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/18/2012
Next Scheduled EDR Contact: 01/28/2013
Data Release Frequency: N/A

2020 COR ACTION: 2020 Corrective Action Program List
The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011
Date Data Arrived at EDR: 05/18/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/16/2012
Next Scheduled EDR Contact: 11/26/2012
Data Release Frequency: Varies

FINANCIAL ASSURANCE 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 03/01/2007
Date Data Arrived at EDR: 06/01/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 28

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 11/02/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Varies

FINANCIAL ASSURANCE 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 08/14/2012
Date Data Arrived at EDR: 08/20/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 44

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 11/16/2012
Next Scheduled EDR Contact: 03/04/2013
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 09/14/2012
Next Scheduled EDR Contact: 12/24/2012
Data Release Frequency: Varies

HWT: Registered Hazardous Waste Transporter Database
A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 10/15/2012
Date Data Arrived at EDR: 10/16/2012
Date Made Active in Reports: 11/07/2012
Number of Days to Update: 22

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 10/16/2012
Next Scheduled EDR Contact: 01/28/2013
Data Release Frequency: Quarterly

HWP: EnviroStor Permitted Facilities Listing
Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/28/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/28/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Quarterly

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 10/09/2012
Date Data Arrived at EDR: 10/12/2012
Date Made Active in Reports: 11/07/2012
Number of Days to Update: 26

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 06/27/2012
Next Scheduled EDR Contact: 10/15/2012
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 10/09/2012
Date Data Arrived at EDR: 10/12/2012
Date Made Active in Reports: 10/24/2012
Number of Days to Update: 12

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 06/27/2012
Next Scheduled EDR Contact: 10/15/2012
Data Release Frequency: Semi-Annually

BUTTE COUNTY:

CUPA Facility Listing
Cupa facility list.

Date of Government Version: 10/16/2012
Date Data Arrived at EDR: 10/17/2012
Date Made Active in Reports: 11/13/2012
Number of Days to Update: 27

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 10/15/2012
Next Scheduled EDR Contact: 01/28/2013
Data Release Frequency: Varies

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 08/16/2012
Date Data Arrived at EDR: 08/22/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 42

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 11/26/2012
Next Scheduled EDR Contact: 02/25/2013
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 10/10/2012
Date Data Arrived at EDR: 10/11/2012
Date Made Active in Reports: 11/07/2012
Number of Days to Update: 27

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 11/05/2012
Next Scheduled EDR Contact: 02/18/2013
Data Release Frequency: Semi-Annually

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 08/20/2012
Date Data Arrived at EDR: 08/22/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 42

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 11/05/2012
Next Scheduled EDR Contact: 02/18/2013
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 09/30/2012
Date Data Arrived at EDR: 10/05/2012
Date Made Active in Reports: 10/23/2012
Number of Days to Update: 18

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 10/28/2012
Next Scheduled EDR Contact: 01/28/2013
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 09/10/2012
Date Data Arrived at EDR: 09/11/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 22

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 11/26/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 05/01/2012
Date Data Arrived at EDR: 05/02/2012
Date Made Active in Reports: 06/11/2012
Number of Days to Update: 40

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 10/04/2012
Next Scheduled EDR Contact: 11/12/2012
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 06/26/2012
Date Data Arrived at EDR: 06/27/2012
Date Made Active in Reports: 08/17/2012
Number of Days to Update: 51

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 11/26/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 08/31/2010
Date Data Arrived at EDR: 09/01/2010
Date Made Active in Reports: 09/30/2010
Number of Days to Update: 29

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 11/12/2012
Next Scheduled EDR Contact: 02/25/2013
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA Facility List
A listing of sites included in the county?s Certified Unified Program Agency database. California?s Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 07/10/2012
Date Data Arrived at EDR: 07/12/2012
Date Made Active in Reports: 09/06/2012
Number of Days to Update: 56

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 11/26/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 09/24/2012
Next Scheduled EDR Contact: 01/07/2013
Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 06/28/2012
Date Data Arrived at EDR: 09/25/2012
Date Made Active in Reports: 10/23/2012
Number of Days to Update: 28

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 07/16/2012
Next Scheduled EDR Contact: 10/26/2012
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/22/2012
Date Data Arrived at EDR: 10/23/2012
Date Made Active in Reports: 11/30/2012
Number of Days to Update: 38

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 10/23/2012
Next Scheduled EDR Contact: 02/04/2013
Data Release Frequency: Varies

City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/05/2009
Date Data Arrived at EDR: 03/10/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 29

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 11/16/2012
Next Scheduled EDR Contact: 03/04/2013
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 12/29/2011
Date Data Arrived at EDR: 02/02/2012
Date Made Active in Reports: 02/21/2012
Number of Days to Update: 19

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 10/22/2012
Next Scheduled EDR Contact: 02/04/2013
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 10/23/2012
Date Data Arrived at EDR: 10/25/2012
Date Made Active in Reports: 11/30/2012
Number of Days to Update: 36

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 10/22/2012
Next Scheduled EDR Contact: 02/04/2013
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/28/2003
Date Data Arrived at EDR: 10/23/2003
Date Made Active in Reports: 11/26/2003
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 11/01/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 10/15/2012
Date Data Arrived at EDR: 10/19/2012
Date Made Active in Reports: 11/07/2012
Number of Days to Update: 19

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 10/15/2012
Next Scheduled EDR Contact: 01/28/2013
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List
A listing of sites included in the county?s Certified Unified Program Agency database. California?s Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 09/17/2012
Date Data Arrived at EDR: 09/18/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 15

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 11/26/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 07/24/2012
Date Data Arrived at EDR: 07/31/2012
Date Made Active in Reports: 09/14/2012
Number of Days to Update: 45

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 11/09/2012
Next Scheduled EDR Contact: 01/21/2013
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 09/18/2012
Date Data Arrived at EDR: 09/19/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 14

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 11/26/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 09/18/2012
Date Data Arrived at EDR: 09/18/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 15

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 11/26/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011
Date Data Arrived at EDR: 12/06/2011
Date Made Active in Reports: 02/07/2012
Number of Days to Update: 63
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 12/03/2012
Next Scheduled EDR Contact: 03/18/2013
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008
Date Data Arrived at EDR: 01/16/2008
Date Made Active in Reports: 02/08/2008
Number of Days to Update: 23
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 12/05/2012
Next Scheduled EDR Contact: 03/18/2013
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 11/05/2012
Date Data Arrived at EDR: 11/06/2012
Date Made Active in Reports: 11/30/2012
Number of Days to Update: 24
Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 11/05/2012
Next Scheduled EDR Contact: 02/18/2013
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 11/05/2012
Date Data Arrived at EDR: 11/16/2012
Date Made Active in Reports: 12/03/2012
Number of Days to Update: 17
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/12/2012
Next Scheduled EDR Contact: 02/25/2013
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 11/05/2012
Date Data Arrived at EDR: 11/16/2012
Date Made Active in Reports: 12/03/2012
Number of Days to Update: 17
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/05/2012
Next Scheduled EDR Contact: 02/25/2013
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 11/05/2012
Date Data Arrived at EDR: 11/15/2012
Date Made Active in Reports: 12/03/2012
Number of Days to Update: 18
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/12/2012
Next Scheduled EDR Contact: 02/25/2013
Data Release Frequency: Quarterly

PLACER COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/05/2012
Date Data Arrived at EDR: 09/11/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 22

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 09/05/2012
Next Scheduled EDR Contact: 12/24/2012
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 10/16/2012
Date Data Arrived at EDR: 10/18/2012
Date Made Active in Reports: 11/07/2012
Number of Days to Update: 20

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/24/2012
Next Scheduled EDR Contact: 01/07/2013
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 10/16/2012
Date Data Arrived at EDR: 10/18/2012
Date Made Active in Reports: 11/07/2012
Number of Days to Update: 20

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/24/2012
Next Scheduled EDR Contact: 01/07/2013
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 08/01/2012
Date Data Arrived at EDR: 10/11/2012
Date Made Active in Reports: 11/02/2012
Number of Days to Update: 22

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/09/2012
Next Scheduled EDR Contact: 01/21/2013
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/08/2012
Date Data Arrived at EDR: 10/11/2012
Date Made Active in Reports: 11/13/2012
Number of Days to Update: 33

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/09/2012
Next Scheduled EDR Contact: 01/21/2013
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 08/29/2012
Date Data Arrived at EDR: 08/30/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 34

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 11/12/2012
Next Scheduled EDR Contact: 02/25/2013
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 08/17/2012
Date Data Arrived at EDR: 08/20/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 44

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 09/05/2012
Next Scheduled EDR Contact: 12/24/2012
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2012
Date Data Arrived at EDR: 11/06/2012
Date Made Active in Reports: 11/30/2012
Number of Days to Update: 24

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Varies

Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 09/05/2012
Next Scheduled EDR Contact: 12/24/2012
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 11/12/2012
Next Scheduled EDR Contact: 02/25/2013
Data Release Frequency: Quarterly

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/10/2011
Date Made Active in Reports: 03/15/2011
Number of Days to Update: 5

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 11/12/2012
Next Scheduled EDR Contact: 02/25/2013
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 09/24/2012
Date Data Arrived at EDR: 09/25/2012
Date Made Active in Reports: 10/23/2012
Number of Days to Update: 28

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 09/24/2012
Next Scheduled EDR Contact: 01/07/2013
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 09/24/2012
Date Data Arrived at EDR: 09/25/2012
Date Made Active in Reports: 11/02/2012
Number of Days to Update: 38

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 11/26/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 10/17/2012
Date Data Arrived at EDR: 10/19/2012
Date Made Active in Reports: 11/13/2012
Number of Days to Update: 25

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/18/2012
Next Scheduled EDR Contact: 12/31/2012
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 09/13/2012
Date Data Arrived at EDR: 09/18/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 15

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/13/2012
Next Scheduled EDR Contact: 12/31/2012
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 11/26/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Varies

SANTA CLARA COUNTY:

HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 09/04/2012
Date Data Arrived at EDR: 09/06/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 27

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 09/04/2012
Next Scheduled EDR Contact: 12/17/2012
Data Release Frequency: Annually

Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/13/2012
Date Data Arrived at EDR: 11/14/2012
Date Made Active in Reports: 12/03/2012
Number of Days to Update: 19

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 11/12/2012
Next Scheduled EDR Contact: 02/25/2013
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List

CUPA facility listing.

Date of Government Version: 08/23/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 36

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 11/26/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List

Cupa Facility List.

Date of Government Version: 08/22/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 36

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 11/26/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 09/14/2012
Date Data Arrived at EDR: 10/05/2012
Date Made Active in Reports: 10/23/2012
Number of Days to Update: 18

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 09/13/2012
Next Scheduled EDR Contact: 12/31/2012
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 09/14/2012
Date Data Arrived at EDR: 10/09/2012
Date Made Active in Reports: 10/23/2012
Number of Days to Update: 14

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 09/13/2012
Next Scheduled EDR Contact: 12/31/2012
Data Release Frequency: Quarterly

SONOMA COUNTY:

Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 10/02/2012
Date Data Arrived at EDR: 10/03/2012
Date Made Active in Reports: 10/23/2012
Number of Days to Update: 20

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 10/01/2012
Next Scheduled EDR Contact: 01/14/2013
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 09/06/2012
Date Data Arrived at EDR: 09/11/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 22

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 09/05/2012
Next Scheduled EDR Contact: 12/24/2012
Data Release Frequency: Semi-Annually

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 03/30/2012
Date Data Arrived at EDR: 05/25/2012
Date Made Active in Reports: 07/06/2012
Number of Days to Update: 42

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 11/21/2012
Next Scheduled EDR Contact: 03/04/2013
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 10/04/2012
Next Scheduled EDR Contact: 01/21/2013
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 11/15/2012
Next Scheduled EDR Contact: 03/04/2013
Data Release Frequency: Quarterly

Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 10/29/2012
Date Data Arrived at EDR: 11/06/2012
Date Made Active in Reports: 12/03/2012
Number of Days to Update: 27
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 11/01/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Quarterly

Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 09/20/2012
Date Made Active in Reports: 10/23/2012
Number of Days to Update: 33
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/18/2012
Next Scheduled EDR Contact: 12/31/2012
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 10/02/2012
Date Data Arrived at EDR: 10/04/2012
Date Made Active in Reports: 10/23/2012
Number of Days to Update: 19
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 09/24/2012
Next Scheduled EDR Contact: 01/07/2013
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 08/16/2012
Date Data Arrived at EDR: 08/16/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 48
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 11/05/2012
Next Scheduled EDR Contact: 02/18/2013
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 08/20/2012
Date Data Arrived at EDR: 08/20/2012
Date Made Active in Reports: 09/20/2012
Number of Days to Update: 31
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/19/2012
Next Scheduled EDR Contact: 03/04/2013
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/16/2012
Next Scheduled EDR Contact: 01/28/2013
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2012
Date Data Arrived at EDR: 08/09/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 55

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 11/07/2012
Next Scheduled EDR Contact: 02/18/2013
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/23/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 57

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/22/2012
Next Scheduled EDR Contact: 02/04/2013
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 06/22/2012
Date Made Active in Reports: 07/31/2012
Number of Days to Update: 39

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/26/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 09/27/2012
Number of Days to Update: 70

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/18/2012
Next Scheduled EDR Contact: 12/31/2012
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

8401 FALLBROOK AVENUE
8401 FALLBROOK AVENUE
CANOGA PARK, CA 91304

TARGET PROPERTY COORDINATES

Latitude (North):	34.2216 - 34° 13' 17.76''
Longitude (West):	118.6235 - 118° 37' 24.60''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	350452.9
UTM Y (Meters):	3787723.5
Elevation:	848 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	34118-B5 CANOGA PARK, CA
Most Recent Revision:	1967
West Map:	34118-B6 CALABASAS, CA
Most Recent Revision:	1967

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

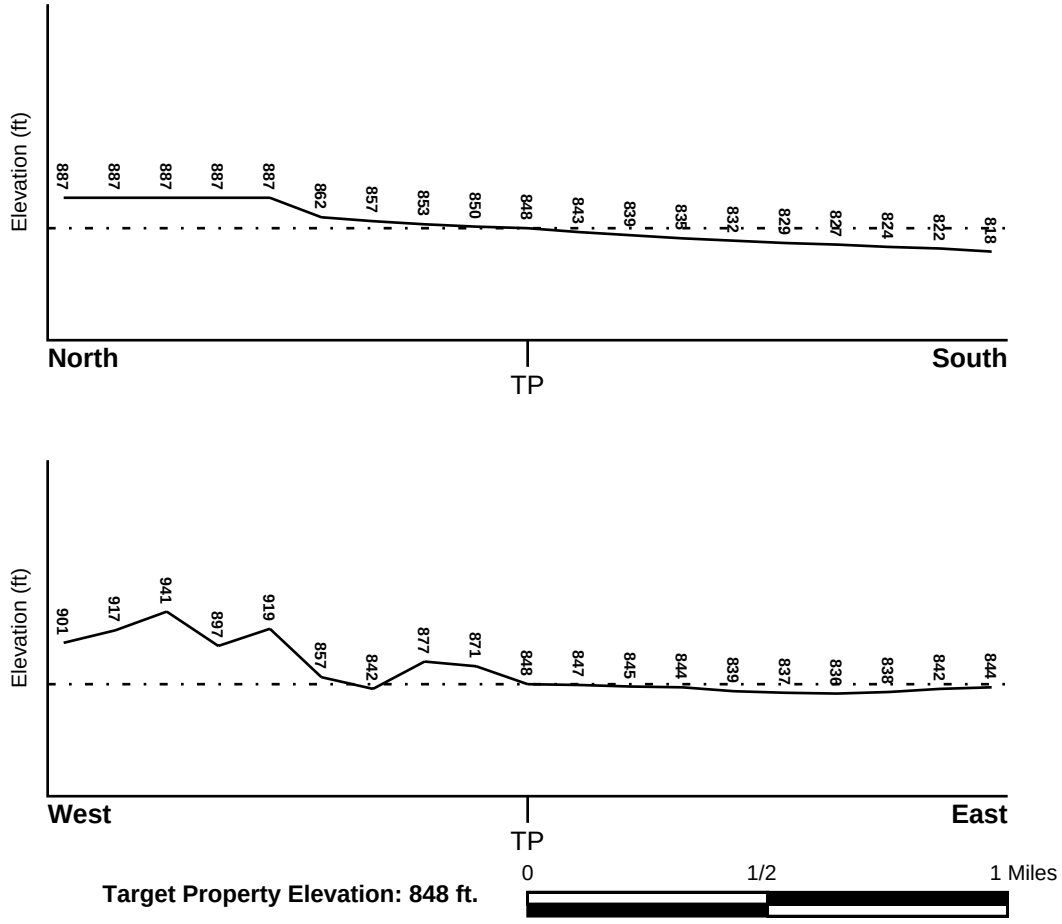
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
LOS ANGELES, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 06037C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
CANOGA PARK	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius: 1.25 miles
Status: Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

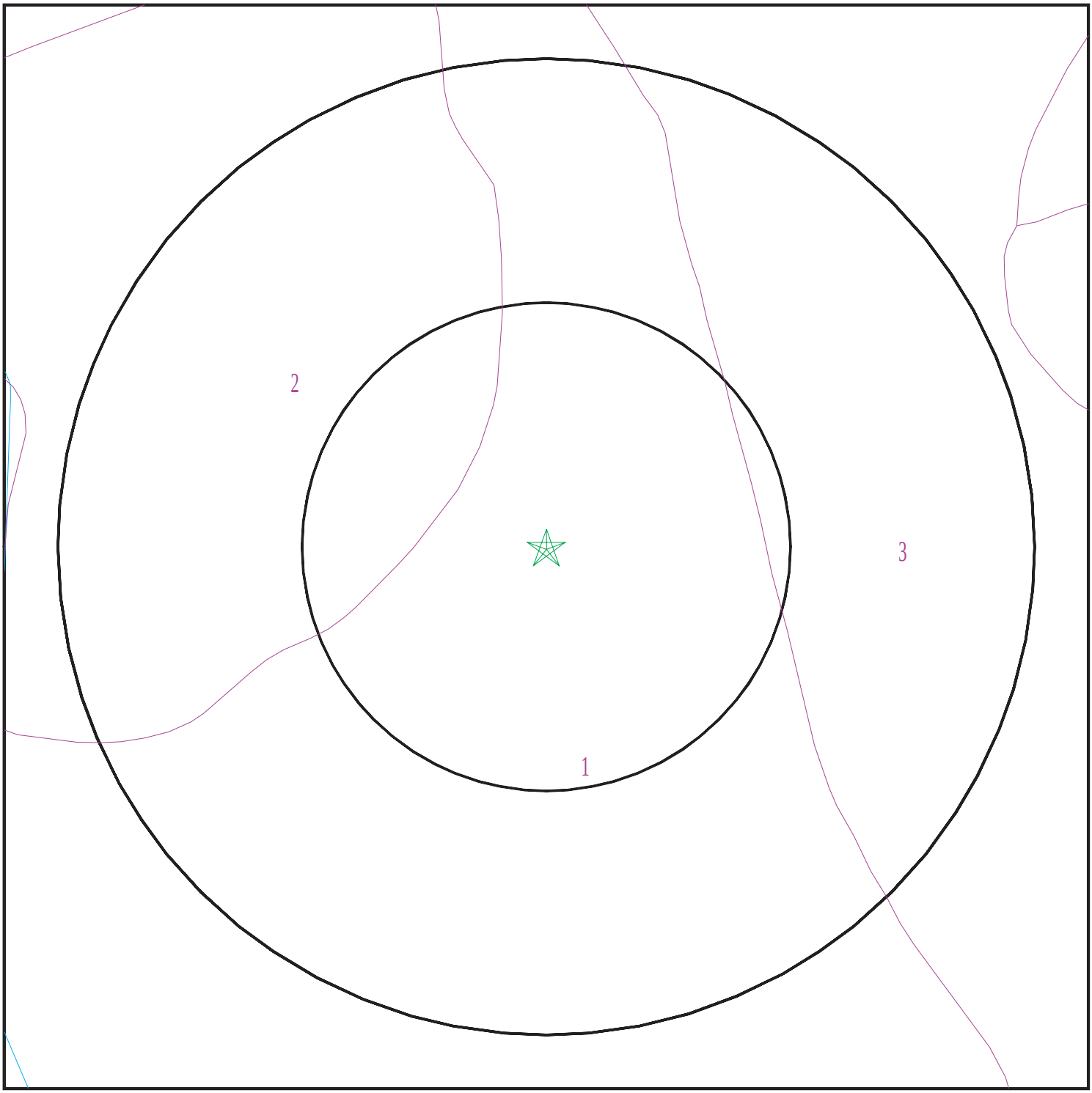
Era:	Mesozoic
System:	Cretaceous
Series:	Upper Cretaceous
Code:	uK *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 03468067.2r



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	8401 Fallbrook Avenue	CLIENT:	Hillmann Environmental Co.
ADDRESS:	8401 Fallbrook Avenue Canoga Park CA 91304	CONTACT:	Kristi Hill
		INQUIRY #:	03468067.2r
LAT/LONG:	34.2216 / 118.6235	DATE:	December 03, 2012 2:21 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Anacapa

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	24 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.9
2	24 inches	48 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.9
3	48 inches	72 inches	coarse sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.9

Soil Map ID: 2

Soil Component Name: Xerorthents

Soil Surface Texture: variable

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 89 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	59 inches	variable	Not reported	Not reported	Max: Min:	Max: Min:
2	59 inches	64 inches	weathered bedrock	Not reported	Not reported	Max: Min:	Max: Min:

Soil Map ID: 3

Soil Component Name: San Emigdio

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.9
2	18 inches	77 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.9

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	CA3900735	1/2 - 1 Mile SSW

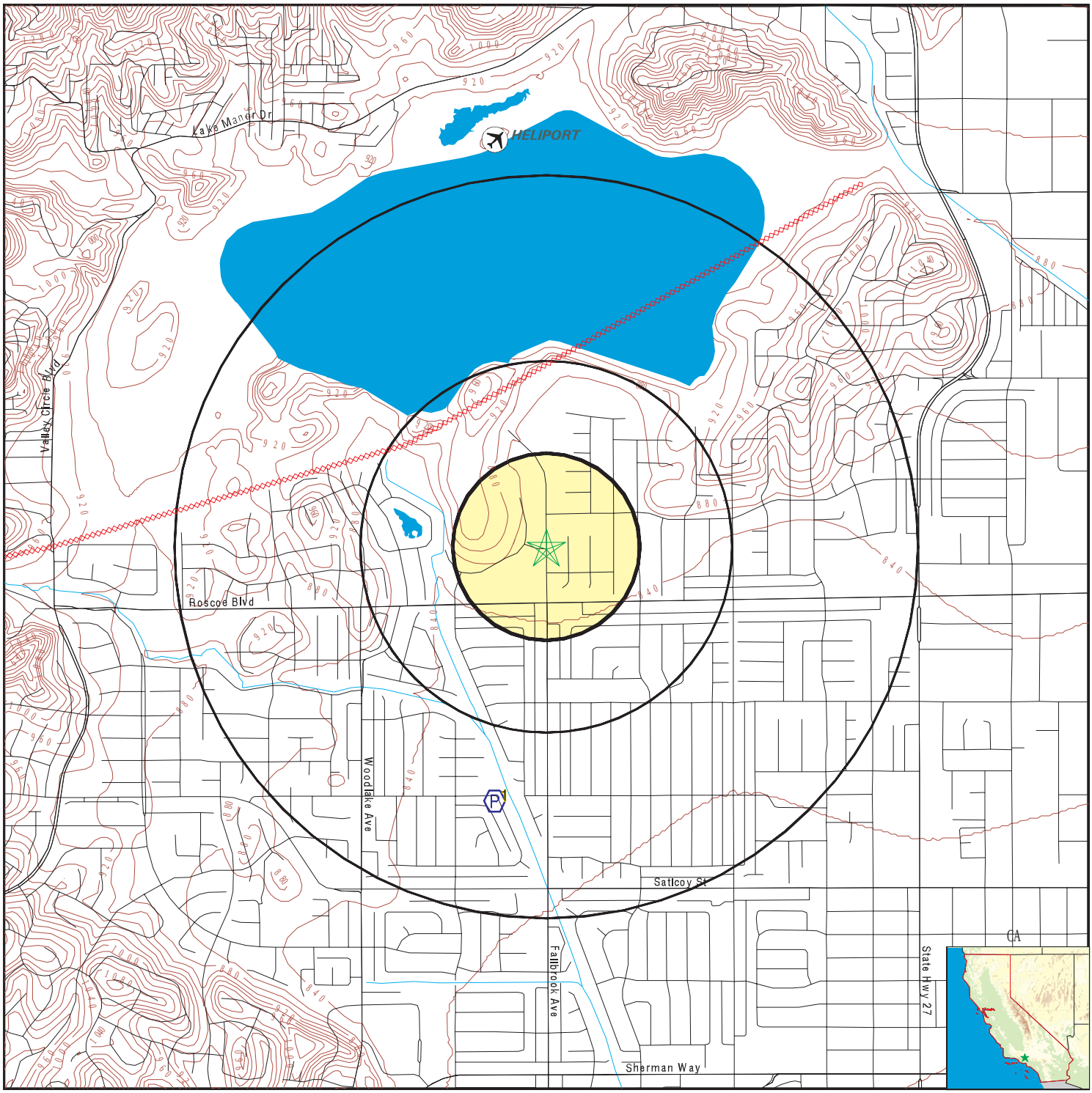
Note: PWS System location is not always the same as well location.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 03468067.2r



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: 8401 Fallbrook Avenue	CLIENT: Hillmann Environmental Co.
ADDRESS: 8401 Fallbrook Avenue Canoga Park CA 91304	CONTACT: Kristi Hill INQUIRY #: 03468067.2r
LAT/LONG: 34.2216 / 118.6235	DATE: December 03, 2012 2:21 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
SSW
1/2 - 1 Mile
Lower | **FRDS PWS** | **CA3900735**

PWS ID:	CA3900735		
Date Initiated:	Not Reported	Date Deactivated:	Not Reported
PWS Name:	CHARTER WAY MOBILE HOME PARK HUNTINGTON BEACH, CA 926491828		
Addressee / Facility:	System Owner/Responsible Party CASA DE SANTIAGO 16582 GRIMAUD LANE HUNTINGTON BEACH, CA 926491828		
Facility Latitude:	34 12 42	Facility Longitude:	118 37 30
City Served:	Not Reported		
Treatment Class:	Untreated	Population:	150

Violations information not reported.

ENFORCEMENT INFORMATION:

System Name:	CHARTER WAY MOBILE HOME PA		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	1993-07-01 - 2000-04-04		
Violation ID:	95V0001		
Enforcement Date:	2000-04-04	Enf. Action:	State Compliance Achieved
System Name:	CHARTER WAY MOBILE HOME PA		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	1993-07-01 - 2000-04-04		
Violation ID:	95V0001		
Enforcement Date:	2000-04-04	Enf. Action:	State Compliance Achieved
System Name:	CHARTER WAY MOBILE HOME PA		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	1993-07-01 - 2015-12-31		
Violation ID:	95V0001		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
91304	185	29

Federal EPA Radon Zone for LOS ANGELES County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Health Services
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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PHASE I ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE

The following questionnaire is required by the ASTM Standard E 1527-13, which adheres to the All Appropriate Inquiries (AAI) Rule (United States Environmental Protection Agency) (40 CFR 312).

As defined by ASTM, the User of the report is the *"party seeking to use Practice E 1527 to complete an environmental site assessment of the property. A user may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager. The user has specific obligations for completing a successful application of this practice."*

PROPERTY ADDRESS:	Corporate Pointe Land Parcel
PROPERTY CITY, STATE ZIP:	West Hills, CA

1. **Environmental liens that are filed or recorded against the property (40 CFR 312.25)**

   Did a search of recorded land title records (or judicial records) identify any environmental liens filed or recorded against the property under federal, tribal, state or local law?

   ☐ YES ☒ NO

2. **Activity and use limitations (AULs) that are in place on the property or that have been filed or records against the property (40 CFR 312.26(a)(1)(v) and (vi))**

   Did a search of recorded land title records (or judicial records) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law?

   ☐ YES ☒ NO

3. **Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28)**

   Do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

   ☐ YES ☒ NO

4. **Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29)**
Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?

☒ YES ☐ NO

---

5. **Commonly known or reasonably ascertainable information about the Property (40 CFR 312.30)**
Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases?

☐ YES ☒ NO

---

a. Do you know the past uses of the property?

☐ YES ☒ NO

---

b. Do you know of specific chemicals that are present or once were present at the property?

☐ YES ☒ NO Partners has all info we have received

---

c. Do you know of spills or other chemical releases that have taken place at the property?

☐ YES ☒ NO

---

d. Do you know of any environmental cleanups that have taken place at the property?

☐ YES ☒ NO

---

e. Do you have any prior knowledge that the property was developed as a gas station, dry cleaner, manufacturing/industrial facility in the past?

☐ YES ☒ NO

---

f. Are you aware of historical use of hazardous materials or petroleum products used or present on the property?

☐ YES ☒ NO

---

g. Do you know if the property is currently or was formerly equipped with underground storage tanks (USTs) or septic tanks?

☐ YES ☒ NO

h. Do you know of any past, threatened or pending lawsuits or administrative proceedings concerning a release or threatened release of any hazardous substance or petroleum products involving the property by any owner or occupant of the property?

☐ YES ☒ NO

6. The degree of obviousness of the presence or likely presence of contamination at the property**, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31)**

Based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of releases at the property?

☐ YES ☒ NO

Signature of User/Person Interviewed: _____

Name of User/Person Interviewed: Eric Staley

Title/Relationship to Property: Potential Investor

Phone Number/Email: eric@staleypoint.com

Date: 08/03/20

Contact for additional information:

Name: Eric Cho

Relationship to Property: Staley Point

Phone Number/Email: echo@staleypoint.com

ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE

Please complete to the best of your knowledge. For those questions that are not applicable, please respond with an "N/A". For those questions that are unknown, please respond with "unknown".

1. PROPERTY INFORMATION:

Property Name: Corporate Pointe		
Property Address: Land Parcel		
City West Hills	State CA	Zip 91304
Assessor's Parcel Number none for specific parcel		
Property Owner & Contact Information: Brookfield		
Date Property Owner Purchased:		
Key Site Manager & Contact Information:		

2. COMPLETED BY

Signature	Date 08/03/20
Printed Name Eric Staley	Relation to Subject Property Potential Purchaser

3. PREVIOUS INVESTIGATIONS

Have any previous environmental investigations been performed at the property, including Phase I ESAs, Phase II Subsurface Investigations, Remediation, Asbestos or Lead-Based Paint surveys? will provide the information we have (If yes, please provide copies)

4. PROPERTY DESCRIPTION

Property Size: Land Number of Building(s): 0

Size of Building(s): _____

Date of Construction: _____

Property Type: (please circle)

Multi-Family Hotel Mobile Home Park Retail/Commercial Industrial Office

Other: _____

Please provide Rent Roll if Applicable.

Historical Use of Property: _____

5. SURROUNDING PROPERTY USES

PARTNER

DIRECTION	USE
North	office
South	Resi
East	Resi
West	office

Are you aware of any potential environmental concerns associated with surrounding properties?

_X_ YES _____NO

If yes, please describe: will provide historical info

6. UTILITIES & SERVICES

Please provide the name of the utility or contractor providing the following:

Electric	_____	Bio-hazardous Waste	_____
Gas	_____	Elevator Maintenance	_____
Potable Water	_____	Used Grease	_____
Sanitary Sewer	_____	Hazardous Waste	_____

7. ON SITE OPERATIONS

Are you aware of any of the following conditions, either past or present, on the property?		
Condition	**Response**	**If yes, please describe**
1. Stored Chemicals	☐ Yes ☒ No	
2. Underground Storage Tanks	☐ Yes ☒ No	
3. Aboveground Storage Tanks	☐ Yes ☒ No	
4. Spills or Releases	☐ Yes ☒ No	
5. Dump Areas/Landfills	☐ Yes ☒ No	
6. Waste Treatment Systems	☐ Yes ☒ No	
7. Clarifiers/Separators	☐ Yes ☒ No	
8. Vents/Odors	☐ Yes ☒ No	
9. Floor Drains/Sumps	☐ Yes ☒ No	
10. Stained Soil	☐ Yes ☒ No	
11. Electrical Transformers	☐ Yes ☒ No	
12. Hydraulic Lifts/Elevators	☐ Yes ☒ No	
13. Dry Cleaning Operations	☐ Yes ☒ No	
14. Oil/Gas/Water/Monitoring Wells	☐ Yes ☒ No	
15. Environmental Permits	☐ Yes ☒ No	

Chicago Title Company

725 South Figueroa Street, Suite 200, Los Angeles, CA 90017
Phone: (213) 488-4300 ● Fax: (213) 488-4377

Issuing Policies of Chicago Title Insurance Company

ORDER NO.: **00098937-994-LT2-DB**

Escrow/Customer Phone: **(213) 488-4300**

Chicago Title / New York
711 Third Ave. 5th Floor
New York, NY 10017
ATTN: Anesa Toolsee
Email: anesa.toolsee@ctt.com
REF:

Title Officer: **Dave Balassi (LA/Comm)**
Title Officer Phone: **(213) 488-4394**
Title Officer Fax: **(213) 488-4360**
Title Officer Email: **TeamX49@ctt.com**

PROPERTY: **APN 2005-002-018, LOS ANGELES, CA**

PRELIMINARY REPORT

In response to the application for a policy of title insurance referenced herein, ***Chicago Title Company*** *hereby reports that it is prepared to issue, or cause to be issued, as of the date hereof, a policy or policies of title insurance describing the land and the estate or interest therein hereinafter set forth, insuring against loss which may be sustained by reason of any defect, lien or encumbrance not shown or referred to as an exception herein or not excluded from coverage pursuant to the printed Schedules, Conditions and Stipulations or Conditions of said policy forms.*

The printed Exceptions and Exclusions from the coverage and Limitations on Covered Risks of said policy or policies are set forth in Attachment One. The policy to be issued may contain an arbitration clause. When the Amount of Insurance is less than that set forth in the arbitration clause, all arbitrable matters shall be arbitrated at the option of either the Company or the Insured as the exclusive remedy of the parties. Limitations on Covered Risks applicable to the CLTA and ALTA Homeowner's Policies of Title Insurance which establish a Deductible Amount and a Maximum Dollar Limit of Liability for certain coverages are also set forth in Attachment One. Copies of the policy forms should be read. They are available from the office which issued this report.

This report (and any supplements or amendments hereto) is issued solely for the purpose of facilitating the issuance of a policy of title insurance and no liability is assumed hereby. If it is desired that liability be assumed prior to the issuance of a policy of title insurance, a Binder or Commitment should be requested.

The policy(s) of title insurance to be issued hereunder will be policy(s) of Chicago Title Insurance Company, a Florida corporation.

Please read the exceptions shown or referred to herein and the exceptions and exclusions set forth in Attachment One of this report carefully. The exceptions and exclusions are meant to provide you with notice of matters which are not covered under the terms of the title insurance policy and should be carefully considered.

It is important to note that this preliminary report is not a written representation as to the condition of title and may not list all liens, defects and encumbrances affecting title to the land.

Chicago Title Company

By:

By:

ATTEST President

Secretary

CHICAGO TITLE INSURANCE COMPANY CORPORATE SEAL

Authorized Signature

Chicago Title Company

725 South Figueroa Street, Suite 200, Los Angeles, CA 90017
Phone: (213) 488-4300 ● Fax: (213) 488-4377

PRELIMINARY REPORT

EFFECTIVE DATE: **July 24, 2020 at 7:30 a.m.**

ORDER NO.: 00098937-994-LT2-DB

The form of policy or policies of title insurance contemplated by this report is:

1. THE ESTATE OR INTEREST IN THE LAND HEREINAFTER DESCRIBED OR REFERRED TO COVERED BY THIS REPORT IS:

   A Fee as to Parcel 1B

   Easements more fully described below as to Parcels 2, 3, 4, 5, 6, 7, 8, 9, 10 and 11

2. TITLE TO SAID ESTATE OR INTEREST AT THE DATE HEREOF IS VESTED IN:

   BSREP West Hills Office Campus LLC, a Delaware limited liability company

3. THE LAND REFERRED TO IN THIS REPORT IS DESCRIBED AS FOLLOWS:

   See Exhibit A attached hereto and made a part hereof.

EXHIBIT "A"

LEGAL DESCRIPTION

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF LOS ANGELES, IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

TRACT 1: (2005-002-018)

PARCEL 1B:

THAT PORTION OF PARCEL B OF PARCEL MAP EXEMPTION NO. 2016-410-PMEX, RECORDED NOVEMBER 8, 2016 AS INSTRUMENT NO. 20161390120, IN THE CITY OF LOS ANGELES, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, LYING SOUTHERLY OF THE FOLLOWING DESCRIBED LINE:

BEGINNING AT THE NORTHWESTERLY TERMINUS OF THE WESTERLY LINE OF SAID PARCEL B OF SAID PARCEL MAP EXEMPTION 2016-410-PMEX SHOWN HAVING A BEARING AND DISTANCE OF NORTH 31° 07' 57" WEST 203.22 FEET, BEING A POINT ON A NON-TANGENT CURVE, CONCAVE NORTHERLY, HAVING A RADIUS OF 294.00 FEET, AND TO WHICH POINT A RADIAL LINE BEARS NORTH 39° 44' 21" WEST; THENCE EASTERLY 114.07 FEET ALONG SAID CURVE, THROUGH A CENTRAL ANGLE OF 22° 13' 50" TO THE BEGINNING OF A REVERSE CURVE, CONCAVE SOUTHERLY AND HAVING A RADIUS OF 20.00 FEET; THENCE EASTERLY 28.96 FEET ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 82° 58' 11; THENCE SOUTH 69° 00' 00" EAST .178.82 FEET; THENCE NORTH 90° 00' 00" EAST 86.08 FEET TO THE EASTERLY LINE OF SAID PARCEL B.

SAID LAND IS SHOWN AS ADJUSTED PARCEL 3 OF CERTIFICATE OF COMPLIANCE FOR LOT LINE ADJUSTMENT RECORDED JULY 13, 2018 AS INSTRUMENT NO. 2018-703479, OF OFFICIAL RECORDS.

PARCEL 2:

AN EASEMENT FOR SEWER PURPOSES AS PROVIDED IN THAT CERTAIN DECLARATION OF SEWER EASEMENT AND OPERATING AGREEMENT DATED MAY 15, 1997, EXECUTED BY COAST FEDERAL BANK, FEDERAL SAVINGS BANK, A FEDERALLY CHARTERED CAPITAL STOCK SAVINGS BANK, RECORDED MAY 20, 1997 AS INSTRUMENT NO. 97-751280 OFFICIAL RECORDS, OVER THAT PORTION OF PARCEL A OF PARCEL MAP 7115 IN THE CITY OF LOS ANGELES, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP FILED IN BOOK 276 PAGES 1 THROUGH 4 INCLUSIVE OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, AS THEREIN PROVIDED.

PARCEL 3:

AN EASEMENT FOR DRAINAGE PURPOSES AS PROVIDED IN THAT CERTAIN DECLARATION OF DRAINAGE EASEMENT AND OPERATING AGREEMENT DATED MAY 15, 1997, EXECUTED BY COAST FEDERAL BANK, FEDERAL SAVINGS BANK, A FEDERALLY CHARTERED CAPITAL STOCK SAVINGS BANK, RECORDED MAY 20, 1997 AS INSTRUMENT NO. 97-751281 OFFICIAL RECORDS, OVER THAT PORTION OF PARCEL A OF PARCEL MAP 7115 IN THE CITY OF LOS ANGELES, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP FILED IN BOOK 276 PAGES 1 THROUGH 4 INCLUSIVE OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, AS THEREIN PROVIDED.

PARCEL 4:

AN EASEMENT FOR DRAINAGE PURPOSES AS PROVIDED IN THAT CERTAIN DECLARATION OF DRAINAGE EASEMENT AND OPERATING AGREEMENT DATED MAY 15, 1997, EXECUTED BY COAST FEDERAL BANK, FEDERAL SAVINGS BANK, A FEDERALLY CHARTERED CAPITAL STOCK SAVINGS BANK, RECORDED MAY 20, 1997 AS INSTRUMENT NO. 97-751282 OFFICIAL RECORDS, OVER THAT PORTION OF PARCEL D OF PARCEL MAP 7115 IN THE CITY OF LOS ANGELES, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS

EXHIBIT A
(Continued)

PER MAP FILED IN BOOK 276 PAGES 1 THROUGH 4 INCLUSIVE OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, AS THEREIN PROVIDED.

PARCEL 5:

AN EASEMENT FOR WATER FACILITY AND PUMP STATION PURPOSES AS PROVIDED IN THAT CERTAIN DECLARATION OF WATER FACILITY/PUMP STATION EASEMENT AND OPERATING AGREEMENT DATED MAY 15, 1997, EXECUTED BY COAST FEDERAL BANK, FEDERAL SAVINGS BANK, A FEDERALLY CHARTERED CAPITAL STOCK SAVINGS BANK, RECORDED MAY 20, 1997 AS INSTRUMENT NO. 97-751285 OFFICIAL RECORDS, OVER THAT PORTION OF PARCEL D OF PARCEL MAP 7115 IN THE CITY OF LOS ANGELES, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP FILED IN BOOK 276 PAGES 1 THROUGH 4 INCLUSIVE OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, AS THEREIN PROVIDED.

PARCEL 6:

AN EASEMENT FOR WATER FACILITY AND PUMP STATION PURPOSES AS PROVIDED IN THAT CERTAIN DECLARATION OF WATER FACILITY/PUMP STATION EASEMENT AND OPERATING AGREEMENT DATED MAY 15, 1997, EXECUTED BY COAST FEDERAL BANK, FEDERAL SAVINGS BANK, A FEDERALLY CHARTERED CAPITAL STOCK SAVINGS BANK, RECORDED MAY 20, 1997 AS INSTRUMENT NO. 97-751286 OFFICIAL RECORDS, OVER THAT PORTION OF PARCEL A OF PARCEL MAP 7115 IN THE CITY OF LOS ANGELES, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP FILED IN BOOK 276 PAGES 1 THROUGH 4 INCLUSIVE OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, AS THEREIN PROVIDED.

PARCEL 7:

AN EASEMENT FOR INGRESS AND EGRESS PURPOSES AS PROVIDED IN THAT CERTAIN DECLARATION OF INGRESS AND EGRESS EASEMENT AND OPERATING AGREEMENT DATED MAY 15, 1997, EXECUTED BY COAST FEDERAL BANK, FEDERAL SAVINGS BANK, A FEDERALLY CHARTERED CAPITAL STOCK SAVINGS BANK, RECORDED MAY 20, 1997 AS INSTRUMENT NO. 97-751287 OFFICIAL RECORDS, OVER THAT PORTION OF PARCEL A OF PARCEL MAP 7115 IN THE CITY OF LOS ANGELES, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP FILED IN BOOK 276 PAGES 1 THROUGH 4 INCLUSIVE OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, AS THEREIN PROVIDED.

PARCEL 8:

AN EASEMENT FOR INGRESS AND EGRESS PURPOSES AS PROVIDED IN THAT CERTAIN DECLARATION OF INGRESS AND EGRESS EASEMENT AND OPERATING AGREEMENT DATED MAY 15, 1997, EXECUTED BY COAST FEDERAL BANK, FEDERAL SAVINGS BANK, A FEDERALLY CHARTERED CAPITAL STOCK SAVINGS BANK, RECORDED MAY 20, 1997 AS INSTRUMENT NO. 97-751289 OFFICIAL RECORDS, OVER THAT PORTION OF PARCEL D OF PARCEL MAP 7115 IN THE CITY OF LOS ANGELES, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP FILED IN BOOK 276 PAGES 1 THROUGH 4 INCLUSIVE OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, AS THEREIN PROVIDED.

PARCEL 9:

AN EASEMENT FOR INGRESS AND EGRESS PURPOSES AS PROVIDED IN THAT CERTAIN DECLARATION OF INGRESS AND EGRESS EASEMENT AND OPERATING AGREEMENT DATED MAY 15, 1997, EXECUTED BY COAST FEDERAL BANK, FEDERAL SAVINGS BANK, A FEDERALLY CHARTERED CAPITAL STOCK SAVINGS BANK, RECORDED MAY 20, 1997 AS INSTRUMENT NO. 97-751291 OFFICIAL RECORDS, OVER THAT PORTION OF PARCEL D OF PARCEL MAP 7115 IN THE CITY OF LOS ANGELES, COUNTY OF LOS ANGELES, STATE OF

EXHIBIT A
(Continued)

CALIFORNIA, AS PER MAP FILED IN BOOK 276 PAGES 1 THROUGH 4 INCLUSIVE OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, AS THEREIN PROVIDED.

PARCEL 10:

AN EASEMENT FOR INGRESS AND EGRESS PURPOSES AS PROVIDED IN THAT CERTAIN DECLARATION OF INGRESS AND EGRESS EASEMENT AND OPERATING AGREEMENT DATED MAY 15, 1997, EXECUTED BY COAST FEDERAL BANK, FEDERAL SAVINGS BANK, A FEDERALLY CHARTERED CAPITAL STOCK SAVINGS BANK, RECORDED AUGUST 8, 1997 AS INSTRUMENT NO. 97-1218311 OFFICIAL RECORDS, AND AS RESERVED IN THE DEED RECORDED AUGUST 22, 1997 AS INSTRUMENT NO. 97-1307924, OFFICIAL RECORDS, OVER THAT PORTION OF SAID PARCEL B, AS THEREIN PROVIDED.

PARCEL 11:

AN EASEMENT FOR WATER FACILITY AND PUMP STATION PURPOSES AS PROVIDED IN THAT CERTAIN DECLARATION OF WATER FACILITY/PUMP STATION EASEMENT AND OPERATING AGREEMENT DATED MAY 15, 1997, EXECUTED BY COAST FEDERAL BANK, FEDERAL SAVINGS BANK, A FEDERALLY CHARTERED CAPITAL STOCK SAVINGS BANK, RECORDED AUGUST 8, 1997 AS INSTRUMENT NO. 97-1218312 OFFICIAL RECORDS, AND AS RESERVED IN THE DEED RECORDED AUGUST 22, 1997 AS INSTRUMENT NO. 97-1307924, OFFICIAL RECORDS, OVER THAT PORTION OF SAID TRACT 2: (APN 2005-002-001 THROUGH 007)

APN: **2005-002-018**

EXCEPTIONS

AT THE DATE HEREOF, ITEMS TO BE CONSIDERED AND EXCEPTIONS TO COVERAGE IN ADDITION TO THE PRINTED EXCEPTIONS AND EXCLUSIONS IN SAID POLICY FORM WOULD BE AS FOLLOWS:

A. Property taxes, which are a lien not yet due and payable, including any assessments collected with taxes to be levied for the fiscal year 2020-2021.

B. Property taxes, including any personal property taxes and any assessments collected with taxes, are as follows:

Tax Identification No.:	2005-002-018
Fiscal Year:	2019-2020
1st Installment:	$17,026.68, Paid
2nd Installment:	$17,026.68, Paid
Code Area:	00016

C. The lien of supplemental or escaped assessments of property taxes, if any, made pursuant to the provisions of Chapter 3.5 (commencing with Section 75) or Part 2, Chapter 3, Articles 3 and 4, respectively, of the Revenue and Taxation Code of the State of California as a result of the transfer of title to the vestee named in Schedule A or as a result of changes in ownership or new construction occurring prior to Date of Policy.

1. Water rights, claims or title to water, whether or not disclosed by the public records.

2. A covenant and agreement upon and subject to the terms and conditions therein

Executed by:	Thompson Ramo Wooldridge, Inc., a corporation
in favor of:	City of Los Angeles
Recorded:	March 16, 1959 as Instrument No. 2529 in Book M-240 Page 921, Official Records

Reference is hereby made to said document for full particulars.

3. Easement(s) for the purpose(s) shown below and rights incidental thereto as delineated or as offered for dedication, on the recorded map shown below:

Map of:	Tract 24606 in Book 648 Pages 87 to 89 of Maps
Purpose:	street lighting
Affects:	That portion of said land as shown on said map.

4. Easement(s) for the purpose(s) shown below and rights incidental thereto as delineated or as offered for dedication, on the recorded map shown below:

Map of:	Tract 24606 in Book 648 Pages 87 to 89 of Maps
Purpose:	public utility
Affects:	That portion of said land as shown on said map.

5. The right to maintain, operate, repair, renew, change the size of and replace a certain water line and pumping equipment, with the right of ingress and egress to and from the same, over, under, along and across a strip of land (except that such easement and right-of-way in the vicinity of the aforesaid pumping equipment shall extend to the entire perimeter of the structure presently housing such equipment and shall include the right of access thereto and to any replacement thereof), the center line of which is the center line of the existing water-line, the approximate location thereof being shown by the attached drawing which is incorporated therein and made a part thereof, as quitclaimed to Agonac Realty Company, Inc., a Delaware corporation, and to E.G. Kimloch, J.S. Parkers, J.D. Lockton, James H. Goss and G.L. Phillippe, as Trustees of the General Electric Pension Trust, by deed recorded March 31, 1964 as Instrument No. 5670 in Book D2415 Page 518, Official Records.

EXCEPTIONS
(Continued)

6. The right to maintain, operate, repair, renew, change the size of and replace a certain sanitary sewer, with the right of ingress and egress to and from the same over, under, along and across a strip of land 10 feet in width, the center line of which is the center line of the existing storm drain, the approximate location thereof being shown by the attached drawing which is incorporated therein and made a part thereof, as quitclaimed to Agonac Realty Company, Inc., a Delaware corporation, and to E.G. Kinloch, et al., as Trustees of the General Electric Pension Trust, by deed recorded March 31, 1964 as Instrument No. 5671 in Book D2415 Page 521, Official Records.

7. A covenant and agreement upon and subject to the terms and conditions therein

   Executed by: Hughes Aircraft Company, Inc.
   In favor of: City of Los Angeles
   Recorded: May 9, 1984 as Instrument No. 84-558430 Official Records

   Reference is hereby made to said document for full particulars.

8. A covenant and agreement upon and subject to the terms and conditions therein

   Executed by: Hughes Aircraft Company
   In favor of: City of Los Angeles
   Recorded: February 15, 1985 as Instrument No. 85-184573 Official Records

   Reference is hereby made to said document for full particulars.

9. A document entitled "Statement Regarding Remediation Covenants and the terms and Conditions contained therein executed by Hughes Aircraft Company, a Delaware corporation and The Valley Job Recovery Corporation, a California nonprofit public benefit corporation recorded May 17, 1995 as Instrument No. 95-786007, Official Records.

10. A covenant and agreement upon and subject to the terms and conditions therein

    Executed by: Coast Federal Bank, Federal Savings Bank
    In favor of: City of Los Angeles
    Recorded: June 2, 1995 as Instrument No. 95-882842, Official Records

    Reference is hereby made to said document for full particulars.

11. A covenant and agreement upon and subject to the terms and conditions therein

    Recorded: December 16, 1996 as Instrument No. 96-2028620 o, of Official Records

    Reference is hereby made to said document for full particulars.

12. A covenant and agreement upon and subject to the terms and conditions therein

    Executed by: Coast Federal Bank, Federal Savings Bank, a federally chartered capital stock savings bank
    In favor of: City of Los Angeles
    Recorded: January 21, 1997 as Instrument No. 97-105317, Official Records

    Reference is made to said document for full particulars.

EXCEPTIONS
(Continued)

13. A covenant and agreement upon and subject to the terms and conditions therein

Executed by:	Coast Federal Bank, Federal Savings Bank, a federally chartered capital stock savings bank
In favor of:	City of Los Angeles
Recorded:	January 21, 1997 as Instrument No. 97-105319, Official Records

Reference is made to said document for full particulars.

14. A covenant and agreement upon and subject to the terms and conditions therein

Executed by:	Coast Federal Bank, Federal Savings Bank, a federally chartered capital stock savings bank
In favor of:	City of Los Angeles
Recorded:	February 7, 1997 as Instrument No. 97-209961, Official Records

Reference is hereby made to said document for full particulars.

15. A covenant and agreement upon and subject to the terms and conditions therein

Executed by:	Coast Federal Bank, Federal Savings Bank, a federally chartered capital stock savings bank
In favor of:	City of Los Angeles
Recorded:	April 2, 1997 as Instrument No. 97-500797, Official Records

Reference is made to said document for full particulars.

16. A covenant and agreement upon and subject to the terms and conditions therein

Executed by:	Coast Federal Bank, Federal Savings Bank, a federally chartered capital stock savings bank
In favor of:	City of Los Angeles
Recorded:	April 2, 1997 as Instrument No. 97-502369, Official Records

Reference is hereby made to said document for full particulars.

17. A covenant and agreement upon and subject to the terms and conditions therein

Recorded:	April 2, 1997 as Instrument No. 97-502370, of Official Records

Reference is hereby made to said document for full particulars.

18. Easement(s) for the purpose(s) shown below and rights incidental thereto as delineated or as offered for dedication, on the recorded map shown below:

Map of:	Parcel Map No. 7115 in Book 276 Pages 1 to 4
Purpose:	sidewalks
Affects:	That portion of said land as shown on said map.

EXCEPTIONS
(Continued)

19. Covenants, conditions and restrictions (but omitting any covenant or restrictions, if any, based upon on race, color, religion, sex, sexual orientation, familial status, marital status, disability, handicap, national origin, ancestry, or source of income, as set forth in applicable state or federal laws, except to the extent that said covenant or restriction is permitted by applicable law) as set forth in the document

    Recorded: May 20, 1997 as Instrument No. 97-751277, of Official Records

    Note: Section 12956.1 of the government code provides the following: "If this document contains any restriction based on race, color, religion, sex, sexual orientation, familial status, marital status, disability, national origin, source of income as defined in subdivision (p) of Section 12955, or ancestry, that restriction violates state and federal fair housing laws and is void, and may be removed pursuant to section 12956.2 of the Government Code. Lawful restrictions under state and federal law on the age of occupants in senior housing or housing for older persons shall not be construed as restrictions based on familial status."

    Said covenants, conditions and restrictions provide that a violation thereof shall not defeat the lien of any mortgage or deed of trust made in good faith and for value.

20. A document subject to all the terms, provisions and conditions therein contained.

    Entitled: Covenant and Agreement
    Dated: May 15, 1997
    Executed by: Coast Federal Bank, Federal Savings Bank, a federally chartered savings bank
    Recorded: May 20, 1997 as Instrument No. 97-751278, Official Records

21. A "Declaration of Sewer Easement and Operating Agreement" dated May 15, 1997 executed by Coast Federal Bank, Federal Savings Bank, a federally chartered capital stock savings bank, which establishes an easement over portions of said land as therein provided and contains covenants, conditions and restrictions

    Recorded: May 20, 1997 as Instrument No. 97-751279 Official Record

22. A "Declaration of Drainage Easement and Operating Agreement" dated May 15, 1997 executed by Coast Federal Bank, Federal Savings Bank, a federally chartered capital stock savings bank, which establishes an easement over portions of said land as therein provided and contains covenants, conditions and restrictions

    Recorded: May 20, 1997 as Instrument No. 97-751283 Official Records

23. A "Declaration of Drainage Easement and Operating Agreement" dated May 15, 1997 executed by Coast Federal Bank, Federal Savings Bank, which establishes an easement over portions of said land as therein provided and contains covenants, conditions and restrictions

    Recorded: May 20, 1997 as Instrument No. 97-751284 Official Records

24. A "Declaration of Ingress and Egress Easement and Operating Agreement" dated May 15, 1997 executed by Coast Federal Bank, Federal Savings Bank, a federally chartered capital stock savings bank, which establishes an easement over portions of said land as therein provided and contains covenants, conditions and restrictions

    Recorded: May 20, 1997 as Instrument No. 97-751290 Official Records

EXCEPTIONS
(Continued)

25. A "Declaration of Ingress and Egress Easement and Operating Agreement" dated May 15, 1997 executed by Coast Federal Bank, Federal Savings Bank, a federally chartered capital stock savings bank, which establishes an easement over portions of said land as therein provided and contains covenants, conditions and restrictions

    Recorded: May 20, 1997 as Instrument No. 97-751292 Official Records

26. A "Declaration of Emergency Access Easement and Operating Agreement" dated May 15, 1997 executed by Coast Federal Bank, Federal Savings Bank, a federally chartered capital stock savings bank, which establishes an easement over portions of said land as therein provided and contains covenants, conditions and restrictions

    Recorded: May 20, 1997 as Instrument No. 97-751293 Official Records

27. A covenant and agreement upon and subject to the terms and conditions therein

    Executed by: Coast Federal Bank, Federal Savings Bank, a federally chartered capital stock savings bank
    In favor of: City of Los Angeles
    Recorded: April 21, 1998 as Instrument No. 98-661739, Official Records

    Reference is hereby made to said document for full particulars.

28. The matters contained in a document entitled "Recognition of Covenants, Conditions and Restrictions" by and between West Hills Corporate Village, LLC and the Boeing Company, a Delaware Corporation recorded November 25, 1998 as Instrument No. 98-2159656 of Official Records.

    Reference is hereby made to said document for full particulars.

29. The matters contained in a document entitled "Recognition of Covenants, Conditions and Restrictions" by and between West Hills Corporate Village, LLC and The Boeing County of Imperial, a Delaware Corporation recorded November 25, 1998 as Instrument No. 98-2159657 of Official Records.

    Reference is hereby made to said document for full particulars.

30. An easement for the purpose shown below and rights incidental thereto as set forth in a document. (No representation is made as to the present ownership of said easement)

    In Favor of: Pacific Bell, a corporation
    Purpose: maintenance and replacement of existing communications facilities
    Recorded: February 11, 1999 as Instrument No. 99-225478, Official Records.
    Affects: That portion of said land as described in the document attached hereto.

31. A covenant and agreement upon and subject to the terms and conditions therein

    Recorded: May 19, 1999 as Instrument No. 99-0904135, of Official Records

    Reference is hereby made to said document for full particulars.

32. A covenant and agreement executed by West Hills Corporate Village, LLC in favor of: City of Los Angeles recorded July 7, 1999 as Instrument No. 99-1240584 of Official Records

    Reference is hereby made to said document for full particulars.

EXCEPTIONS
(Continued)

33. A covenant and agreement executed by Jeffrey A. Dinkin in favor of City of Los Angeles recorded: September 7, 1999 as Instrument No. 99-1695717 of Official Records

Reference is hereby made to said document for full particulars.

34. A document subject to all the terms, provisions and conditions therein contained.

Entitled:	Affidavit Regarding Maintenance of Potential Settlement
Dated:	July 13, 1999
Executed by:	MEPT West Hills, LLC
Recorded:	September 23, 1999 an Illinois Corporation 99-1819031 of Official Records

Reference is hereby made to said document for full particulars.

35. A covenant and agreement executed by West Hills Corporate Village, LLC, a California limited liability company in favor of City of Los Angeles recorded December 8, 1999 as Instrument No. 99-2267100 of Official Records

Reference is hereby made to said document for full particulars.

36. A covenant and agreement executed by West Hills Corporate Village, LLC, a California limited liability company in favor of: City of Los Angeles recorded December 8, 1999 as Instrument No. 99-2267101 of Official Records

Reference is hereby made to said document for full particulars.

37. A covenant and agreement executed by West Hills Corporate Village, LLC, a California limited liability company in favor of: City of Los Angeles recorded December 8, 1999 as Instrument No. 99-2267102 of Official Records

Reference is hereby made to said document for full particulars.

38. A covenant and agreement executed by West Hills Corporate Village, LLC in favor of City of Los Angeles recorded February 24, 2000 as Instrument No. 00-0278529 of Official Records

Reference is hereby made to said document for full particulars.

39. A covenant and agreement executed by West Hills Corporate Village, LLC in favor of City of Los Angeles recorded February 24, 2000 as Instrument No. 00-0278530 of Official Records

Reference is hereby made to said document for full particulars.

40. An easement for the purpose shown below and rights incidental thereto as set forth in a document granted to: Pacific Bell Telephone Company, a Corporation

Purpose:	Public utilities
Recorded:	March 10, 2000 as Instrument No. 00-0367886 of Official Records
Affects:	said land more particularly described therein.

41. Easement(s) for the purpose(s) shown below and rights incidental thereto as delineated or as offered for dedication, on the recorded map shown below:

Map of:	Tract No. 52399 in Book 1253 Pages 73 to 77
Purpose:	fire lane
Affects:	a 28’ wide and variable width easement to the City of Los Angeles

EXCEPTIONS
(Continued)

42. Easement(s) for the purpose(s) shown below and rights incidental thereto as delineated or as offered for dedication, on the recorded map shown below:

Map of:	Tract No. 52399 in Book 1253 Pages 73 to 77 inclusive of Maps
Purpose:	street lighting, sidewalk and public utility
Affects:	That portion of said land as shown on said map.

43. A covenant and agreement executed by West Hills Corporate LLC, a California limited liability company in favor of City of Los Angeles recorded: July 17, 2001 as Instrument No. 01-1245474 of Official Records

Reference is hereby made to said document for full particulars.

44. A covenant and agreement upon and subject to the terms and conditions therein

Recorded: December 6, 2002 as Instrument No. 02-2983340 of Official Records

Reference is hereby made to said document for full particulars.

45. A covenant and agreement upon and subject to the terms and conditions therein

Recorded: April 22, 2005 as Instrument No. 05-0941019, of Official Records

Reference is hereby made to said document for full particulars.

46. A covenant and agreement executed by MEPT West Hills, LLC, a Delaware limited liability company in favor of: City of Los Angeles recorded: February 21, 2006 as Instrument No. 06-0379936 of Official Records

Reference is hereby made to said document for full particulars.

47. A covenant and agreement executed by MEPT West Hills, LLC, a Delaware limited liability company in favor of: City of Los Angeles recorded: March 31, 2006 as Instrument No. 06-0696176 of Official Records

Reference is hereby made to said document for full particulars.

48. A document subject to all the terms, provisions and conditions therein contained entitled "Affidavit Regarding Maintenance of Uncertified Fill/Underground Structures" executed by: MEPT West Hills, LLC, a Delaware limited liability company

Recorded: October 18, 2006 as Instrument No. 06-2317116 of Official Records

49. A document subject to all the terms, provisions and conditions therein contained entitled "Covenant and Agreement Regarding Maintenance of Building" executed by MEPT West Hills, LLC, a Delaware limited liability company

Recorded: September 10, 2008 as Instrument No. 20081632518 of Official Records

50. The matters contained in a document entitled "Master Covenant and Agreement Regarding On-Site Stormwater Treatment Devices Maintenance" recorded November 3, 2008 as Instrument No. 2008-1945946 of Official Records.

Reference is hereby made to said document for full particulars.

EXCEPTIONS
(Continued)

51. A document subject to all the terms, provisions and conditions therein contained entitled "Master Covenant and Agreement regarding height of wireless telecommunications facility" executed by MEPT West Hills, LLC, a Delaware limited liability company recorded November 12, 2008 as Instrument No. 2008-1996135 of Official Records

52. This exception has been intentionally deleted.

53. This exception has been intentionally deleted.

54. An unrecorded lease with certain terms, covenants, conditions and provisions set forth therein as disclosed by the document

Entitled:	Subordination and Security Agreement
Lessor:	BSREP West Hills Office Campus LLC, a Delaware limited liability company
Lessee:	BSREP West Hills TRS LLC, a Delaware limited liability company
Recording Date:	July 10, 2013
Recording No:	2013-1009745 of Official Records

Affects: The herein described Land and other land.

55. This exception has been intentionally deleted.

56. An instrument entitled Covenant and Agreement Regarding Maintenance of Building

Executed by:	BSREP West Hills Office Campus LLC
In favor of:	Superintendent of Building of the City of Los Angeles
Recording Date:	July 19, 2016
Recording No:	20160843913 of Official Records

Which among other things provides: As therein provided.

Reference is hereby made to said document for full particulars.

Affects: The herein described Land and other land.

57. An instrument entitled Covenant and Agreement Regarding Maintenance of Off-Site Parking Space

Executed by:	BSREP West Hills Office Campus LLC
In favor of:	Superintendent of Building of the City of Los Angeles
Recording Date:	November 8, 2016
Recording No:	20161390122 of Official Records

Which among other things provides: As therein provided.

Reference is hereby made to said document for full particulars.

Affects: The herein described Land and other land.

EXCEPTIONS
(Continued)

58. An instrument entitled Covenant and Agreement for Community Driveway

Executed by:	BSREP West Hills Office Campus LLC
In favor of:	Superintendent of Building of the City of Los Angeles
Recording Date:	November 8, 2016
Recording No:	20161390123 of Official Records

Which among other things provides: As therein provided.

Reference is hereby made to said document for full particulars.

Affects: The herein described Land and other land.

59. Matters contained in that certain document

Entitled:	Parking Easement Agreement
Dated:	November 3, 2016
Executed by:	BSREP West Hills Office Campus LLC, a Delaware limited liability company; BA Leasing BSC, LLC, a Delaware limited liability company; and Thermo Fisher Scientific Inc., a Delaware corporation
Recording Date:	November 8, 2016
Recording No:	20161390127 of Official Records

Reference is hereby made to said document for full particulars.

Affects: The herein described Land and other land.

60. Matters contained in that certain document

Entitled:	Cost Sharing and Maintenance Agreement and Supplement to Declaration
Dated:	November 3, 2016
Executed by:	BSREP West Hills Office Campus LLC, a Delaware limited liability company; BA Leasing BSC, LLC, a Delaware limited liability company; and Thermo Fisher Scientific Inc., a Delaware corporation
Recording Date:	November 8, 2016
Recording No:	20161390128 of Official Records

Reference is hereby made to said document for full particulars.

Affects: The herein described Land and other land.

61. Matters contained in that certain document

Entitled:	Memorandum of License Agreement
Dated:	November 3, 2016
Executed by:	BSREP West Hills Office Campus LLC, a Delaware limited liability company; BA Leasing BSC, LLC, a Delaware limited liability company; and Thermo Fisher Scientific Inc., a Delaware corporation
Recording Date:	November 8, 2016
Recording No:	20161390129 of Official Records

Reference is hereby made to said document for full particulars.

EXCEPTIONS
(Continued)

Affects: The herein described Land and other land.

62. An instrument entitled Utility Easement Agreement

Executed by: November 3, 2016
In favor of: BSREP West Hills Office Campus LLC, a Delaware limited liability company; BA Leasing BSC, LLC, a Delaware limited liability company; and Thermo Fisher Scientific Inc., a Delaware corporation
Recording Date: November 8, 2016
Recording No: 20161390130 of Official Records

Which among other things provides: As therein provided.

Reference is hereby made to said document for full particulars.

This covenant and agreement provides that it shall be binding upon any future owners, encumbrancers, their successors or assigns, and shall continue in effect until the advisory agency approves termination.

Affects: The herein described Land and other land.

63. An instrument entitled "Covenant and Agreement Regarding Maintenance of Yards for an Over-Sized Building"

Executed by: BSREP West Hills Office Campus LLC
In favor of: Superintendent of Building of the City of Los Angeles
Recording Date: December 7, 2016
Recording No: 20161545989 of Official Records

Which among other things provides: As therein provided.

Reference is hereby made to said document for full particulars.

This covenant and agreement provides that it shall be binding upon any future owners, encumbrancers, their successors or assigns, and shall continue in effect until the advisory agency approves termination.

64. This exception has been intentionally deleted.

65. This exception has been intentionally deleted.

66. This exception has been intentionally deleted.

EXCEPTIONS
(Continued)

67. An instrument entitled Covenant and Agreement Regarding Maintenance of Off-Site Parking Space

Executed by:	BSREP West Hills Office Campus LLC
In favor of:	Superintendent of Building of the City of Los Angeles
Recording Date:	April 19, 2018
Recording No:	20180381724 of Official Records

Which among other things provides: As therein provided.

Reference is hereby made to said document for full particulars.

This covenant and agreement provides that it shall be binding upon any future owners, encumbrancers, their successors or assigns, and shall continue in effect until the advisory agency approves termination.

Affects: The herein described Land and other land.

68. An instrument entitled Covenant and Agreement for Community Driveway Over Two or More Parcels

Executed by:	BSREP West Hills Office Campus LLC
In favor of:	Superintendent of Building of the City of Los Angeles
Recording Date:	April 19, 2018
Recording No:	20180381725 of Official Records

Which among other things provides: As therein provided.

Reference is hereby made to said document for full particulars.

This covenant and agreement provides that it shall be binding upon any future owners, encumbrancers, their successors or assigns, and shall continue in effect until the advisory agency approves termination.

Affects: The herein described Land and other land.

69. An instrument entitled Covenant and Agreement for Community Driveway Over Two or More Parcels

Executed by:	BSREP West Hills Office Campus LLC
In favor of:	Superintendent of Building of the City of Los Angeles
Recording Date:	April 19, 2018
Recording No:	20180381726 of Official Records

Which among other things provides: As therein provided.

Reference is hereby made to said document for full particulars.

This covenant and agreement provides that it shall be binding upon any future owners, encumbrancers, their successors or assigns, and shall continue in effect until the advisory agency approves termination.

Affects: The herein described Land and other land.

EXCEPTIONS
(Continued)

70. An irrevocable offer to dedicate an easement over a portion of said Land for

Dedicated to:	City or Los Angeles
Purpose(s):	public street purposes
Recording Date:	April 27, 2018
Recording No:	20180413304 of Official Records
Affects:	A portion of said land as more particularly described in said document.

71. This exception has been intentionally deleted.

72. This exception has been intentionally deleted.

73. Any right, title or interest of the debtor named in the financing statement shown above.

74. Any rights, claims or interests that may exist or arise by reason of the following facts disclosed by a map dated October 30, 2018 of an ALTA/NSPS Land Title Survey prepared by or under the responsible charge of Douglas R. Howard LS 6169, of/for Psomas, Project/Job No. 1BRO190100.

A. There is a sign on the east line of Parcel 1B.
B. A guy anchor attached to a power pole on Fallbrook Avenue extends an undisclosed distance onto Parcel 1B.
C. Parking improvements on Parcel 1B extend onto the westerly adjoining property.
D. A light on the north side of Parcel 1B extends onto the northerly adjoining property.
E. There is an "I box", storm drain manhole and fire hydrant on the west side of Parcel 1B.
F. There a back flow preventer utility pad on the south side of Parcel 1B.
G. There is a drain inlet on the north line of Parcel 1B.
H. The fact that Parcel 1B is labeled Parcel 1 on the survey.
I. The fact that the following matters set forth in the "Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys" jointly established and adopted by ALTA and NSPS in 2016, have not been addressed or complied with by the survey in its present form. The numbers in parentheses refer to the specific standard in the requirements.

(7.) Surveyor's signature is not on the survey.

75. Any rights of the parties in possession of a portion of, or all of, said Land, which rights are not disclosed by the public records.

The Company will require, for review, a full and complete copy of any unrecorded agreement, contract, license and/or lease, together with all supplements, assignments and amendments thereto, before issuing any policy of title insurance without excepting this item from coverage.

The Company reserves the right to except additional items and/or make additional requirements after reviewing said documents.

76. Matters contained in that certain document

Entitled:	Private Covenants and Agreement Regarding Entitlements
Dated:	January 10, 2019
Executed by:	BSREP West Hills Office Campus LLC, a Delaware limited liability company
Recording Date:	January 14, 2019
Recording No:	2019-0037078 of Official Records

Reference is hereby made to said document for full particulars.

EXCEPTIONS
(Continued)

PLEASE REFER TO THE "INFORMATIONAL NOTES" AND "REQUIREMENTS" SECTIONS WHICH FOLLOW FOR INFORMATION NECESSARY TO COMPLETE THIS TRANSACTION.

END OF EXCEPTIONS

REQUIREMENTS SECTION

1. Unrecorded matters which may be disclosed by an Owner's Affidavit or Declaration. A form of the Owner's Affidavit/Declaration is attached to this Preliminary Report/Commitment. This Affidavit/Declaration is to be completed by the record owner of the land and submitted for review prior to the closing of this transaction. Your prompt attention to this requirement will help avoid delays in the closing of this transaction. Thank you.

   The Company reserves the right to add additional items or make further requirements after review of the requested Affidavit/Declaration.

2. The Company will require the following documents for review prior to the issuance of any title insurance predicated upon a conveyance or encumbrance from the entity named below:

   Limited Liability Company: BSREP West Hills Office Campus LLC, a Delaware limited liability company

   a) A copy of its operating agreement, if any, and all amendments, supplements and/or modifications thereto, certified by the appropriate manager or member.

   b) If a domestic Limited Liability Company, a copy of its Articles of Organization and all amendments thereto with the appropriate filing stamps.

   c) If the Limited Liability Company is member-managed, a full and complete current list of members certified by the appropriate manager or member.

   d) A current dated certificate of good standing from the proper governmental authority of the state in which the entity is currently domiciled.

   e) If less than all members, or managers, as appropriate, will be executing the closing documents, furnish evidence of the authority of those signing.

   f) If Limited Liability Company is a Single Member Entity, a Statement of Information for the Single Member will be required.

   g) Each member and manager of the LLC without an Operating Agreement must execute in the presence of a notary public the Certificate of California LLC (Without an Operating Agreement) Status and Authority form.

END OF REQUIREMENTS

INFORMATIONAL NOTES SECTION

1. None of the items shown in this report will cause the Company to decline to attach ALTA Endorsement Form 9 to an Extended Coverage Loan Policy, when issued.

2. The Company is not aware of any matters which would cause it to decline to attach CLTA Endorsement Form 116 indicating that there is located on said Land Commercial properties, known as APN 2005-002-018, located within the city of Los Angeles, California, , to an Extended Coverage Loan Policy.

3. Note: The policy of title insurance will include an arbitration provision. The Company or the insured may demand arbitration. Arbitrable matters may include, but are not limited to, any controversy or claim between the Company and the insured arising out of or relating to this policy, any service of the Company in connection with its issuance or the breach of a policy provision or other obligation. Please ask your escrow or title officer for a sample copy of the policy to be issued if you wish to review the arbitration provisions and any other provisions pertaining to your Title Insurance coverage.

4. Notice: Please be aware that due to the conflict between federal and state laws concerning the cultivation, distribution, manufacture or sale of marijuana, the Company is not able to close or insure any transaction involving Land that is associated with these activities.

5. Pursuant to Government Code Section 27388.1, as amended and effective as of 1-1-2018, a Documentary Transfer Tax (DTT) Affidavit may be required to be completed and submitted with each document when DTT is being paid or when an exemption is being claimed from paying the tax. If a governmental agency is a party to the document, the form will not be required. DTT Affidavits may be available at a Tax Assessor-County Clerk-Recorder.

6. Due to the special requirements of SB 50 (California Public Resources Code Section 8560 et seq.), any transaction that includes the conveyance of title by an agency of the United States must be approved in advance by the Company's State Counsel, Regional Counsel, or one of their designees.

END OF INFORMATIONAL NOTES

Dave Balassi (LA/Comm)/od

Wire Fraud Alert

This Notice is not intended to provide legal or professional advice. If you have any questions, please consult with a lawyer.

All parties to a real estate transaction are targets for wire fraud and many have lost hundreds of thousands of dollars because they simply relied on the wire instructions received via email, without further verification. **If funds are to be wired in conjunction with this real estate transaction, we strongly recommend verbal verification of wire instructions through a known, trusted phone number prior to sending funds.**

In addition, the following non-exclusive self-protection strategies are recommended to minimize exposure to possible wire fraud.

- **NEVER RELY** on emails purporting to change wire instructions. Parties to a transaction rarely change wire instructions in the course of a transaction.
- **ALWAYS VERIFY** wire instructions, specifically the ABA routing number and account number, by calling the party who sent the instructions to you. DO NOT use the phone number provided in the email containing the instructions, use phone numbers you have called before or can otherwise verify. **Obtain the phone number of relevant parties to the transaction as soon as an escrow account is opened**. DO NOT send an email to verify as the email address may be incorrect or the email may be intercepted by the fraudster.
- **USE COMPLEX EMAIL PASSWORDS** that employ a combination of mixed case, numbers, and symbols. Make your passwords greater than eight (8) characters. Also, change your password often and do NOT reuse the same password for other online accounts.
- **USE MULTI-FACTOR AUTHENTICATION** for email accounts. Your email provider or IT staff may have specific instructions on how to implement this feature.

For more information on wire-fraud scams or to report an incident, please refer to the following links:

Federal Bureau of Investigation:
http://www.fbi.gov

Internet Crime Complaint Center:
http://www.ic3.gov

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FIDELITY NATIONAL FINANCIAL, INC.
PRIVACY NOTICE

Effective January 1, 2020

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Collection of Personal Information

FNF may collect the following categories of Personal Information:

contact information (*e.g.*, name, address, phone number, email address);

demographic information (e.g., date of birth, gender, marital status);

- identity information (*e.g.* Social Security Number, driver's license, passport, or other government ID number);
- financial account information *(e.g.* loan or bank account information); and
- other personal information necessary to provide products or services to you.
-
- We may *collect Personal Information* about you from:
- information we receive from you or your agent;
- information about your transactions with FNF, our affiliates, or others; and
- information we receive from *consumer reporting* agencies and/or governmental entities, either directly from these entities or through others.
-
- Collection of Browsing Information
- FNF automatically collects the following types of Browsing Information when you access an FNF website, online service, or application (each an "FNF Website") from your Internet browser, computer, and/or device:

Internet Protocol (IP) address and operating system;
browser version, language, and type;
domain name system requests; and
browsing history on the FNF Website, such as date and time of your visit to the FNF Website and visits to the pages within the FNF Website.

-
- Like most websites, our servers automatically log each visitor to the FNF Website and may collect the Browsing Information described above. We use Browsing Information for system administration, troubleshooting, fraud investigation, and to improve our websites. Browsing Information generally does not reveal anything personal about you, though if you have created a user account for an FNF Website and are logged into that account, the FNF Website may be able to link certain browsing activity to your user account.
-
- Other Online Specifics
- Cookies. When you visit an FNF Website, a "cookie" may be sent to your computer. A cookie is a small piece of data that is sent to your Internet browser from a web server and stored on your computer's hard drive. Information gathered using cookies helps us improve your user experience. For example, a cookie can help the website load properly or can customize the display page based on your browser type and user preferences. You can choose whether or not to accept cookies by changing your Internet browser settings. Be aware that doing so may impair or limit some functionality of the FNF Website.
-
- Web Beacons. We use web beacons to determine when and how many times a page has been viewed. This information is used to improve our websites.
-
- Do Not Track. Currently our FNF Websites do not respond to "Do Not Track" features enabled through your browser.
-
- Links to Other Sites. FNF **Websites may contain links to unaffiliated third-party websites. FNF is not responsible for the privacy practices or content of those websites. We recommend that you read the privacy policy of every website you visit.**

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Use of Personal Information

FNF uses Personal Information for three main purposes:

To provide products and services to you or in connection with a transaction involving you.

- To improve our products and services.
- To communicate with you about our, our affiliates', and others' products and services, jointly or independently.
-
- When Information Is Disclosed
- We may disclose your Personal Information and Browsing Information in the following circumstances:
- to enable us to detect or prevent criminal activity, fraud, material misrepresentation, or nondisclosure;
- to nonaffiliated service providers who provide or perform services or functions on our behalf and who agree to use the information only to provide such services or functions;

to nonaffiliated third party service providers with whom we perform joint marketing, pursuant to an agreement with them to jointly market financial products or services to you;

to law enforcement or authorities in connection with an investigation, or in response to a subpoena or court order; or

in the good-faith belief that such disclosure is necessary to comply with legal process or applicable laws, or to protect the rights, property, or safety of FNF, its customers, or the public.

The law does not require your prior authorization and does not allow you to restrict the disclosures described above. Additionally, we may disclose your information to third parties for whom you have given us authorization or consent to make such disclosure. We do not otherwise share your Personal Information or Browsing Information with nonaffiliated third parties, except as required or permitted by law. We do share Personal Information among affiliates (other companies owned by FNF) to directly market to you. Please see "Choices with Your Information" to learn how to restrict that sharing.

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Security of Your Information

We maintain physical, electronic, and procedural safeguards to protect your Personal Information.

Choices With Your Information

If you do not want FNF to share your information among our affiliates to directly market to you, you may send an "opt out" request by email, phone, or physical mail as directed at the end of this Privacy Notice. We do not share your Personal Information with nonaffiliates for their use to direct market to you.

Whether you submit Personal Information or Browsing Information to FNF is entirely up to you. If you decide not to submit Personal Information or Browsing Information, FNF may not be able to provide certain services or products to you.

For California Residents: We will not share your Personal Information or Browsing Information with nonaffiliated third parties, except as permitted by California law. For additional information about your California privacy rights, please visit the "California Privacy" link on our website (https://fnf.com/pages/californiaprivacy.aspx) or call (888) 413-1748.

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For Oregon Residents: We will not share your Personal Information or Browsing Information with nonaffiliated third parties for marketing purposes, except after you have been informed by us of such sharing and had an opportunity to indicate that you do not want a disclosure made for marketing purposes.

For Vermont Residents: We will not disclose information about your creditworthiness to our affiliates and will not disclose your personal information, financial information, credit report, or health information to nonaffiliated third parties to market to you, other than as permitted by Vermont law, unless you authorize us to make those disclosures.

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FNF's headquarters is located within the United States. If you reside outside the United States and choose to provide Personal Information or Browsing Information to us, please note that we may transfer that information outside of your country of residence. By providing FNF with your Personal Information and/or Browsing Information, you consent to our collection, transfer, and use of such information in accordance with this Privacy Notice.

FNF Website Services for Mortgage Loans

Certain FNF companies provide services to mortgage loan servicers, including hosting websites that collect customer information on behalf of mortgage loan servicers (the "Service Websites"). The Service Websites may contain links to both this Privacy Notice and the mortgage loan servicer or lender's privacy notice. The sections of this Privacy Notice titled When Information is Disclosed, Choices with Your Information, and Accessing and Correcting Information do not apply to the Service Websites. The mortgage loan servicer or lender's privacy notice governs use, disclosure, and access to your Personal Information. FNF does not share Personal Information collected through the Service Websites, except as required or authorized by contract with the mortgage loan servicer or lender, or as required by law or in the good-faith belief that such disclosure is necessary: to comply with a legal process or applicable law, to enforce this Privacy Notice, or to protect the rights, property, or safety of FNF or the public.

-
- Your Consent To This Privacy Notice; Notice Changes; Use of Comments or Feedback
- By submitting Personal Information and/or Browsing Information to FNF, you consent to the collection and use of the information in accordance with this Privacy Notice. We may change this Privacy Notice at any time. The Privacy Notice's effective date will show the last date changes were made. If **you** provide information to us following any change of the Privacy Notice, that signifies your assent to and acceptance of the changes to the Privacy Notice. We may use comments or feedback that you submit to us in any manner without notice or compensation to you.
-
- Accessing and Correcting Information; Contact Us
- If you have questions, would like to correct your Personal Information, or want to opt-out of information sharing for affiliate marketing, send your requests to privacy@fnf.com, by phone to (888) 934-3354, or by mail to:
-
- Fidelity National Financial, Inc.
- 601 Riverside Avenue
- Jacksonville, Florida 32204
- Attn: Chief Privacy Officer
-

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Notice of Available Discounts

Pursuant to Section 2355.3 in Title 10 of the California Code of Regulations Fidelity National Financial, Inc. and its subsidiaries ("FNF") must deliver a notice of each discount available under our current rate filing along with the delivery of escrow instructions, a preliminary report or commitment. Please be aware that the provision of this notice does not constitute a waiver of the consumer's right to be charged the field rate. As such, your transaction may not qualify for the below discounts.

You are encouraged to discuss the applicability of one or more of the below discounts with a Company representative. These discounts are generally described below; consult the rate manual for a full description of the terms, conditions and requirements for each discount. These discounts only apply to transaction involving services rendered by the FNF Family of Companies. This notice only applies to transactions involving property improved with a one-to-four family residential dwelling.

FNF Underwritten Title Company
CTC - Chicago Title Company

FNF Underwriter
CTIC - Chicago Title Insurance Company

Available Discounts

CREDIT FOR PRELIMINARY REPORTS AND/OR COMMITMENTS ON SUBSEQUENT POLICIES (CTIC)
Where no major change in the title has occurred since the issuance of the original report or commitment, the order may be reopened within 12 months and all or a portion of the charge previously paid for the report or commitment may be credited on a subsequent policy charge within the following time period from the date of the report.

DISASTER LOANS (CTIC)
The charge for a lender's Policy (Standard or Extended coverage) covering the financing or refinancing by an owner of record, within 24 months of the date of a declaration of a disaster area by the government of the United States or the State of California on any land located in said area, which was partially or totally destroyed in the disaster, will be 50% of the appropriate title insurance rate.

CHURCHES OR CHARITABLE NON-PROFIT ORGANIZATIONS (CTIC)
On properties used as a church or for charitable purposes within the scope of the normal activities of such entities, provided said charge is normally the church's obligation the charge for an owner's policy shall be 50% to 70% of the appropriate title insurance rate, depending on the type of coverage selected. The charge for a lender's policy shall be 40% to 50% of the appropriate title insurance rate, depending on the type of coverage selected.

EMPLOYEE RATE (CTC and CTIC)
No charge shall be made to employees (including employees on approved retirement) of the Company or its underwritten, subsidiary title companies for policies or escrow services in connection with financing, refinancing, sale or purchase of the employees' bona fide home property. Waiver of such charges is authorized only in connection with those costs which the employee would be obligated to pay, by established custom, as a party to the transaction.

ATTACHMENT ONE

CALIFORNIA LAND TITLE ASSOCIATION
STANDARD COVERAGE POLICY – 1990

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building or zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien, or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
   (b) Any governmental police power not excluded by (a) above, except to the extent that a notice of the exercise thereof or notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.
3. Defects, liens, encumbrances, adverse claims or other matters:
   (a) whether or not recorded in the public records at Date of Policy, but created, suffered, assumed or agreed to by the insured claimant;
   (b) not known to the Company, not recorded in the public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;
   (c) resulting in no loss or damage to the insured claimant;
   (d) attaching or created subsequent to Date of Policy; or
   (e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the insured mortgage or for the estate or interest insured by this policy.
4. Unenforceability of the lien of the insured mortgage because of the inability or failure of the insured at Date of Policy, or the inability or failure of any subsequent owner of the indebtedness, to comply with the applicable doing business laws of the state in which the land is situated.
5. Invalidity or unenforceability of the lien of the insured mortgage, or claim thereof, which arises out of the transaction evidenced by the insured mortgage and is based upon usury or any consumer credit protection or truth in lending law.
6. Any claim, which arises out of the transaction vesting in the insured the estate of interest insured by this policy or the transaction creating the interest of the insured lender, by reason of the operation of federal bankruptcy, state insolvency or similar creditors' rights laws.

EXCEPTIONS FROM COVERAGE - SCHEDULE B, PART I

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records.
   Proceedings by a public agency which may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the public records.
2. Any facts, rights, interests, or claims which are not shown by the public records but which could be ascertained by an inspection of the land or which may be asserted by persons in possession thereof.
3. Easements, liens or encumbrances, or claims thereof, not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by the public records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b) or (c) are shown by the public records.
6. Any lien or right to a lien for services, labor or material not shown by the public records.

CLTA HOMEOWNER'S POLICY OF TITLE INSURANCE (12-02-13)
ALTA HOMEOWNER'S POLICY OF TITLE INSURANCE

EXCLUSIONS

In addition to the Exceptions in Schedule B, You are not insured against loss, costs, attorneys' fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of those portions of any law or government regulation concerning:
   a. building;
   b. zoning;
   c. land use;
   d. improvements on the Land;
   e. land division; and
   f. environmental protection.

   This Exclusion does not limit the coverage described in Covered Risk 8.a., 14, 15, 16, 18, 19, 20, 23 or 27.
2. The failure of Your existing structures, or any part of them, to be constructed in accordance with applicable building codes. This Exclusion does not limit the coverage described in Covered Risk 14 or 15.
3. The right to take the Land by condemning it. This Exclusion does not limit the coverage described in Covered Risk 17.
4. Risks:
   a. that are created, allowed, or agreed to by You, whether or not they are recorded in the Public Records;
   b. that are Known to You at the Policy Date, but not to Us, unless they are recorded in the Public Records at the Policy Date;
   c. that result in no loss to You; or
   d. that first occur after the Policy Date - this does not limit the coverage described in Covered Risk 7, 8.e., 25, 26, 27 or 28.
5. Failure to pay value for Your Title.
6. Lack of a right:
   a. to any land outside the area specifically described and referred to in paragraph 3 of Schedule A; and
   b. in streets, alleys, or waterways that touch the Land.

   This Exclusion does not limit the coverage described in Covered Risk 11 or 21.
7. The transfer of the Title to You is invalid as a preferential transfer or as a fraudulent transfer or conveyance under federal bankruptcy, state insolvency, or similar creditors' rights laws.
8. Contamination, explosion, fire, flooding, vibration, fracturing, earthquake, or subsidence.
9. Negligence by a person or an Entity exercising a right to extract or develop minerals, water, or any other substances.

LIMITATIONS ON COVERED RISKS

Your insurance for the following Covered Risks is limited on the Owner's Coverage Statement as follows:

- For Covered Risk 16, 18, 19, and 21 Your Deductible Amount and Our Maximum Dollar Limit of Liability shown in Schedule A.

The deductible amounts and maximum dollar limits shown on Schedule A are as follows:

	Your Deductible Amount	Our Maximum Dollar Limit of Liability
Covered Risk 16:	1.00% % of Policy Amount Shown in Schedule A or $2,500.00 (whichever is less)	$ 10,000.00
Covered Risk 18:	1.00% % of Policy Amount Shown in Schedule A or $5,000.00 (whichever is less)	$ 25,000.00
Covered Risk 19:	1.00% of Policy Amount Shown in Schedule A or $5,000.00 (whichever is less)	$ 25,000.00
Covered Risk 21:	1.00% of Policy Amount Shown in Schedule A or $2,500.00 (whichever is less)	$ 5,000.00

2006 ALTA LOAN POLICY (06-17-06)

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
   (i) the occupancy, use, or enjoyment of the Land;
   (ii) the character, dimensions, or location of any improvement erected on the Land;
   (iii) the subdivision of land; or
   (iv) environmental protection;

   or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.

(b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
   (a) created, suffered, assumed, or agreed to by the Insured Claimant;
   (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
   (c) resulting in no loss or damage to the Insured Claimant;
   (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 13 or 14); or
   (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law.
6. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
   (a) a fraudulent conveyance or fraudulent transfer, or
   (b) a preferential transfer for any reason not stated in Covered Risk 13(b) of this policy.
7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the Insured Mortgage in the Public Records. This Exclusion does not modify or limit the coverage provided under Covered Risk 11(b).

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

EXCEPTIONS FROM COVERAGE

(Except as provided in Schedule B - Part II,(t(or T)his policy does not insure against loss or damage, and the Company will not pay costs, attorneys' fees or expenses, that arise by reason of:

(PART I

(The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
6. Any lien or right to a lien for services, labor or material not shown by the Public Records.

PART II

In addition to the matters set forth in Part I of this Schedule, the Title is subject to the following matters, and the Company insures against loss or damage sustained in the event that they are not subordinate to the lien of the Insured Mortgage:)

2006 ALTA OWNER'S POLICY (06-17-06)

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
   (i) the occupancy, use, or enjoyment of the Land;
   (ii) the character, dimensions, or location of any improvement erected on the Land;
   (iii) the subdivision of land; or
   (iv) environmental protection;

or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.

(b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.

2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
   (a) created, suffered, assumed, or agreed to by the Insured Claimant;
   (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
   (c) resulting in no loss or damage to the Insured Claimant;
   (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 9 and 10); or
   (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Title.
4. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction vesting the Title as shown in Schedule A, is
   (a) a fraudulent conveyance or fraudulent transfer; or
   (b) a preferential transfer for any reason not stated in Covered Risk 9 of this policy.
5. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the deed or other instrument of transfer in the Public Records that vests Title as shown in Schedule A.

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage, and the Company will not pay costs, attorneys' fees or expenses, that arise by reason of:

(The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown in the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and that are not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
6. Any lien or right to a lien for services, labor or material not shown by the Public Records.
7. (Variable exceptions such as taxes, easements, CC&R's, etc. shown here.)

ALTA EXPANDED COVERAGE RESIDENTIAL LOAN POLICY (12-02-13)

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
   (i) the occupancy, use, or enjoyment of the Land;
   (ii) the character, dimensions, or location of any improvement erected on the Land;
   (iii) the subdivision of land; or
   (iv) environmental protection;
   or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.
   (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
   (a) created, suffered, assumed, or agreed to by the Insured Claimant;

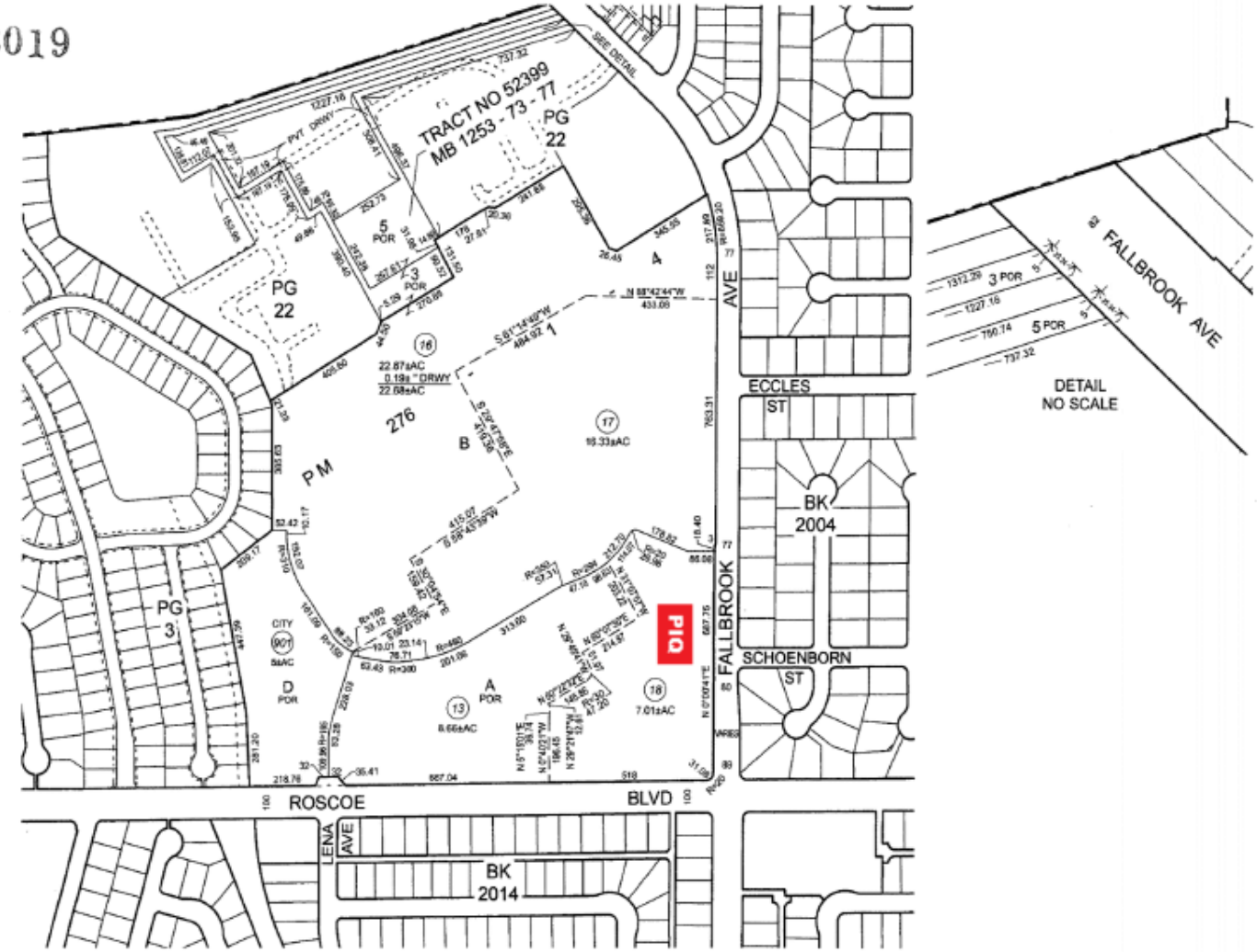
(b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
(c) resulting in no loss or damage to the Insured Claimant;
(d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27 or 28); or
(e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.

4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury, or any consumer credit protection or truth-in-lending law. This Exclusion does not modify or limit the coverage provided in Covered Risk 26.
6. Any claim of invalidity, unenforceability or lack of priority of the lien of the Insured Mortgage as to Advances or modifications made after the Insured has Knowledge that the vestee shown in Schedule A is no longer the owner of the estate or interest covered by this policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11.
7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching subsequent to Date of Policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11(b) or 25.
8. The failure of the residential structure, or any portion of it, to have been constructed before, on or after Date of Policy in accordance with applicable building codes. This Exclusion does not modify or limit the coverage provided in Covered Risk 5 or 6.
9. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
   (a) a fraudulent conveyance or fraudulent transfer, or
   (b) a preferential transfer for any reason not stated in Covered Risk 27(b) of this policy.
10. Contamination, explosion, fire, flooding, vibration, fracturing, earthquake, or subsidence.
11. Negligence by a person or an Entity exercising a right to extract or develop minerals, water, or any other substances.

2005	2 SHEET	P. A. 2005-22 2011-27	TRA 16	REVISED: 671204059 9706110500100 1-29	9706110500100 2-29 9707210400300 1-29 9710160300500 1-29	9710160300500 2-29 2000121104002001-29 2003071107006001-23, 29	2016122002008001-23 2016122002008002-23 2018090602001001-23	2018090602001002-23	SEARCH NO		OFFICE OF THE ASSESSOR COUNTY OF LOS ANGELES COPYRIGHT © 2002

This map/plat is being furnished as an aid in locating the herein described Land in relation to adjoining streets, natural boundaries and other land, and is not a survey of the land depicted. Except to the extent a policy of title insurance is expressly modified by endorsement, if any, the Company does not insure dimensions, distances, location of easements, acreage or other matters shown thereon.

2019



DATE PRINTED: 9/5/2018 11:10:34 AM
DATE SAVED: 9/5/2018 11:10:29 AM

OWNER'S DECLARATION

Escrow No.: 00098937-994-LT2-DB
Property Address: APN 2005-002-018
Los Angeles, CA

The undersigned hereby declares as follows:

1. (Fill in the applicable paragraph and strike the other)

   a. Declarant ("Owner") is the owner or lessee, as the case may be, of certain premises located at APN 2005-002-018, Los Angeles, CA, further described as follows: See Preliminary Report/Commitment No. for full legal description (the "Land").

   b. Declarant is the _____ of _____ ("Owner"), which is the owner or lessee, as the case may be, of certain premises located at APN 2005-002-018, Los Angeles, CA, further described as follows: See Preliminary Report/Commitment No. for full legal description (the "Land").

2. (Fill in the applicable paragraph and strike the other)

   a. During the period of six months immediately preceding the date of this declaration no work has been done, no surveys or architectural or engineering plans have been prepared, and no materials have been furnished in connection with the erection, equipment, repair, protection or removal of any building or other structure on the Land or in connection with the improvement of the Land in any manner whatsoever.

   b. During the period of six months immediately preceding the date of this declaration certain work has been done and materials furnished in connection with _____ upon the Land in the approximate total sum of $_____, but no work whatever remains to be done and no materials remain to be furnished to complete the construction in full compliance with the plans and specifications, nor are there any unpaid bills incurred for labor and materials used in making such improvements or repairs upon the Land, or for the services of architects, surveyors or engineers, except as follows: _____. Owner, by the undersigned Declarant, agrees to and does hereby indemnify and hold harmless Chicago Title Company against any and all claims arising therefrom.

3. Owner has not previously conveyed the Land; is not a debtor in bankruptcy (and if a partnership, the general partner thereof is not a debtor in bankruptcy); and has not received notice of any pending court action affecting the title to the Land.

4. Except as shown in the above-referenced Preliminary Report/Commitment, there are no unpaid or unsatisfied mortgages, deeds of trust, Uniform Commercial Code financing statements, regular assessments, special assessments, periodic assessments or any assessment from any source, claims of lien, special assessments, or taxes that constitute a lien against the Land or that affect the Land but have not been recorded in the public records. There are no violations of the covenants, conditions and restrictions as shown in the above-referenced Preliminary Report/Commitment.

5. The Land is currently in use as _____; _____ occupy/occupies the Land; and the following are all of the leases or other occupancy rights affecting the Land:

   _____

6. There are no other persons or entities that assert an ownership interest in the Land, nor are there unrecorded easements, claims of easement, or boundary disputes that affect the Land.

7. There are no outstanding options to purchase or rights of first refusal affecting the Land.

8. Between the most recent Effective Date of the above-referenced Preliminary Report/Commitment and the date of recording of the Insured Instrument(s), Owner has not taken or allowed, and will not take or allow, any action or inaction to encumber or otherwise affect title to the Land.

This declaration is made with the intention that Chicago Title Company (the "Company") and its policy issuing agents will rely upon it in issuing their title insurance policies and endorsements. Owner, by the undersigned Declarant, agrees to indemnify the Company against loss or damage (including attorneys fees, expenses, and costs) incurred by the Company as a result of any untrue statement made herein.

I declare under penalty of perjury that the foregoing is true and correct and that this declaration was executed on _____ at _____.

Signature: _____

APPENDIX C: REGULATORY DATABASE REPORT

PARTNER

West Hills Staley Point
NW Corner of Roscoe Boulevard & Fallbrook Avenue
Canoga Park, CA 91304

Inquiry Number: 6142433.2s
August 03, 2020

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	9
Orphan Summary	252
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-8
Physical Setting Source Map Findings	A-10
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

NW CORNER OF ROSCOE BOULEVARD & FALLBROOK AVENUE
CANOGA PARK, CA 91304

COORDINATES

Latitude (North):	34.2204730 - 34° 13' 13.70''
Longitude (West):	118.6283220 - 118° 37' 41.95''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	350006.7
UTM Y (Meters):	3787605.8
Elevation:	842 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5630735 CALABASAS, CA
Version Date:	2012
Southeast Map:	5630737 CANOGA PARK, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140531
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
NW CORNER OF ROSCOE BOULEVARD & FALLBROOK AVENUE
CANOGA PARK, CA 91304

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	QUEST DIAGNOSTICS IN	8401 FALLBROOK AVENU	CERS HAZ WASTE, HAZNET, CERS, HWTS	Higher	1 ft.
A2	QUEST DIAGNOSTICS IN	8401 FALLBROOK AVENU	RCRA-LQG	Higher	1 ft.
A3	AT&T MOBILITY - TRAM	8401 FALLBROOK AVE U	HAZMAT	Higher	1 ft.
B4	THERMO FISHER SCIENT	22801 ROSCOE BLVD	RCRA NonGen / NLR	Higher	1 ft.
B5	THERMO FISHER SCIENT	22801 ROSCOE BLVD	CERS HAZ WASTE, CERS TANKS, CERS	Higher	1 ft.
A6	QUEST DIAGNOSTICS	8401 FALLBROOK AVENU	AST	Higher	1 ft.
C7	HUGHES AIRCRAFT CO	8433 N FALLBROOK AVE	UST	Higher	12, 0.002, NE
C8	MISSLE SYSTEMS GROUP	8433 FALLBROOK AVE	HIST UST	Higher	12, 0.002, NE
C9	MISSILE SYSTEMS GROU	8433 FALLBROOK AVE	CPS-SLIC, HIST UST, EMI, NPDES, CIWQS, CERS	Higher	12, 0.002, NE
C10	HUGHES AIRCRAFT COMP	8433 FALLBROOK AVENU	SEMS-ARCHIVE, CORRACTS, RCRA-TSDF, RCRA-SQG,...	Higher	12, 0.002, NE
C11	HUGHES AIRCRAFT CO	8433 N FALLBROOK AVE	HAZMAT	Higher	12, 0.002, NE
C12	MISSILE SYSTEMS JGRO	8433 FALLBROOK AVENU	CPS-SLIC, HIST UST	Higher	12, 0.002, NE
C13	HUGHES AIRCRAFT COMP	8433 FALLBROOK AVE	SWEEPS UST, CA FID UST, CERS	Higher	12, 0.002, NE
D14	QBE AMERICAS INC	8407 FALLBROOK AVE	HAZMAT, CERS	Higher	13, 0.002, ENE
D15	QUEST DIAGNOSTICS	8403 N FALLBROOK AVE	AST	Higher	14, 0.003, ENE
D16	QUEST DIAGNOSTICS	8403 FALLBROOK AVENU	RCRA-LQG	Higher	14, 0.003, ENE
D17	QUEST DIAGNOSTICS	8403 FALLBROOK AVE	AST, CERS HAZ WASTE, CERS TANKS, HAZMAT	Higher	14, 0.003, ENE
E18	LAPD - DISPATCH CENT	23001 W ROSCOE BLVD	UST	Lower	16, 0.003, South
E19	LAPD - DISPATCH CENT	23001 W ROSCOE BLVD	CERS TANKS, HAZMAT, CERS	Lower	16, 0.003, South
E20	LA FIRE STATION 106	23004 ROSCOE BLVD	RCRA-SQG, FINDS	Lower	56, 0.011, South
E21	LAFD - FIRE STATION	23004 W ROSCOE BLVD	CERS HAZ WASTE, CERS	Lower	56, 0.011, South
E22	LA CITY FIRE STATION	23004 ROSCOE BLVD	LUST, Cortese, CERS	Lower	56, 0.011, South
E23	LA CITY FIRE STATION	23004 ROSCOE BLVD	LUST	Lower	56, 0.011, South
E24	LAFD - FIRE STATION	23004 ROSCOE BLVD	UST	Lower	56, 0.011, South
E25	CITY OF LA GENERAL S	23004 ROSCOE BLVD	SWEEPS UST, CA FID UST, HAZNET, HAZMAT, HWTS	Lower	56, 0.011, South
26	ENRIQUE VARGAS	8418 SAMRA DR	RCRA NonGen / NLR	Higher	154, 0.029, North
27	DOOR TO DOOR XPRESS	8239 FALLBROOK AVE	EDR Hist Cleaner	Lower	202, 0.038, ESE
28	TURELK INC	8501 FALLBROOK AVE	HAZNET, HAZMAT, HWTS	Higher	232, 0.044, NNE
F29	HUGHES AIRCRAFT CO.	22750 W ROSCOE BLVD	HAZMAT	Higher	295, 0.056, ESE
F30	FAULKNER HARRY & DOL	22750 ROSCOE BLVD	EDR Hist Auto	Higher	295, 0.056, ESE
G31	SOURCE PHOTONICS USA	8521 FALLBROOK AVE S	HAZMAT, CERS	Higher	319, 0.060, North
G32	SOURCE PHOTONICS	8521 FALLBROOK AVENU	RCRA NonGen / NLR	Higher	319, 0.060, North
G33	BSREP WEST HILLS OFF	8521 FALLBROOK AVE	RCRA NonGen / NLR	Higher	319, 0.060, North
G34	SOURCE PHOTONICS	8521 FALLBROOK, SUIT	RCRA NonGen / NLR	Higher	319, 0.060, North
G35	CP WEST HILLS LLC	8521 FALLBROOK AVE S	RCRA NonGen / NLR	Higher	319, 0.060, North
H36	ALEX MOIN	22727 RODAX ST	RCRA NonGen / NLR	Higher	320, 0.061, NE
I37	ROCKWELL AID /C	8500 FALLBROOK AVE	SWEEPS UST, CA FID UST	Higher	346, 0.066, NE
I38	ROCKWELL AID	8500 FALLBROOK AVE	RCRA-SQG, FINDS, ECHO	Higher	346, 0.066, NE
I39	THE OAKS AT WEST HIL	8500 NORTH FALLBROOK	NPDES, HAZMAT, CIWQS, CERS	Higher	346, 0.066, NE

MAPPED SITES SUMMARY

Target Property Address:
NW CORNER OF ROSCOE BOULEVARD & FALLBROOK AVENUE
CANOGA PARK, CA 91304

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
I40	PRATT & WHITNEY ROCK	8500 FALLBROOK AVE	CERS HAZ WASTE, HAZNET, HWTS	Higher	346, 0.066, NE
H41	WEBB, WILLIAM H & JA	22718 RODAZ	HIST CORTESE	Higher	416, 0.079, ENE
J42	EMMY ISBELL	22950 BURTON ST	RCRA NonGen / NLR	Lower	443, 0.084, SSE
43	VICTOR OCAMPO	22840 BURTON ST	RCRA NonGen / NLR	Lower	463, 0.088, SE
J44	VERONICA ALLEN	8210 LENA AVE	RCRA NonGen / NLR	Lower	554, 0.105, SSE
J45	MIA BEHZADIAN	8215 LENA AVE	RCRA NonGen / NLR	Lower	573, 0.109, South
K46	LAKEVIEW CLEANERS	22736 W ROSCOE BLVD	CERS HAZ WASTE, HAZMAT	Lower	625, 0.118, East
K47	LAKEVIEW CLEANERS	22736 ROSCOE BLVD	RCRA NonGen / NLR	Lower	625, 0.118, East
K48	LAKEVIEW CLEANERS	22736 ROSCOE BLV	EDR Hist Cleaner	Lower	625, 0.118, East
K49	LAKE VIEW CLEANERS	22736 ROSCOE BLVD	DRYCLEANERS	Lower	625, 0.118, East
K50	LAKEVIEW CLEANERS	22736 ROSCOE BLVD	RCRA-SQG, FINDS, ECHO, DRYCLEANERS, HAZNET, HWTS	Lower	625, 0.118, East
K51	WEST HILLS POOL SUPP	22726 ROSCOE BLVD	HAZMAT, CERS	Lower	670, 0.127, East
52	STEPHEN LEPIRE	8410 PONCE AVE	RCRA NonGen / NLR	Higher	731, 0.138, ENE
53	RACHEL & OWEN DICKSO	22711 NAPA ST.	RCRA NonGen / NLR	Higher	798, 0.151, NE
54	KERMIN ROCHMAN	8118 MCLAREN AVE	RCRA NonGen / NLR	Lower	837, 0.159, SE
55	SAM HANACHI	8423 SEDAN AVE	RCRA NonGen / NLR	Higher	917, 0.174, NW
L56	RODGERS	8442 SEDAN AVE	RCRA NonGen / NLR	Higher	1031, 0.195, NW
57	K CHERIE MURRAY DBA	8551 FAUST AVE	RCRA NonGen / NLR, FINDS, ECHO	Higher	1097, 0.208, NE
58		8028 FALLBROOK AVE	UST	Lower	1126, 0.213, SE
L59	PAULA SYNODINOS	8460 SEDAN AVE	RCRA NonGen / NLR	Higher	1305, 0.247, NW
60	WEST VALLEY HOSPITAL	22141 ROSCOE BOULEVA	ENVIROSTOR	Lower	4256, 0.806, East

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal RCRA generators list

RCRA-VSQG ---------- RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROLS ---------- Institutional Controls Sites List

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ---------- State Response Sites

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ---------- Solid Waste Information System

EXECUTIVE SUMMARY

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST ---------- Underground Storage Tank Listing
INDIAN UST ---------- Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

VCP ---------- Voluntary Cleanup Program Properties
INDIAN VCP ---------- Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS ---------- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT ---------- Waste Management Unit Database
SWRCY ---------- Recycler Database
HAULERS ---------- Registered Waste Tire Haulers Listing
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
ODI ---------- Open Dump Inventory
IHS OPEN DUMPS ---------- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

AOCONCERN ---------- Key Areas of Concerns in Los Angeles County
US HIST CDL ---------- Delisted National Clandestine Laboratory Register
HIST Cal-Sites ---------- Historical Calsites Database
SCH ---------- School Property Evaluation Program
CDL ---------- Clandestine Drug Labs
Toxic Pits ---------- Toxic Pits Cleanup Act Sites
US CDL ---------- National Clandestine Laboratory Register
PFAS ---------- PFAS Contamination Site Location Listing

Local Land Records

LIENS ---------- Environmental Liens Listing
LIENS 2 ---------- CERCLA Lien Information
DEED ---------- Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ---------- Hazardous Materials Information Reporting System

CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
FINDS	Facility Index System/Facility Registry System
UXO	Unexploded Ordnance Sites
ECHO	Enforcement & Compliance History Information
DOCKET HWC	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
CUPA Listings	CUPA Resources List
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
HAZNET	Facility and Manifest Data
ICE	ICE
LOS ANGELES CO. HMS	HMS: Street Number List
HWT	Registered Hazardous Waste Transporter Database
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing

NPDES ---- NPDES Permits Listing
PEST LIC ---- Pesticide Regulation Licenses Listing
PROC ---- Certified Processors Database
Notify 65 ---- Proposition 65 Records
LA Co. Site Mitigation ---- Site Mitigation List
UIC ---- UIC Listing
UIC GEO ---- UIC GEO (GEOTRACKER)
WASTEWATER PITS ---- Oil Wastewater Pits Listing
WDS ---- Waste Discharge System
WIP ---- Well Investigation Program Case List
MILITARY PRIV SITES ---- MILITARY PRIV SITES (GEOTRACKER)
PROJECT ---- PROJECT (GEOTRACKER)
WDR ---- Waste Discharge Requirements Listing
CIWQS ---- California Integrated Water Quality System
CERS ---- CERS
NON-CASE INFO ---- NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS ---- OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS ---- PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT ---- SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ ---- Well Stimulation Project (GEOTRACKER)
HWTS ---- Hazardous Waste Tracking System
LOS ANGELES CO LF METHANE ---- Methane Producing Landfills
MINES MRDS ---- Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP ---- EDR Proprietary Manufactured Gas Plants

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF ---- Recovered Government Archive Solid Waste Facilities List
RGA LUST ---- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 04/27/2020 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUGHES AIRCRAFT COMP Site ID: 0903304 EPA Id: CAD041162124	***8433 FALLBROOK AVENU***	***NE 0 - 1/8 (0.002 mi.)***	***C10***	***86***

Federal RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 03/23/2020 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUGHES AIRCRAFT COMP EPA ID:: CAD041162124	***8433 FALLBROOK AVENU***	***NE 0 - 1/8 (0.002 mi.)***	***C10***	***86***

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-TSDF list, as provided by EDR, and dated 03/23/2020 has revealed that there is 1

RCRA-TSDF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUGHES AIRCRAFT COMP EPA ID:: CAD041162124	***8433 FALLBROOK AVENU***	***NE 0 - 1/8 (0.002 mi.)***	***C10***	***86***

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/23/2020 has revealed that there are 2 RCRA-LQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
QUEST DIAGNOSTICS IN EPA ID:: CAR000164962	8401 FALLBROOK AVENU	0 - 1/8 (0.000 mi.)	A2	66
QUEST DIAGNOSTICS EPA ID:: CAR000164996	8403 FALLBROOK AVENU	ENE 0 - 1/8 (0.003 mi.)	D16	125

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/23/2020 has revealed that there are 4 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUGHES AIRCRAFT COMP EPA ID:: CAD041162124	***8433 FALLBROOK AVENU***	***NE 0 - 1/8 (0.002 mi.)***	***C10***	***86***
ROCKWELL AID EPA ID:: CAD982412959	***8500 FALLBROOK AVE***	***NE 0 - 1/8 (0.066 mi.)***	***I38***	***189***

Lower Elevation	Address	Direction / Distance	Map ID	Page
LA FIRE STATION 106 EPA ID:: CAD981964208	***23004 ROSCOE BLVD***	***S 0 - 1/8 (0.011 mi.)***	***E20***	***156***
LAKEVIEW CLEANERS EPA ID:: CAD981639297	***22736 ROSCOE BLVD***	***E 0 - 1/8 (0.118 mi.)***	***K50***	***224***

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 04/27/2020 has revealed that there are 2 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUGHES AIRCRAFT COMP	***8433 FALLBROOK AVENU***	***NE 0 - 1/8 (0.002 mi.)***	***C10***	***86***
Facility Id: 19360344				
Facility Id: 80001366				
Status: Refer: RCRA				
Status: Active				

Lower Elevation	Address	Direction / Distance	Map ID	Page
WEST VALLEY HOSPITAL	22141 ROSCOE BOULEVA	E 1/2 - 1 (0.806 mi.)	60	250
Facility Id: 19800031				
Status: No Action Required				

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 3 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUGHES AIRCRAFT COMP	***8433 FALLBROOK AVENU***	***NE 0 - 1/8 (0.002 mi.)***	***C10***	***86***
Database: LUST REG 4, Date of Government Version: 09/07/2004				
Facility Id: 913040352				
Status: Remedial action (cleanup) Underway				
Global ID: T0603702098				

Lower Elevation	Address	Direction / Distance	Map ID	Page
LA CITY FIRE STATION	***23004 ROSCOE BLVD***	***S 0 - 1/8 (0.011 mi.)***	***E22***	***162***
Database: LUST REG 4, Date of Government Version: 09/07/2004				
Facility Id: 913040670				
Status: Leak being confirmed				

Global ID: T0603793051

LA CITY FIRE STATION	23004 ROSCOE BLVD	S 0 - 1/8 (0.011 mi.)	E23	164

Database: LUST, Date of Government Version: 05/13/2020
Status: Completed - Case Closed
Global Id: T0603793051

CPS-SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the CPS-SLIC list, as provided by EDR, has revealed that there are 3 CPS-SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MISSILE SYSTEMS GROU	***8433 FALLBROOK AVE***	***NE 0 - 1/8 (0.002 mi.)***	***C9***	***77***

Database: CPS-SLIC, Date of Government Version: 05/13/2020
Facility Status: Open - Eligible for Closure
Global Id: T10000011111

HUGHES AIRCRAFT COMP	***8433 FALLBROOK AVENU***	***NE 0 - 1/8 (0.002 mi.)***	***C10***	***86***

Database: CPS-SLIC, Date of Government Version: 05/13/2020
Facility Status: Open - Remediation
Global Id: SL2043T1572

MISSILE SYSTEMS JGRO	***8433 FALLBROOK AVENU***	***NE 0 - 1/8 (0.002 mi.)***	***C12***	***116***

Database: SLIC REG 4, Date of Government Version: 11/17/2004
Facility Status: Remediation

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 4 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUGHES AIRCRAFT CO	8433 N FALLBROOK AVE	NE 0 - 1/8 (0.002 mi.)	C7	76

Database: LOS ANGELES UST, Date of Government Version: 06/01/2019

Lower Elevation	Address	Direction / Distance	Map ID	Page
LAPD - DISPATCH CENT	23001 W ROSCOE BLVD	S 0 - 1/8 (0.003 mi.)	E18	146

Database: UST, Date of Government Version: 03/09/2020
Database: LOS ANGELES UST, Date of Government Version: 06/01/2019
Facility Id: FA0036351

LAFD - FIRE STATION	23004 ROSCOE BLVD	S 0 - 1/8 (0.011 mi.)	E24	166

Database: LOS ANGELES UST, Date of Government Version: 06/01/2019

Not reported	8028 FALLBROOK AVE	SE 1/8 - 1/4 (0.213 mi.)	58	248

Database: LOS ANGELES UST, Date of Government Version: 06/01/2019

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, has revealed that there are 3 AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
QUEST DIAGNOSTICS Database: AST, Date of Government Version: 07/06/2016	8401 FALLBROOK AVENU	0 - 1/8 (0.000 mi.)	A6	75
QUEST DIAGNOSTICS Database: AST, Date of Government Version: 07/06/2016	8403 N FALLBROOK AVE	ENE 0 - 1/8 (0.003 mi.)	D15	124
QUEST DIAGNOSTICS Database: LOS ANGELES AST, Date of Government Version: 06/01/2019	***8403 FALLBROOK AVE***	***ENE 0 - 1/8 (0.003 mi.)***	***D17***	***127***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 04/20/2020 has revealed that there are 6 CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
QUEST DIAGNOSTICS IN	***8401 FALLBROOK AVENU***	***0 - 1/8 (0.000 mi.)***	***A1***	***9***
THERMO FISHER SCIENT	***22801 ROSCOE BLVD***	***0 - 1/8 (0.000 mi.)***	***B5***	***72***
QUEST DIAGNOSTICS	***8403 FALLBROOK AVE***	***ENE 0 - 1/8 (0.003 mi.)***	***D17***	***127***
PRATT & WHITNEY ROCK	***8500 FALLBROOK AVE***	***NE 0 - 1/8 (0.066 mi.)***	***I40***	***200***

Lower Elevation	Address	Direction / Distance	Map ID	Page
LAFD - FIRE STATION	***23004 W ROSCOE BLVD***	***S 0 - 1/8 (0.011 mi.)***	***E21***	***158***
LAKEVIEW CLEANERS	***22736 W ROSCOE BLVD***	***E 0 - 1/8 (0.118 mi.)***	***K46***	***218***

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 3 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUGHES AIRCRAFT COMP Comp Number: 1994	***8433 FALLBROOK AVE***	***NE 0 - 1/8 (0.002 mi.)***	***C13***	***117***
ROCKWELL AID /C	***8500 FALLBROOK AVE***	***NE 0 - 1/8 (0.066 mi.)***	***I37***	***188***

Comp Number: 7377

Lower Elevation	Address	Direction / Distance	Map ID	Page
CITY OF LA GENERAL S	***23004 ROSCOE BLVD***	***S 0 - 1/8 (0.011 mi.)***	***E25***	***166***
Status: A Tank Status: A Comp Number: 6188				

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 3 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MISSLE SYSTEMS GROUP Facility Id: 00000050582	8433 FALLBROOK AVE	NE 0 - 1/8 (0.002 mi.)	C8	76
MISSILE SYSTEMS GROU Facility Id: 00000035465	***8433 FALLBROOK AVE***	***NE 0 - 1/8 (0.002 mi.)***	***C9***	***77***
MISSILE SYSTEMS JGRO	***8433 FALLBROOK AVENU***	***NE 0 - 1/8 (0.002 mi.)***	***C12***	***116***

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 3 CA FID UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUGHES AIRCRAFT COMP Facility Id: 19001041 Status: I	***8433 FALLBROOK AVE***	***NE 0 - 1/8 (0.002 mi.)***	***C13***	***117***
ROCKWELL AID /C Facility Id: 19033210 Status: A	***8500 FALLBROOK AVE***	***NE 0 - 1/8 (0.066 mi.)***	***I37***	***188***

Lower Elevation	Address	Direction / Distance	Map ID	Page
CITY OF LA GENERAL S Facility Id: 19024479 Status: A	***23004 ROSCOE BLVD***	***S 0 - 1/8 (0.011 mi.)***	***E25***	***166***

CERS TANKS: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

A review of the CERS TANKS list, as provided by EDR, and dated 04/20/2020 has revealed that there are 3 CERS TANKS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
THERMO FISHER SCIENT	***22801 ROSCOE BLVD***	***0 - 1/8 (0.000 mi.)***	***B5***	***72***
QUEST DIAGNOSTICS	***8403 FALLBROOK AVE***	***ENE 0 - 1/8 (0.003 mi.)***	***D17***	***127***

Lower Elevation	Address	Direction / Distance	Map ID	Page
LAPD - DISPATCH CENT	***23001 W ROSCOE BLVD***	***S 0 - 1/8 (0.003 mi.)***	***E19***	***147***

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/23/2020 has revealed that there are 19 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
THERMO FISHER SCIENT EPA ID:: CAL000436439	22801 ROSCOE BLVD	0 - 1/8 (0.000 mi.)	B4	70
ENRIQUE VARGAS EPA ID:: CAC003034939	8418 SAMRA DR	N 0 - 1/8 (0.029 mi.)	26	176
SOURCE PHOTONICS EPA ID:: CAC002983378	8521 FALLBROOK AVENU	N 0 - 1/8 (0.060 mi.)	G32	182
BSREP WEST HILLS OFF EPA ID:: CAL000384468	8521 FALLBROOK AVE	N 0 - 1/8 (0.060 mi.)	G33	183
SOURCE PHOTONICS EPA ID:: CAC003020869	8521 FALLBROOK, SUIT	N 0 - 1/8 (0.060 mi.)	G34	185
CP WEST HILLS LLC EPA ID:: CAL000448711	8521 FALLBROOK AVE S	N 0 - 1/8 (0.060 mi.)	G35	186
ALEX MOIN EPA ID:: CAC003048142	22727 RODAX ST	NE 0 - 1/8 (0.061 mi.)	H36	187
STEPHEN LEPIRE EPA ID:: CAC003029102	8410 PONCE AVE	ENE 1/8 - 1/4 (0.138 mi.)	52	240
RACHEL & OWEN DICKSO EPA ID:: CAC003006991	22711 NAPA ST.	NE 1/8 - 1/4 (0.151 mi.)	53	241
SAM HANACHI EPA ID:: CAC002966017	8423 SEDAN AVE	NW 1/8 - 1/4 (0.174 mi.)	55	244
RODGERS EPA ID:: CAC003011571	8442 SEDAN AVE	NW 1/8 - 1/4 (0.195 mi.)	L56	245
K CHERIE MURRAY DBA EPA ID:: CAR000092544	***8551 FAUST AVE***	***NE 1/8 - 1/4 (0.208 mi.)***	***57***	***246***
PAULA SYNODINOS EPA ID:: CAC002995545	8460 SEDAN AVE	NW 1/8 - 1/4 (0.247 mi.)	L59	248

Lower Elevation	Address	Direction / Distance	Map ID	Page
EMMY ISBELL EPA ID:: CAC003055855	22950 BURTON ST	SSE 0 - 1/8 (0.084 mi.)	J42	214
VICTOR OCAMPO	22840 BURTON ST	SE 0 - 1/8 (0.088 mi.)	43	215

EPA ID:: CAC003026659				
VERONICA ALLEN EPA ID:: CAC002967095	8210 LENA AVE	SSE 0 - 1/8 (0.105 mi.)	J44	216
MIA BEHZADIAN EPA ID:: CAC002977855	8215 LENA AVE	S 0 - 1/8 (0.109 mi.)	J45	217
LAKEVIEW CLEANERS EPA ID:: CAL000312588	22736 ROSCOE BLVD	E 0 - 1/8 (0.118 mi.)	K47	221
KERMIN ROCHMAN EPA ID:: CAC003045770	8118 MCLAREN AVE	SE 1/8 - 1/4 (0.159 mi.)	54	242

Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 03/23/2020 has revealed that there is 1 Cortese site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
LA CITY FIRE STATION	***23004 ROSCOE BLVD***	***S 0 - 1/8 (0.011 mi.)***	***E22***	***162***
Cleanup Status: COMPLETED - CASE CLOSED				

DRYCLEANERS: A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the DRYCLEANERS list, as provided by EDR, has revealed that there are 2 DRYCLEANERS sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
LAKE VIEW CLEANERS	22736 ROSCOE BLVD	E 0 - 1/8 (0.118 mi.)	K49	223
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 03/25/2020				
LAKEVIEW CLEANERS	***22736 ROSCOE BLVD***	***E 0 - 1/8 (0.118 mi.)***	***K50***	***224***
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 03/25/2020 Database: DRYCLEANERS, Date of Government Version: 12/04/2019 EPA Id: CAL000092099 EPA Id: CAL000312588				

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 2 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUGHES AIRCRAFT COMP Reg Id: 913040352	***8433 FALLBROOK AVENU***	***NE 0 - 1/8 (0.002 mi.)***	***C10***	***86***
WEBB, WILLIAM H & JA	22718 RODAZ	ENE 0 - 1/8 (0.079 mi.)	H41	213

Reg Id: 6A189104N60

HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the HWP list, as provided by EDR, and dated 05/18/2020 has revealed that there is 1 HWP site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUGHES AIRCRAFT COMP EPA Id: CAD041162124 Cleanup Status: CLOSED	***8433 FALLBROOK AVENU***	***NE 0 - 1/8 (0.002 mi.)***	***C10***	***86***

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there is 1 EDR Hist Auto site within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FAULKNER HARRY & DOL	22750 ROSCOE BLVD	ESE 0 - 1/8 (0.056 mi.)	F30	179

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there are 2 EDR Hist Cleaner sites within approximately 0.125 miles of the target property.

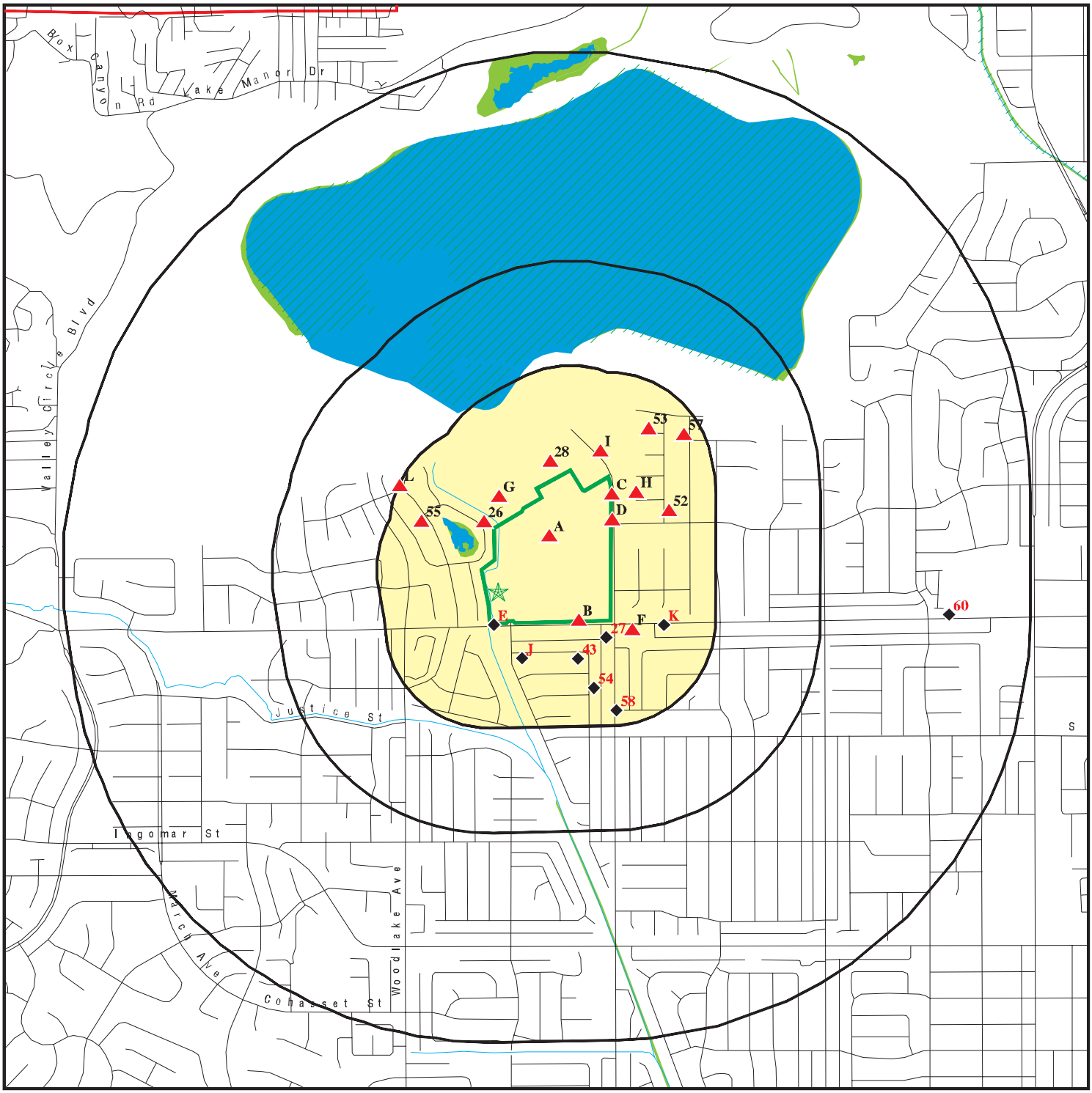
Lower Elevation	Address	Direction / Distance	Map ID	Page
DOOR TO DOOR XPRESS	8239 FALLBROOK AVE	ESE 0 - 1/8 (0.038 mi.)	27	177
LAKEVIEW CLEANERS	22736 ROSCOE BLV	E 0 - 1/8 (0.118 mi.)	K48	222

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 5 records.

Site Name	Database(s)
WEST HILLS RADITOR	HWTS
CORPORATE POINTE AT WEST HILLS	CIWQS
FALLBROOK SQUARE CLEANERS	DRYCLEANERS
FULTAN CLEANERS, BEN MASSABAND ET	DRYCLEANERS
THE BOEING CO WEST HILLS	RCRA-SQG

OVERVIEW MAP - 6142433.2S



0 1/4 1/2 1 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	West Hills Staley Point	CLIENT:	Partner Engineering and Science, Inc.
ADDRESS:	NW Corner of Roscoe Boulevard & Fallbrook Avenue Canoga Park CA 91304	CONTACT:	Cristina Scott
LAT/LONG:	34.220473 / 118.628322	INQUIRY #:	6142433.2s
		DATE:	August 03, 2020 1:45 pm

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DETAIL MAP - 6142433.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	West Hills Staley Point	CLIENT:	Partner Engineering and Science, Inc.
ADDRESS:	NW Corner of Roscoe Boulevard & Fallbrook Avenue Canoga Park CA 91304	CONTACT:	Cristina Scott
LAT/LONG:	34.220473 / 118.628322	INQUIRY #:	6142433.2s
		DATE:	August 03, 2020 1:50 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		1	0	0	NR	NR	1
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		1	0	0	0	NR	1
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		1	0	0	NR	NR	1
Federal RCRA generators list								
RCRA-LQG	0.250		2	0	NR	NR	NR	2
RCRA-SQG	0.250		4	0	NR	NR	NR	4
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		1	0	0	1	NR	2
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		3	0	0	NR	NR	3

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		3	0	0	NR	NR	3
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		3	1	NR	NR	NR	4
AST	0.250		3	0	NR	NR	NR	3
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
AOCONCERN	1.000		0	0	0	0	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250		6	0	NR	NR	NR	6
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		3	0	NR	NR	NR	3
HIST UST	0.250		3	0	NR	NR	NR	3
CA FID UST	0.250		3	0	NR	NR	NR	3
CERS TANKS	0.250		3	0	NR	NR	NR	3
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		12	7	NR	NR	NR	19
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		1	0	0	NR	NR	1
CUPA Listings	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DRYCLEANERS	0.250		2	0	NR	NR	NR	2
EMI	TP		NR	NR	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HAZNET	TP		NR	NR	NR	NR	NR	0
ICE	TP		NR	NR	NR	NR	NR	0
HIST CORTESE	0.500		2	0	0	NR	NR	2
LOS ANGELES CO. HMS	TP		NR	NR	NR	NR	NR	0
HWP	1.000		1	0	0	0	NR	1
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
LA Co. Site Mitigation	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
UIC GEO	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	TP		NR	NR	NR	NR	NR	0
PROJECT	TP		NR	NR	NR	NR	NR	0
WDR	TP		NR	NR	NR	NR	NR	0
CIWQS	TP		NR	NR	NR	NR	NR	0
CERS	TP		NR	NR	NR	NR	NR	0
NON-CASE INFO	TP		NR	NR	NR	NR	NR	0
OTHER OIL GAS	TP		NR	NR	NR	NR	NR	0
PROD WATER PONDS	TP		NR	NR	NR	NR	NR	0
SAMPLING POINT	TP		NR	NR	NR	NR	NR	0
WELL STIM PROJ	TP		NR	NR	NR	NR	NR	0
HWTS	TP		NR	NR	NR	NR	NR	0
LOS ANGELES CO LF METHANE	0.500		0	0	0	NR	NR	0
MINES MRDS	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		1	NR	NR	NR	NR	1
EDR Hist Cleaner	0.125		2	NR	NR	NR	NR	2
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	61	8	0	1	0	70

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **QUEST DIAGNOSTICS INC** **CERS HAZ WASTE** **S113177863**
8401 FALLBROOK AVENUE **HAZNET** **N/A**
< 1/8 **WEST HILLS, CA 91304** **CERS**
1 ft. **HWTS**

Site 1 of 4 in cluster A

Relative: Higher
Actual: 898 ft.

CERS HAZ WASTE:

Name:	QUEST DIAGNOSTICS
Address:	8401 FALLBROOK AVENUE
City,State,Zip:	WEST HILLS, CA 91304
Site ID:	400079
CERS ID:	10511053
CERS Description:	RCRA LQ HW Generator

Name:	QUEST DIAGNOSTICS
Address:	8401 FALLBROOK AVENUE
City,State,Zip:	WEST HILLS, CA 91304
Site ID:	400079
CERS ID:	10511053
CERS Description:	Hazardous Chemical Management

Name:	QUEST DIAGNOSTICS
Address:	8401 FALLBROOK AVENUE
City,State,Zip:	WEST HILLS, CA 91304
Site ID:	400079
CERS ID:	10511053
CERS Description:	Hazardous Waste Generator

HAZNET:

Name:	QUEST DIAGNOSTICS INC
Address:	8401 FALLBROOK AVENUE
Address 2:	Not reported
City,State,Zip:	WEST HILLS, CA 913040000
Contact:	AILEEN GENER/EHS MANAGER CA
Telephone:	8187376037
Mailing Name:	Not reported
Mailing Address:	8401 FALLBROOK AVE
Year:	2019
Gepaid:	CAR000164962
TSD EPA ID:	CAD044429835
CA Waste Code:	135 - Unspecified aqueous solution
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	4.99750
Year:	2019
Gepaid:	CAR000164962
TSD EPA ID:	CAD044429835
CA Waste Code:	513 - Empty containers less than 30 gallons
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	1.87500
Year:	2019
Gepaid:	CAR000164962
TSD EPA ID:	UTD991301748
CA Waste Code:	513 - Empty containers less than 30 gallons
Disposal Method:	H132 - Landfill Or Surface Impoundment That Will Be Closed As

QUEST DIAGNOSTICS INC (Continued) **S113177863**

	Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.30000
Year:	2019
Gepaid:	CAR000164962
TSD EPA ID:	NED981723513
CA Waste Code:	551 - Laboratory waste chemicals
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.45000
Year:	2019
Gepaid:	CAR000164962
TSD EPA ID:	UTD981552177
CA Waste Code:	551 - Laboratory waste chemicals
Disposal Method:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons:	3.15500
Year:	2019
Gepaid:	CAR000164962
TSD EPA ID:	NED981723513
CA Waste Code:	551 - Laboratory waste chemicals
Disposal Method:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons:	16.56750
Year:	2019
Gepaid:	CAR000164962
TSD EPA ID:	NED981723513
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons:	0.03750
Year:	2019
Gepaid:	CAR000164962
TSD EPA ID:	CAD059494310
CA Waste Code:	135 - Unspecified aqueous solution
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.17500
Year:	2019
Gepaid:	CAR000164962
TSD EPA ID:	CAD044429835
CA Waste Code:	551 - Laboratory waste chemicals
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	35.34860
Year:	2019
Gepaid:	CAR000164962
TSD EPA ID:	CAD044429835
CA Waste Code:	791 - Liquids with pH <= 2
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	11.17185

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Click this hyperlink while viewing on your computer to access
294 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

Year:	2006
Gen EPA ID:	CAR000164962
Shipment Date:	20061227
Creation Date:	10/8/2007 18:30:17
Receipt Date:	20070102
Manifest ID:	000242027JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	MOD095038998
Trans 2 Name:	TRI-STATE MOTOR TRANSIT CO
TSDF EPA ID:	TXD000838896
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F003
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061227
Creation Date:	4/19/2007 18:31:46
Receipt Date:	20061228
Manifest ID:	000242026JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1251
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Shipment Date:	20061227
Creation Date:	8/7/2007 18:30:14
Receipt Date:	20061227
Manifest ID:	000242029JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.1875
Waste Quantity:	375
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20061227
Creation Date:	8/7/2007 18:30:14
Receipt Date:	20061227
Manifest ID:	000242029JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.363
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20061227
Creation Date:	4/19/2007 18:32:11
Receipt Date:	20061229
Manifest ID:	000242028JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061220
Creation Date:	4/19/2007 18:31:46
Receipt Date:	20061228
Manifest ID:	000242013JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2502
Waste Quantity:	60
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061220
Creation Date:	4/19/2007 18:31:54
Receipt Date:	20061222
Manifest ID:	000242011JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061220
Creation Date:	8/7/2007 18:30:14
Receipt Date:	20061220
Manifest ID:	000242010JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0375
Waste Quantity:	75
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061220
Creation Date:	10/8/2007 18:30:17
Receipt Date:	20070102
Manifest ID:	000236460JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	MOD095038998
Trans 2 Name:	TRI-STATE MOTOR TRANSIT CO
TSDF EPA ID:	TXD000838896
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F003
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Shipment Date:	20061220
Creation Date:	8/7/2007 18:30:14
Receipt Date:	20061220
Manifest ID:	000242010JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.726
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2010
Gen EPA ID:	CAR000164962

Shipment Date:	20101229
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	007663523JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2502
Waste Quantity:	60
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20101229
Creation Date:	2/19/2011 18:30:32
Receipt Date:	20101230
Manifest ID:	007663523JJK

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101229
Creation Date:	2/19/2011 18:30:32
Receipt Date:	20101230
Manifest ID:	007663523JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F003
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.198
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101229
Creation Date:	2/19/2011 18:30:32
Receipt Date:	20101230
Manifest ID:	007663523JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported

QUEST DIAGNOSTICS INC (Continued) **S113177863**

TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101229
Creation Date:	2/19/2011 18:30:32
Receipt Date:	20101230
Manifest ID:	007663523JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.9174
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101229
Creation Date:	2/23/2011 18:30:08
Receipt Date:	20110107
Manifest ID:	007663522JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101229
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	007663523JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101222
Creation Date:	2/19/2011 18:30:32
Receipt Date:	20101230
Manifest ID:	007663514JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101222

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	007663514JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F005
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.1251
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	F002
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20101222
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	007663514JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2016
Gen EPA ID:	CAR000164962

Shipment Date:	20151230
Creation Date:	3/5/2016 22:15:15
Receipt Date:	20160107
Manifest ID:	015010812JJK
Trans EPA ID:	CAR000075424

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Trans Name:	ENVIRO-GUARD
Trans 2 EPA ID:	CAR000075424
Trans 2 Name:	ENVIRO-GUARD
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151223
Creation Date:	5/24/2016 16:38:02
Receipt Date:	20151229
Manifest ID:	015010782JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.108
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151223
Creation Date:	5/24/2016 16:38:02
Receipt Date:	20151229
Manifest ID:	015010782JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151223
Creation Date:	11/18/2016 18:33:37
Receipt Date:	20160114
Manifest ID:	015010781JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	CAR000075424
Trans 2 Name:	ENVIRO GUARD
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.198
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151223
Creation Date:	10/17/2016 18:30:54
Receipt Date:	20160127
Manifest ID:	015010780JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	CAR000075424
Trans 2 Name:	ENVIRO-GUARD
TSDF EPA ID:	ARD069748192
Trans Name:	CLEAN HARBORS EL DORADO LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	D001

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151223
Creation Date:	11/18/2016 18:33:37
Receipt Date:	20160114
Manifest ID:	015010781JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	CAR000075424
Trans 2 Name:	ENVIRO GUARD
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.9174
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151223
Creation Date:	11/18/2016 18:33:37
Receipt Date:	20160114
Manifest ID:	015010781JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	CAR000075424
Trans 2 Name:	ENVIRO GUARD
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151223
Creation Date:	3/5/2016 22:15:15
Receipt Date:	20160107
Manifest ID:	015010779JJK
Trans EPA ID:	CAD982440364

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	CAR000075424
Trans 2 Name:	ENVIRO-GUARD
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151223
Creation Date:	5/24/2016 16:38:02
Receipt Date:	20151229
Manifest ID:	015010782JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151223
Creation Date:	5/24/2016 16:38:02
Receipt Date:	20151229
Manifest ID:	015010782JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2007
Gen EPA ID:	CAR000164962
Shipment Date:	20071228
Creation Date:	3/11/2008 18:30:17
Receipt Date:	20080104
Manifest ID:	003190800JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H14 - Not reported
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071228
Creation Date:	7/22/2008 18:30:23
Receipt Date:	20080131
Manifest ID:	003058408JJK
Trans EPA ID:	CAD982440354
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	CAD008364432
Trans 2 Name:	RHO-CHEM
TSDF EPA ID:	WAD991281767
Trans Name:	BURLINGTON ENV
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Quantity Tons:	0.1815
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071228
Creation Date:	3/11/2008 18:30:10
Receipt Date:	20080104
Manifest ID:	003190825JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2502
Waste Quantity:	60
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071228
Creation Date:	3/11/2008 18:30:10
Receipt Date:	20080104
Manifest ID:	003190825JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.102
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Additional Code 5:	Not reported
Shipment Date:	20071228
Creation Date:	3/11/2008 18:30:10
Receipt Date:	20080104
Manifest ID:	003190825JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071228
Creation Date:	5/30/2008 18:30:22
Receipt Date:	20080102
Manifest ID:	003190799JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071228
Creation Date:	5/30/2008 18:30:22
Receipt Date:	20080102
Manifest ID:	003190799JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.198
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20071228
Creation Date:	5/30/2008 18:30:22
Receipt Date:	20080102
Manifest ID:	003190799JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.9075
Waste Quantity:	275
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20071228
Creation Date:	7/16/2008 18:30:41
Receipt Date:	20080115
Manifest ID:	003190798JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	MOD095038998
Trans 2 Name:	TRI-STATE MOTOR TRANSIT CO
TSDF EPA ID:	TXD000838896
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F003
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071219
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	003190786JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D011
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2008
Gen EPA ID:	CAR000164962
Shipment Date:	20081230
Creation Date:	6/17/2009 18:30:35
Receipt Date:	20090108
Manifest ID:	004957144JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.5445
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081230
Creation Date:	4/3/2009 18:30:08
Receipt Date:	20090109
Manifest ID:	004957145JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	CAD982440364
Trans 2 Name:	PFR ENVIRONMENTAL SERVICES INC
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081230
Creation Date:	2/17/2009 18:30:08
Receipt Date:	20090107
Manifest ID:	004957146JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.231
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081230
Creation Date:	2/17/2009 18:30:08
Receipt Date:	20090107

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Manifest ID:	004957146JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20081230
Creation Date:	2/17/2009 18:30:08
Receipt Date:	20090107
Manifest ID:	004957146JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1815
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20081230
Creation Date:	2/17/2009 18:30:08
Receipt Date:	20090107
Manifest ID:	004957146JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM

QUEST DIAGNOSTICS INC (Continued) **S113177863**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1251
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081223
Creation Date:	5/12/2009 18:30:20
Receipt Date:	20081231
Manifest ID:	004957129JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.9075
Waste Quantity:	275
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081223
Creation Date:	5/12/2009 18:30:20
Receipt Date:	20081231
Manifest ID:	004957129JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.198
Waste Quantity:	55
Quantity Unit:	G

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081223
Creation Date:	2/17/2009 18:30:08
Receipt Date:	20081223
Manifest ID:	004957131JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1251
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081223
Creation Date:	2/17/2009 18:30:08
Receipt Date:	20081223
Manifest ID:	004957131JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Additional Info:

Year:	2009
Gen EPA ID:	CAR000164962
Shipment Date:	20091223
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	006642355JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	GENERAL ENVIRONMENTAL MANAGEMENT
TSDF EPA ID:	CAD980884183
Trans Name:	GEM-RANCHO CORDOVA LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091223
Creation Date:	3/11/2010 18:30:08
Receipt Date:	20091229
Manifest ID:	006642354JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091223
Creation Date:	3/5/2010 18:31:15
Receipt Date:	20100113

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Manifest ID:	006642355JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	GENERAL ENVIRONMENTAL MANAGEMENT
TSDF EPA ID:	CAD980884183
Trans Name:	GEM-RANCHO CORDOVA LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	1.14675
Waste Quantity:	275
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20091223
Creation Date:	3/5/2010 18:31:15
Receipt Date:	20100113
Manifest ID:	006642355JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	GENERAL ENVIRONMENTAL MANAGEMENT
TSDF EPA ID:	CAD980884183
Trans Name:	GEM-RANCHO CORDOVA LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20091223
Creation Date:	3/5/2010 18:31:15
Receipt Date:	20100113
Manifest ID:	006642355JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	GENERAL ENVIRONMENTAL MANAGEMENT
TSDF EPA ID:	CAD980884183
Trans Name:	GEM-RANCHO CORDOVA LLC

QUEST DIAGNOSTICS INC (Continued) **S113177863**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1251
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091223
Creation Date:	3/5/2010 18:31:15
Receipt Date:	20100113
Manifest ID:	006642355JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	GENERAL ENVIRONMENTAL MANAGEMENT
TSDF EPA ID:	CAD980884183
Trans Name:	GEM-RANCHO CORDOVA LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091216
Creation Date:	11/3/2010 18:30:24
Receipt Date:	20100105
Manifest ID:	006642321JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	NJD080631369
Trans 2 Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF EPA ID:	TXD000838896
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F003
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.1
Waste Quantity:	200

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091216
Creation Date:	2/3/2010 18:31:10
Receipt Date:	20091222
Manifest ID:	006642318JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F003
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.108
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091216
Creation Date:	2/3/2010 18:31:10
Receipt Date:	20091217
Manifest ID:	006642323JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	CAD982444481
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Shipment Date:	20091216
Creation Date:	3/5/2010 18:31:23
Receipt Date:	20100104
Manifest ID:	006642324JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	GENERAL ENVIRONMENTAL MANAGEMENT
TSDF EPA ID:	CAD980884183
Trans Name:	GEM-RANCHO CORDOVA LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	1.14675
Waste Quantity:	275
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2017
Gen EPA ID:	CAR000164962

Shipment Date:	20171228
Creation Date:	8/7/2018 18:30:34
Receipt Date:	20171229
Manifest ID:	011523919FLE
Trans EPA ID:	CAL000326492
Trans Name:	STRATEGIC ENVIRONMENTAL WASTE SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20171228
Creation Date:	11/8/2018 18:30:28
Receipt Date:	20180104

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Manifest ID:	011523918FLE
Trans EPA ID:	CAL000326492
Trans Name:	STRATEGIC ENVIRONMENTAL WASTE SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20171228
Creation Date:	10/16/2018 18:31:51
Receipt Date:	20180111
Manifest ID:	011523917FLE
Trans EPA ID:	CAL000326492
Trans Name:	STRATEGIC ENVIRONMENTAL WASTE SERVICES INC
Trans 2 EPA ID:	CAR000172460
Trans 2 Name:	ENVIRONMENTAL LOGISTIC
TSDF EPA ID:	MOD981123391
Trans Name:	HAZMAT
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20171228
Creation Date:	11/8/2018 18:30:28
Receipt Date:	20180104
Manifest ID:	011523918FLE
Trans EPA ID:	CAL000326492
Trans Name:	STRATEGIC ENVIRONMENTAL WASTE SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY INC
TSDF Alt EPA ID:	Not reported

QUEST DIAGNOSTICS INC (Continued) **S113177863**

TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.55
Waste Quantity:	1100
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171228
Creation Date:	11/8/2018 18:30:28
Receipt Date:	20180104
Manifest ID:	011523918FLE
Trans EPA ID:	CAL000326492
Trans Name:	STRATEGIC ENVIRONMENTAL WASTE SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.5
Waste Quantity:	1000
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171228
Creation Date:	8/7/2018 18:30:34
Receipt Date:	20171229
Manifest ID:	011523919FLE
Trans EPA ID:	CAL000326492
Trans Name:	STRATEGIC ENVIRONMENTAL WASTE SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171228
Creation Date:	8/7/2018 18:30:34
Receipt Date:	20171229
Manifest ID:	011523919FLE
Trans EPA ID:	CAL000326492
Trans Name:	STRATEGIC ENVIRONMENTAL WASTE SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.45
Waste Quantity:	900
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171222
Creation Date:	10/16/2018 18:31:51
Receipt Date:	20180104
Manifest ID:	011523915FLE
Trans EPA ID:	CAL000326492
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252400
Trans Name:	PACIFIC RESOURCE RECOVERY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.75
Waste Quantity:	1500
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171222
Creation Date:	10/16/2018 18:31:51
Receipt Date:	20180104

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Manifest ID:	011523915FLE
Trans EPA ID:	CAL000326492
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252400
Trans Name:	PACIFIC RESOURCE RECOVERY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20171222
Creation Date:	10/16/2018 18:31:51
Receipt Date:	20180104
Manifest ID:	011523915FLE
Trans EPA ID:	CAL000326492
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252400
Trans Name:	PACIFIC RESOURCE RECOVERY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	F002
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2012
Gen EPA ID:	CAR000164962

Shipment Date:	20121227
Creation Date:	5/14/2013 22:15:27
Receipt Date:	20121228
Manifest ID:	009788402JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

QUEST DIAGNOSTICS INC (Continued) **S113177863**

TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.36
Waste Quantity:	720
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121227
Creation Date:	3/7/2013 22:15:23
Receipt Date:	20130104
Manifest ID:	009788404JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121227
Creation Date:	6/27/2013 22:15:15
Receipt Date:	20130204
Manifest ID:	009788405JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	CAR000172460
Trans 2 Name:	ENVIRONMENTAL LOGISTICS
TSDF EPA ID:	ARD069748192
Trans Name:	CLEAN HARBORS EL DORADO LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.05

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121227
Creation Date:	3/13/2013 22:15:46
Receipt Date:	20130104
Manifest ID:	009788406JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121227
Creation Date:	3/13/2013 22:15:46
Receipt Date:	20130104
Manifest ID:	009788406JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1251
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Shipment Date:	20121227
Creation Date:	3/13/2013 22:15:46
Receipt Date:	20130104
Manifest ID:	009788406JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2502
Waste Quantity:	60
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20121227
Creation Date:	3/13/2013 22:15:46
Receipt Date:	20130104
Manifest ID:	009788406JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20121227
Creation Date:	5/14/2013 22:15:27
Receipt Date:	20121228
Manifest ID:	009788402JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	1.14675
Waste Quantity:	275
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20121227
Creation Date:	5/14/2013 22:15:27
Receipt Date:	20121228
Manifest ID:	009788402JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.198
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20121219
Creation Date:	5/14/2013 22:15:27
Receipt Date:	20121221
Manifest ID:	009788386JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	1.14675

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Waste Quantity:	275
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2015
Gen EPA ID:	CAR000164962
Shipment Date:	20151230
Creation Date:	3/5/2016 22:15:15
Receipt Date:	20160107
Manifest ID:	015010812JJK
Trans EPA ID:	CAR000075424
Trans Name:	ENVIRO-GUARD
Trans 2 EPA ID:	CAR000075424
Trans 2 Name:	ENVIRO-GUARD
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151223
Creation Date:	5/24/2016 16:38:02
Receipt Date:	20151229
Manifest ID:	015010782JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.108
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	D001

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151223
Creation Date:	5/24/2016 16:38:02
Receipt Date:	20151229
Manifest ID:	015010782JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151223
Creation Date:	11/18/2016 18:33:37
Receipt Date:	20160114
Manifest ID:	015010781JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	CAR000075424
Trans 2 Name:	ENVIRO GUARD
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.198
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151223
Creation Date:	10/17/2016 18:30:54
Receipt Date:	20160127

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Manifest ID:	015010780JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	CAR000075424
Trans 2 Name:	ENVIRO-GUARD
TSDF EPA ID:	ARD069748192
Trans Name:	CLEAN HARBORS EL DORADO LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20151223
Creation Date:	11/18/2016 18:33:37
Receipt Date:	20160114
Manifest ID:	015010781JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	CAR000075424
Trans 2 Name:	ENVIRO GUARD
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.9174
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20151223
Creation Date:	11/18/2016 18:33:37
Receipt Date:	20160114
Manifest ID:	015010781JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	CAR000075424
Trans 2 Name:	ENVIRO GUARD
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151223
Creation Date:	3/5/2016 22:15:15
Receipt Date:	20160107
Manifest ID:	015010779JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	CAR000075424
Trans 2 Name:	ENVIRO-GUARD
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151223
Creation Date:	5/24/2016 16:38:02
Receipt Date:	20151229
Manifest ID:	015010782JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151223
Creation Date:	5/24/2016 16:38:02
Receipt Date:	20151229
Manifest ID:	015010782JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2013
Gen EPA ID:	CAR000164962
Shipment Date:	20131231
Creation Date:	3/1/2014 22:15:07
Receipt Date:	20140109
Manifest ID:	011833399JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1251
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Additional Code 5:	Not reported
Shipment Date:	20131231
Creation Date:	3/1/2014 22:15:07
Receipt Date:	20140109
Manifest ID:	011833399JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1251
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131231
Creation Date:	6/9/2014 22:15:05
Receipt Date:	20140109
Manifest ID:	011833394JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.9174
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131231
Creation Date:	6/9/2014 22:15:05
Receipt Date:	20140109
Manifest ID:	011833394JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.36
Waste Quantity:	720
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131231
Creation Date:	3/18/2014 22:15:12
Receipt Date:	20140109
Manifest ID:	011833397JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131231
Creation Date:	6/25/2014 22:14:54
Receipt Date:	20140206
Manifest ID:	011833398JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	CAR000172460
Trans 2 Name:	ENVIRONMENTAL LOGISTICS
TSDF EPA ID:	ARD069748192
Trans Name:	CLEAN HARBORS EL DORADO LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Meth Code:	- Not reported
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131231
Creation Date:	3/1/2014 22:15:07
Receipt Date:	20140109
Manifest ID:	011833399JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131224
Creation Date:	5/12/2016 9:59:35
Receipt Date:	20131230
Manifest ID:	011833378JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131224
Creation Date:	5/12/2016 9:59:35
Receipt Date:	20131230
Manifest ID:	011833378JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.24
Waste Quantity:	480
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131224
Creation Date:	5/12/2016 9:59:35
Receipt Date:	20131230
Manifest ID:	011833378JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.68805
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2011
Gen EPA ID:	CAR000164962
Shipment Date:	20111228
Creation Date:	7/19/2012 22:00:24

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Receipt Date:	20120106
Manifest ID:	008623535JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1251
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20111228
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008623535JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20111228
Creation Date:	7/19/2012 22:00:24
Receipt Date:	20120106
Manifest ID:	008623535JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111228
Creation Date:	5/25/2012 20:30:23
Receipt Date:	20111229
Manifest ID:	008623534JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.42
Waste Quantity:	840
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111228
Creation Date:	5/25/2012 20:30:23
Receipt Date:	20111229
Manifest ID:	008623534JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.9174
Waste Quantity:	220

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111228
Creation Date:	3/16/2012 20:30:38
Receipt Date:	20120105
Manifest ID:	008623533JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111228
Creation Date:	7/19/2012 22:00:24
Receipt Date:	20120106
Manifest ID:	008623535JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Shipment Date:	20111228
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008623535JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20111228
Creation Date:	7/19/2012 22:00:24
Receipt Date:	20120106
Manifest ID:	008623535JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1251
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20111221
Creation Date:	7/19/2012 22:00:24
Receipt Date:	20111227
Manifest ID:	008623517JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2014
Gen EPA ID:	CAR000164962
Shipment Date:	20141231
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	013358319JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141231
Creation Date:	5/19/2015 22:15:07
Receipt Date:	20150109
Manifest ID:	013358319JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported

QUEST DIAGNOSTICS INC (Continued) **S113177863**

TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	F002
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141231
Creation Date:	7/9/2015 22:15:23
Receipt Date:	20150112
Manifest ID:	013358316JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141231
Creation Date:	7/9/2015 22:15:23
Receipt Date:	20150112
Manifest ID:	013358316JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.42
Waste Quantity:	840
Quantity Unit:	P
Additional Code 1:	D001

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141231
Creation Date:	7/9/2015 22:15:23
Receipt Date:	20150112
Manifest ID:	013358316JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.198
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141231
Creation Date:	7/9/2015 22:15:23
Receipt Date:	20150112
Manifest ID:	013358316JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141231
Creation Date:	5/19/2015 22:15:07
Receipt Date:	20150109

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Manifest ID:	013358319JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20141231
Creation Date:	5/19/2015 22:15:07
Receipt Date:	20150109
Manifest ID:	013358319JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.108
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20141231
Creation Date:	5/19/2015 22:15:07
Receipt Date:	20150109
Manifest ID:	013358319JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON

QUEST DIAGNOSTICS INC (Continued) **S113177863**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141231
Creation Date:	3/6/2015 22:14:58
Receipt Date:	20150109
Manifest ID:	013358317JJK
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CERS:

Name:	QUEST DIAGNOSTICS
Address:	8401 FALLBROOK AVENUE
City,State,Zip:	WEST HILLS, CA 91304
Site ID:	400079
CERS ID:	10511053
CERS Description:	Chemical Storage Facilities

Affiliation:

Affiliation Type Desc:	Document Preparer
Entity Name:	aileen gener
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	Aileen Gener
Entity Title:	Not reported
Affiliation Address:	8401 Fallbrook Avenue
Affiliation City:	WEST HILLS
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91304
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	QUEST DIAGNOSTICS
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(818) 737-6000
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	8401 Fallbrook Avenue
Affiliation City:	WEST HILLS
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91304
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	QUEST DIAGNOSTICS
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Aileen Gener
Entity Title:	EHS Regional Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	Quest Diagnostics Incorporated
Entity Title:	Not reported
Affiliation Address:	8401 Fallbrook Avenue
Affiliation City:	WEST HILLS

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91304
Affiliation Phone: (818) 737-6000

Affiliation Type Desc: CUPA District
Entity Name: Los Angeles City Fire Department
Entity Title: Not reported
Affiliation Address: 200 North Main Street, Room 1780
Affiliation City: Los Angeles
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 90012
Affiliation Phone: (213) 978-3680

Affiliation Type Desc: Legal Owner
Entity Name: QUEST DIAGNOSTICS
Entity Title: Not reported
Affiliation Address: 8401 Fallbrook Avenue
Affiliation City: WEST HILLS
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91304
Affiliation Phone: (818) 737-6000

HWTS:
Name: QUEST DIAGNOSTICS INC
Address: 8401 FALLBROOK AVENUE
Address 2: Not reported
City,State,Zip: WEST HILLS, CA 913040000
EPA ID: CAR000164962
Inactive Date: Not reported
Create Date: 01/05/2005
Last Act Date: 09/06/2019
Mailing Name: Not reported
Mailing Address: 8401 FALLBROOK AVE
Mailing Address 2: Not reported
Mailing City,State,Zip: WEST HILLS, CA 913040000
Owner Name: QUEST DIAGNOSTICS INC
Owner Address: ONE MALCOLM AVE
Owner Address 2: Not reported
Owner City,State,Zip: TETERBORO, NJ 076080000
Contact Name: AILEEN GENER/EHS MANAGER, CA
Contact Address: 8401 FALLBROOK AVE
Contact Address 2: Not reported
City,State,Zip: WEST HILLS, CA 91304

NAICS:
EPA ID: CAR000164962
Create Date: 2008-03-20 15:51:28
NAICS Code: 621512
NAICS Description: Diagnostic Imaging Centers
Issued EPA ID Date: 2005-01-05 10:25:00
Inactive Date: Not reported
Facility Name: QUEST DIAGNOSTICS INC
Facility Address: 8401 FALLBROOK AVENUE

QUEST DIAGNOSTICS INC (Continued) **S113177863**

Facility Address 2:	Not reported
Facility City:	WEST HILLS
Facility County:	19
Facility State:	CA
Facility Zip:	913040000

A2
< 1/8
1 ft.

QUEST DIAGNOSTICS INC **RCRA-LQG** **1008402415**
8401 FALLBROOK AVENUE **CAR000164962**
WEST HILLS, CA 91304

Site 2 of 4 in cluster A

Relative: Higher

Actual: 898 ft.

RCRA-LQG:

Date form received by agency:	2018-02-08 00:00:00.0
Facility name:	QUEST DIAGNOSTICS INC
Facility address:	8401 FALLBROOK AVENUE WEST HILLS, CA 91304-0000
EPA ID:	CAR000164962
Mailing address:	FALLBROOK AVENUE WEST HILLS, CA 91304-0000
Contact:	AILEEN GENER
Contact address:	FALLBROOK AVENUE WEST HILLS, CA 91304-0000
Contact country:	US
Contact telephone:	818-737-6037
Contact email:	AILEEN.U.GENER@QUESTDIAGNOSTICS.COM
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	QUEST DIAGNOSTICS INC.
Owner/operator address:	MALCOLM AVENUE TETERBORO, NJ 07608
Owner/operator country:	US
Owner/operator telephone:	818-737-6037
Owner/operator email:	AILEEN.U.GENER@QUESTDIAGNOSTICS.COM
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	2005-02-01 00:00:00.
Owner/Op end date:	Not reported

Owner/operator name:	QUEST DIAGNOSTICS INC.

QUEST DIAGNOSTICS INC (Continued) **1008402415**

Owner/operator address: FALLBROOK AVENUE
WEST HILLS, CA 91304
Owner/operator country: US
Owner/operator telephone: 818-737-6037
Owner/operator email: AILEEN.U.GENER@QUESTDIAGNOSTICS.COM
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 2005-02-01 00:00:00.
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 2016-07-25 00:00:00.0
Site name: QUEST DIGANOSTICS
Classification: Large Quantity Generator

Date form received by agency: 2014-03-01 00:00:00.0
Site name: QUEST DIAGNOSTICS
Classification: Large Quantity Generator

Date form received by agency: 2013-02-21 00:00:00.0
Site name: QUEST DIAGNOSTICS
Classification: Large Quantity Generator

Date form received by agency: 2010-06-03 00:00:00.0
Site name: QUEST DIAGNOSTICS
Classification: Large Quantity Generator

Date form received by agency: 2008-05-28 00:00:00.0
Site name: QUEST DIAGNOSTICS
Classification: Large Quantity Generator

Date form received by agency: 2005-08-19 00:00:00.0
Site name: QUEST DIAGNOSTICS
Classification: Large Quantity Generator

Hazardous Waste Summary:

QUEST DIAGNOSTICS INC (Continued) **1008402415**

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 551
. Waste name: Laboratory waste chemicals

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: 792
. Waste name: Liquids with pH < 2 with metals

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED

QUEST DIAGNOSTICS INC (Continued) **1008402415**

SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: U122
. Waste name: FORMALDEHYDE

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs): 255415

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs): 255415

Waste code: D009
Waste name: MERCURY
Amount (Lbs): 255415

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 255415

QUEST DIAGNOSTICS INC (Continued) **1008402415**

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 255415

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 255415

Violation Status: No violations found

A3 **AT&T MOBILITY - TRAMELL CROW CO** **HAZMAT** **S123552233**
8401 FALLBROOK AVE UN A **N/A**
< 1/8 **CANOGA PARK, CA 91304**
1 ft.

Site 3 of 4 in cluster A

Relative: Higher
Actual: 898 ft.

LOS ANGELES HM:
Name: AT&T MOBILITY - TRAMELL CROW CO
Address: 8401 FALLBROOK AVE UN A
City,State,Zip: CANOGA PARK, CA 91304
Facility ID: FA0037720
Last Run Date: 06/01/2019
Status: INACTIVE

B4 **THERMO FISHER SCIENTIFIC CORPORATION ONE LAMBDA IN** **RCRA NonGen / NLR** **1024867840**
22801 ROSCOE BLVD **CAL000436439**
< 1/8 **WEST HILLS, CA 91304**
1 ft.

Site 1 of 2 in cluster B

Relative: Higher
Actual: 842 ft.

RCRA NonGen / NLR:
Date form received by agency: 2018-05-22 00:00:00.0
Facility name: THERMO FISHER SCIENTIFIC CORPORATION ONE LAMBDA INC
Facility address: 22801 ROSCOE BLVD
WEST HILLS, CA 91304
EPA ID: CAL000436439
Mailing address: 21001 KITTRIDGE ST
CANOGA PARK, CA 91303
Contact: BENO SINGH
Contact address: 21001 KITTRIDGE ST
CANOGA PARK, CA 91303

THERMO FISHER SCIENTIFIC CORPORATION ONE LAMBDA INC (Continued) **1024867840**

Contact country: Not reported
Contact telephone: 818-449-3306
Contact email: BENO.SINGH2@THERMOFISHER.COM
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: THERMO FISHER SCIENTIFIC CORP
Owner/operator address: 21001 KITTRIDGE ST
CANOGA PARK, CA 91303
Owner/operator country: Not reported
Owner/operator telephone: 818-702-0042
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: BENO SINGH
Owner/operator address: 21001 KITTRIDGE ST
CANOGA PARK, CA 91303
Owner/operator country: Not reported
Owner/operator telephone: 818-449-3306
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

B5 **THERMO FISHER SCIENTIFIC CORPORATION** **CERS HAZ WASTE** **S123522452**
22801 ROSCOE BLVD **CERS TANKS** **N/A**
< 1/8 **WEST HILLS, CA 91304** **CERS**
1 ft.

Site 2 of 2 in cluster B

Relative: Higher
Actual: 842 ft.

CERS HAZ WASTE:
Name: THERMO FISHER SCIENTIFIC CORPORATION
Address: 22801 ROSCOE BLVD
City,State,Zip: WEST HILLS, CA 91304
Site ID: 444767
CERS ID: 10774996
CERS Description: Hazardous Waste Generator

CERS TANKS:
Name: THERMO FISHER SCIENTIFIC CORPORATION
Address: 22801 ROSCOE BLVD
City,State,Zip: WEST HILLS, CA 91304
Site ID: 444767
CERS ID: 10774996
CERS Description: Aboveground Petroleum Storage

CERS:
Name: THERMO FISHER SCIENTIFIC CORPORATION
Address: 22801 ROSCOE BLVD
City,State,Zip: WEST HILLS, CA 91304
Site ID: 444767
CERS ID: 10774996
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 444767
Site Name: Thermo Fisher Scientific Corporation
Violation Date: 09-18-2019
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 09/18/2019. OBSERVATION: 3x15 gal drum of Non-RCRA Hazardous waste liquid located in the Hazardous waste storage room was observed without the following information on the label: no accumulation start date. CORRECTIVE ACTION: Submit photos to the CUPA demonstrating that the container listed above has been properly labeled. COS.
Violation Division: Los Angeles County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 444767
Site Name: Thermo Fisher Scientific Corporation
Violation Date: 09-18-2019
Citation: 22 CCR 12 66262.34(e) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(e)
Violation Description: Failure to meet the following conditions of satellite accumulation regulations: G Accumulate up to 55 gallons of hazardous waste or one quart of acute hazardous waste at or near the initial point of

THERMO FISHER SCIENTIFIC CORPORATION (Continued) **S123522452**

accumulation which was under the control of the operator. G Total time hazardous waste can be accumulated onsite in any generator accumulation area is one year, i.e., the combined accmulation time at a satellite accumulation point and at a 90/180/270 accumulation area (depending on size of generator and distance transported), whichever comes first. G The generator complies with section 66265.171, 66265.172, and 66265.173(a). G The container must be clearly marked with the initial date that hazardous waste is first placed in the container and labelled with the words G Hazardous WasteG including specified information G Container must be labelled with the date the satellite accumulation limit is reached and moved within three days after reaching the 55 gallon (or one quart) limit to a G 90 dayG accumulation area G 55 gallons (or one quart of acute hazardous waste) of waste per process may be accumulated

Violation Notes: Returned to compliance on 10/18/2019. OBSERVATION: Failure of the Owner/Operator to comply with one or more satellite accumulation requirements. No accumulation start date. CORRECTIVE ACTION: Ensure that all hazardous wastes being accumulated pursuant to satellite accumulation meet all applicable requirements and submit documentation of compliance to the CUPA. Provide an accumulation start date within one year and manage annually.
Violation Division: Los Angeles County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 444767
Site Name: Thermo Fisher Scientific Corporation
Violation Date: 09-18-2019
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 10/18/2019. OBSERVATION: 20x15 gal drums pre-labeled as hazardous waste are empty. No empty signage or labels on drums. CORRECTIVE ACTION: Each empty container larger than 5 gallons that previously held a hazardous material must be marked with the date it was emptied and be shipped for recycling, reconditioning, or reclamation of its scrap value G or managed on site in such a manner G within one year of being emptied. 22CCR 11 66261.7
Violation Division: Los Angeles County Fire Department
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-18-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Beno Singh
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Los Angeles City Fire Department
Entity Title: Not reported

THERMO FISHER SCIENTIFIC CORPORATION (Continued) **S123522452**

Affiliation Address:	200 North Main Street, Room 1780
Affiliation City:	Los Angeles
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90012
Affiliation Phone:	(213) 978-3680
Affiliation Type Desc:	Legal Owner
Entity Name:	Thermo Fisher Scientific Corporation (aka One Lambda Inc.)
Entity Title:	Not reported
Affiliation Address:	22801 Roscoe Blvd
Affiliation City:	West Hills
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91304
Affiliation Phone:	(747) 494-1155
Affiliation Type Desc:	Document Preparer
Entity Name:	Beno Singh
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Thermo Fisher Scientific Corporation (aka One Lambda Inc.)
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(747) 494-1155
Affiliation Type Desc:	Environmental Contact
Entity Name:	BENO SINGH
Entity Title:	Not reported
Affiliation Address:	22801 Roscoe Blvd
Affiliation City:	West Hills
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91304
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	22801 Roscoe Blvd
Affiliation City:	West Hills
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91304
Affiliation Phone:	Not reported

THERMO FISHER SCIENTIFIC CORPORATION (Continued) **S123522452**

Affiliation Type Desc:	Identification Signer
Entity Name:	BENO SINGH
Entity Title:	EHS SPECIALIST
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	ONE LAMBDA, INC.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Property Owner
Entity Name:	Thermo Fisher Scientific Corporation
Entity Title:	Not reported
Affiliation Address:	22801 Roscoe Blvd
Affiliation City:	West Hills
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91304
Affiliation Phone:	(747) 494-1155

A6 **QUEST DIAGNOSTICS** **AST** **A100423648**
8401 FALLBROOK AVENUE **N/A**
< 1/8 **WEST HILLS, CA 91304**
1 ft.

Site 4 of 4 in cluster A

Relative: AST:
Higher

Actual:
898 ft.

Name:	QUEST DIAGNOSTICS
Address:	8401 FALLBROOK AVENUE
City/Zip:	WEST HILLS,91304
Certified Unified Program Agencies:	Not reported
Owner:	Quest Diagnostics
Total Gallons:	Not reported
CERSID:	10511053
Facility ID:	Not reported
Business Name:	QUEST DIAGNOSTICS
Phone:	818-737-6000
Fax:	Not reported
Mailing Address:	8401 Fallbrook Avenue
Mailing Address City:	West Hills
Mailing Address State:	CA
Mailing Address Zip Code:	91304
Operator Name:	Quest Diagnostics
Operator Phone:	818-737-6000
Owner Phone:	818-737-6000
Owner Mail Address:	8401 Fallbrook Avenue
Owner State:	CA

QUEST DIAGNOSTICS (Continued) **A100423648**

Owner Zip Code:	91304
Owner Country:	United States
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	CAR000164962

C7 **HUGHES AIRCRAFT CO** **UST** **U004305663**
NE **8433 N FALLBROOK AVE RM 1360C** **N/A**
< 1/8 **CANOGA PARK, CA 91304**
0.002 mi.
12 ft. **Site 1 of 7 in cluster C**

Relative: LOS ANGELES UST:
Higher

Name:	HUGHES AIRCRAFT CO
Address:	8433 N FALLBROOK AVE RM 1360C
City,State,Zip:	CANOGA PARK, CA 91304
Facility ID:	FA0003308
Last Run Date:	06/03/2019
Status:	INACTIVE

Actual:
853 ft.

C8 **MISSLE SYSTEMS GROUP** **HIST UST** **U001567142**
NE **8433 FALLBROOK AVE** **N/A**
< 1/8 **CANOGA PARK, CA 91304**
0.002 mi.
12 ft. **Site 2 of 7 in cluster C**

Relative: HIST UST:
Higher

Name:	MISSLE SYSTEMS GROUP
Address:	8433 FALLBROOK AVE
City,State,Zip:	CANOGA PARK, CA 91304
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000050582
Facility Type:	Other
Other Type:	MISSILE RESEARCH & D
Contact Name:	ROSS A. MOORE
Telephone:	8187021035
Owner Name:	HUGHES AIRCRAFT COMPANY MISSLE
Owner Address:	8433 FALLBROOK AVENUE
Owner City,St,Zip:	CANOGA PARK, CA 91304
Total Tanks:	0003
Tank Num:	001
Container Num:	PIT #2
Year Installed:	1959
Tank Capacity:	00005476
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	8
Leak Detection:	None

Actual:
853 ft.

MISSLE SYSTEMS GROUP (Continued) **U001567142**

Tank Num:	002
Container Num:	S-1
Year Installed:	1981
Tank Capacity:	00000011
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	6
Leak Detection:	None

Tank Num:	003
Container Num:	S-2
Year Installed:	1981
Tank Capacity:	00000011
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	6
Leak Detection:	None

C9 **MISSILE SYSTEMS GROUP** **CPS-SLIC** **U001567141**
NE **8433 FALLBROOK AVE** **HIST UST** **N/A**
< 1/8 **CANOGA PARK, CA 91304** **EMI**
0.002 mi. **NPDES**
12 ft. **Site 3 of 7 in cluster C** **CIWQS**
CERS

Relative:
Higher

Actual:
853 ft.

CPS-SLIC:

Name:	SOUTHERN PARCELS_FORMER HUGHES MISSILE SYSTEMS CO
Address:	8433 FALLBROOK AVE
City,State,Zip:	CANOGA PARK, CA, CA 91304
Region:	STATE
Facility Status:	**Open - Eligible for Closure**
Status Date:	11/27/2017
Global Id:	T10000011111
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	34.22354
Longitude:	-118.62362
Case Type:	Cleanup Program Site
Case Worker:	EHW
Local Agency:	Not reported
RB Case Number:	0693A
File Location:	Not reported
Potential Media Affected:	Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern:	Freon
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

HIST UST:

Name:	MISSILE SYSTEMS GROUP
Address:	8433 FALLBROOK AVE
City,State,Zip:	CANOGA PARK, CA 91304
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000035465
Facility Type:	Other

MISSILE SYSTEMS GROUP (Continued) **U001567141**

Other Type:	MISSILE RESEARCH AND
Contact Name:	ROSS A. MOORE
Telephone:	8187021035
Owner Name:	HUGHES AIRCRAFT COMPANY MISSLE
Owner Address:	8433 FALLBROOK AVENUE
Owner City,St,Zip:	CANOGA PARK, CA 91304
Total Tanks:	0014
Tank Num:	001
Container Num:	T-1
Year Installed:	1974
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	T-2
Year Installed:	1975
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor
Tank Num:	003
Container Num:	T-3
Year Installed:	1979
Tank Capacity:	00004000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	1/4
Leak Detection:	None
Tank Num:	004
Container Num:	T-5
Year Installed:	1959
Tank Capacity:	00000500
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	3/16
Leak Detection:	Visual
Tank Num:	005
Container Num:	T-6 (ABAND
Year Installed:	1959
Tank Capacity:	00000500
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	3/16
Leak Detection:	Visual
Tank Num:	006
Container Num:	T-7
Year Installed:	1979
Tank Capacity:	00012000

MISSILE SYSTEMS GROUP (Continued) **U001567141**

Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	007
Container Num:	T-8
Year Installed:	1979
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	008
Container Num:	T-9
Year Installed:	1979
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	009
Container Num:	T-10
Year Installed:	1959
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	5/16
Leak Detection:	None

Tank Num:	010
Container Num:	T-12
Year Installed:	1980
Tank Capacity:	00000085
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	1/4
Leak Detection:	None, 10

Tank Num:	011
Container Num:	T-13
Year Installed:	1977
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor, 10

Tank Num:	012
Container Num:	T-17
Year Installed:	1971
Tank Capacity:	00000040
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported

MISSILE SYSTEMS GROUP (Continued) **U001567141**

Leak Detection: Visual

Tank Num: 013
Container Num: PIT #1
Year Installed: 1981
Tank Capacity: 00001687
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 6
Leak Detection: None

Tank Num: 014
Container Num: T-4
Year Installed: 1959
Tank Capacity: 00135000
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: 16
Leak Detection: None

EMI:

Name:	HUGHES AIRCRAFT CO, MISSILE SY
Address:	8433 FALLBROOK AVE
City,State,Zip:	CANOGA PARK, CA 91304
Year:	1987
County Code:	19
Air Basin:	SC
Facility ID:	17018
Air District Name:	SC
SIC Code:	3761
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	22
Reactive Organic Gases Tons/Yr:	10
Carbon Monoxide Emissions Tons/Yr:	5
NOX - Oxides of Nitrogen Tons/Yr:	6
SOX - Oxides of Sulphur Tons/Yr:	5
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	HUGHES AIRCRAFT CO, MISSILE SY
Address:	8433 FALLBROOK AVE
City,State,Zip:	CANOGA PARK, CA 91304
Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	17018
Air District Name:	SC
SIC Code:	3761
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	7

MISSILE SYSTEMS GROUP (Continued) **U001567141**

SOX - Oxides of Sulphur Tons/Yr: 2
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: HUGHES MISSILE SYSTEMS CO
Address: 8433 FALLBROOK AVE
City,State,Zip: CANOGA PARK, CA 91304
Year: 1993
County Code: 19
Air Basin: SC
Facility ID: 17018
Air District Name: SC
SIC Code: 3761
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 6
Reactive Organic Gases Tons/Yr: 2
Carbon Monoxide Emissions Tons/Yr: 1
NOX - Oxides of Nitrogen Tons/Yr: 2
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: HUGHES MISSILE SYSTEMS CO
Address: 8433 FALLBROOK AVE
City,State,Zip: CANOGA PARK, CA 91304
Year: 1995
County Code: 19
Air Basin: SC
Facility ID: 17018
Air District Name: SC
SIC Code: 3761
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 6
Reactive Organic Gases Tons/Yr: 2
Carbon Monoxide Emissions Tons/Yr: 1
NOX - Oxides of Nitrogen Tons/Yr: 2
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: HUGHES MISSILE SYSTEMS CO
Address: 8433 FALLBROOK AVE
City,State,Zip: CANOGA PARK, CA 91304
Year: 1996
County Code: 19
Air Basin: SC
Facility ID: 17018
Air District Name: SC
SIC Code: 3761
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0

MISSILE SYSTEMS GROUP (Continued) **U001567141**

Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	1
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	HUGHES MISSILE SYSTEMS CO
Address:	8433 FALLBROOK AVE
City,State,Zip:	CANOGA PARK, CA 91304
Year:	1997
County Code:	19
Air Basin:	SC
Facility ID:	17018
Air District Name:	SC
SIC Code:	3761
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	HUGHES MISSILE SYSTEMS CO
Address:	8433 FALLBROOK AVE
City,State,Zip:	CANOGA PARK, CA 91304
Year:	1998
County Code:	19
Air Basin:	SC
Facility ID:	17018
Air District Name:	SC
SIC Code:	3761
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	HUGHES MISSILE SYSTEMS CO
Address:	8433 FALLBROOK AVE
City,State,Zip:	CANOGA PARK, CA 91304
Year:	1999
County Code:	19
Air Basin:	SC
Facility ID:	17018
Air District Name:	SC
SIC Code:	3761
Air District Name:	SOUTH COAST AQMD

MISSILE SYSTEMS GROUP (Continued) **U001567141**

Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: HUGHES MISSILE SYSTEMS CO
Address: 8433 FALLBROOK AVE
City,State,Zip: CANOGA PARK, CA 91304
Year: 2000
County Code: 19
Air Basin: SC
Facility ID: 17018
Air District Name: SC
SIC Code: 3761
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: HUGHES MISSILE SYSTEMS CO
Address: 8433 FALLBROOK AVE
City,State,Zip: CANOGA PARK, CA 91304
Year: 2001
County Code: 19
Air Basin: SC
Facility ID: 17018
Air District Name: SC
SIC Code: 3761
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

NPDES:
Name: HUGHES MISSILE SYSTEMS CO
Address: 8433 FALLBROOK AVE
City,State,Zip: CANOGA PARK, CA 91304
Facility Status: Not reported
NPDES Number: Not reported
Region: Not reported

MISSILE SYSTEMS GROUP (Continued) **U001567141**

Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	4 19I002877
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	04/02/1992
Operator Name:	Hughes Missile Systems Co
Operator Address:	PO Box 7928
Operator City:	Canoga Park
Operator State:	California
Operator Zip:	91309

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	4
Regulatory Measure ID:	268472
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	4 19I002877
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	04/02/1992
Status:	Terminated
Status Date:	04/02/1992
Place Size:	84
Place Size Unit:	Acres
Contact:	D R Stevens Ear Naab
Contact Title:	Not reported
Contact Phone:	818-702-4381
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Hughes Missile Systems Co
Operator Address:	PO Box 7928
Operator City:	Canoga Park

MISSILE SYSTEMS GROUP (Continued) **U001567141**

Operator State:	California
Operator Zip:	91309
Operator Contact:	Earl Naab
Operator Contact Title:	Not reported
Operator Contact Phone:	818-702-2628
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	818-702-4381
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Chatsworth Creek & La River
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	4213-Trucking, Except Local
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CIWQS:

Name:	HUGHES MISSILE SYSTEMS CO
Address:	8433 FALLBROOK AVE
City,State,Zip:	CANOGA PARK, CA 91304
Agency:	Hughes Missile Systems Co
Agency Address:	PO Box 7928, Canoga Park, CA 91309
Place/Project Type:	Industrial - Trucking, Except Local
SIC/NAICS:	4213
Region:	4
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ

MISSILE SYSTEMS GROUP (Continued) **U001567141**

WDID:	4 19I002877
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	04/02/1992
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.22198
Longitude:	-118.6235

CERS:

Name:	SOUTHERN PARCELS_FORMER HUGHES MISSILE SYSTEMS CO
Address:	8433 FALLBROOK AVE
City,State,Zip:	CANOGA PARK, CA, CA 91304
Site ID:	429472
CERS ID:	T10000011111
CERS Description:	Cleanup Program Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	EMILY WONG - LOS ANGELES RWQCB (REGION 4)
Entity Title:	Not reported
Affiliation Address:	320 W. 4TH ST., SUITE 200
Affiliation City:	LOS ANGELES
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

C10 **HUGHES AIRCRAFT COMPANY** **SEMS-ARCHIVE** **1000240986**
NE **8433 FALLBROOK AVENUE** **CORRACTS** **CAD041162124**
< 1/8 **CANOGA PARK, CA 91304** **RCRA-TSDF**
0.002 mi. **RCRA-SQG**
12 ft. **Site 4 of 7 in cluster C** **ENVIROSTOR**
LUST
Relative: Higher **CPS-SLIC**
US FIN ASSUR
Actual: 853 ft. **FINDS**
ECHO
ICE
HIST CORTESE
HWP
CERS

SEMS Archive:

Site ID:	0903304
EPA ID:	CAD041162124
Name:	HUGHES AIRCRAFT CO
Address:	8433 FALLBROOK AVE
Address 2:	Not reported
City,State,Zip:	CANOGA PARK, CA 91304
Cong District:	21

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

FIPS Code: 06037
FF: N
NPL: Not on the NPL
Non NPL Status: Deferred to RCRA (Subtitle C)

SEMS Archive Detail:

Region: 09
Site ID: 0903304
EPA ID: CAD041162124
Site Name: HUGHES AIRCRAFT CO
NPL: N
FF: N
OU: 00
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 1996-01-23 05:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 09
Site ID: 0903304
EPA ID: CAD041162124
Site Name: HUGHES AIRCRAFT CO
NPL: N
FF: N
OU: 00
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: Not reported
Finish Date: 1991-08-09 04:00:00
Qual: D
Current Action Lead: EPA Perf

Region: 09
Site ID: 0903304
EPA ID: CAD041162124
Site Name: HUGHES AIRCRAFT CO
NPL: N
FF: N
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1991-04-01 05:00:00
Finish Date: 1991-04-01 05:00:00
Qual: Not reported
Current Action Lead: EPA Perf

CORRACTS:

Region: 09
Name: HUGHES AIRCRAFT COMPANY
Address: 8433 FALLBROOK AVENUE
Address 2: Not reported

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

City,State,Zip: CANOGA PARK, CA 91304
EPA ID: CAD041162124
Area Name: ENTIRE FACILITY
Corrective Action: CA029WQ
Actual Date: 1991-07-29 00:00:00.0
NAICS Code 1: 336414
NAICS Code 2: 336419
NAICS Code 3: Not reported
NAICS Code 4: Not reported

Region: 09
Name: HUGHES AIRCRAFT COMPANY
Address: 8433 FALLBROOK AVENUE
Address 2: Not reported
City,State,Zip: CANOGA PARK, CA 91304
EPA ID: CAD041162124
Area Name: ENTIRE FACILITY
Corrective Action: CA03193
Actual Date: Not reported
NAICS Code 1: 336414
NAICS Code 2: 336419
NAICS Code 3: Not reported
NAICS Code 4: Not reported

Region: 09
Name: HUGHES AIRCRAFT COMPANY
Address: 8433 FALLBROOK AVENUE
Address 2: Not reported
City,State,Zip: CANOGA PARK, CA 91304
EPA ID: CAD041162124
Area Name: ENTIRE FACILITY
Corrective Action: CA049PA
Actual Date: 1991-07-29 00:00:00.0
NAICS Code 1: 336414
NAICS Code 2: 336419
NAICS Code 3: Not reported
NAICS Code 4: Not reported

Region: 09
Name: HUGHES AIRCRAFT COMPANY
Address: 8433 FALLBROOK AVENUE
Address 2: Not reported
City,State,Zip: CANOGA PARK, CA 91304
EPA ID: CAD041162124
Area Name: ENTIRE FACILITY
Corrective Action: CA050
Actual Date: 1991-07-29 00:00:00.0
NAICS Code 1: 336414
NAICS Code 2: 336419
NAICS Code 3: Not reported
NAICS Code 4: Not reported

Region: 09
Name: HUGHES AIRCRAFT COMPANY
Address: 8433 FALLBROOK AVENUE
Address 2: Not reported
City,State,Zip: CANOGA PARK, CA 91304

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

EPA ID:	CAD041162124
Area Name:	ENTIRE FACILITY
Corrective Action:	CA074LO
Actual Date:	1991-07-29 00:00:00.0
NAICS Code 1:	336414
NAICS Code 2:	336419
NAICS Code 3:	Not reported
NAICS Code 4:	Not reported

Region:	09
Name:	HUGHES AIRCRAFT COMPANY
Address:	8433 FALLBROOK AVENUE
Address 2:	Not reported
City,State,Zip:	CANOGA PARK, CA 91304
EPA ID:	CAD041162124
Area Name:	ENTIRE FACILITY
Corrective Action:	CA075LO
Actual Date:	1991-07-29 00:00:00.0
NAICS Code 1:	336414
NAICS Code 2:	336419
NAICS Code 3:	Not reported
NAICS Code 4:	Not reported

RCRA-TSDF:

Date form received by agency:	1996-09-01 00:00:00.0
Facility name:	HUGHES AIRCRAFT COMPANY
Facility address:	8433 FALLBROOK AVENUE CANOGA PARK, CA 91304
EPA ID:	CAD041162124
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	TSDF
Description:	Handler is engaged in the treatment, storage or disposal of hazardous waste

Owner/Operator Summary:

Owner/operator name:	HUGHES AIRCRAFT COMPANY
Owner/operator address:	8433 FALLBROOK AVENUE CANOGA PARK, CA 91304
Owner/operator country:	Not reported
Owner/operator telephone:	213-702-1000
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	HUGHES AIRCRAFT COMPANY

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Owner/operator address: 8433 FALLBROOK AVENUE
CITY NOT REPORTED, CA 99999
Owner/operator country: Not reported
Owner/operator telephone: 213-702-1000
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 1996-09-01 00:00:00.0
Site name: HUGHES AIRCRAFT COMPANY
Classification: Small Quantity Generator

Date form received by agency: 1994-03-28 00:00:00.0
Site name: HUGHES MISSILE SYSTEMS CO.
Classification: Large Quantity Generator

Date form received by agency: 1992-02-27 00:00:00.0
Site name: HUGHES AIRCRAFT CO/MISSLE R&D
Classification: Large Quantity Generator

Date form received by agency: 1980-08-18 00:00:00.0
Site name: HUGHES AIRCRAFT COMPANY
Classification: Large Quantity Generator

Corrective Action Summary:
Event date: 1991-07-29 00:00:00.0
Event: LEAD AGENCY DETERMINATION

Event date: 1991-07-29 00:00:00.0
Event: PA OR CERCLA INSPECTION

Event date: 1991-07-29 00:00:00.0
Event: NCAPS RANKING/PRIORITY

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Event date: 1991-07-29 00:00:00.0
Event: CA PRIORITIZATION-LOW CA PRIORITY

Event date: 1991-07-29 00:00:00.0
Event: RFA COMPLETED

Event date: Not reported
Event: REEVALUATE IN FY

Event date: Not reported
Event: INVESTIGATION IMPOSITION

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 2007-12-19 00:00:00.0
Date achieved compliance: 2008-03-04 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2008-02-07 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 2007-12-19 00:00:00.0
Date achieved compliance: 2009-01-02 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2008-02-07 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 2007-12-19 00:00:00.0
Date achieved compliance: 2009-01-02 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2008-02-07 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Date violation determined: 2007-12-19 00:00:00.0
Date achieved compliance: 2008-03-04 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2008-02-07 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 2007-12-19 00:00:00.0
Date achieved compliance: 2008-03-04 00:00:00.0
Violation lead agency: State
Enforcement action: SINGLE SITE CA/FO
Enforcement action date: 2009-01-02 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 20000
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 2007-12-19 00:00:00.0
Date achieved compliance: 2008-03-04 00:00:00.0
Violation lead agency: State
Enforcement action: SINGLE SITE CA/FO
Enforcement action date: 2009-01-02 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 20000
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General Facility Standards
Date violation determined: 1994-08-23 00:00:00.0
Date achieved compliance: 1994-09-22 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1994-08-23 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 500
Final penalty amount: 500
Paid penalty amount: 500

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 1991-11-22 00:00:00.0

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Date achieved compliance: 1994-06-01 00:00:00.0
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 1991-04-24 00:00:00.0
Date achieved compliance: 1991-05-28 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1991-06-07 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 1989-02-22 00:00:00.0
Date achieved compliance: 1990-10-15 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 1989-07-06 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5500
Paid penalty amount: 5500

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 1989-02-22 00:00:00.0
Date achieved compliance: 1990-10-15 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1989-04-06 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 1989-02-22 00:00:00.0
Date achieved compliance: 1990-10-15 00:00:00.0

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1989-04-06 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 1989-02-22 00:00:00.0
Date achieved compliance: 1990-10-15 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 1989-07-06 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5500
Paid penalty amount: 5500

Evaluation Action Summary:
Evaluation date: 2014-06-26 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2012-03-01 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2009-04-14 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2009-03-26 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2008-03-04 00:00:00.0
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2007-12-19 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Area of violation: TSD - General
Date achieved compliance: 2008-03-04 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2007-12-19 00:00:00.0
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2007-12-19 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: 2008-03-04 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2007-12-19 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: 2009-01-02 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2007-12-19 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 2009-01-02 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2007-12-05 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2007-06-20 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2007-06-12 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2006-06-29 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2006-06-15 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Evaluation date: 2004-05-26 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1996-05-22 00:00:00.0
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1995-08-09 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1994-11-10 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1994-06-01 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General Facility Standards
Date achieved compliance: 1994-09-22 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1994-04-06 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 1991-11-22 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 1994-06-01 00:00:00.0
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 1991-04-24 00:00:00.0
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: TSD - General
Date achieved compliance: 1991-05-28 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1989-02-22 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 1990-10-15 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1989-02-22 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Date achieved compliance: 1990-10-15 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1989-02-21 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

RCRA-SQG:
Date form received by agency: 1996-09-01 00:00:00.0
Facility name: HUGHES AIRCRAFT COMPANY
Facility address: 8433 FALLBROOK AVENUE
CANOGA PARK, CA 91304
EPA ID: CAD041162124
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: TSDF
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste

Owner/Operator Summary:
Owner/operator name: HUGHES AIRCRAFT COMPANY
Owner/operator address: 8433 FALLBROOK AVENUE
CANOGA PARK, CA 91304
Owner/operator country: Not reported
Owner/operator telephone: 213-702-1000
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: HUGHES AIRCRAFT COMPANY
Owner/operator address: 8433 FALLBROOK AVENUE
CITY NOT REPORTED, CA 99999
Owner/operator country: Not reported
Owner/operator telephone: 213-702-1000
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	1996-09-01 00:00:00.0
Site name:	HUGHES AIRCRAFT COMPANY
Classification:	Small Quantity Generator
Date form received by agency:	1994-03-28 00:00:00.0
Site name:	HUGHES MISSILE SYSTEMS CO.
Classification:	Large Quantity Generator
Date form received by agency:	1992-02-27 00:00:00.0
Site name:	HUGHES AIRCRAFT CO/MISSLE R&D
Classification:	Large Quantity Generator
Date form received by agency:	1980-08-18 00:00:00.0
Site name:	HUGHES AIRCRAFT COMPANY
Classification:	Large Quantity Generator

Corrective Action Summary:

Event date:	1991-07-29 00:00:00.0
Event:	LEAD AGENCY DETERMINATION
Event date:	1991-07-29 00:00:00.0
Event:	PA OR CERCLA INSPECTION
Event date:	1991-07-29 00:00:00.0
Event:	NCAPS RANKING/PRIORITY
Event date:	1991-07-29 00:00:00.0
Event:	CA PRIORITIZATION-LOW CA PRIORITY
Event date:	1991-07-29 00:00:00.0
Event:	RFA COMPLETED
Event date:	Not reported
Event:	REEVALUATE IN FY
Event date:	Not reported
Event:	INVESTIGATION IMPOSITION

Facility Has Received Notices of Violations:

Regulation violated:	Not reported
Area of violation:	TSD - General

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Date violation determined: 2007-12-19 00:00:00.0
Date achieved compliance: 2008-03-04 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2008-02-07 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 2007-12-19 00:00:00.0
Date achieved compliance: 2009-01-02 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2008-02-07 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 2007-12-19 00:00:00.0
Date achieved compliance: 2009-01-02 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2008-02-07 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 2007-12-19 00:00:00.0
Date achieved compliance: 2008-03-04 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2008-02-07 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 2007-12-19 00:00:00.0

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Date achieved compliance: 2008-03-04 00:00:00.0
Violation lead agency: State
Enforcement action: SINGLE SITE CA/FO
Enforcement action date: 2009-01-02 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 20000
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 2007-12-19 00:00:00.0
Date achieved compliance: 2008-03-04 00:00:00.0
Violation lead agency: State
Enforcement action: SINGLE SITE CA/FO
Enforcement action date: 2009-01-02 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 20000
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General Facility Standards
Date violation determined: 1994-08-23 00:00:00.0
Date achieved compliance: 1994-09-22 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1994-08-23 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 500
Final penalty amount: 500
Paid penalty amount: 500

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 1991-11-22 00:00:00.0
Date achieved compliance: 1994-06-01 00:00:00.0
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 1991-04-24 00:00:00.0
Date achieved compliance: 1991-05-28 00:00:00.0

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1991-06-07 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 1989-02-22 00:00:00.0
Date achieved compliance: 1990-10-15 00:00:00.0
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 1989-07-06 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5500
Paid penalty amount: 5500

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 1989-02-22 00:00:00.0
Date achieved compliance: 1990-10-15 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1989-04-06 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 1989-02-22 00:00:00.0
Date achieved compliance: 1990-10-15 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1989-04-06 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 1989-02-22 00:00:00.0
Date achieved compliance: 1990-10-15 00:00:00.0
Violation lead agency: State

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 1989-07-06 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5500
Paid penalty amount: 5500

Evaluation Action Summary:
Evaluation date: 2014-06-26 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2012-03-01 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2009-04-14 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2009-03-26 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2008-03-04 00:00:00.0
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2007-12-19 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 2008-03-04 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2007-12-19 00:00:00.0
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2007-12-19 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: 2008-03-04 00:00:00.0
Evaluation lead agency: State

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Evaluation date: 2007-12-19 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: 2009-01-02 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2007-12-19 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 2009-01-02 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2007-12-05 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2007-06-20 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2007-06-12 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2006-06-29 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2006-06-15 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2004-05-26 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1996-05-22 00:00:00.0
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1995-08-09 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1994-11-10 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1994-06-01 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General Facility Standards
Date achieved compliance: 1994-09-22 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1994-04-06 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 1991-11-22 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 1994-06-01 00:00:00.0
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 1991-04-24 00:00:00.0
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: TSD - General
Date achieved compliance: 1991-05-28 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1989-02-22 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 1990-10-15 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1989-02-22 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1990-10-15 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1989-02-21 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

ENVIROSTOR:
Name: HUGHES AIRCRAFT COMPANY
Address: 8433 FALLBROOK AVENUE
City,State,Zip: CANOGA PARK, CA 91304
Facility ID: 19360344
Status: Refer: RCRA
Status Date: 05/01/1995

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Site Code: Not reported
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Chatsworth
Assembly: 45
Senate: 27
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.22444
Longitude: -118.6236
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: RAYTHEON SYSTEMS CO
Alias Type: Alternate Name
Alias Name: THOMPSON-RAMCO-WOOL-RIDGE
Alias Type: Alternate Name
Alias Name: CAD041162124
Alias Type: EPA Identification Number
Alias Name: 110000609477
Alias Type: EPA (FRS #)
Alias Name: 19360344
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 04/15/1988
Comments: SITE SCREENING DONE UNABLE TO VEIW COMPLEX DURING DRIVE-BY PA MED DUE TO LACK OF INFO.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 10/22/1982
Comments: FACILITY IDENTIFIED ID FROM LA CHAM COMM DIR 1963-64. COMPUTERS, MISSILE COMPONENTS.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Name:	RAYTHEON SYSTEMS CO
Address:	8433 FALLBROOK AVE
City,State,Zip:	CANOGA PARK, CA 913040000
Facility ID:	80001366
Status:	Active
Status Date:	06/15/2009
Site Code:	301758
Site Type:	Corrective Action
Site Type Detailed:	Corrective Action
Acres:	86
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	WM
Program Manager:	Jessy Fierro
Supervisor:	Allan Plaza
Division Branch:	Cleanup Chatsworth
Assembly:	45
Senate:	27
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	34.22354
Longitude:	-118.6236
APN:	NONE SPECIFIED
Past Use:	HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, RESEARCH - AEROSPACE, UNDERGROUND STORAGE TANKS, WASTE - INDUSTRIAL WASTE LINE
Potential COC:	Arsenic Benzene Total Chromium (1:6 ratio Cr VI:Cr III Radioactive Isotopes Tetrachloroethylene (PCE TPH-diesel 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride Beryllium and compounds Cadmium and compounds Chromium VI 1,1-Dichloroethane 1,2-Dichloroethane (EDC 1,1-Dichloroethylene Trichlorofluoromethane Uranium
Confirmed COC:	30001-NO Benzene Trichlorofluoromethane 30020-NO Tetrachloroethylene (PCE TPH-diesel 1,1,1-Trichloroethane (TCA Cadmium and compounds Chromium VI 1,1-Dichloroethane 1,2-Dichloroethane (EDC 30586-NO Trichloroethylene (TCE 1,1-Dichloroethylene Beryllium and compounds Vinyl chloride Total Chromium (1:6 ratio Cr VI:Cr III
Potential Description:	OTH, SOIL, SV
Alias Name:	HUGHES AIRCRAFT COMPANY
Alias Type:	Alternate Name
Alias Name:	CAD041162124
Alias Type:	EPA Identification Number
Alias Name:	110000609477
Alias Type:	EPA (FRS #)
Alias Name:	300336
Alias Type:	Project Code (Site Code)
Alias Name:	301758
Alias Type:	Project Code (Site Code)
Alias Name:	19360344
Alias Type:	Envirostor ID Number
Alias Name:	80001366
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	RCRA Facility Assessment Report

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Completed Date: 11/10/2009
Comments: Further action to be determined.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 07/29/1991
Comments: RFA was sent to Raytheon Misslie Systems on February 4, 2008

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/05/2008
Comments: This memo outlines condition to which development can occur at the site without impeding site cleanup.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 07/29/1991
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 04/11/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 09/06/2013
Comments: Comments reviewed by GSU project staff and completed on 9/4/2013

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Triage Meeting
Completed Date: 05/28/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Soil/Site Management Plan
Completed Date: 05/08/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Soil/Site Management Plan
Completed Date: 12/18/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Soil/Site Management Plan
Completed Date: 05/12/2009
Comments: Not reported

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 09/17/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 07/29/1991
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 10/27/2009
Comments: Final letter sent to developer.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/20/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/27/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 07/08/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 01/10/2012
Comments: DTSC approved Appendix A4 for the Soil Management Plan

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/18/2013
Comments: DTSC-Geologist completed review on 7/18/2013

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/18/2013
Comments: GSU completed review 7/18/2013

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Completed Date: 09/02/2016
Comments: DTSC reviewed historical documents and identified activities necessary for Site Closure with regards to residential use.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/15/2017
Comments: DTSC sent response to Raytheon and Regional Water Quality Control Board (RWQCB) notifying parties that additional soil and groundwater sampling should be performed prior to RWQCB providing No Further Action on Southern Parcels.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 913040352
Status: Remedial action (cleanup) Underway
Substance: Solvents
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: Excavate and Dispose
Global ID: T0603702098
W Global ID: W0605100510
Staff: SLC
Local Agency: 19050
Cross Street: ECCLES ST
Enforcement Type: Not reported
Date Leak Discovered: 6/20/1988
Date Leak First Reported: 1/29/1985
Date Leak Record Entered: 12/31/1986
Date Confirmation Began: Not reported
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 7/15/1998
Date the Case was Closed: Not reported
How Leak Discovered: Tank Closure
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: Not reported
Water System: VIRGINIA LKS. MUT. WATER CO.
Well Name: Not reported
Approx. Dist To Production Well (ft): 13531.155956221583606583331749
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: Not reported

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	4/21/1988
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	3/10/1992
Post Remedial Action Monitoring Began:	Not reported
Enforcement Action Date:	Not reported
Historical Max MTBE Date:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil:	Not reported
Significant Interim Remedial Action Taken:	Yes
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	HUGHES AIRCRAFT COMPANY
RP Address:	SAME AS SITE
Program:	SLIC
Lat/Long:	34.224103 / -1
Local Agency Staff:	PEJ
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	2600510-001GEN
Summary:	QTRLY G/W MON. SOLVENT & TRACE METAL CONTAMINATION. 9-21-88 UPDATE-REDRILLING WELLS 1ST ONE DRY. 4-89 UPDATE-SAP FOR NEWWELLS EXPECTED. 07/15/98 - GW & REMEDIATION SYSTEM MON 1998 Q

CPS-SLIC:

Name:	HUGHES MISSILE SYSTEMS CO (FORMER)
Address:	8433 FALLBROOK AVE
City,State,Zip:	CANOGA PARK, CA
Region:	STATE
Facility Status:	**Open - Remediation**
Status Date:	06/30/2002
Global Id:	SL2043T1572
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	34.224235
Longitude:	-118.623812
Case Type:	Cleanup Program Site
Case Worker:	EHW
Local Agency:	Not reported
RB Case Number:	0693
File Location:	All Files are on GeoTracker or in the Local Agency Database
Potential Media Affected:	Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern:	Not reported
Site History:	In 1959, the 8433 Fallbrook Avenue property was developed as an industrial park by Bunker Ramo, an electrical component design and testing company. Bunker-Ramo was the sole occupant of the facility from 1959 until 1966. From 1966 to 1976, Hughes was a co-occupant with Rocketdyne, a division of Rockwell International, and Bunker-Ramo. Hughes purchased the entire Site in the mid-1970s and became the sole occupant, operating as an aerospace research and development facility. The former facility was purchased from Hughes by Coast Federal Bank in May 1995. Parcels were subsequently

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

purchased by DeVry and the Los Angeles Metropolitan Police Department. The northern portion of the Site was sold to Regent Properties, Inc. in 1997. Regent sold its portion of the property to Shamrock Holdings, Inc. in 2001, who in turn, sold the property to MEPT West Hills, LLC (MEPT) in June 2002. In 2007, MEPT purchased the DeVry parcel and they remain the property owner for the entire property except for the Los Angeles Metropolitan Police Department parcel. CB Richard Ellis is the current property manager and is the primary contact for Site logistical issues. Through a merger with Hughes in 1997, Raytheon assumed management of the environmental investigations and remediation activities at the Site. Remediation techniques used at the Site have included remedial excavation, a groundwater recovery and treatment system, a soil vapor extraction system, and an air sparge system. Reference: Corrective Action Plan Add. No. 5 Workplan for Insitu Chemical Oxidation and Enhanced Insitu Bioremediation dated 12/2015

Click here to access the California GeoTracker records for this facility:

US FIN ASSUR:

Name:	HUGHES AIRCRAFT COMPANY
Address:	8433 FALLBROOK AVENUE
City,State,Zip:	CANOGA PARK, CA 91304
EPA ID:	CAD041162124
County:	Not reported
Mechanism type:	L
Mechanism Type Description:	LETTER OF CREDIT
Cost estimate:	715765
Face value:	715765
Effective date:	2009-05-20 00:00:00
Provider:	INTESA SANPAOLO
EPA region:	9

Name:	HUGHES AIRCRAFT COMPANY
Address:	8433 FALLBROOK AVENUE
City,State,Zip:	CANOGA PARK, CA 91304
EPA ID:	CAD041162124
County:	Not reported
Mechanism type:	X
Mechanism Type Description:	STANDBY TRUST FUND
Cost estimate:	715765
Face value:	0
Effective date:	2003-06-18 00:00:00
Provider:	U.S. BANK
EPA region:	9

FINDS:
Registry ID: 110000609477

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

corrective action activities required under RCRA.
HAZARDOUS AIR POLLUTANT MAJOR
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
- Envid: 1000240986
- Registry ID: 110000609477
- DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110000609477
- Name: HUGHES MISSILE SYSTEMS CO
- Address: 8433 FALLBROOK AVENUE
- City,State,Zip: CANOGA PARK, CA 91304

ICE:
- Envirostor ID: 3000175
- Name: RAYTHEON SYSTEMS CO
- Address: 8433 FALLBROOK AVE
- City,State,Zip: CANOGA PARK, CA 91304
- EPA ID: CAD041162124
- Site Type: INSPECTION
- Facility Status: No Action

Enforcement:
- Action Type: Consent Order with Enforcement and Settlement - Federal CA/FO (385)
- Action Date: 01/02/2009

Inspection:
- Action Type: Financial Records Review - Treatment, Storage and Disposal
- Action Date: 06/29/2006
- Violation Class: No Violations
- RTC Date: Not reported

- Action Type: Financial Records Review - Treatment, Storage and Disposal
- Action Date: 12/05/2007
- Violation Class: No Violations
- RTC Date: Not reported

- Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
- Action Date: 06/15/2006
- Violation Class: No Violations
- RTC Date: Not reported

- Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
- Action Date: 06/12/2007
- Violation Class: No Violations
- RTC Date: Not reported

- Action Type: Financial Records Review - Treatment, Storage and Disposal
- Action Date: 04/14/2009
- Violation Class: No Violations
- RTC Date: Not reported

- Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
- Action Date: 03/26/2009
- Violation Class: No Violations

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

RTC Date: Not reported

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 06/20/2007
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 12/19/2007
Violation Class: Class 1, Class 2
RTC Date: 01/02/2009

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 05/26/2004
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 03/01/2012
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 06/26/2014
Violation Class: No Violations
RTC Date: Not reported

HIST CORTESE:
edr_fname: HUGHES AIRCRAFT (FORMER)
edr_fadd1: 8433 FALLBROOK
City,State,Zip: CANOGA PARK, CA 91304
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 913040352

HWP:
Name: RAYTHEON SYSTEMS CO
Address: 8433 FALLBROOK AVE
City,State,Zip: CANOGA PARK, CA 913040000
EPA Id: CAD041162124
Cleanup Status: CLOSED
Latitude: 34.22354
Longitude: -118.6236
Facility Type: Historical - Non-Operating
Facility Size: Not reported
Team: Not reported
Supervisor: Not reported
Site Code: 300336
Assembly District: 45
Senate District: 27
Public Information Officer: Not reported
Public Information Officer: Not reported

Activities:
EPA Id: CAD041162124

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1
Event Description: Renewal - Historical - APPLICATION PART B RECEIVED
Actual Date: 12/18/1989

EPA Id: CAD041162124
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1
Event Description: New Operating Permit - FINAL PERMIT (EXPIRES)
Actual Date: 06/28/1990

EPA Id: CAD041162124
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1
Event Description: New Operating Permit - CALL-IN LETTER ISSUED
Actual Date: 03/21/1983

EPA Id: CAD041162124
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1
Event Description: New Operating Permit - APPLICATION PART A RECEIVED
Actual Date: 11/18/1980

EPA Id: CAD041162124
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1
Event Description: New Operating Permit - APPLICATION PART B RECEIVED
Actual Date: 05/13/1983

EPA Id: CAD041162124
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1
Event Description: New Operating Permit - PUBLIC COMMENT (BEGIN)
Actual Date: 04/26/1985

EPA Id: CAD041162124
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1
Event Description: New Operating Permit - FINAL PERMIT
Actual Date: 06/28/1985

EPA Id: CAD041162124
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1
Event Description: New Operating Permit - FINAL PERMIT (EFFECTIVE)
Actual Date: 06/28/1985

Closure:
EPA Id: CAD041162124
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1
Event Description: Closure Final - ISSUE CLOSURE VERIFICATION
Actual Date: 06/27/1996

Alias:
EPA Id: CAD041162124

HUGHES AIRCRAFT COMPANY (Continued) **1000240986**

Facility Type: Historical - Non-Operating
Alias Type: FRS
Alias: 110000609477

EPA Id: CAD041162124
Facility Type: Historical - Non-Operating
Alias Type: Envirostor ID Number
Alias: 19360344

EPA Id: CAD041162124
Facility Type: Historical - Non-Operating
Alias Type: Project Code (Site Code)
Alias: 300336

EPA Id: CAD041162124
Facility Type: Historical - Non-Operating
Alias Type: Alternate Name
Alias: HUGHES AIRCRAFT COMPANY

CERS:
Name: HUGHES MISSILE SYSTEMS CO (FORMER)
Address: 8433 FALLBROOK AVE
City,State,Zip: CANOGA PARK, CA
Site ID: 225837
CERS ID: SL2043T1572
CERS Description: Cleanup Program Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: EMILY WONG - LOS ANGELES RWQCB (REGION 4)
Entity Title: Not reported
Affiliation Address: 320 W. 4TH ST., SUITE 200
Affiliation City: LOS ANGELES
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

C11 **HUGHES AIRCRAFT CO** **HAZMAT** **S123542357**
NE **8433 N FALLBROOK AVE RM 1360C** **N/A**
< 1/8 **CANOGA PARK, CA 91304**
0.002 mi.
12 ft. **Site 5 of 7 in cluster C**

Relative:
Higher

Actual:
853 ft.

LOS ANGELES HM:
Name: HUGHES AIRCRAFT CO
Address: 8433 N FALLBROOK AVE RM 1360C
City,State,Zip: CANOGA PARK, CA 91304
Facility ID: FA0003308
Last Run Date: 06/01/2019
Status: INACTIVE

C12
NE
< 1/8
0.002 mi.
12 ft.

MISSILE SYSTEMS JGROUP
8433 FALLBROOK AVENUE
CANOGA PARK, CA 91304

Site 6 of 7 in cluster C

CPS-SLIC **1005984143**
HIST UST **N/A**

Relative:
Higher

Actual:
853 ft.

SLIC REG 4:

Region:	4
Facility Status:	Remediation
SLIC:	0693
Substance:	VOCs
Staff:	TTW

HIST UST:

Name:	MISWLE SYSTEMS GROUP
Address:	8433 FALLBROOK AVENUE
City,State,Zip:	CANOGA PARK, CA 91304
File Number:	00026ECB
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00026ECB.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

C13
NE
< 1/8
0.002 mi.
12 ft.

HUGHES AIRCRAFT COMPANY
8433 FALLBROOK AVE
CANOGA PARK, CA 91304

Site 7 of 7 in cluster C

SWEEPS UST
CA FID UST
CERS

S101582682
N/A

Relative:
Higher

Actual:
853 ft.

SWEEPS UST:

Name:	HUGHES AIRCRAFT COMPANY
Address:	8433 FALLBROOK AVE
City:	CANOGA PARK
Status:	Not reported
Comp Number:	1994
Number:	Not reported
Board Of Equalization:	44-012123
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-001994-000001
Tank Status:	Not reported
Capacity:	12000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	14

Name:	HUGHES AIRCRAFT COMPANY
Address:	8433 FALLBROOK AVE
City:	CANOGA PARK
Status:	Not reported
Comp Number:	1994
Number:	Not reported
Board Of Equalization:	44-012123
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-001994-000002
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Name:	HUGHES AIRCRAFT COMPANY
Address:	8433 FALLBROOK AVE
City:	CANOGA PARK
Status:	Not reported
Comp Number:	1994
Number:	Not reported
Board Of Equalization:	44-012123
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-001994-000003

HUGHES AIRCRAFT COMPANY (Continued) **S101582682**

Tank Status: Not reported
Capacity: 4000
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: UNKNOWN
Number Of Tanks: Not reported

Name: HUGHES AIRCRAFT COMPANY
Address: 8433 FALLBROOK AVE
City: CANOGA PARK
Status: Not reported
Comp Number: 1994
Number: Not reported
Board Of Equalization: 44-012123
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-001994-000004
Tank Status: Not reported
Capacity: 500
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: UNKNOWN
Number Of Tanks: Not reported

Name: HUGHES AIRCRAFT COMPANY
Address: 8433 FALLBROOK AVE
City: CANOGA PARK
Status: Not reported
Comp Number: 1994
Number: Not reported
Board Of Equalization: 44-012123
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-001994-000005
Tank Status: Not reported
Capacity: 500
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: UNKNOWN
Number Of Tanks: Not reported

Name: HUGHES AIRCRAFT COMPANY
Address: 8433 FALLBROOK AVE
City: CANOGA PARK
Status: Not reported
Comp Number: 1994
Number: Not reported
Board Of Equalization: 44-012123
Referral Date: Not reported
Action Date: Not reported

HUGHES AIRCRAFT COMPANY (Continued) **S101582682**

Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-001994-000006
Tank Status:	Not reported
Capacity:	12000
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	PRODUCT
Content:	UNKNOWN
Number Of Tanks:	Not reported

Name:	HUGHES AIRCRAFT COMPANY
Address:	8433 FALLBROOK AVE
City:	CANOGA PARK
Status:	Not reported
Comp Number:	1994
Number:	Not reported
Board Of Equalization:	44-012123
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-001994-000007
Tank Status:	Not reported
Capacity:	12000
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	PRODUCT
Content:	UNKNOWN
Number Of Tanks:	Not reported

Name:	HUGHES AIRCRAFT COMPANY
Address:	8433 FALLBROOK AVE
City:	CANOGA PARK
Status:	Not reported
Comp Number:	1994
Number:	Not reported
Board Of Equalization:	44-012123
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-001994-000008
Tank Status:	Not reported
Capacity:	12000
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	PRODUCT
Content:	UNKNOWN
Number Of Tanks:	Not reported

Name:	HUGHES AIRCRAFT COMPANY
Address:	8433 FALLBROOK AVE
City:	CANOGA PARK
Status:	Not reported
Comp Number:	1994
Number:	Not reported

HUGHES AIRCRAFT COMPANY (Continued) **S101582682**

Board Of Equalization: 44-012123
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-001994-000009
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: UNKNOWN
Number Of Tanks: Not reported

Name: HUGHES AIRCRAFT COMPANY
Address: 8433 FALLBROOK AVE
City: CANOGA PARK
Status: Not reported
Comp Number: 1994
Number: Not reported
Board Of Equalization: 44-012123
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-001994-000010
Tank Status: Not reported
Capacity: 85
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: UNKNOWN
Number Of Tanks: Not reported

Name: HUGHES AIRCRAFT COMPANY
Address: 8433 FALLBROOK AVE
City: CANOGA PARK
Status: Not reported
Comp Number: 1994
Number: Not reported
Board Of Equalization: 44-012123
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-001994-000011
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: UNKNOWN
Number Of Tanks: Not reported

Name: HUGHES AIRCRAFT COMPANY
Address: 8433 FALLBROOK AVE
City: CANOGA PARK

HUGHES AIRCRAFT COMPANY (Continued) **S101582682**

Status: Not reported
Comp Number: 1994
Number: Not reported
Board Of Equalization: 44-012123
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-001994-000012
Tank Status: Not reported
Capacity: 40
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: UNKNOWN
Number Of Tanks: Not reported

Name: HUGHES AIRCRAFT COMPANY
Address: 8433 FALLBROOK AVE
City: CANOGA PARK
Status: Not reported
Comp Number: 1994
Number: Not reported
Board Of Equalization: 44-012123
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-001994-000013
Tank Status: Not reported
Capacity: 1687
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: UNKNOWN
Number Of Tanks: Not reported

Name: HUGHES AIRCRAFT COMPANY
Address: 8433 FALLBROOK AVE
City: CANOGA PARK
Status: Not reported
Comp Number: 1994
Number: Not reported
Board Of Equalization: 44-012123
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-001994-000014
Tank Status: Not reported
Capacity: 135000
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: UNKNOWN
Number Of Tanks: Not reported

HUGHES AIRCRAFT COMPANY (Continued) **S101582682**

CA FID UST:
Facility ID: 19001041
Regulated By: UTNKI
Regulated ID: 00035465
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 8187021014
Mail To: Not reported
Mailing Address: 8433 FALLBROOK AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: CANOGA PARK 913040000
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

CERS:
Name: HUGHES MISSILE SYSTEMS CO
Address: 8433 FALLBROOK AVENUE
City,State,Zip: CANOGA PARK, CA 91304-3226
Site ID: 473035
CERS ID: 110000609477
CERS Description: US EPA Air Emission Inventory System (EIS)

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: EMILY WONG LOS ANGELES RWQCB REGN 4TH
Entity Title: Not reported
Affiliation Address: 320 W 4TH ST NA SUITE 200
Affiliation City: LOSANGELES
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

D14 **QBE AMERICAS INC** **HAZMAT** **S123513255**
ENE **8407 FALLBROOK AVE** **CERS** **N/A**
< 1/8 **WEST HILLS, CA 91304**
0.002 mi.
13 ft. **Site 1 of 4 in cluster D**

Relative:
Higher

Actual:
850 ft.

LOS ANGELES HM:
Name: QBE AMERICAS INC
Address: 8407 FALLBROOK AVE
City,State,Zip: WEST HILLS, CA 91304
Facility ID: FA0039995
Last Run Date: 06/01/2019
Status: ACTIVE

CERS:
Name: QBE AMERICAS INC
Address: 8407 FALLBROOK AVENUE
City,State,Zip: WEST HILLS, CA 91304

QBE AMERICAS INC (Continued) **S123513255**

Site ID: 364982
CERS ID: 10661422
CERS Description: Chemical Storage Facilities

Affiliation:
Affiliation Type Desc: Operator
Entity Name: Jennifer Clough
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (608) 318-8241

Affiliation Type Desc: Document Preparer
Entity Name: Jennifer Clough
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: Jennifer Clough
Entity Title: Not reported
Affiliation Address: One QBE Way
Affiliation City: Sun Prairie
Affiliation State: WI
Affiliation Country: Not reported
Affiliation Zip: 53596
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner
Entity Name: BSREP West Hills Office Campus LLC c/o
Entity Title: Not reported
Affiliation Address: 8521 Fallbrook Ave
Affiliation City: West Hills
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91304
Affiliation Phone: (818) 610-8400

Affiliation Type Desc: CUPA District
Entity Name: Los Angeles City Fire Department
Entity Title: Not reported
Affiliation Address: 200 North Main Street, Room 1780
Affiliation City: Los Angeles
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 90012
Affiliation Phone: (213) 978-3680

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported

QBE AMERICAS INC (Continued) **S123513255**

Affiliation Address:	8407 Fallbrook Avenue
Affiliation City:	West Hills
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91304
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Jennifer Clough
Entity Title:	AVP Lead Environmental Health Safety
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	QBE Americas Inc
Entity Title:	Not reported
Affiliation Address:	One QBE Way
Affiliation City:	Sun Prairie
Affiliation State:	WI
Affiliation Country:	United States
Affiliation Zip:	53596
Affiliation Phone:	(608) 318-8241
Affiliation Type Desc:	Parent Corporation
Entity Name:	QBE Americas Inc
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

D15 **QUEST DIAGNOSTICS** **AST** **A100423649**
ENE **8403 N FALLBROOK AVE** **N/A**
< 1/8 **WEST HILLS, CA 91304**
0.003 mi.
14 ft. **Site 2 of 4 in cluster D**

Relative: AST:
Higher

Actual: Name: QUEST DIAGNOSTICS
850 ft. Address: 8403 N FALLBROOK AVE
City/Zip: WEST HILLS,91304
Certified Unified Program Agencies: Not reported
Owner: QUEST DIAGNOSTICS
Total Gallons: Not reported
CERSID: 10259932
Facility ID: Not reported
Business Name: QUEST DIAGNOSTICS
Phone: (800) 877-2515
Fax: Not reported
Mailing Address: 8401 FALLBROOK AVE
Mailing Address City: WEST HILLS

QUEST DIAGNOSTICS (Continued) **A100423649**

Mailing Address State:	CA
Mailing Address Zip Code:	91304
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	(818) 737-6261
Owner Mail Address:	18408 OXNARD ST
Owner State:	CA
Owner Zip Code:	91356
Owner Country:	United States
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

D16 **QUEST DIAGNOSTICS** **RCRA-LQG** **1008402418**
ENE **8403 FALLBROOK AVENUE** **CAR000164996**
< 1/8 **WEST HILLS, CA 91304**
0.003 mi.
14 ft. **Site 3 of 4 in cluster D**

Relative:
Higher

Actual:
850 ft.

RCRA-LQG:

Date form received by agency:	2005-08-24 00:00:00.0
Facility name:	QUEST DIAGNOSTICS
Facility address:	8403 FALLBROOK AVENUE WEST HILLS, CA 91304
EPA ID:	CAR000164996
Mailing address:	18408 OXNARD ST TARZANA, CA 91356
Contact:	WALTER PROBER
Contact address:	18408 OXNARD ST TARZANA, CA 91356
Contact country:	US
Contact telephone:	818-996-7300
Telephone ext.:	6615
Contact email:	Not reported
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	QUEST DIAGNOSTICS
Owner/operator address:	Not reported

QUEST DIAGNOSTICS (Continued) **1008402418**

Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 2004-03-31 00:00:00.
Owner/Op end date: Not reported

Owner/operator name: QUEST DIAGNOSTICS
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 2004-03-31 00:00:00.
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D009
. Waste name: MERCURY

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT

QUEST DIAGNOSTICS (Continued) **1008402418**

MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

D17 **QUEST DIAGNOSTICS** **AST** **S123533290**
ENE **8403 FALLBROOK AVE** **CERS HAZ WASTE** **N/A**
< 1/8 **WEST HILLS, CA 91304** **CERS TANKS**
0.003 mi. **HAZMAT**
14 ft. **Site 4 of 4 in cluster D**

Relative: Higher
Actual: 850 ft.

LOS ANGELES AST:
Facility ID: FA0036225
Name: QUEST DIAGNOSTICS
Address: 8403 FALLBROOK AVE
City,State,Zip: WEST HILLS, CA 91304
Last Run Date: 06/01/2019
Status: ACTIVE

CERS HAZ WASTE:
Name: QUEST DIAGNOSTICS
Address: 8403 FALLBROOK AVE
City,State,Zip: CANOGA PARK, CA 91304
Site ID: 59492
CERS ID: 10259932
CERS Description: Hazardous Waste Generator

Violations:
Site ID: 59492
Site Name: QUEST DIAGNOSTICS
Violation Date: 11-14-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division: Los Angeles City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 59492
Site Name: QUEST DIAGNOSTICS
Violation Date: 06-24-2016
Citation: HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description: Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division: Los Angeles City Fire Department

QUEST DIAGNOSTICS (Continued) **S123533290**

Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	59492
Site Name:	QUEST DIAGNOSTICS
Violation Date:	03-28-2019
Citation:	22 CCR 12 66262.34(e) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(e)
Violation Description:	Failure to meet the following conditions of satellite accumulation regulations: G Accumulate up to 55 gallons of hazardous waste or one quart of acute hazardous waste at or near the initial point of accumulation which was under the control of the operator. G Total time hazardous waste can be accumulated onsite in any generator accumulation area is one year, i.e., the combined accmulation time at a satellite accumulation point and at a 90/180/270 accumulation area (depending on size of generator and distance transported), whichever comes first. G The generator complies with section 66265.171, 66265.172, and 66265.173(a). G The container must be clearly marked with the initial date that hazardous waste is first placed in the container and labelled with the words G Hazardous WasteG including specified information G Container must be labelled with the date the satellite accumulation limit is reached and moved within three days after reaching the 55 gallon (or one quart) limit to a G 90 dayG accumulation area G 55 gallons (or one quart of acute hazardous waste) of waste per process may be accumulated
Violation Notes:	Returned to compliance on 04/16/2019. OBSERVATION: Failure of the Owner/Operator to comply with one or more satellite accumulation requirements. Waste containers not properly dated. CORRECTIVE ACTION: Ensure that all hazardous wastes being accumulated pursuant to satellite accumulation meet all applicable requirements and submit documentation of compliance to the CUPA. Use labeled satellite accumulation labels.
Violation Division:	Los Angeles County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	59492
Site Name:	QUEST DIAGNOSTICS
Violation Date:	06-24-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division:	Los Angeles City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	59492
Site Name:	QUEST DIAGNOSTICS
Violation Date:	11-14-2016
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the

QUEST DIAGNOSTICS (Continued) **S123533290**

	business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division:	Los Angeles City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	59492
Site Name:	QUEST DIAGNOSTICS
Violation Date:	06-24-2016
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division:	Los Angeles City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	59492
Site Name:	QUEST DIAGNOSTICS
Violation Date:	11-14-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division:	Los Angeles City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	59492
Site Name:	QUEST DIAGNOSTICS
Violation Date:	06-24-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division:	Los Angeles City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	59492
Site Name:	QUEST DIAGNOSTICS

QUEST DIAGNOSTICS (Continued) **S123533290**

Violation Date:	11-14-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division:	Los Angeles City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	59492
Site Name:	QUEST DIAGNOSTICS
Violation Date:	06-24-2016
Citation:	19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes:	Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division:	Los Angeles City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	59492
Site Name:	QUEST DIAGNOSTICS
Violation Date:	06-24-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division:	Los Angeles City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	59492
Site Name:	QUEST DIAGNOSTICS
Violation Date:	11-14-2016
Citation:	HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description:	Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.
Violation Notes:	Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date

QUEST DIAGNOSTICS (Continued) **S123533290**

Violation Division: Los Angeles City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 59492
Site Name: QUEST DIAGNOSTICS
Violation Date: 11-14-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division: Los Angeles City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 59492
Site Name: QUEST DIAGNOSTICS
Violation Date: 09-27-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Observation: chemical inventories are listed under two separate CERS ID and do not appear accurate. Corrective action: please ensure that the storage for the individual ID's is accurate as to site locations. All diesel is to be tracked under 8403 address as this CERS ID tracks the APSA storage.
Violation Division: Los Angeles City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 59492
Site Name: QUEST DIAGNOSTICS
Violation Date: 06-24-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division: Los Angeles City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 59492
Site Name: QUEST DIAGNOSTICS
Violation Date: 11-14-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate training program in safety procedures in the event of a release or threatened

QUEST DIAGNOSTICS (Continued) **S123533290**

release of a hazardous material.
Violation Notes: Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division: Los Angeles City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 59492
Site Name: QUEST DIAGNOSTICS
Violation Date: 11-14-2016
Citation: 19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes: Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division: Los Angeles City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 59492
Site Name: QUEST DIAGNOSTICS
Violation Date: 06-24-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division: Los Angeles City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 59492
Site Name: QUEST DIAGNOSTICS
Violation Date: 11-14-2016
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division: Los Angeles City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 59492
Site Name: QUEST DIAGNOSTICS
Violation Date: 11-14-2016
Citation: HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95,

QUEST DIAGNOSTICS (Continued) **S123533290**

Section(s) 25507
Violation Description: Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division: Los Angeles City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 59492
Site Name: QUEST DIAGNOSTICS
Violation Date: 06-24-2016
Citation: HSC 6.95 25510(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25510(a)
Violation Description: Failure to report a release or threatened release of a hazardous material to the unified program agency and to OES.
Violation Notes: Not reported
Violation Division: Los Angeles City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-28-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Martha O'Murray
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-27-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Consent to enter, inspect and take photographs was given on this date by: Martha O'Murray Permit is valid and posted Yes Inspector walked and verified the locations and quantity of hazardous materials as it relates to the business plan. SPCC reviewed on site. SPCC reviewed on site for APSA compliance. Document review in CERS and field verification this date identified the following: 1. SPCC will be related to both generators and will relate to address 8403 Address since that is the primary facility address currently for both APSA and HMBP. You can report both amounts of diesel in inventory separately as they are separate tanks and locations. 2. Chemical inventories other than diesel need to reflect actual locations at either 8403 Fallbrook or 8401 Fallbrook. Currently the inventories appear to be reversed as to the actual storage on site. 8401 should be larger inventory site. NOTE: To legally operate a business operating with hazardous materials in the City of [Truncated]
Eval Division: Los Angeles City Fire Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection

QUEST DIAGNOSTICS (Continued) **S123533290**

Eval Date:	09-27-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Consent to enter, inspect and take photographs was given on this date by: Martha O'Murray Permit is valid and posted Yes Inspector walked and verified the locations and quantity of hazardous materials as it relates to the business plan. SPCC reviewed on site for APSA compliance. Document review in CERS and field verification this date identified the following: 1. SPCC will be related to both generators and will relate to address 8403 Address since that is the primary facility address currently for both APSA and HMBP. You can report both amounts of diesel in inventory separately as they are separate tanks and locations. 2. Chemical inventories other than diesel need to reflect actual locations at either 8403 Fallbrook or 8401 Fallbrook. Currently the inventories appear to be reversed as to the actual storage on site. 8401 should be larger inventory site. NOTE: To legally operate a business operating with hazardous materials in the City of Los Angeles you must be [Truncated]
Eval Division:	Los Angeles City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-14-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Inspection Report Consent to enter, inspect and take photographs was given by: Martha O'murray Sr. EHS specialist No Documents uploaded to CERS were available to be reviewed and field verified. A previous inspection was performed on 6/24/16 by Inspector Bystrom. On that date notice of violation was written regarding CERS submittal. In addition the facility will be notified of the need to list 8403 and 8401 as separate addresses in CERS. During inspection viewed submittal of required info submitted to CERS id 10511053, LA county submittal. Martha O'Murray advised to review and upload to new CERS ID for this address. The following is a list items that need to be corrected: 1. As per previous inspection; update and submit: business plan, site inventory, site map, emergency response plan, and employee training. NOTE: The LAMC, Sections (L.A.M.C. SECTIONS 57.105.1.4; 57.120.3; 57.121.2 and 57.121.2.1.) requires business that store, uses or handle hazardous [Truncated]
Eval Division:	Los Angeles City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-24-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine hazardous materials and business emergency plan inspection. Consent to enter and inspect was given by Aileen Gener, Regional EH&S Manager, email:aileen.u.gener@questdiagnostics.com. Permit Posted Tier change from 4504 to 4505 Haz Mat Inventory 16 to 25 chemicals Observed the facility and inspected hazardous materials storage. Argon- 44,565 ft^3 Nitrogen - 73,800 ft^3 Carbon Dioxide - 19,560 ft^3 Air - 26,400 ft^3 Hydrogen - 7,200ft^3 Helium - 7,200 ft^3 Air(Moisture free) - 7,200 ft^3 CO2 9%/Hydrogen 5%/ Nitrogen 86% -

QUEST DIAGNOSTICS (Continued) **S123533290**

7,200 ft^3 Diesel - 5,400 gallons Propane - 568 ft^3 Alcohol - 96 gallons Xylene - 80 gallons Reagent Alcohol - 80 gallons Formalin -124 gallons Hazardous Waste Corrosive (Nitric/Sulfuric Acid waste UN3264) - 115 gallons Hazardous Waste Corrosive/Acidic (UN 3265) - 265 gallons Hazardous Waste Formalin Solids - 250 gallons Hazardous Waste Flammable Liquids (UN1993) - 825 gallons Hazardous Waste Non-RCRA - 220 [Truncated]

Eval Division: Los Angeles City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Affiliation:

Affiliation Type Desc: Document Preparer
Entity Name: aileen gener
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 8401 Fallbrook Avenue
Affiliation City: WEST HILLS
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91304
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner
Entity Name: Quest Diagnostics
Entity Title: Not reported
Affiliation Address: aileen.u.gener@questdiagnostics.com
Affiliation City: WEST HILLS
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91304
Affiliation Phone: (818) 737-6037

Affiliation Type Desc: Identification Signer
Entity Name: Aileen Gener
Entity Title: EHS Regional Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: Aileen Gener
Entity Title: Not reported
Affiliation Address: 8401 Fallbrook Avenue
Affiliation City: WEST HILLS

QUEST DIAGNOSTICS (Continued) **S123533290**

Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91304
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: QUEST DIAGNOSTICS
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (818) 737-6000

Affiliation Type Desc: Parent Corporation
Entity Name: QUEST DIAGNOSTICS
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: Los Angeles City Fire Department
Entity Title: Not reported
Affiliation Address: 200 North Main Street, Room 1780
Affiliation City: Los Angeles
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 90012
Affiliation Phone: (213) 978-3680

Affiliation Type Desc: Legal Owner
Entity Name: QUEST DIAGNOSTICS
Entity Title: Not reported
Affiliation Address: aileen.u.gener@questdiagnostics.com
Affiliation City: WEST HILLS
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91304
Affiliation Phone: (818) 737-6037

CERS TANKS:
Name: QUEST DIAGNOSTICS
Address: 8403 FALLBROOK AVE
City,State,Zip: CANOGA PARK, CA 91304
Site ID: 59492
CERS ID: 10259932
CERS Description: Aboveground Petroleum Storage

Violations:
Site ID: 59492
Site Name: QUEST DIAGNOSTICS

QUEST DIAGNOSTICS (Continued) **S123533290**

Violation Date:	11-14-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division:	Los Angeles City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	59492
Site Name:	QUEST DIAGNOSTICS
Violation Date:	06-24-2016
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description:	Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division:	Los Angeles City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	59492
Site Name:	QUEST DIAGNOSTICS
Violation Date:	03-28-2019
Citation:	22 CCR 12 66262.34(e) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(e)
Violation Description:	Failure to meet the following conditions of satellite accumulation regulations: G Accumulate up to 55 gallons of hazardous waste or one quart of acute hazardous waste at or near the initial point of accumulation which was under the control of the operator. G Total time hazardous waste can be accumulated onsite in any generator accumulation area is one year, i.e., the combined accmulation time at a satellite accumulation point and at a 90/180/270 accumulation area (depending on size of generator and distance transported), whichever comes first. G The generator complies with section 66265.171, 66265.172, and 66265.173(a). G The container must be clearly marked with the initial date that hazardous waste is first placed in the container and labelled with the words G Hazardous WasteG including specified information G Container must be labelled with the date the satellite accumulation limit is reached and moved within three days after reaching the 55 gallon (or one quart) limit to a G 90 dayG accumulation area G 55 gallons (or one quart of acute hazardous waste) of waste per process may be accumulated
Violation Notes:	Returned to compliance on 04/16/2019. OBSERVATION: Failure of the Owner/Operator to comply with one or more satellite accumulation requirements. Waste containers not properly dated. CORRECTIVE ACTION: Ensure that all hazardous wastes being accumulated pursuant to satellite accumulation meet all applicable requirements and submit documentation of compliance to the CUPA. Use labeled satellite accumulation labels.
Violation Division:	Los Angeles County Fire Department

QUEST DIAGNOSTICS (Continued) **S123533290**

Violation Program: HW
Violation Source: CERS

Site ID: 59492
Site Name: QUEST DIAGNOSTICS
Violation Date: 06-24-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division: Los Angeles City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 59492
Site Name: QUEST DIAGNOSTICS
Violation Date: 11-14-2016
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division: Los Angeles City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 59492
Site Name: QUEST DIAGNOSTICS
Violation Date: 06-24-2016
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division: Los Angeles City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 59492
Site Name: QUEST DIAGNOSTICS
Violation Date: 11-14-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.

QUEST DIAGNOSTICS (Continued) **S123533290**

Violation Notes:	Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division:	Los Angeles City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	59492
Site Name:	QUEST DIAGNOSTICS
Violation Date:	06-24-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division:	Los Angeles City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	59492
Site Name:	QUEST DIAGNOSTICS
Violation Date:	11-14-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division:	Los Angeles City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	59492
Site Name:	QUEST DIAGNOSTICS
Violation Date:	06-24-2016
Citation:	19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes:	Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division:	Los Angeles City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	59492
Site Name:	QUEST DIAGNOSTICS
Violation Date:	06-24-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material

QUEST DIAGNOSTICS (Continued) **S123533290**

	inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division:	Los Angeles City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	59492
Site Name:	QUEST DIAGNOSTICS
Violation Date:	11-14-2016
Citation:	HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description:	Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.
Violation Notes:	Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division:	Los Angeles City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	59492
Site Name:	QUEST DIAGNOSTICS
Violation Date:	11-14-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division:	Los Angeles City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	59492
Site Name:	QUEST DIAGNOSTICS
Violation Date:	09-27-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Observation: chemical inventories are listed under two separate CERS ID and do not appear accurate. Corrective action: please ensure that the storage for the individual ID's is accurate as to site locations. All diesel is to be tracked under 8403 address as this CERS ID tracks the APSA storage.
Violation Division:	Los Angeles City Fire Department

QUEST DIAGNOSTICS (Continued) **S123533290**

Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	59492
Site Name:	QUEST DIAGNOSTICS
Violation Date:	06-24-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division:	Los Angeles City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	59492
Site Name:	QUEST DIAGNOSTICS
Violation Date:	11-14-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division:	Los Angeles City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	59492
Site Name:	QUEST DIAGNOSTICS
Violation Date:	11-14-2016
Citation:	19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes:	Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division:	Los Angeles City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	59492
Site Name:	QUEST DIAGNOSTICS
Violation Date:	06-24-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date

QUEST DIAGNOSTICS (Continued) **S123533290**

Violation Division: Los Angeles City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 59492
Site Name: QUEST DIAGNOSTICS
Violation Date: 11-14-2016
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division: Los Angeles City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 59492
Site Name: QUEST DIAGNOSTICS
Violation Date: 11-14-2016
Citation: HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description: Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 07/18/2019. More recent inspection completed. Newer inspection report and violations supersede previous violations. Previous violations were abated this date
Violation Division: Los Angeles City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 59492
Site Name: QUEST DIAGNOSTICS
Violation Date: 06-24-2016
Citation: HSC 6.95 25510(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25510(a)
Violation Description: Failure to report a release or threatened release of a hazardous material to the unified program agency and to OES.
Violation Notes: Not reported
Violation Division: Los Angeles City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-28-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Martha O'Murray
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS

QUEST DIAGNOSTICS (Continued) **S123533290**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-27-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Consent to enter, inspect and take photographs was given on this date by: Martha O'Murray Permit is valid and posted Yes Inspector walked and verified the locations and quantity of hazardous materials as it relates to the business plan. SPCC reviewed on site. SPCC reviewed on site for APSA compliance. Document review in CERS and field verification this date identified the following: 1. SPCC will be related to both generators and will relate to address 8403 Address since that is the primary facility address currently for both APSA and HMBP. You can report both amounts of diesel in inventory separately as they are separate tanks and locations. 2. Chemical inventories other than diesel need to reflect actual locations at either 8403 Fallbrook or 8401 Fallbrook. Currently the inventories appear to be reversed as to the actual storage on site. 8401 should be larger inventory site. NOTE: To legally operate a business operating with hazardous materials in the City of [Truncated]
Eval Division:	Los Angeles City Fire Department
Eval Program:	APSA
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-27-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Consent to enter, inspect and take photographs was given on this date by: Martha O'Murray Permit is valid and posted Yes Inspector walked and verified the locations and quantity of hazardous materials as it relates to the business plan. SPCC reviewed on site for APSA compliance. Document review in CERS and field verification this date identified the following: 1. SPCC will be related to both generators and will relate to address 8403 Address since that is the primary facility address currently for both APSA and HMBP. You can report both amounts of diesel in inventory separately as they are separate tanks and locations. 2. Chemical inventories other than diesel need to reflect actual locations at either 8403 Fallbrook or 8401 Fallbrook. Currently the inventories appear to be reversed as to the actual storage on site. 8401 should be larger inventory site. NOTE: To legally operate a business operating with hazardous materials in the City of Los Angeles you must be [Truncated]
Eval Division:	Los Angeles City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-14-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Inspection Report Consent to enter, inspect and take photographs was given by: Martha O'murray Sr. EHS specialist No Documents uploaded to CERS were available to be reviewed and field verified. A previous inspection was performed on 6/24/16 by Inspector Bystrom. On that date notice of violation was written regarding CERS submittal. In addition the facility will be notified of the need to list 8403 and 8401 as separate addresses in CERS. During inspection viewed submittal of

QUEST DIAGNOSTICS (Continued) **S123533290**

required info submitted to CERS id 10511053, LA county submittal. Martha O'Murray advised to review and upload to new CERS ID for this address. The following is a list items that need to be corrected: 1. As per previous inspection; update and submit: business plan, site inventory, site map, emergency response plan, and employee training. NOTE: The LAMC, Sections (L.A.M.C. SECTIONS 57.105.1.4; 57.120.3; 57.121.2 and 57.121.2.1.) requires business that store, uses or handle hazardous [Truncated]

Eval Division: Los Angeles City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-24-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site for routine hazardous materials and business emergency plan inspection. Consent to enter and inspect was given by Aileen Gener, Regional EH&S Manager, email:aileen.u.gener@questdiagnostics.com. Permit Posted Tier change from 4504 to 4505 Haz Mat Inventory 16 to 25 chemicals Observed the facility and inspected hazardous materials storage. Argon- 44,565 ft^3 Nitrogen - 73,800 ft^3 Carbon Dioxide - 19,560 ft^3 Air - 26,400 ft^3 Hydrogen - 7,200ft^3 Helium - 7,200 ft^3 Air(Moisture free) - 7,200 ft^3 CO2 9%/Hydrogen 5%/ Nitrogen 86% - 7,200 ft^3 Diesel - 5,400 gallons Propane - 568 ft^3 Alcohol - 96 gallons Xylene - 80 gallons Reagent Alcohol - 80 gallons Formalin -124 gallons Hazardous Waste Corrosive (Nitric/Sulfuric Acid waste UN3264) - 115 gallons Hazardous Waste Corrosive/Acidic (UN 3265) - 265 gallons Hazardous Waste Formalin Solids - 250 gallons Hazardous Waste Flammable Liquids (UN1993) - 825 gallons Hazardous Waste Non-RCRA - 220 [Truncated]
Eval Division: Los Angeles City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: aileen gener
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 8401 Fallbrook Avenue
Affiliation City: WEST HILLS
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91304
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner

QUEST DIAGNOSTICS (Continued) **S123533290**

Entity Name:	Quest Diagnostics
Entity Title:	Not reported
Affiliation Address:	aileen.u.gener@questdiagnostics.com
Affiliation City:	WEST HILLS
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91304
Affiliation Phone:	(818) 737-6037
Affiliation Type Desc:	Identification Signer
Entity Name:	Aileen Gener
Entity Title:	EHS Regional Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	Aileen Gener
Entity Title:	Not reported
Affiliation Address:	8401 Fallbrook Avenue
Affiliation City:	WEST HILLS
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91304
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	QUEST DIAGNOSTICS
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(818) 737-6000
Affiliation Type Desc:	Parent Corporation
Entity Name:	QUEST DIAGNOSTICS
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	Los Angeles City Fire Department
Entity Title:	Not reported
Affiliation Address:	200 North Main Street, Room 1780
Affiliation City:	Los Angeles
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90012

QUEST DIAGNOSTICS (Continued) **S123533290**

Affiliation Phone: (213) 978-3680

Affiliation Type Desc: Legal Owner
Entity Name: QUEST DIAGNOSTICS
Entity Title: Not reported
Affiliation Address: aileen.u.gener@questdiagnostics.com
Affiliation City: WEST HILLS
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91304
Affiliation Phone: (818) 737-6037

LOS ANGELES HM:
Name: QUEST DIAGNOSTICS
Address: 8403 FALLBROOK AVE
City,State,Zip: WEST HILLS, CA 91304
Facility ID: FA0036225
Last Run Date: 06/01/2019
Status: ACTIVE

Name: QUEST DIAGNOSTICS
Address: 8403 FALLBROOK AVE
City,State,Zip: WEST HILLS, CA 91304
Facility ID: FA0036225
Last Run Date: 06/01/2019
Status: ACTIVE

E18 **LAPD - DISPATCH CENTER W VALLEY** **UST** **U004264423**
South **23001 W ROSCOE BLVD** **N/A**
< 1/8 **WEST HILLS, CA 91304**
0.003 mi.
16 ft. **Site 1 of 8 in cluster E**

Relative:
Lower

Actual:
838 ft.

LOS ANGELES UST:
Name: LAPD - DISPATCH CENTER W VALLEY
Address: 23001 W ROSCOE BLVD
City,State,Zip: WEST HILLS, CA 91304
Facility ID: FA0036351
Last Run Date: 06/01/2019
Status: ACTIVE

UST:
Name: LAPD - DISPATCH CENTER WEST VALLEY
Address: 23001 W ROSCOE BLVD
City,State,Zip: WEST HILLS, CA 91304
Facility ID: FA0036351
Permitting Agency: Los Angeles City Fire Department
Latitude: 34.21936
Longitude: -118.62796

E19 **LAPD - DISPATCH CENTER W VALLEY** **CERS TANKS** **S123520739**
South **23001 W ROSCOE BLVD** **HAZMAT** **N/A**
< 1/8 **WEST HILLS, CA 91304** **CERS**
0.003 mi.
16 ft. **Site 2 of 8 in cluster E**

Relative:
Lower

Actual:
838 ft.

CERS TANKS:

Name:	LAPD - DISPATCH CENTER WEST VALLEY
Address:	23001 W ROSCOE BLVD
City,State,Zip:	WEST HILLS, CA 91304
Site ID:	43430
CERS ID:	10260061
CERS Description:	Underground Storage Tank

LOS ANGELES HM:

Name:	LAPD - DISPATCH CENTER W VALLEY
Address:	23001 W ROSCOE BLVD
City,State,Zip:	WEST HILLS, CA 91304
Facility ID:	FA0036351
Last Run Date:	06/01/2019
Status:	ACTIVE

CERS:

Name:	LAPD - DISPATCH CENTER WEST VALLEY
Address:	23001 W ROSCOE BLVD
City,State,Zip:	WEST HILLS, CA 91304
Site ID:	43430
CERS ID:	10260061
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	43430
Site Name:	LAPD - DISPATCH CENTER WEST VALLEY
Violation Date:	10-17-2019
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 11/04/2019. OBSERVATION: Failure to remove categories checked under the old federal hazardous categories list. CORRECTIVE ACTION: Remove 'fire' and 'chronic health' from the old federal hazardous categories list.
Violation Division:	Los Angeles City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	43430
Site Name:	LAPD - DISPATCH CENTER WEST VALLEY
Violation Date:	10-20-2016
Citation:	HSC 6.7 25290.1(c)(3), 25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3), 25290.2(c)(3)
Violation Description:	Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003 and before July 1, 2004, or on or after July 1, 2004.
Violation Notes:	Returned to compliance on 10/19/2017. OBSERVATION: Approximately 2-3 quarts of liquid was observed in the piping sump. The liquid appears to be diesel fuel. CORRECTIVE ACTION: Immediately remove this liquid, make a hazardous waste determination per Title 22 hazardous waste

LAPD - DISPATCH CENTER W VALLEY (Continued) **S123520739**

regulations, and manage it accordingly. Ensure that the piping sump is maintained free of liquid.
Violation Division: Los Angeles City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 43430
Site Name: LAPD - DISPATCH CENTER WEST VALLEY
Violation Date: 10-20-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 11/08/2016. OBSERVATION: Incorrect CUPA phone number on the emergency/response contingency plan. CORRECTIVE ACTION: Update CUPA phone number to 213-978-3680
Violation Division: Los Angeles City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 43430
Site Name: LAPD - DISPATCH CENTER WEST VALLEY
Violation Date: 10-21-2015
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to maintain on site an approved monitoring plan.
Violation Notes: Returned to compliance on 12/09/2015.
Violation Division: Los Angeles City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 43430
Site Name: LAPD - DISPATCH CENTER WEST VALLEY
Violation Date: 10-21-2015
Citation: HSC 6.7 25292(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25292(e)
Violation Description: Failure to maintain secondary containment, as evidenced by failure of secondary containment testing.
Violation Notes: Returned to compliance on 12/09/2015.
Violation Division: Los Angeles City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 43430
Site Name: LAPD - DISPATCH CENTER WEST VALLEY
Violation Date: 10-17-2019
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 11/04/2019. OBSERVATION: Failure to submit the business plan annually between Jan 1st and March 1st. CORRECTIVE ACTION: Annually submit the business plan between Jan 1st and March 1st.
Violation Division: Los Angeles City Fire Department

LAPD - DISPATCH CENTER W VALLEY (Continued) **S123520739**

Violation Program: HMRRP
Violation Source: CERS

Site ID: 43430
Site Name: LAPD - DISPATCH CENTER WEST VALLEY
Violation Date: 01-07-2020
Citation: 23 CCR 16 2715(a)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(a)(2)
Violation Description: Failure to submit the G Underground Storage Tank Statement of Understanding and Compliance Form.G
Violation Notes: Returned to compliance on 01/17/2020. OBSERVATION: Failure to submit the Statement of Understanding and Compliance Form on CERS. CORRECTIVE ACTION: Upload the Statement of Understanding and Compliance Form on CERS within 30 days.
Violation Division: Los Angeles City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 43430
Site Name: LAPD - DISPATCH CENTER WEST VALLEY
Violation Date: 10-21-2015
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 12/09/2015.
Violation Division: Los Angeles City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 43430
Site Name: LAPD - DISPATCH CENTER WEST VALLEY
Violation Date: 10-20-2016
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to have a UST Response Plan available on site.
Violation Notes: Returned to compliance on 11/08/2016. OBSERVATION: Owner/Operator did not maintain an approved response plan. CORRECTIVE ACTION: Submit and maintain an approved response plan by providing a signature on the Response Plan form.
Violation Division: Los Angeles City Fire Department
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 01-17-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: RTC statement of understanding by verifying form on CERS
Eval Division: Los Angeles City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-17-2019
Violations Found: Yes

LAPD - DISPATCH CENTER W VALLEY (Continued) **S123520739**

Eval Type:	Routine done by local agency
Eval Notes:	Inspector Wilson LAFD, on site (LAPD Dispatch) this date to conduct routine inspection of hazardous materials. Consent to enter and inspect was given on this date by Sgt Darrell Davis. The Business Activities, Owner/Operator Identification, Hazardous Materials Inventory, Site Map, Emergency Response/Contingency Plan and Employee Training Plan sections were reviewed in CERS and field verified. Review and correct any violations indicated previously in this report, on or before the COMPLY BY date associated with each violation. NOTE: The LAMC, Sections (L.A.M.C. SECTION 57.105.1.4; 57.120.3; 57.121.2 and 57.121.2.1.) requires businesses that store, use or handle hazardous materials in the City of Los Angeles to obtain a Consolidated Permit from the Los Angeles Fire Department CUPA . Annual submission of a Hazardous Materials Business Plan into CERS is required between January 1 and March 1 of every year. Please remember that any change in inventory of greater than [Truncated]
Eval Division:	Los Angeles City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-19-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Inspector Wilson LAFD, on site (LAPD Dispatch) this date to conduct routine inspection of underground storage tank. Consent to enter and inspect was given on this date by Javier Zepeda Monitoring system certification was conducted at this time. Monitoring certification was performed by Eric Blankenbiller from Clean Fuels. Tester provided the following certifications: Richard Blankenbiller of Clean Fuels ICC: 5012767. EXP: 01/11/2018 VR: #A20929 EXP: 9/14/2019 VMI: #3041 EXP: 3/27/2018 The UST monitoring panel showed all functions normal. The monitoring set up and alarm history were provided for review. The sumps and UDCs were opened for inspection and the sensors were observed positioned to detect a leak at the earliest opportunity. The spill buckets were also visually inspected. The Monitoring Plan was compared to the equipment onsite. The operation of the UST system was compared to the conditions of the operating permit. Property Owner: City of LA - [Truncated]
Eval Division:	Los Angeles City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-21-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Consent for inspection obtained from Carlos Garcia Monitor Certification and Secondary Containment performed by Eric Blankenbiller from Clean Fuels OBSERVATION: LAPD Dispatch Center site with one 8,000 gallon DW Diesel back up generator UST Veeder Root TLS350 monitoring system Annular: 420 Sump: 208 Vent Box: 208 Overfill: flapper Designated Operator: Larry Riggins. Current ICC verified. TEST RESULTS: Last secondary containment done on 10/23/12 PASSED. The vent box and annular space passed today's secondary containment test. However, certain components of the secondary containment test performed today failed due to a visual failure of the

LAPD - DISPATCH CENTER W VALLEY (Continued) **S123520739**

test boots in both the fill sump and piping sump. The boots need to be replaced so the sumps and remaining containment lines can be tested. Last monitor certification and spill buckets done on 10/23/14 passed. And the monitor certification and spill bucket passed today's test. CERS: Reviewed CERS and communicated [Truncated]

Eval Division: Los Angeles City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Spoke with Maria who submitted last year on to the portal about submitting on to CERS due to the site not having tank forms.
Eval Division: Los Angeles City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-06-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed and attached MC, spill bucket, and overfill test results dated 10/26/18. No failures on reports.
Eval Division: Los Angeles City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-07-2020
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Report emailed to: sean.sullivan@lacity.org
Eval Division: Los Angeles City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-20-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Inspector Wilson LAFD, on site (LAPD Dispatch) this date to conduct routine inspection of underground storage tank. Consent to enter and inspect was given on this date by Angela Moore Monitoring system certification was conducted at this time. Monitoring certification was performed by Eric Blankenbiller from Clean Fuels. Tester provided the following certifications: ICC: 5012767 Veeder-Root: a2092 The UST monitoring panel showed all functions normal. The monitoring set up and alarm history were provided for review. The sumps and UDCs were opened for inspection and the sensors were observed positioned to detect a leak at the earliest opportunity. The spill buckets were also visually inspected. The Monitoring Plan was compared to the equipment onsite. The operation of the UST system was compared to the conditions of the operating permit. Property Owner: City of LA - LAPD Tank Owner/ Operator: General Services Department Number of Tanks: One double [Truncated]

LAPD - DISPATCH CENTER W VALLEY (Continued) **S123520739**

Eval Division:	Los Angeles City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-19-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reviewed and attached MC and spill bucket results dated 10/17/19. No failures noted
Eval Division:	Los Angeles City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-19-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Returned violation regarding liquid in sump to compliance during MC today. Verified sealant placed on a fitting in the sump.
Eval Division:	Los Angeles City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-20-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Inspector Wilson LAFD, on site (LAPD Dispatch) this date to conduct routine inspection of hazardous materials. Consent to enter and inspect was given on this date by Angela Moore Verified inventory of hazmat. Reviewed CERS
Eval Division:	Los Angeles City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-21-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	MC performed by Eric Blankenbiller from Clean Fuels.
Eval Division:	Los Angeles City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-26-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Inspector Wilson LAFD, on site (LAPD Dispatch) this date to conduct routine inspection of underground storage tank. Consent to enter and inspect was given on this date by Supervisor Anglea Touchstone Length of time due to waiting for technician to arrive. Monitoring system certification was conducted at this time. Monitoring certification was performed by Taylor Almeida from Clean Fuels. Tester provided the following certifications: Taylor Almeida of Clean Fuels ICC: 8372585 EXP:2/23/2020 VR: B45968 TLS-3XX Tech Recert. 8/12/19 The UST

LAPD - DISPATCH CENTER W VALLEY (Continued) **S123520739**

monitoring panel showed all functions normal. The monitoring set up and alarm history were provided for review. The sumps and UDCs were opened for inspection and the sensors were observed positioned to detect a leak at the earliest opportunity. The spill buckets were also visually inspected. The Monitoring Plan was compared to the equipment onsite. The operation of the UST system was compared to the conditions of the [Truncated]

Eval Division: Los Angeles City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-12-2019
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed and attached SB989 results dated 10/29/18. No failures noted
Eval Division: Los Angeles City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-17-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspector Wilson LAFD, on site (LAPD Dispatch) this date to conduct routine inspection of underground storage tank. Consent to enter and inspect was given on this date by Sgt Darrell Davis. Length of time due to waiting for technician to arrive. Monitoring system certification was conducted at this time by Taylor Almeida from Clean Fuels. Tester provided the following certifications: Taylor Almeida of Clean Fuels ICC: 8372585 EXP:2/23/2020 VR: B45968 TLS-3XX Tech Recert. 8/16/2021 VMI: LDT-890 #3585 EXP:07/21/2021 The UST monitoring panel showed all functions normal. The monitoring set up and alarm history were provided for review. The sumps and UDCs were opened for inspection and the sensors were observed positioned to detect a leak at the earliest opportunity. The spill buckets were also visually inspected. The Monitoring Plan was compared to the equipment onsite. The operation of the UST system was compared to the conditions of the operating [Truncated]
Eval Division: Los Angeles City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-21-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: SB989 done by Eric Blankenbiller from Clean Fuels. Unable to test both sumps due to failure of test boots. Violation and comments made on facility inspection report.
Eval Division: Los Angeles City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: No

LAPD - DISPATCH CENTER W VALLEY (Continued) **S123520739**

Eval Type:	Routine done by local agency
Eval Notes:	Verified CUPA permit. HMBP on LA City portal.
Eval Division:	Los Angeles City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-31-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reviewed and attached MC and spill bucket test results dated 10/19/17. No failures on report.
Eval Division:	Los Angeles City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-08-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Returned multiple violations to compliance: 1. Response plan: verified signed response plan on CERS 2. Adequate completion of CERS verified 3. Secondary containment maintained tight. Verified by passing retest.
Eval Division:	Los Angeles City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-04-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	RTC inventory and annual submission by verifying the corrections
Eval Division:	Los Angeles City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Affiliation:

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	23001 W ROSCOE BLVD
Affiliation City:	WEST HILLS
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91304
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	CITY OF LA - LAPD
Entity Title:	Not reported
Affiliation Address:	200 N MAIN
Affiliation City:	LOS ANGELES
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	Not reported
Affiliation Phone:	(213) 482-6348

LAPD - DISPATCH CENTER W VALLEY (Continued) **S123520739**

Affiliation Type Desc:	UST Tank Owner
Entity Name:	GENERAL SERVICES DEPT, FUEL SERVICES
Entity Title:	Not reported
Affiliation Address:	111 E FIRST ST, 6TH FLOOR
Affiliation City:	LOS ANGELES
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90012
Affiliation Phone:	(213) 978-3781

Affiliation Type Desc:	CUPA District
Entity Name:	Los Angeles City Fire Department
Entity Title:	Not reported
Affiliation Address:	200 North Main Street, Room 1780
Affiliation City:	Los Angeles
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90012
Affiliation Phone:	(213) 978-3680

Affiliation Type Desc:	Identification Signer
Entity Name:	Maria Lujan
Entity Title:	Police Service Representative
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	LAPD COMMUNICATIONS DIVISION
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(818) 778-4752

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	MARIA LUJAN
Entity Title:	PSR
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(818) 778-4785

Affiliation Type Desc:	UST Property Owner Name
Entity Name:	LAPD VALLEY CALL CENTER 911
Entity Title:	Not reported
Affiliation Address:	23001 ROSCOE BL
Affiliation City:	WEST HILLS
Affiliation State:	CA
Affiliation Country:	United States

LAPD - DISPATCH CENTER W VALLEY (Continued) **S123520739**

Affiliation Zip:	91304
Affiliation Phone:	(818) 778-4752
Affiliation Type Desc:	UST Tank Operator
Entity Name:	SEAN SULLIVAN
Entity Title:	Not reported
Affiliation Address:	111 E FIRST ST
Affiliation City:	LOS ANGELES
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90012
Affiliation Phone:	(213) 978-3781
Affiliation Type Desc:	Environmental Contact
Entity Name:	SEAN SULLIVAN
Entity Title:	Not reported
Affiliation Address:	111 E 1ST, ROOM 601C
Affiliation City:	LOS ANGELES, CA 90012
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90012
Affiliation Phone:	Not reported
Affiliation Type Desc:	Document Preparer
Entity Name:	MARIA G. LUJAN
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	LAPD - DISPATCH CENTER WEST VALLEY
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

E20 **LA FIRE STATION 106** **RCRA-SQG 1000229490**
South **23004 ROSCOE BLVD** **FINDS CAD981964208**
< 1/8 **CANOGA PARK, CA 91304**
0.011 mi.
56 ft. **Site 3 of 8 in cluster E**

Relative: RCRA-SQG:
Lower

Date form received by agency:	1987-03-09 00:00:00.0
Facility name:	LA FIRE STATION 106
Facility address:	23004 ROSCOE BLVD CANOGA PARK, CA 91304
EPA ID:	CAD981964208
Mailing address:	200 N MAIN RM EIGHTH HUNDRED C LOS ANGELES, CA 90012

Actual:
838 ft.

LA FIRE STATION 106 (Continued) **1000229490**

Contact:	ENVIRONMENTAL MANAGER
Contact address:	23004 ROSCOE BLVD CANOGA PARK, CA 90012
Contact country:	US
Contact telephone:	213-485-7527
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Municipal
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	CITY OF LOS ANGELES
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Municipal
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No

LA FIRE STATION 106 (Continued) **1000229490**

Used oil transporter: No

Violation Status: No violations found

FINDS:
Registry ID: 110006474555

Click Here:

Environmental Interest/Information System:
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

E21 **LAFD - FIRE STATION 106** **CERS HAZ WASTE** **S123500511**
South **23004 W ROSCOE BLVD** **CERS** **N/A**
< 1/8 **CANOGA PARK, CA 91304**
0.011 mi.
56 ft. **Site 4 of 8 in cluster E**

Relative: **Lower**
Actual: **838 ft.**

CERS HAZ WASTE:
Name: LAFD - FIRE STATION 106
Address: 23004 W ROSCOE BLVD
City,State,Zip: CANOGA PARK, CA 91304
Site ID: 129318
CERS ID: 10242094
CERS Description: Hazardous Waste Generator

CERS:
Name: LAFD - FIRE STATION 106
Address: 23004 W ROSCOE BLVD
City,State,Zip: CANOGA PARK, CA 91304
Site ID: 129318
CERS ID: 10242094
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 129318
Site Name: LAFD - FIRE STATION 106
Violation Date: 08-03-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: OBSERVATION: The business failed to complete and electronically submit chemical inventory information for all reportable hazardous materials on site at or above reportable quantities. CORRECTIVE ACTION: Complete and electronically submit the chemical inventory information for all

LAFD - FIRE STATION 106 (Continued) **S123500511**

reportable hazardous materials on site at or above reportable quantities. Review, update and resubmit the Hazardous Materials Inventory into CERS to include all hazardous material stored in a capacity greater than 55 gallons of liquid, 200 cubic feet of compressed gas or 500 pounds in weight of a solid. **Mr. Buck, can you please remove the diesel 2 fuel from the Haz Mat Inventory and Site map. FF/PM Salerno on site states the emergency generator is now located at Fire Station 88. Thank you.**

Violation Division: Los Angeles City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 129318
Site Name: LAFD - FIRE STATION 106
Violation Date: 09-07-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: OBSERVATION: The business failed to complete and electronically submit chemical inventory information for all reportable hazardous materials on site at or above reportable quantities. CORRECTIVE ACTION: Complete and electronically submit the chemical inventory information for all reportable hazardous materials on site at or above reportable quantities. Review, update and resubmit the Hazardous Materials Inventory into CERS to include all hazardous material stored in a capacity greater than 55 gallons of liquid, 200 cubic feet of compressed gas or 500 pounds in weight of a solid. **Mr. Buck, can you please remove the diesel 2 fuel from the Haz Mat Inventory and Site map. FF/PM Salerno on site states the emergency generator is now located at Fire Station 88. Thank you.**
Violation Division: Los Angeles City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-29-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-20-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-03-2018

LAFD - FIRE STATION 106 (Continued) **S123500511**

Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Report Consent to enter, inspect and take photographs was given by: Captain Mike Caro. The Business Activities, Owner/Operator Identification, Hazardous Materials Inventory, Site Map, Emergency Response/Contingency Plan and Employee Training Plan sections were reviewed in CERS and field verified. Review and correct any violations indicated previously in this report, on or before the COMPLY BY date associated with each violation. NOTE: The LAMC, Sections (L.A.M.C. SECTIONInspection S 57.105.1.4; 57.120.3; 57.121.2 and 57.121.2.1.) requires businesses that store, use or handle hazardous materials in the City of Los Angeles to obtain a Consolidated Permit from the Los Angeles Fire Department CUPA **** Annual submission of a Hazardous Materials Business Plan into CERS is required between January 1 and March 1 of every year. Please remember that any change in inventory of greater than 100 percent will require new submission within 30 days of that change. As a [Truncated]
Eval Division: Los Angeles City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-18-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: CONSENT FOR INSPECTION RECEIVED FROM JAMES ULLRICH, ON DUTY CAPTAIN JAMES.ULLRICH@LACITY.ORG VERIFIED VALID PERMIT ON SITE VERIFIED HAZMAT QUANTITY AND LOCATION ON WALK THROUGH UPDATED DEIF WILL UPDATE CERS TO REFLECT QUANTITIES VERIFIED DURING INSPECTION ENFORCEMENT: NONE
Eval Division: Los Angeles City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-07-2018
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Second Notice of Violation Inspection Report Documents uploaded to CERS were reviewed. Indicated previously in this report are violations, originally issued on 8-3-2018, that have not been resolved by the original COMPLY BY date. These violations have been re-issued and the violation class upgraded. Review and correct all violations indicated in this report, on or before the new COMPLY BY date associated with each violation. Failure to resolve these violations will result in this facility being subject to formal enforcement. NOTE: The LAMC, Sections (L.A.M.C. SECTIONS 57.105.1.4; 57.120.3; 57.121.2 and 57.121.2.1.) requires businesses that store, use or handle hazardous materials in the City of Los Angeles to obtain a Consolidated Permit from the Los Angeles Fire Department CUPA **** Annual submission of a Hazardous Materials Business Plan into CERS is required between January 1 and March 1 of every year. Please remember that any change in inventory of greater 100 [Truncated]
Eval Division: Los Angeles City Fire Department
Eval Program: HMRRP
Eval Source: CERS

LAFD - FIRE STATION 106 (Continued) **S123500511**

Affiliation:

Affiliation Type Desc:	Identification Signer
Entity Name:	Jonathan Wong/Brett L. Poole
Entity Title:	FIREFIGHTER/Consultant
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	Los Angeles City Fire Department
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Property Owner
Entity Name:	CITY OF LA GENERAL SERVICES
Entity Title:	Not reported
Affiliation Address:	111 E 1ST ST
Affiliation City:	LOS ANGELES
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90012
Affiliation Phone:	(213) 928-9555

Affiliation Type Desc:	Legal Owner
Entity Name:	CITY OF LA-LAFD
Entity Title:	Not reported
Affiliation Address:	200 N MAIN ST 16TH FL
Affiliation City:	LOS ANGELES
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90012
Affiliation Phone:	(818) 756-8606

Affiliation Type Desc:	CUPA District
Entity Name:	Los Angeles City Fire Department
Entity Title:	Not reported
Affiliation Address:	200 North Main Street, Room 1780
Affiliation City:	Los Angeles
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90012
Affiliation Phone:	(213) 978-3680

Affiliation Type Desc:	Document Preparer
Entity Name:	Jonathan Wong/Brett L. Poole
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported

LAFD - FIRE STATION 106 (Continued) **S123500511**

Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	CAPTAIN
Entity Title:	Not reported
Affiliation Address:	23004 W ROSCOE BLVD
Affiliation City:	CANOGA PARK
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91304
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	23004 W ROSCOE BLVD
Affiliation City:	CANOGA PARK
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91304
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	LAFD - FIRE STATION 106
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(818) 756-8606

E22 **LA CITY FIRE STATION #106** **LUST** **S104773279**
South **23004 ROSCOE BLVD** **Cortese** **N/A**
< 1/8 **CANOGA PARK, CA 91304** **CERS**
0.011 mi.
56 ft. **Site 5 of 8 in cluster E**

Relative: **Lower**

Actual: **838 ft.**

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	913040670	
Status:	Leak being confirmed	
Substance:	1	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603793051	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19050	
Cross Street:	Not reported	
Enforcement Type:	Not reported	

LA CITY FIRE STATION #106 (Continued) **S104773279**

Date Leak Discovered:	8/16/1999	
Date Leak First Reported:		10/7/1999
Date Leak Record Entered:	Not reported	
Date Confirmation Began:	10/7/1999	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		10/7/1999
Date the Case was Closed:		Not reported
How Leak Discovered:	Repair Tank	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	CITY OF LA FIRE DEPT.	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		15634.935088091666429858451742
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	CTIY OF LOS ANGELES	
RP Address:	419 S. SPRING ST., 12TH FL., LOS ANGELES CA 90013	
Program:	LUST	
Lat/Long:	34.219163 / -1	
Local Agency Staff:	PEJ	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	Not reported	
Summary:	Not reported	

CORTESE:

Name:	LA CITY FIRE STATION #106
Address:	23004 ROSCOE BLVD
City,State,Zip:	CANOGA PARK, CA 91304
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0603793051
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported

LA CITY FIRE STATION #106 (Continued) **S104773279**

Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

CERS:

Name:	LA CITY FIRE STATION #106
Address:	23004 ROSCOE BLVD
City,State,Zip:	CANOGA PARK, CA 91304
Site ID:	208772
CERS ID:	T0603793051
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	ELOY LUNA - LOS ANGELES, CITY OF
Entity Title:	Not reported
Affiliation Address:	200 North Main Street, Suite 1780
Affiliation City:	LOS ANGELES
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	YUE RONG - LOS ANGELES RWQCB (REGION 4)
Entity Title:	Not reported
Affiliation Address:	320 W. 4TH ST., SUITE 200
Affiliation City:	Los Angeles
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

E23
South
< 1/8
0.011 mi.
56 ft.

LA CITY FIRE STATION #106 **LUST** **S108744742**
23004 ROSCOE BLVD **N/A**
CANOGA PARK, CA 91304

Site 6 of 8 in cluster E

Relative:
Lower

Actual:
838 ft.

LUST:

Name:	LA CITY FIRE STATION #106
Address:	23004 ROSCOE BLVD
City,State,Zip:	CANOGA PARK, CA 91304
Lead Agency:	LOS ANGELES, CITY OF
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603793051
Global Id:	T0603793051
Latitude:	34.219163
Longitude:	-118.62804

LA CITY FIRE STATION #106 (Continued) **S108744742**

Status: Completed - Case Closed
Status Date: 03/27/2000
Case Worker: EL
RB Case Number: 913040670
Local Agency: LOS ANGELES, CITY OF
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Aviation
Site History: Not reported

LUST:
Global Id: T0603793051
Contact Type: Local Agency Caseworker
Contact Name: ELOY LUNA
Organization Name: LOS ANGELES, CITY OF
Address: 200 North Main Street, Suite 1780
City: LOS ANGELES
Email: eloy.luna@lacity.org
Phone Number: Not reported

Global Id: T0603793051
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0603793051
Action Type: Other
Date: 08/16/1999
Action: Leak Discovery

Global Id: T0603793051
Action Type: Other
Date: 10/07/1999
Action: Leak Reported

LUST:
Global Id: T0603793051
Status: Open - Case Begin Date
Status Date: 08/16/1999

Global Id: T0603793051
Status: Open - Site Assessment
Status Date: 10/07/1999

Global Id: T0603793051
Status: Completed - Case Closed
Status Date: 03/27/2000

Global Id: T0603793051
Status: Completed - Case Closed
Status Date: 03/27/2000

E24 **LAFD - FIRE STATION 106** **UST** **U004305759**
South **23004 ROSCOE BLVD** **N/A**
< 1/8 **CANOGA PARK, CA 91304**
0.011 mi.
56 ft. **Site 7 of 8 in cluster E**

Relative: LOS ANGELES UST:
Lower
Actual: Name: LAFD - FIRE STATION 106
838 ft. Address: 23004 ROSCOE BLVD
City,State,Zip: CANOGA PARK, CA 91304
Facility ID: FA0003881
Last Run Date: 06/03/2019
Status: INACTIVE

E25 **CITY OF LA GENERAL SERVICES** **SWEEPS UST** **S101585525**
South **23004 ROSCOE BLVD** **CA FID UST** **N/A**
< 1/8 **CANOGA PARK, CA 91304** **HAZNET**
0.011 mi. **HAZMAT**
56 ft. **Site 8 of 8 in cluster E** **HWTS**

Relative: SWEEPS UST:
Lower
Actual: Name: LOS ANGELES FIRE STATION 106
838 ft. Address: 23004 ROSCOE BLVD
City: CANOGA PARK
Status: Active
Comp Number: 6188
Number: 4
Board Of Equalization: Not reported
Referral Date: 02-25-93
Action Date: 04-05-94
Created Date: 02-29-88
Owner Tank Id: 6188-1
SWRCB Tank Id: 19-050-006188-000001
Tank Status: A
Capacity: 10000
Active Date: 07-29-93
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: 1

CA FID UST:
Facility ID: 19024479
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 2134855846
Mail To: Not reported
Mailing Address: 200 MAIN ST
Mailing Address 2: Not reported
Mailing City,St,Zip: CANOGA PARK 913040000
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

CITY OF LA GENERAL SERVICES (Continued) **S101585525**

HAZNET:

Name:	CITY OF LA GENERAL SERVICES
Address:	23004 ROSCOE BLVD
Address 2:	Not reported
City,State,Zip:	CANOGA PARK, CA 900120000
Contact:	EMMANUEL AMESI
Telephone:	2139783798
Mailing Name:	Not reported
Mailing Address:	111 E FIRST ST RM 600
Year:	2019
Gepaid:	CAD981964208
TSD EPA ID:	CAD044429835
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.10100
Year:	2019
Gepaid:	CAD981964208
TSD EPA ID:	AZR000003681
CA Waste Code:	181 - Other inorganic solid waste
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.02000
Year:	2018
Gepaid:	CAD981964208
TSD EPA ID:	CAD044429835
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.16850
Year:	2018
Gepaid:	CAD981964208
TSD EPA ID:	CAD009007626
CA Waste Code:	151 - Asbestos containing waste
Disposal Method:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	4.14000
Year:	2018
Gepaid:	CAD981964208
TSD EPA ID:	CAD044429835
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.01750
Year:	2017
Gepaid:	CAD981964208
TSD EPA ID:	CAD044429835
CA Waste Code:	181 - Other inorganic solid waste
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.076

CITY OF LA GENERAL SERVICES (Continued) **S101585525**

Year: 2017
Gepaid: CAD981964208
TSD EPA ID: CAD044429835
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.04

Year: 2017
Gepaid: CAD981964208
TSD EPA ID: CAD044429835
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.195

Year: 2006
Gepaid: CAD981964208
TSD EPA ID: CAT080013352
CA Waste Code: 241 - Tank bottom waste
Disposal Method: H135 - Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Tons: 0.01668

Year: 2006
Gepaid: CAD981964208
TSD EPA ID: CAT080013352
CA Waste Code: 241 - Tank bottom waste
Disposal Method: R01 - Recycler
Tons: 0.0834

Click this hyperlink while viewing on your computer to access
7 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 2002
Gen EPA ID: CAD981964208

Shipment Date: 20020523
Creation Date: 7/19/2002 15:57:28
Receipt Date: 20020604
Manifest ID: 21331883
Trans EPA ID: CAD052606324
Trans Name: Not reported
Trans 2 EPA ID: CAR000049064
Trans 2 Name: Not reported
TSDF EPA ID: CAD009007626
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 151 - Asbestos-containing waste
RCRA Code: Not reported
Meth Code: D80 - Disposal, Land Fill
Quantity Tons: 0.4214
Waste Quantity: 0.5
Quantity Unit: Y

CITY OF LA GENERAL SERVICES (Continued) **S101585525**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020321
Creation Date:	7/29/2002 18:35:10
Receipt Date:	20020405
Manifest ID:	21331804
Trans EPA ID:	CAD052606324
Trans Name:	Not reported
Trans 2 EPA ID:	CAR000049064
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009007626
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	1.6856
Waste Quantity:	2
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1993
Gen EPA ID:	CAD981964208
Shipment Date:	19930412
Creation Date:	9/6/1995 0:00:00
Receipt Date:	19930413
Manifest ID:	92162345
Trans EPA ID:	CAD009661844
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.126
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CITY OF LA GENERAL SERVICES (Continued) **S101585525**

Shipment Date:	19930205
Creation Date:	9/15/1995 0:00:00
Receipt Date:	19930210
Manifest ID:	92162271
Trans EPA ID:	CAT000611483
Trans Name:	Not reported
Trans 2 EPA ID:	CAD990802993
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080011059
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080011059
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.0625
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2006
Gen EPA ID:	CAD981964208

Shipment Date:	20060920
Creation Date:	4/19/2007 18:30:43
Receipt Date:	20060920
Manifest ID:	000082132FLE
Trans EPA ID:	CAT080016116
Trans Name:	NIETO AND SONS TRUCKING INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	241 - Tank bottom waste 251 Still bottoms with halogenated organics
RCRA Code:	Not reported
Meth Code:	H135 - Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Quantity Tons:	0.01668
Waste Quantity:	4
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20060530
Creation Date:	8/25/2006 18:37:36
Receipt Date:	20060602
Manifest ID:	24770044

CITY OF LA GENERAL SERVICES (Continued) **S101585525**

Trans EPA ID:	CAT080016116
Trans Name:	NIETO AND SONS TRUCKING INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	241 - Tank bottom waste 251 Still bottoms with halogenated organics
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.0417
Waste Quantity:	10
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20060110
Creation Date:	6/22/2006 18:32:46
Receipt Date:	20060112
Manifest ID:	24775999
Trans EPA ID:	CAT080016116
Trans Name:	NIETO AND SONS TRUCKING INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	241 - Tank bottom waste 251 Still bottoms with halogenated organics
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.0417
Waste Quantity:	10
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1999
Gen EPA ID:	CAD981964208

Shipment Date:	19990816
Creation Date:	10/12/1999 0:00:00
Receipt Date:	19990819
Manifest ID:	96655478
Trans EPA ID:	CAR000009423
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019

CITY OF LA GENERAL SERVICES (Continued) **S101585525**

Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	241 - Tank bottom waste 251 Still bottoms with halogenated organics
RCRA Code:	Not reported
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.417
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1998
Gen EPA ID:	CAD981964208
Shipment Date:	19981105
Creation Date:	12/17/1998 0:00:00
Receipt Date:	19981106
Manifest ID:	96655306
Trans EPA ID:	CAR000017657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009007626
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.1685
Waste Quantity:	0.2
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2017
Gen EPA ID:	CAD981964208
Shipment Date:	20171226
Creation Date:	6/20/2018 18:31:35
Receipt Date:	20180115
Manifest ID:	011551010FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835

CITY OF LA GENERAL SERVICES (Continued) **S101585525**

Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.026
Waste Quantity:	52
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171226
Creation Date:	6/20/2018 18:31:35
Receipt Date:	20180115
Manifest ID:	011551010FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.12
Waste Quantity:	240
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170410
Creation Date:	5/4/2018 18:31:04
Receipt Date:	20170414
Manifest ID:	010494646FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICE INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

CITY OF LA GENERAL SERVICES (Continued) **S101585525**

Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170410
Creation Date:	5/4/2018 18:31:04
Receipt Date:	20170414
Manifest ID:	010494646FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICE INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.04
Waste Quantity:	80
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170410
Creation Date:	5/4/2018 18:31:04
Receipt Date:	20170414
Manifest ID:	010494646FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICE INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

CITY OF LA GENERAL SERVICES (Continued) **S101585525**

Additional Code 5: Not reported

LOS ANGELES HM:
Name: LAFD - FIRE STATION 106
Address: 23004 ROSCOE BLVD
City,State,Zip: CANOGA PARK, CA 91304
Facility ID: FA0003881
Last Run Date: 06/01/2019
Status: ACTIVE

HWTS:
Name: CITY OF LA GENERAL SERVICES
Address: 23004 ROSCOE BLVD
Address 2: Not reported
City,State,Zip: CANOGA PARK, CA 913040000
EPA ID: CAD981964208
Inactive Date: Not reported
Create Date: 07/03/1987
Last Act Date: 08/23/2019
Mailing Name: Not reported
Mailing Address: 111 E FIRST ST RM 600
Mailing Address 2: Not reported
Mailing City,State,Zip: LOS ANGELES, CA 900120000
Owner Name: CITY OF LA DEPT OF GENERAL SVS
Owner Address: 111 E 1ST ST RM 600
Owner Address 2: Not reported
Owner City,State,Zip: LOS ANGELES, CA 900123678
Contact Name: EMMANUEL AMESI
Contact Address: 111 E FIRST STREET, ROOM 600
Contact Address 2: Not reported
City,State,Zip: LOS ANGELES, CA 90012

NAICS:
EPA ID: CAD981964208
Create Date: 2004-10-26 14:19:11
NAICS Code: 92119
NAICS Description: Other General Government Support
Issued EPA ID Date: 1987-07-03 00:00:00
Inactive Date: Not reported
Facility Name: CITY OF LA GENERAL SERVICES
Facility Address: 23004 ROSCOE BLVD
Facility Address 2: Not reported
Facility City: CANOGA PARK
Facility County: 19
Facility State: CA
Facility Zip: 913040000

26
North
< 1/8
0.029 mi.
154 ft.

ENRIQUE VARGAS
8418 SAMRA DR
CANOGA PARK, CA 91304

RCRA NonGen / NLR | **1025854690** | **CAC003034939**

Relative:
Higher

Actual:
846 ft.

RCRA NonGen / NLR:

Date form received by agency:	2019-09-20 00:00:00.0
Facility name:	ENRIQUE VARGAS
Facility address:	8418 SAMRA DR CANOGA PARK, CA 91304-3214
EPA ID:	CAC003034939
Contact:	ENRIQUE VARGAS
Contact address:	8418 SAMRA DR CANOGA PARK, CA 91304-3214
Contact country:	Not reported
Contact telephone:	818-325-5502
Contact email:	BEVERLYPENDOLINO@ALLIANCE-ENVIRO.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	ENRIQUE VARGAS
Owner/operator address:	8418 SAMRA DR CANOGA PARK, CA 91304
Owner/operator country:	Not reported
Owner/operator telephone:	818-325-5502
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	ENRIQUE VARGAS
Owner/operator address:	8418 SAMRA DR CANOGA PARK, CA 91304
Owner/operator country:	Not reported
Owner/operator telephone:	818-325-5502
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	Not reported
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No

ENRIQUE VARGAS (Continued) **1025854690**

Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

27
ESE
< 1/8
0.038 mi.
202 ft.

DOOR TO DOOR XPRESS **EDR Hist Cleaner** **1019974732**
8239 FALLBROOK AVE **N/A**
CANOGA PARK, CA 91304

Relative:
Lower

Actual:
841 ft.

EDR Hist Cleaner

Year:	Name:	Type:
2001	DOOR TO DOOR XPRESS	Drycleaning Plants, Except Rugs
2002	DOOR TO DOOR XPRESS	Drycleaning Plants, Except Rugs
2003	DOOR TO DOOR XPRESS	Drycleaning Plants, Except Rugs
2004	DOOR TO DOOR XPRESS	Drycleaning Plants, Except Rugs
2005	DOOR TO DOOR XPRESS	Drycleaning Plants, Except Rugs
2006	DOOR TO DOOR XPRESS	Drycleaning Plants, Except Rugs
2007	DOOR TO DOOR XPRESS	Drycleaning Plants, Except Rugs
2008	DOOR TO DOOR XPRESS	Drycleaning Plants, Except Rugs

28
NNE
< 1/8
0.044 mi.
232 ft.

TURELK INC **HAZNET** **S112897634**
8501 FALLBROOK AVE **HAZMAT** **N/A**
CANOGA PARK, CA 91304 **HWTS**

Relative:
Higher

Actual:
890 ft.

HAZNET:

Name:	TURELK INC
Address:	8501 FALLBROOK AVE
Address 2:	Not reported
City,State,Zip:	CANOGA PARK, CA 913040000
Contact:	MIKE SOUZA
Telephone:	3108353736
Mailing Name:	Not reported
Mailing Address:	3700 SANTA FE AVE
Year:	1999
Gepaid:	CAC002108032
TSD EPA ID:	CAT080013352
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	R01 - Recycler
Tons:	0.6255
Year:	1999
Gepaid:	CAC002108032
TSD EPA ID:	CAT080033681
CA Waste Code:	352 - Other organic solids
Disposal Method:	D80 - Disposal, Land Fill
Tons:	0.1

TURELK INC (Continued) **S112897634**

Additional Info:

Year:	1999
Gen EPA ID:	CAC002108032
Shipment Date:	19990216
Creation Date:	5/4/1999 0:00:00
Receipt Date:	19990223
Manifest ID:	98844707
Trans EPA ID:	CAD028277036
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19990216
Creation Date:	5/17/1999 0:00:00
Receipt Date:	19990303
Manifest ID:	98844706
Trans EPA ID:	CAD028277036
Trans Name:	Not reported
Trans 2 EPA ID:	CAD982403198
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.6255
Waste Quantity:	150
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

LOS ANGELES HM:

Name:	AT&T MOBILITY - USID45714
Address:	8501 FALLBROOK AVE
City,State,Zip:	CANOGA PARK, CA 91304

TURELK INC (Continued) **S112897634**

Facility ID: FA0040806
Last Run Date: 06/01/2019
Status: ACTIVE

HWTS:
Name: TURELK INC
Address: 8501 FALLBROOK AVE
Address 2: Not reported
City,State,Zip: CANOGA PARK, CA 913040000
EPA ID: CAC002108032
Inactive Date: 10/25/2000
Create Date: 01/08/1999
Last Act Date: 10/25/2000
Mailing Name: Not reported
Mailing Address: 3700 SANTA FE AVE
Mailing Address 2: Not reported
Mailing City,State,Zip: LONG BEACH, CA 908100000
Owner Name: TURELK INC
Owner Address: 3700 SANTA FE AVE
Owner Address 2: Not reported
Owner City,State,Zip: LONG BEACH, CA 908100000
Contact Name: MIKE SOUZA
Contact Address: 3700 SANTA FE AVE
Contact Address 2: Not reported
City,State,Zip: LONG BEACH, CA 908100000

F29 **HUGHES AIRCRAFT CO. / CO** **HAZMAT** **S123544262**
ESE **22750 W ROSCOE BLVD** **N/A**
< 1/8 **CANOGA PARK, CA 91304**
0.056 mi.
295 ft. **Site 1 of 2 in cluster F**

Relative: **Higher**

Actual: **842 ft.**

LOS ANGELES HM:
Name: HUGHES AIRCRAFT CO. / CO
Address: 22750 W ROSCOE BLVD
City,State,Zip: CANOGA PARK, CA 91304
Facility ID: FA0008734
Last Run Date: 06/01/2019
Status: INACTIVE

F30 **FAULKNER HARRY & DOLORES** **EDR Hist Auto** **1020332964**
ESE **22750 ROSCOE BLVD** **N/A**
< 1/8 **CANOGA PARK, CA 91304**
0.056 mi.
295 ft. **Site 2 of 2 in cluster F**

Relative: **Higher**

Actual: **842 ft.**

EDR Hist Auto

Year:	Name:	Type:
1969	FAULKNER HARRY & DOLORES	Gasoline Service Stations
1970	FAULKNER HARRY & DOLORES	Gasoline Service Stations
1971	FAULKNER HARRY & DOLORES	Gasoline Service Stations
1972	FAULKNER HARRY & DOLORES	Gasoline Service Stations
1973	FAULKNER HARRY & DOLORES	Gasoline Service Stations
1974	FAULKNER HARRY & DOLORES	Gasoline Service Stations
1975	FAULKNER HARRY & DOLORES	Gasoline Service Stations

FAULKNER HARRY & DOLORES (Continued) **1020332964**

1977 DOUPE DAVID Gasoline Service Stations
1978 DOUPE DAVID Gasoline Service Stations

G31 **SOURCE PHOTONICS USA, INC.** **HAZMAT** **S112957547**
North **8521 FALLBROOK AVE STE 200** **CERS** **N/A**
< 1/8 **CANOGA PARK, CA 91304**
0.060 mi.
319 ft. **Site 1 of 5 in cluster G**

Relative:
Higher

Actual:
888 ft.

LOS ANGELES HM:

Name:	SOURCE PHOTONICS USA, INC
Address:	8521 FALLBROOK AVE # 200
City,State,Zip:	WEST HILLS, CA 91304
Facility ID:	FA0039023
Last Run Date:	06/01/2019
Status:	ACTIVE

CERS:

Name:	SOURCE PHOTONICS USA, INC.
Address:	8521 FALLBROOK AVE STE 200
City,State,Zip:	CANOGA PARK, CA 91304
Site ID:	373443
CERS ID:	10662244
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	373443
Site Name:	Source Photonics USA, Inc.
Violation Date:	05-25-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Please update site map with emergency shutoffs, storm drain. The site map could be improved by adding an inset with a "campus" orientation as well.
Violation Division:	Los Angeles City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-25-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Inspected facility with Debbie- Bernard, who provided consent to perform an inspection and take pictures as necessary. Verified hazardous materials submission which requires correction. Please uncheck Simple Asphyxiant for the Mixed Gas. Nitrogen/Hydrogen is not a simple asphyxiant. Please note: Nitrogen and Argon need only be reported in quantities in excess of 1000 cubic feet. Please update site map with emergency shutoffs, storm drain. The site map could be improved by adding an inset with a "campus" orientation as well. copy to: spencerm@arrowrecycling.com; Debbie.Bernard@sourcephotonics.com
Eval Division:	Los Angeles City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

SOURCE PHOTONICS USA, INC. (Continued) **S112957547**

Affiliation:

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	8521 Fallbrook Ave., Suite 200
Affiliation City:	West Hills
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91304
Affiliation Phone:	Not reported

Affiliation Type Desc:	Document Preparer
Entity Name:	Spencer Minshew
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Redview Capital
Entity Title:	Not reported
Affiliation Address:	8521 Fallbrook Ave., Suite 200
Affiliation City:	West Hills
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91304
Affiliation Phone:	(818) 773-9044

Affiliation Type Desc:	Operator
Entity Name:	SOURCE PHOTONICS USA, INC.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(818) 773-9044

Affiliation Type Desc:	Parent Corporation
Entity Name:	SOURCE PHOTONICS USA, INC.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	CUPA District
Entity Name:	Los Angeles City Fire Department
Entity Title:	Not reported
Affiliation Address:	200 North Main Street, Room 1780
Affiliation City:	Los Angeles
Affiliation State:	CA

SOURCE PHOTONICS USA, INC. (Continued) **S112957547**

Affiliation Country:	Not reported
Affiliation Zip:	90012
Affiliation Phone:	(213) 978-3680
Affiliation Type Desc:	Environmental Contact
Entity Name:	Spencer Minshew
Entity Title:	Not reported
Affiliation Address:	12410 Wilkie Ave
Affiliation City:	Hawthorne
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90250
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Debbie Bernard
Entity Title:	Human Resources Director
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

G32 **SOURCE PHOTONICS** **RCRA NonGen / NLR** **1024763514**
North **8521 FALLBROOK AVENUE, SUITE 200** **CAC002983378**
< 1/8 **WEST HILLS, CA 91304**
0.060 mi.
319 ft. **Site 2 of 5 in cluster G**

Relative:
Higher

Actual:
888 ft.

RCRA NonGen / NLR:

Date form received by agency:	2018-10-04 00:00:00.0
Facility name:	SOURCE PHOTONICS
Facility address:	8521 FALLBROOK AVENUE, SUITE 200 WEST HILLS, CA 91304
EPA ID:	CAC002983378
Contact:	MICHELLE MOFFETT
Contact address:	8521 FALLBROOK AVENUE, SUITE 200 WEST HILLS, CA 91304
Contact country:	Not reported
Contact telephone:	419-215-5624
Contact email:	MICHELLE.MOFFETT@SOURCEPHOTONICS.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	SOURCE PHOTONICS USA INC
Owner/operator address:	8521 FALLBROOK AVENUE, SUITE 200 WEST HILLS, CA 91304
Owner/operator country:	Not reported
Owner/operator telephone:	818-773-9044
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other

SOURCE PHOTONICS (Continued) **1024763514**

Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	MICHELLE MOFFETT
Owner/operator address:	8521 FALLBROOK AVENUE, SUITE 200 WEST HILLS, CA 91304
Owner/operator country:	Not reported
Owner/operator telephone:	419-215-5624
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

G33 **BSREP WEST HILLS OFFICE CAMPUS LLC** **RCRA NonGen / NLR** **1024838102**
North **8521 FALLBROOK AVE** **CAL000384468**
< 1/8 **WEST HILLS, CA 91304**
0.060 mi.
319 ft. **Site 3 of 5 in cluster G**

Relative:
Higher

Actual:
888 ft.

RCRA NonGen / NLR:

Date form received by agency:	2013-04-11 00:00:00.0
Facility name:	BSREP WEST HILLS OFFICE CAMPUS LLC
Facility address:	8521 FALLBROOK AVE WEST HILLS, CA 91304
EPA ID:	CAL000384468
Mailing address:	8521 FALLBROOK AVE STE 150 WEST HILLS, CA 91304
Contact:	ERIN SULLIVAN
Contact address:	8521 FALLBROOK AVE STE 150 WEST HILLS, CA 91304
Contact country:	Not reported
Contact telephone:	818-737-1188
Contact email:	ERIN.SULLIVAN@CBRE.COM
EPA Region:	09
Classification:	Non-Generator

BSREP WEST HILLS OFFICE CAMPUS LLC (Continued) **1024838102**

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	BSREP WEST HILLS OFFICE CAMPUS LLC
Owner/operator address:	8521 FALLBROOK AVE
	WEST HILLS, CA 91304
Owner/operator country:	Not reported
Owner/operator telephone:	818-737-1188
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	ERIN SULLIVAN
Owner/operator address:	8521 FALLBROOK AVE STE 150
	WEST HILLS, CA 91304
Owner/operator country:	Not reported
Owner/operator telephone:	818-737-1188
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

G34 **SOURCE PHOTONICS** **RCRA NonGen / NLR** **1025841264**
North **8521 FALLBROOK, SUITE 200** **CAC003020869**
< 1/8 **WEST HILLS, CA 91304**
0.060 mi.
319 ft. **Site 4 of 5 in cluster G**

Relative:
Higher

Actual:
888 ft.

RCRA NonGen / NLR:

Date form received by agency:	2019-06-21 00:00:00.0
Facility name:	SOURCE PHOTONICS
Facility address:	8521 FALLBROOK, SUITE 200 WEST HILLS, CA 91304
EPA ID:	CAC003020869
Contact:	DEBBIE BERNARD
Contact address:	8521 FALLBROOK, SUITE 200 WEST HILLS, CA 91304
Contact country:	Not reported
Contact telephone:	818-885-4206
Contact email:	DEBBIE.BERNARD@SOURCEPHOTONICS.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	SOURCE PHOTONICS
Owner/operator address:	8521 FALLBROOK, SUITE 200 WEST HILLS, CA 91304
Owner/operator country:	Not reported
Owner/operator telephone:	818-620-7305
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	DEBBIE BERNARD
Owner/operator address:	8521 FALLBROOK, SUITE 200 WEST HILLS, CA 91304
Owner/operator country:	Not reported
Owner/operator telephone:	818-885-4206
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No

SOURCE PHOTONICS (Continued) **1025841264**

Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

G35 **CP WEST HILLS LLC** **RCRA NonGen / NLR** **1025875576**
North **8521 FALLBROOK AVE STE 150** **CAL000448711**
< 1/8 **WEST HILLS, CA 91304**
0.060 mi.
319 ft. **Site 5 of 5 in cluster G**

Relative:
Higher

Actual:
888 ft.

RCRA NonGen / NLR:

Date form received by agency:	2019-09-06 00:00:00.0
Facility name:	CP WEST HILLS LLC
Facility address:	8521 FALLBROOK AVE STE 150 WEST HILLS, CA 91304
EPA ID:	CAL000448711
Contact:	ERIN SULLIVAN
Contact address:	8521 FALLBROOK AVE STE 150 WEST HILLS, CA 91304
Contact country:	Not reported
Contact telephone:	818-737-1188
Contact email:	ERIN.SULLIVAN@CBRE.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	CP WEST HILLS LLC
Owner/operator address:	2850 LAKE VISTA DR STE 150 LEWISVILLE, TX 75057
Owner/operator country:	Not reported
Owner/operator telephone:	818-737-1188
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	ERIN SULLIVAN
Owner/operator address:	8521 FALLBROOK AVE STE 150 WEST HILLS, CA 91304
Owner/operator country:	Not reported
Owner/operator telephone:	818-737-1188
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

CP WEST HILLS LLC (Continued) **1025875576**

Handler Activities Summary:
- U.S. importer of hazardous waste: No
- Mixed waste (haz. and radioactive): Not reported
- Recycler of hazardous waste: No
- Transporter of hazardous waste: No
- Treater, storer or disposer of HW: No
- Underground injection activity: No
- On-site burner exemption: No
- Furnace exemption: No
- Used oil fuel burner: No
- Used oil processor: No
- User oil refiner: No
- Used oil fuel marketer to burner: No
- Used oil Specification marketer: No
- Used oil transfer facility: No
- Used oil transporter: No

Violation Status: No violations found

H36 **ALEX MOIN** **RCRA NonGen / NLR** **1026041960**
NE **22727 RODAX ST** **CAC003048142**
< 1/8 **CANOGA PARK, CA 91304**
0.061 mi.
320 ft. **Site 1 of 2 in cluster H**

Relative:
Higher

Actual:
852 ft.

RCRA NonGen / NLR:
- Date form received by agency: 2019-12-20 00:00:00.0
- Facility name: ALEX MOIN
- Facility address: 22727 RODAX ST
  CANOGA PARK, CA 91304-2251
- EPA ID: CAC003048142
- Contact: ALEX MOIN
- Contact address: 22727 RODAX ST
  CANOGA PARK, CA 91304-2251
- Contact country: Not reported
- Contact telephone: 949-246-7035
- Contact email: MANIFEST.SIRRIS@GMAIL.COM
- EPA Region: 09
- Classification: Non-Generator
- Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
- Owner/operator name: ALEX MOIN
- Owner/operator address: 22727 RODAX ST
  CANOGA PARK, CA 91304
- Owner/operator country: Not reported
- Owner/operator telephone: 949-246-7035
- Owner/operator email: Not reported
- Owner/operator fax: Not reported
- Owner/operator extension: Not reported
- Legal status: Other
- Owner/Operator Type: Owner
- Owner/Op start date: Not reported
- Owner/Op end date: Not reported

- Owner/operator name: ALEX MOIN
- Owner/operator address: 22727 RODAX ST
  CANOGA PARK, CA 91304

ALEX MOIN (Continued) **1026041960**

Owner/operator country: Not reported
Owner/operator telephone: 949-246-7035
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): Not reported
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

I37 **ROCKWELL AID /C** **SWEEPS UST S101585911**
NE **8500 FALLBROOK AVE** **CA FID UST N/A**
< 1/8 **CANOGA PARK, CA 91303**
0.066 mi.
346 ft. **Site 1 of 4 in cluster I**

Relative:
Higher

Actual:
855 ft.

SWEEPS UST:
Name: ROCKWELL AID /C
Address: 8500 FALLBROOK AVE
City: CANOGA PARK
Status: Not reported
Comp Number: 7377
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: 0

CA FID UST:
Facility ID: 19033210

ROCKWELL AID /C (Continued) **S101585911**

Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	8187102145
Mail To:	Not reported
Mailing Address:	8500 FALLBROOK AVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	CANOGA PARK 913030000
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

I38 **ROCKWELL AID** **RCRA-SQG 1000273240**
NE **8500 FALLBROOK AVE** **FINDS CAD982412959**
< 1/8 **CANOGA PARK, CA 91304** **ECHO**
0.066 mi.
346 ft. **Site 2 of 4 in cluster I**

Relative:
Higher

Actual:
855 ft.

RCRA-SQG:

Date form received by agency:	1989-03-08 00:00:00.0
Facility name:	ROCKWELL AID
Facility address:	8500 FALLBROOK AVE CANOGA PARK, CA 91304
EPA ID:	CAD982412959
Mailing address:	FALLBROOK AVE CANOGA PARK, CA 91304
Contact:	ENVIRONMENTAL MANAGER
Contact address:	8500 FALLBROOK AVE CANOGA PARK, CA 91304
Contact country:	US
Contact telephone:	818-710-2145
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported

ROCKWELL AID (Continued) **1000273240**

Owner/Op end date: Not reported

Owner/operator name: ROCKWELL INTL
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:
Registry ID: 110002807669

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000273240
Registry ID: 110002807669
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002807669
Name: ROCKWELL AID
Address: 8500 FALLBROOK AVE
City,State,Zip: CANOGA PARK, CA 91304

I39 **THE OAKS AT WEST HILLS** **NPDES** **S118470333**
NE **8500 NORTH FALLBROOK AVENUE** **HAZMAT** **N/A**
< 1/8 **LOS ANGELES, CA 91304** **CIWQS**
0.066 mi. **CERS**
346 ft. **Site 3 of 4 in cluster I**

Relative:
Higher

Actual:
855 ft.

NPDES:

Name:	THE OAKS AT WEST HILLS
Address:	8500 NORTH FALLBROOK AVENUE
City,State,Zip:	LOS ANGELES, CA 91304
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	4 19C375165
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	01/26/2016
Operator Name:	DR Horton Ven Inc
Operator Address:	21300 Victory Boulevard
Operator City:	Woodland Hills
Operator State:	California
Operator Zip:	91367

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	4
Regulatory Measure ID:	468668
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	4 19C375165
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	01/20/2016
Processed Date:	01/26/2016
Status:	Active

THE OAKS AT WEST HILLS (Continued) **S118470333**

Status Date:	01/26/2016
Place Size:	13.76
Place Size Unit:	Acres
Contact:	Julie Williams
Contact Title:	Not reported
Contact Phone:	818-251-5721
Contact Phone Ext:	Not reported
Contact Email:	jdwilliams@drhorton.com
Operator Name:	DR Horton Ven Inc
Operator Address:	21300 Victory Boulevard
Operator City:	Woodland Hills
Operator State:	California
Operator Zip:	91367
Operator Contact:	Julie Williams
Operator Contact Title:	Not reported
Operator Contact Phone:	818-251-5721
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	jdwilliams@drhorton.com
Operator Type:	Private Business
Developer:	DR Horton Ven Inc
Developer Address:	535 N Brand Boulevard
Developer City:	Glendale
Developer State:	California
Developer Zip:	91203
Developer Contact:	Julie Williams
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	N
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	N
Constype Below Ground Ind:	N
Constype Cable Line Ind:	N
Constype Comm Line Ind:	N
Constype Commertial Ind:	N
Constype Electrical Line Ind:	N
Constype Gas Line Ind:	N
Constype Industrial Ind:	N
Constype Other Description:	Not reported
Constype Other Ind:	N
Constype Recons Ind:	N
Constype Residential Ind:	Y
Constype Transport Ind:	N
Constype Utility Description:	Not reported
Constype Utility Ind:	N
Constype Water Sewer Ind:	N
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Chatsworth Creek
Certifier:	Julie Williams
Certifier Title:	Forward Planner
Certification Date:	20-JAN-16
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000002
Status:	Active
Agency Number:	0

THE OAKS AT WEST HILLS (Continued) **S118470333**

Region:	4
Regulatory Measure ID:	468668
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	4 19C375165
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	01/26/2016
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	DR Horton Ven Inc
Discharge Address:	21300 Victory Boulevard
Discharge City:	Woodland Hills
Discharge State:	California
Discharge Zip:	91367
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported

THE OAKS AT WEST HILLS (Continued) **S118470333**

Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	THE OAKS AT WEST HILLS
Address:	8500 NORTH FALLBROOK AVENUE
City,State,Zip:	LOS ANGELES, CA 91304
Facility Status:	Active
NPDES Number:	CAS000002
Region:	4
Agency Number:	0
Regulatory Measure ID:	468668
Place ID:	Not reported
Order Number:	2009-0009-DWQ
WDID:	4 19C375165
Regulatory Measure Type:	Enrollee
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	01/26/2016
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	21300 Victory Boulevard
Discharge Name:	DR Horton Ven Inc
Discharge City:	Woodland Hills
Discharge State:	California
Discharge Zip:	91367
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	4
Regulatory Measure ID:	468668
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	4 19C375165
Program Type:	Not reported

THE OAKS AT WEST HILLS (Continued) **S118470333**

Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	01/20/2016
Processed Date:	01/26/2016
Status:	Active
Status Date:	01/26/2016
Place Size:	13.76
Place Size Unit:	Acres
Contact:	Julie Williams
Contact Title:	Not reported
Contact Phone:	818-251-5721
Contact Phone Ext:	Not reported
Contact Email:	jdwilliams@drhorton.com
Operator Name:	DR Horton Ven Inc
Operator Address:	21300 Victory Boulevard
Operator City:	Woodland Hills
Operator State:	California
Operator Zip:	91367
Operator Contact:	Julie Williams
Operator Contact Title:	Not reported
Operator Contact Phone:	818-251-5721
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	jdwilliams@drhorton.com
Operator Type:	Private Business
Developer:	DR Horton Ven Inc
Developer Address:	535 N Brand Boulevard
Developer City:	Glendale
Developer State:	California
Developer Zip:	91203
Developer Contact:	Julie Williams
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	N
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	N
Constype Below Ground Ind:	N
Constype Cable Line Ind:	N
Constype Comm Line Ind:	N
Constype Commertial Ind:	N
Constype Electrical Line Ind:	N
Constype Gas Line Ind:	N
Constype Industrial Ind:	N
Constype Other Description:	Not reported
Constype Other Ind:	N
Constype Recons Ind:	N
Constype Residential Ind:	Y
Constype Transport Ind:	N
Constype Utility Description:	Not reported
Constype Utility Ind:	N
Constype Water Sewer Ind:	N

THE OAKS AT WEST HILLS (Continued) **S118470333**

Dir Discharge Uswater Ind:	N
Receiving Water Name:	Chatsworth Creek
Certifier:	Julie Williams
Certifier Title:	Forward Planner
Certification Date:	20-JAN-16
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000002
Status:	Active
Agency Number:	0
Region:	4
Regulatory Measure ID:	468668
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	4 19C375165
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	01/26/2016
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	DR Horton Ven Inc
Discharge Address:	21300 Victory Boulevard
Discharge City:	Woodland Hills
Discharge State:	California
Discharge Zip:	91367
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported

THE OAKS AT WEST HILLS (Continued) **S118470333**

Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

LOS ANGELES HM:

Name:	ROCKWELL AID
Address:	8500 N FALLBROOK AVE
City,State,Zip:	CANOGA PARK, CA 91304
Facility ID:	FA0003363
Last Run Date:	06/01/2019
Status:	INACTIVE

CIWQS:

Name:	THE OAKS AT WEST HILLS
Address:	8500 NORTH FALLBROOK AVENUE
City,State,Zip:	LOS ANGELES, CA 91304
Agency:	DR Horton Ven Inc
Agency Address:	21300 Victory Boulevard Suite 700, Woodland Hills, CA 91367
Place/Project Type:	Construction
SIC/NAICS:	Not reported
Region:	4
Program:	CONSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	4 19C375165
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	01/26/2016
Termination Date:	Not reported
Expiration/Review Date:	Not reported

THE OAKS AT WEST HILLS (Continued) **S118470333**

Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	1
Violations within 5 years:	2
Latitude:	34.22627
Longitude:	-118.62476

CERS:

Name:	THE OAKS AT WEST HILLS
Address:	8500 NORTH FALLBROOK AVENUE
City,State,Zip:	LOS ANGELES, CA 91304
Site ID:	544260
CERS ID:	843893
CERS Description:	Construction Storm Water

Violations:

Site ID:	544260
Site Name:	The Oaks at West Hills
Violation Date:	01-20-2017
Citation:	2009-0009-DWQ - Construction General Permit
Violation Description:	SWPPP
Violation Notes:	Contractor/subcontractor information was missing.
Violation Division:	Water Boards
Violation Program:	CONSTW
Violation Source:	SMARTS

Site ID:	544260
Site Name:	The Oaks at West Hills
Violation Date:	01-20-2017
Citation:	2009-0009-DWQ - Construction General Permit
Violation Description:	SW - Deficient BMP Implementation
Violation Notes:	1. No perimeter BMPs 2. Ineffective housekeeping BMPs
Violation Division:	Water Boards
Violation Program:	CONSTW
Violation Source:	SMARTS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-22-2017
Violations Found:	No
Eval Type:	Industrial Storm Water Compliance Evaluation
Eval Notes:	BMPs implemented were not effectively containing sediment laden water discharge from the site. Sediment laden water was being discharged onto Fallbrook Street. Follow-up inspection is needed.
Eval Division:	Water Boards
Eval Program:	CONSTW
Eval Source:	SMARTS

Eval General Type:	Case Development Inspection
Eval Date:	04-26-2017
Violations Found:	No
Eval Type:	Industrial Storm Water Enforcement Follow-up
Eval Notes:	The project was in a early stages of construction. SWPPP and inspection reports were not available at the site (apparently it was in the QSP's vehicle). The SWPPP in the SMARTS was complete. BMPs - 1.

THE OAKS AT WEST HILLS (Continued) **S118470333**

Broken gravel bags were observed, 2. Anti-tracking BMPS were not maintained. I gave a verbal warning to Mr. Richard Baltes to implement effective BMPs at the site.
Eval Division: Water Boards
Eval Program: CONSTW
Eval Source: SMARTS

Eval General Type: Other/Unknown
Eval Date: 01-20-2017
Violations Found: Yes
Eval Type: Construction Storm Water Compliance Evaluation
Eval Notes: BMPs Violations; 1. Perimeter BMPs were not implemented. Sediment laden water was being discharged onto Fallbrook Street. 2. Ineffective housekeeping BMPs. Used paint cans were observed on the ground. The permittee was notified about the lack of BMPs at the site. Follow-up inspection is needed.
Eval Division: Water Boards
Eval Program: CONSTW
Eval Source: SMARTS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-31-2017
Violations Found: No
Eval Type: Industrial Storm Water Compliance Evaluation
Eval Notes: SWPPP and BMPs violations - Please see the inspection report. Issue a NOV.
Eval Division: Water Boards
Eval Program: CONSTW
Eval Source: SMARTS

Enforcement Action:
Site ID: 544260
Site Name: The Oaks at West Hills
Site Address: 8500 NORTH FALLBROOK AVENUE
Site City: LOS ANGELES
Site Zip: 91304
Enf Action Date: 02-21-2017
Enf Action Type: Notice of Violation
Enf Action Description: Notice of Violation
Enf Action Notes: BMPs
Enf Action Division: Water Boards
Enf Action Program: CONSTW
Enf Action Source: SMARTS

Affiliation:
Affiliation Type Desc: Owner/Operator
Entity Name: DR Horton Ven Inc
Entity Title: Operator
Affiliation Address: 21300 Victory BoulevardSuite 700
Affiliation City: Woodland Hills
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91367
Affiliation Phone: Not reported

I40
NE
< 1/8
0.066 mi.
346 ft.

PRATT & WHITNEY ROCKETDYNE FITNESS CENTER
8500 FALLBROOK AVE
CANOGA PARK, CA 91304

Site 4 of 4 in cluster I

CERS HAZ WASTE
HAZNET
HWTS

S113015854
N/A

Relative:
Higher

Actual:
855 ft.

CERS HAZ WASTE:

Name:	PRATT & WHITNEY ROCKETDYNE FITNESS CENTER
Address:	8500 FALLBROOK AVE
City,State,Zip:	CANOGA PARK, CA 91304-3227
Site ID:	144613
CERS ID:	10153773
CERS Description:	Hazardous Waste Generator

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Los Angeles City Fire Department
Entity Title:	Not reported
Affiliation Address:	200 North Main Street, Room 1780
Affiliation City:	Los Angeles
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90012
Affiliation Phone:	(213) 978-3680

Affiliation Type Desc:	Legal Owner
Entity Name:	Pratt & Whitney Rocketdyne Inc
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	CANOGA PARK
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91303-2703
Affiliation Phone:	(818) 307-7310

Affiliation Type Desc:	Parent Corporation
Entity Name:	PRATT & WHITNEY ROCKETDYNE FITNESS CENTER
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	PO BOX 7922
Affiliation City:	CANOGA PARK
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91309-7922
Affiliation Phone:	Not reported

Name:	PRATT & WHITNEY ROCKETDYNE FITNESS CENTER
Address:	8500 FALLBROOK AVE
City,State,Zip:	CANOGA PARK, CA 91304-3227
Site ID:	144613

PRATT & WHITNEY ROCKETDYNE FITNESS CENTER (Continued) **S113015854**

CERS ID: 10153773
CERS Description: RCRA LQ HW Generator

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Los Angeles City Fire Department
Entity Title: Not reported
Affiliation Address: 200 North Main Street, Room 1780
Affiliation City: Los Angeles
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 90012
Affiliation Phone: (213) 978-3680

Affiliation Type Desc: Legal Owner
Entity Name: Pratt & Whitney Rocketdyne Inc
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: CANOGA PARK
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91303-2703
Affiliation Phone: (818) 307-7310

Affiliation Type Desc: Parent Corporation
Entity Name: PRATT & WHITNEY ROCKETDYNE FITNESS CENTER
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: PO BOX 7922
Affiliation City: CANOGA PARK
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91309-7922
Affiliation Phone: Not reported

HAZNET:
Name: PRATT & WHITNEY ROCKETDYNE FITNESS CENTER
Address: 8500 FALLBROOK AVE
Address 2: Not reported
City,State,Zip: CANOGA PARK, CA 913043227
Contact: NICK LOEBS
Telephone: 8183077310
Mailing Name: Not reported
Mailing Address: PO BOX 7922

Year: 2010
Gepaid: CAD982412959

PRATT & WHITNEY ROCKETDYNE FITNESS CENTER (Continued) **S113015854**

TSD EPA ID: CAD008302903
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.25

Year: 2009
Gepaid: CAD982412959
TSD EPA ID: CAD008302903
CA Waste Code: 151 - Asbestos containing waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.035

Year: 2009
Gepaid: CAD982412959
TSD EPA ID: CAD008302903
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.006

Year: 2009
Gepaid: CAD982412959
TSD EPA ID: CAT000646117
CA Waste Code: 181 - Other inorganic solid waste
Disposal Method: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 29.498

Year: 2008
Gepaid: CAD982412959
TSD EPA ID: CAD008302903
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.055

Year: 2008
Gepaid: CAD982412959
TSD EPA ID: CAD008302903
CA Waste Code: 541 - Photochemicals/photoprocessing waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.0075

Year: 2008
Gepaid: CAD982412959
TSD EPA ID: CAD008302903
CA Waste Code: 181 - Other inorganic solid waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.006

Year: 2008
Gepaid: CAD982412959
TSD EPA ID: CAD008302903
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L

PRATT & WHITNEY ROCKETDYNE FITNESS CENTER (Continued) **S113015854**

Disposal Method:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.03
Year:	2006
Gepaid:	CAD982412959
TSD EPA ID:	CAT080014079
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H01 - Transfer Station
Tons:	0.107
Year:	2006
Gepaid:	CAD982412959
TSD EPA ID:	CAD008302903
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	-
Tons:	0.375

Click this hyperlink while viewing on your computer to access
2 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

Year:	2008
Gen EPA ID:	CAD982412959
Shipment Date:	20080904
Creation Date:	11/14/2008 18:30:08
Receipt Date:	20080910
Manifest ID:	000218915VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.03
Waste Quantity:	60
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080904
Creation Date:	11/14/2008 18:30:08
Receipt Date:	20080910
Manifest ID:	000218915VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

PRATT & WHITNEY ROCKETDYNE FITNESS CENTER (Continued) **S113015854**

TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	D003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080904
Creation Date:	11/14/2008 18:30:08
Receipt Date:	20080910
Manifest ID:	000218915VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D010
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.006
Waste Quantity:	12
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080904
Creation Date:	11/14/2008 18:30:08
Receipt Date:	20080910
Manifest ID:	000218915VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

PRATT & WHITNEY ROCKETDYNE FITNESS CENTER (Continued) **S113015854**

	Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080904
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000218915VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0375
Waste Quantity:	75
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080904
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000218915VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0075
Waste Quantity:	15
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

PRATT & WHITNEY ROCKETDYNE FITNESS CENTER (Continued) **S113015854**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080904
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000218915VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080904
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000218915VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D009
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0125
Waste Quantity:	25
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080904
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000218915VES

PRATT & WHITNEY ROCKETDYNE FITNESS CENTER (Continued) **S113015854**

Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20080904
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000218915VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2006
Gen EPA ID:	CAD982412959

Shipment Date:	20060619
Creation Date:	10/13/2006 18:30:14
Receipt Date:	Not reported
Manifest ID:	24396609
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

PRATT & WHITNEY ROCKETDYNE FITNESS CENTER (Continued) **S113015854**

TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SERVICES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	- Not reported
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20060619
Creation Date:	10/13/2006 18:30:14
Receipt Date:	Not reported
Manifest ID:	24396609
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SERVICES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20060619
Creation Date:	10/13/2006 18:30:14
Receipt Date:	Not reported
Manifest ID:	24396609
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SERVICES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	U036
Meth Code:	- Not reported
Quantity Tons:	0.03
Waste Quantity:	60

PRATT & WHITNEY ROCKETDYNE FITNESS CENTER (Continued) **S113015854**

Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060619
Creation Date:	9/8/2006 18:31:48
Receipt Date:	20060627
Manifest ID:	24396610
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080014079
Trans Name:	ONYX ENVIRONMENTAL SERVICES LLC
TSDF Alt EPA ID:	CAT080014079
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060619
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	24396609
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SERVICES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	- Not reported
Quantity Tons:	0.0045
Waste Quantity:	9
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060619
Creation Date:	Not reported

PRATT & WHITNEY ROCKETDYNE FITNESS CENTER (Continued) **S113015854**

Receipt Date:	Not reported
Manifest ID:	24396609
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SERVICES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.03
Waste Quantity:	60
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20060619
Creation Date:	9/8/2006 18:31:48
Receipt Date:	20060627
Manifest ID:	24396610
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080014079
Trans Name:	ONYX ENVIRONMENTAL SERVICES LLC
TSDF Alt EPA ID:	CAT080014079
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.007
Waste Quantity:	14
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20060619
Creation Date:	10/13/2006 18:30:14
Receipt Date:	Not reported
Manifest ID:	24396609
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SERVICES LLC
TSDF Alt EPA ID:	Not reported

PRATT & WHITNEY ROCKETDYNE FITNESS CENTER (Continued) **S113015854**

TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	- Not reported
Quantity Tons:	0.02
Waste Quantity:	40
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2009
Gen EPA ID:	CAD982412959
Shipment Date:	20090109
Creation Date:	3/9/2009 18:30:38
Receipt Date:	20090114
Manifest ID:	002791846JJK
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.035
Waste Quantity:	70
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090109
Creation Date:	3/9/2009 18:30:38
Receipt Date:	20090114
Manifest ID:	002791846JJK
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D008
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

PRATT & WHITNEY ROCKETDYNE FITNESS CENTER (Continued) **S113015854**

	Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.006
Waste Quantity:	12
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090106
Creation Date:	2/17/2009 18:30:08
Receipt Date:	20090106
Manifest ID:	002791748JJK
Trans EPA ID:	CAR000181891
Trans Name:	BDC SPECIAL WASTE SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000646117
Trans Name:	CHEMICAL WASTE MANAGEMENT
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	29.498
Waste Quantity:	35
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2010
Gen EPA ID:	CAD982412959
Shipment Date:	20100927
Creation Date:	12/3/2010 18:30:49
Receipt Date:	20100927
Manifest ID:	000475286VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P

PRATT & WHITNEY ROCKETDYNE FITNESS CENTER (Continued) **S113015854**

Additional Code 1: D001
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

HWTS:
Name: PRATT & WHITNEY ROCKETDYNE FITNESS CENTER
Address: 8500 FALLBROOK AVE
Address 2: Not reported
City,State,Zip: CANOGA PARK, CA 913043227
EPA ID: CAD982412959
Inactive Date: 10/25/2010
Create Date: 06/15/1989
Last Act Date: 10/05/2011
Mailing Name: Not reported
Mailing Address: PO BOX 7922
Mailing Address 2: Not reported
Mailing City,State,Zip: CANOGA PARK, CA 913097922
Owner Name: PRATT & WHITNEY ROCKETDYNE INC
Owner Address: 6633 CANOGA AVE
Owner Address 2: Not reported
Owner City,State,Zip: CANOGA PARK, CA 913032703
Contact Name: NICK LOEBS
Contact Address: 6633 CANOGA AVE
Contact Address 2: Not reported
City,State,Zip: CANOGA PARK, CA 913032703

NAICS:
EPA ID: CAD982412959
Create Date: 2008-03-20 15:51:28
NAICS Code: 71394
NAICS Description: Fitness and Recreational Sports Centers
Issued EPA ID Date: 1989-06-15 00:00:00
Inactive Date: 2010-10-25 00:00:00
Facility Name: PRATT & WHITNEY ROCKETDYNE FITNESS CENTER
Facility Address: 8500 FALLBROOK AVE
Facility Address 2: Not reported
Facility City: CANOGA PARK
Facility County: 19
Facility State: CA
Facility Zip: 913043227

H41 **WEBB, WILLIAM H & JACQUEL** **HIST CORTESE** **S105023047**
ENE **22718 RODAZ** **N/A**
< 1/8 **CANOGA PARK, CA 91304**
0.079 mi.
416 ft. **Site 2 of 2 in cluster H**

Relative:
Higher

Actual:
851 ft.

HIST CORTESE:
edr_fname: WEBB, WILLIAM H & JACQUEL
edr_fadd1: 22718 RODAZ
City,State,Zip: CANOGA PARK, CA 91304
Region: CORTESE
Facility County Code: 18
Reg By: WBC&D
Reg Id: 6A189104N60

J42 **EMMY ISBELL** **RCRA NonGen / NLR** **1026049136**
SSE **22950 BURTON ST** **CAC003055855**
< 1/8 **WEST HILLS, CA 91304**
0.084 mi.
443 ft. **Site 1 of 3 in cluster J**

Relative:
Lower

Actual:
838 ft.

RCRA NonGen / NLR:

Date form received by agency:	2020-02-13 00:00:00.0
Facility name:	EMMY ISBELL
Facility address:	22950 BURTON ST WEST HILLS, CA 91304
EPA ID:	CAC003055855
Contact:	ALTERNATIVE TECHNOLOGIES
Contact address:	19441 BUSINESS CENTER DR #105 NORTHRIDGE, CA 91324
Contact country:	Not reported
Contact telephone:	818-700-8002
Contact email:	ATIOFFICE@YAHOO.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	EMMY ISBELL
Owner/operator address:	22950 BURTON ST WEST HILLS, CA 91304
Owner/operator country:	Not reported
Owner/operator telephone:	818-268-4014
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	ALTERNATIVE TECHNOLOGIES
Owner/operator address:	19441 BUSINESS CENTER DR #105 NORTHRIDGE, CA 91324
Owner/operator country:	Not reported
Owner/operator telephone:	818-700-8002
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	Not reported
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No

EMMY ISBELL (Continued) **1026049136**

Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

43
SE
< 1/8
0.088 mi.
463 ft.

VICTOR OCAMPO **RCRA NonGen / NLR** **1025846719**
22840 BURTON ST **CAC003026659**
WEST HILLS, CA 91304

Relative:
Lower

Actual:
838 ft.

RCRA NonGen / NLR:

Date form received by agency:	2019-07-30 00:00:00.0
Facility name:	VICTOR OCAMPO
Facility address:	22840 BURTON ST WEST HILLS, CA 91304-3606
EPA ID:	CAC003026659
Contact:	VICTOR OCAMPO
Contact address:	22840 BURTON ST WEST HILLS, CA 91304-3606
Contact country:	Not reported
Contact telephone:	818-908-0632
Contact email:	CRISTAL.TEECOR@YAHOO.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	VICTOR OCAMPO
Owner/operator address:	22840 BURTON ST WEST HILLS, CA 91304
Owner/operator country:	Not reported
Owner/operator telephone:	818-908-0632
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	VICTOR OCAMPO
Owner/operator address:	22840 BURTON ST WEST HILLS, CA 91304
Owner/operator country:	Not reported
Owner/operator telephone:	818-908-0632
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

VICTOR OCAMPO (Continued) **1025846719**

Handler Activities Summary:
- U.S. importer of hazardous waste: No
- Mixed waste (haz. and radioactive): No
- Recycler of hazardous waste: No
- Transporter of hazardous waste: No
- Treater, storer or disposer of HW: No
- Underground injection activity: No
- On-site burner exemption: No
- Furnace exemption: No
- Used oil fuel burner: No
- Used oil processor: No
- User oil refiner: No
- Used oil fuel marketer to burner: No
- Used oil Specification marketer: No
- Used oil transfer facility: No
- Used oil transporter: No

Violation Status: No violations found

J44 **VERONICA ALLEN** **RCRA NonGen / NLR** **1024747321**
SSE **8210 LENA AVE** **CAC002967095**
< 1/8 **CANOGA PARK, CA 91304**
0.105 mi.
554 ft. **Site 2 of 3 in cluster J**

Relative: **Lower**
Actual: **838 ft.**

RCRA NonGen / NLR:
- Date form received by agency: 2018-06-19 00:00:00.0
- Facility name: VERONICA ALLEN
- Facility address: 8210 LENA AVE
  CANOGA PARK, CA 91304
- EPA ID: CAC002967095
- Contact: VERONICA ALLEN
- Contact address: 8210 LENA AVE
  CANOGA PARK, CA 91304
- Contact country: Not reported
- Contact telephone: 818-620-6533
- Contact email: JOE@SIRRIS.BIZ
- EPA Region: 09
- Classification: Non-Generator
- Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
- Owner/operator name: VERONICA ALLEN
- Owner/operator address: 8210 LENA AVE
  CANOGA PARK, CA 91304
- Owner/operator country: Not reported
- Owner/operator telephone: 818-620-6533
- Owner/operator email: Not reported
- Owner/operator fax: Not reported
- Owner/operator extension: Not reported
- Legal status: Other
- Owner/Operator Type: Owner
- Owner/Op start date: Not reported
- Owner/Op end date: Not reported

- Owner/operator name: VERONICA ALLEN
- Owner/operator address: 8210 LENA AVE
  CANOGA PARK, CA 91304

VERONICA ALLEN (Continued) **1024747321**

Owner/operator country: Not reported
Owner/operator telephone: 818-620-6533
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

J45 **MIA BEHZADIAN** **RCRA NonGen / NLR** **1024758014**
South **8215 LENA AVE** **CAC002977855**
< 1/8 **WEST HILLS, CA 91304**
0.109 mi.
573 ft. **Site 3 of 3 in cluster J**

Relative:
Lower

Actual:
838 ft.

RCRA NonGen / NLR:
Date form received by agency: 2018-08-28 00:00:00.0
Facility name: MIA BEHZADIAN
Facility address: 8215 LENA AVE
WEST HILLS, CA 91304
EPA ID: CAC002977855
Contact: MIA BEHZADIAN
Contact address: 8215 LENA AVE
WEST HILLS, CA 91304
Contact country: Not reported
Contact telephone: 818-887-0801
Contact email: JOE@SIRRIS.BIZ
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: MIA BEHZADIAN
Owner/operator address: 8215 LENA AVE
WEST HILLS, CA 91304
Owner/operator country: Not reported
Owner/operator telephone: 818-887-0801
Owner/operator email: Not reported

MIA BEHZADIAN (Continued) **1024758014**

Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: MIA BEHZADIAN
Owner/operator address: 8215 LENA AVE
WEST HILLS, CA 91304
Owner/operator country: Not reported
Owner/operator telephone: 818-887-0801
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

K46 **LAKEVIEW CLEANERS** **CERS HAZ WASTE** **S123536848**
East **22736 W ROSCOE BLVD** **HAZMAT** **N/A**
< 1/8 **CANOGA PARK, CA 91304**
0.118 mi.
625 ft. **Site 1 of 6 in cluster K**

Relative:
Lower

Actual:
841 ft.

CERS HAZ WASTE:
Name: LAKEVIEW CLEANERS
Address: 22736 W ROSCOE BLVD
City,State,Zip: CANOGA PARK, CA 91304
Site ID: 129525
CERS ID: 10248394
CERS Description: Hazardous Waste Generator

Violations:
Site ID: 129525
Site Name: LAKEVIEW CLEANERS
Violation Date: 03-15-2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple

LAKEVIEW CLEANERS (Continued) **S123536848**

Violation Description: Haz Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 12/11/2017. OBSERVATION: Owner/Operator failed to submit the hazardous waste notification electronically to CERS. CORRECTIVE ACTION: Owner/Operator shall submit a notification of hazardous waste generated by the facility in accordance with HSC 25128 electronically to CERS. HSC 25404(e)(4) No later than three years after the statewide information management system is established, each CUPA, PA, and regulated business shall report program data electronically. The secretary shall work with the CUPAs to develop a phased in schedule for the electronic collection and submittal of information to be included in the statewide information management system, giving first priority to information relating to those chemicals determined by the secretary to be of greatest concern. The secretary, in making this determination shall consult with the CUPAs, the California Emergency Management Agency, the State Fire Marshal, and the boards, departments, and offices within the California [Truncated]
Violation Division: Los Angeles County Fire Department
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-11-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Kyung Oh Owner / Operator
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-04-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspected by X. Severino.
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-15-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Kyung Ho Oh, Owner
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-11-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: CONSENT FOR INSPECTION RECEIVED FROM KYUNG HO OH, OWNER CECILIAHUJA@GMAIL.COM VERIFIED VALID PERMIT ON SITE VERIFIED HAZMAT QUANTITY AND LOCATION ON WALK THROUGH FACILITY IS NOW BELOW THRESHOLD AMOUNTS OF HAZMAT. FACILITY PURCHASES A SMALL AMOUNT OF 5 GALLON

LAKEVIEW CLEANERS (Continued) **S123536848**

CONTAINERS OF HYDROCARBON AND USES A 30 GALLON STEEL DRUM FOR WASTE. FACILITY IS NO LONGER IN THE HAZMAT INVENTORY, BUT REMAINS IN HAZ-WASTE FACILITY IS ALSO NOT REQUIRED TO HAVE AN HMBP DUE TO BEING BELOW THRESHOLD AMOUNTS ENFORCEMENT: NONE

Eval Division: Los Angeles City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-04-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-11-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS

Affiliation:
Affiliation Type Desc: Legal Owner
Entity Name: OH, KYUNG HO
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: United States
Affiliation Zip: Not reported
Affiliation Phone: (818) 671-7644

Affiliation Type Desc: Parent Corporation
Entity Name: LAKEVIEW CLEANERS
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 22736 ROSCOE BL
Affiliation City: CANOGA PARK
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91304
Affiliation Phone: Not reported

LAKEVIEW CLEANERS (Continued) **S123536848**

Affiliation Type Desc:	CUPA District
Entity Name:	Los Angeles City Fire Department
Entity Title:	Not reported
Affiliation Address:	200 North Main Street, Room 1780
Affiliation City:	Los Angeles
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90012
Affiliation Phone:	(213) 978-3680

LOS ANGELES HM:

Name:	LAKEVIEW CLEANERS
Address:	22736 W ROSCOE BLVD
City,State,Zip:	CANOGA PARK, CA 91304
Facility ID:	FA0022372
Last Run Date:	06/01/2019
Status:	INACTIVE

K47 **LAKEVIEW CLEANERS** **RCRA NonGen / NLR** **1024815255**
East **22736 ROSCOE BLVD** **CAL000312588**
< 1/8 **CANOGA PARK, CA 91304**
0.118 mi.
625 ft. **Site 2 of 6 in cluster K**

Relative:
Lower

Actual:
841 ft.

RCRA NonGen / NLR:

Date form received by agency:	2006-10-16 00:00:00.0
Facility name:	LAKEVIEW CLEANERS
Facility address:	22736 ROSCOE BLVD CANOGA PARK, CA 91304
EPA ID:	CAL000312588
Contact:	KYUNG UN HO
Contact address:	22736 ROSCOE BLVD CANOGA PARK, CA 91304
Contact country:	Not reported
Contact telephone:	818-348-1013
Contact email:	LUCIOKYUNG0211@GMAIL.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	KYUNG HO OH
Owner/operator address:	22736 ROSCOE BLVD CANOGA PARK, CA 91304
Owner/operator country:	Not reported
Owner/operator telephone:	818-671-7644
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	KYUNG UN HO
Owner/operator address:	22736 ROSCOE BLVD

LAKEVIEW CLEANERS (Continued) **1024815255**

CANOGA PARK, CA 91304
Owner/operator country: Not reported
Owner/operator telephone: 818-348-1013
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

K48 **LAKEVIEW CLEANERS** **EDR Hist Cleaner** **1018416581**
East **22736 ROSCOE BLV** **N/A**
< 1/8 **CANOGA PARK, CA 91304**
0.118 mi.
625 ft. **Site 3 of 6 in cluster K**

Relative: EDR Hist Cleaner
Lower

Actual: **841 ft.**

Year:	Name:	Type:
1978	LAKE VIEW CLEANERS	Garment Pressing And Cleaners' Agents
1979	LAKE VIEW CLEANERS	Garment Pressing And Cleaners' Agents
1980	LAKE VIEW CLEANERS	Garment Pressing And Cleaners' Agents
1982	LAKE VIEW CLEANERS	Garment Pressing And Cleaners' Agents
1983	LAKE VIEW CLEANERS	Garment Pressing And Cleaners' Agents
1985	LAKE VIEW CLEANERS	Garment Pressing And Cleaners' Agents
1986	LAKE VIEW CLEANERS	Garment Pressing And Cleaners' Agents
1986	LAKEVIEW CLEANERS	Garment Pressing And Cleaners' Agents
1987	LAKE VIEW CLEANERS	Garment Pressing And Cleaners' Agents
1987	LAKEVIEW CLEANERS	Garment Pressing And Cleaners' Agents
1988	LAKE VIEW CLEANERS	Garment Pressing And Cleaners' Agents
1988	LAKEVIEW CLEANERS	Garment Pressing And Cleaners' Agents
1989	LAKE VIEW CLEANERS	Garment Pressing And Cleaners' Agents
1989	LAKEVIEW CLEANERS	Garment Pressing And Cleaners' Agents
1990	LAKEVIEW CLEANERS	Garment Pressing And Cleaners' Agents
1990	LAKE VIEW CLEANERS	Garment Pressing And Cleaners' Agents
1991	LAKE VIEW CLEANERS	Garment Pressing And Cleaners' Agents
1991	LAKEVIEW CLEANERS	Garment Pressing And Cleaners' Agents
1992	LAKEVIEW CLEANERS	Garment Pressing And Cleaners' Agents

LAKEVIEW CLEANERS (Continued) **1018416581**

1993	LAKEVIEW CLEANERS	Garment Pressing And Cleaners' Agents
1994	LAKEVIEW CLEANERS	Garment Pressing And Cleaners' Agents
1995	LAKEVIEW CLEANERS	Garment Pressing And Cleaners' Agents
1996	LAKEVIEW CLEANERS	Garment Pressing And Cleaners' Agents
1997	LAKEVIEW CLEANERS	Garment Pressing And Cleaners' Agents
1998	LAKEVIEW CLEANERS	Garment Pressing And Cleaners' Agents
1999	LAKEVIEW CLEANERS	Garment Pressing And Cleaners' Agents
2000	LAKEVIEW CLEANERS	Garment Pressing And Cleaners' Agents
2001	LAKEVIEW CLEANERS	Garment Pressing And Cleaners' Agents
2002	LAKEVIEW CLEANERS	Garment Pressing And Cleaners' Agents
2003	LAKEVIEW CLEANERS	Garment Pressing And Cleaners' Agents
2004	LAKEVIEW CLEANERS	Garment Pressing And Cleaners' Agents
2005	LAKEVIEW CLEANERS	Garment Pressing And Cleaners' Agents
2006	LAKEVIEW CLEANERS	Garment Pressing And Cleaners' Agents
2007	LAKEVIEW CLEANERS	Garment Pressing And Cleaners' Agents
2008	LAKEVIEW CLEANERS	Garment Pressing And Cleaners' Agents
2009	LAKEVIEW CLEANERS	Garment Pressing And Cleaners' Agents
2010	LAKEVIEW CLEANERS	Garment Pressing And Cleaners' Agents
2011	LAKEVIEW CLEANERS	Garment Pressing And Cleaners' Agents
2012	LAKEVIEW CLEANERS	Garment Pressing And Cleaners' Agents
2013	LAKEVIEW CLEANERS	Garment Pressing And Cleaners' Agents
2014	LAKEVIEW CLEANERS	Garment Pressing And Cleaners' Agents

K49 **LAKE VIEW CLEANERS** **DRYCLEANERS** **S121700235**
East **22736 ROSCOE BLVD** **N/A**
< 1/8 **CANOGA PARK, CA 91304**
0.118 mi.
625 ft. **Site 4 of 6 in cluster K**

Relative: DRYCLEAN SOUTH COAST:
Lower

Name:	LAKE VIEW CLEANERS
Address:	22736 ROSCOE BLVD
City,State,Zip:	CANOGA PARK, CA 91304
Facility ID:	90728
Application Number:	263951
Permit Number:	D52774
Status:	S
Representative Name:	SUNG K KIM
Representative Telephone:	818 3481013
Permit Status:	INACTIVE
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	04
CCAT Description:	VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East:	350.5710144
UTM North:	3787.4760742

Actual:
841 ft.

Name:	LAKE VIEW CLEANERS
Address:	22736 ROSCOE BLVD
City,State,Zip:	CANOGA PARK, CA 91304
Facility ID:	90728
Application Number:	299187
Permit Number:	D87246
Status:	S
Representative Name:	SUNG K KIM
Representative Telephone:	818 3481013
Permit Status:	INACTIVE
BCAT Number:	000601

LAKE VIEW CLEANERS (Continued) **S121700235**

BCAT Description: DRY CLEANING, DRY-TO-DRY NON-VENT, PERC
CCAT Number: 04
CCAT Description: VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East: 350.5710144
UTM North: 3787.4760742

K50 **LAKEVIEW CLEANERS** **RCRA-SQG** **1000224867**
East **22736 ROSCOE BLVD** **FINDS** **CAD981639297**
< 1/8 **CANOGA PARK, CA 91304** **ECHO**
0.118 mi. **DRYCLEANERS**
625 ft. **Site 5 of 6 in cluster K** **HAZNET**
HWTS

Relative:
Lower

Actual:
841 ft.

RCRA-SQG:
Date form received by agency: 1996-09-01 00:00:00.0
Facility name: LAKEVIEW CLEANERS
Facility address: 22736 ROSCOE BLVD
CANOGA PARK, CA 91304
EPA ID: CAD981639297
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: CHOI SOO DONG
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator

LAKEVIEW CLEANERS (Continued) **1000224867**

Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 1986-12-29 00:00:00.0
Site name: LAKEVIEW CLEANERS
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:
Registry ID: 110002734827

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000224867
Registry ID: 110002734827
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002734827
Name: LAKEVIEW CLEANERS
Address: 22736 ROSCOE BLVD
City,State,Zip: CANOGA PARK, CA 91304

DRYCLEAN SOUTH COAST:
Name: LAKEVIEW CLEANERS
Address: 22736 ROSCOE BLVD
City,State,Zip: CANOGA PARK, CA 91304
Facility ID: 24375

LAKEVIEW CLEANERS (Continued) **1000224867**

Application Number:	178584
Permit Number:	D04763
Status:	S
Representative Name:	Not reported
Representative Telephone:	Not reported
Permit Status:	INACT_NR
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	04
CCAT Description:	VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East:	350.6000061
UTM North:	3787.3999023

Name:	LAKEVIEW CLEANERS
Address:	22736 ROSCOE BLVD
City,State,Zip:	CANOGA PARK, CA 91304
Facility ID:	24375
Application Number:	C20040
Permit Number:	M07764
Status:	S
Representative Name:	Not reported
Representative Telephone:	Not reported
Permit Status:	INACTIVE
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	04
CCAT Description:	VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East:	350.6000061
UTM North:	3787.3999023

Name:	LAKEVIEW CLEANERS
Address:	22736 ROSCOE BLVD
City,State,Zip:	CANOGA PARK, CA 91304
Facility ID:	141141
Application Number:	431551
Permit Number:	F70449
Status:	A
Representative Name:	KYJNG HO OH
Representative Telephone:	818 3481013
Permit Status:	INACTIVE
BCAT Number:	000601
BCAT Description:	DRY CLEANING, DRY-TO-DRY NON-VENT, PERC
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	350.5710144
UTM North:	3787.4760742

Name:	LAKEVIEW CLEANERS
Address:	22736 ROSCOE BLVD
City,State,Zip:	CANOGA PARK, CA 91304
Facility ID:	141141
Application Number:	469925
Permit Number:	F91241
Status:	A
Representative Name:	KYJNG HO OH
Representative Telephone:	818 3481013
Permit Status:	ACTIVE

LAKEVIEW CLEANERS (Continued) **1000224867**

BCAT Number: 000233
BCAT Description: DRY CLEANING EQUIP PETROLEUM SOLVENT
CCAT Number: Not reported
CCAT Description: Not reported
UTM East: 350.5710144
UTM North: 3787.4760742

DRYCLEANERS:
Name: LAKEVIEW CLEANERS
Address: 22736 ROSCOE BLVD
City,State,Zip: CANOGA PARK, CA 913040000
EPA Id: CAL000092099
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7211
SIC Description: Power Laundries, Family and Commercial
Create Date: 01/24/1995
Facility Active: No
Inactive Date: 06/30/2004
Facility Addr2: Not reported
Owner Name: LAKEVIEW CLEANERS
Owner Address: 22736 ROSCOE BL
Owner Address 2: Not reported
Owner Telephone: 8183481013
Contact Name: SUNG K KIM
Contact Address: --
Contact Address 2: Not reported
Contact Telephone: 8183481013
Mailing Name: Not reported
Mailing Address 1: 22736 ROSCOE BLVD
Mailing Address 2: Not reported
Mailing City: CANOGA PARK
Mailing State: CA
Mailing Zip: 913040000
Owner Fax: Not reported
Region Code: 3

Name: LAKEVIEW CLEANERS
Address: 22736 ROSCOE BLVD
City,State,Zip: CANOGA PARK, CA 91304
EPA Id: CAL000312588
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7211
SIC Description: Power Laundries, Family and Commercial
Create Date: 10/16/2006
Facility Active: Yes
Inactive Date: Not reported
Facility Addr2: Not reported
Owner Name: KYUNG HO OH
Owner Address: 22736 ROSCOE BLVD
Owner Address 2: Not reported
Owner Telephone: 8186717644
Contact Name: KYUNG UN HO
Contact Address: 22736 ROSCOE BLVD
Contact Address 2: Not reported
Contact Telephone: 8183481013

LAKEVIEW CLEANERS (Continued) **1000224867**

Mailing Name: Not reported
Mailing Address 1: 22736 ROSCOE BLVD
Mailing Address 2: Not reported
Mailing City: CANOGA PARK
Mailing State: CA
Mailing Zip: 91304
Owner Fax: Not reported
Region Code: 3

HAZNET:
Name: LAKEVIEW CLEANERS
Address: 22736 ROSCOE BLVD
Address 2: Not reported
City,State,Zip: CANOGA PARK, CA 913040000
Contact: CANCELLED BY SUNG K KIM ON 1-
Telephone: 8183481013
Mailing Name: Not reported
Mailing Address: 22736 ROSCOE BLVD

Year: 2005
Gepaid: CAD981639297
TSD EPA ID: NVR000076158
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: R01 - Recycler
Tons: Not reported

Year: 2005
Gepaid: CAD981639297
TSD EPA ID: NVR000076158
CA Waste Code: 211 - Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method: R01 - Recycler
Tons: 0.15

Year: 2005
Gepaid: CAD981639297
TSD EPA ID: NVR000076158
CA Waste Code: 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method: R01 - Recycler
Tons: Not reported

Year: 1999
Gepaid: CAD981639297
TSD EPA ID: CAT000613893
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H01 - Transfer Station
Tons: 0.0975

Year: 1998
Gepaid: CAD981639297
TSD EPA ID: CAT000613893
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H01 - Transfer Station
Tons: 0.0975

Year: 1997

LAKEVIEW CLEANERS (Continued) **1000224867**

Gepaid: CAD981639297
TSD EPA ID: CAT000613893
CA Waste Code: 211 - Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method: H01 - Transfer Station
Tons: 0.0975

Year: 1995
Gepaid: CAD981639297
TSD EPA ID: CAD981397417
CA Waste Code: 211 - Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method: R01 - Recycler
Tons: 0.5381

Year: 1995
Gepaid: CAD981639297
TSD EPA ID: CAT000613893
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H01 - Transfer Station
Tons: 0.14

Year: 1995
Gepaid: CAD981639297
TSD EPA ID: CAD981397417
CA Waste Code: -
Disposal Method: R01 - Recycler
Tons: 0

Year: 1994
Gepaid: CAD981639297
TSD EPA ID: CAT000613893
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H01 - Transfer Station
Tons: 0.14

Click this hyperlink while viewing on your computer to access
3 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 1993
Gen EPA ID: CAD981639297

Shipment Date: 19931206
Creation Date: 9/14/1995 0:00:00
Receipt Date: 19931206
Manifest ID: 93026716
Trans EPA ID: ILD984908202
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT000613992
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l

LAKEVIEW CLEANERS (Continued) **1000224867**

RCRA Code: F002
Meth Code: H01 - Transfer Station
Quantity Tons: 0.06
Waste Quantity: 120
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 1998
Gen EPA ID: CAD981639297

Shipment Date: 19980508
Creation Date: 7/15/1998 0:00:00
Receipt Date: 19980512
Manifest ID: 96454889
Trans EPA ID: ILD984908202
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT000613893
Trans Name: Not reported
TSDF Alt EPA ID: CAT000613893
TSDF Alt Name: Not reported
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code: F002
Meth Code: H01 - Transfer Station
Quantity Tons: 0.0975
Waste Quantity: 195
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 1994
Gen EPA ID: CAD981639297

Shipment Date: 19941201
Creation Date: 10/19/1995 0:00:00
Receipt Date: 19941206
Manifest ID: 95079812
Trans EPA ID: ILD984908202
Trans Name: Not reported
Trans 2 EPA ID: ILD984908202
Trans 2 Name: Not reported
TSDF EPA ID: CAT000613893
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l

LAKEVIEW CLEANERS (Continued) **1000224867**

RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.07
Waste Quantity:	140
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19941103
Creation Date:	10/19/1995 0:00:00
Receipt Date:	19941107
Manifest ID:	93782317
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.07
Waste Quantity:	140
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19940316
Creation Date:	10/5/1995 0:00:00
Receipt Date:	19940316
Manifest ID:	93198994
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613992
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.14
Waste Quantity:	280
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

LAKEVIEW CLEANERS (Continued) **1000224867**

Additional Code 5: Not reported

Additional Info:
Year: 1995
Gen EPA ID: CAD981639297

Shipment Date: 19950929
Creation Date: 7/26/1996 0:00:00
Receipt Date: 19951002
Manifest ID: 95944128
Trans EPA ID: CAD981414386
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD981397417
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: - Not reported
RCRA Code: Not reported
Meth Code: R01 - Recycler
Quantity Tons: 0
Waste Quantity: 0
Quantity Unit: Not reported
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19950929
Creation Date: 7/26/1996 0:00:00
Receipt Date: 19951002
Manifest ID: 95944128
Trans EPA ID: CAD981414386
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD981397417
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code: F002
Meth Code: R01 - Recycler
Quantity Tons: 0.1167
Waste Quantity: 28
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19950320
Creation Date: 10/23/1995 0:00:00

LAKEVIEW CLEANERS (Continued) **1000224867**

Receipt Date:	19950323
Manifest ID:	93779923
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.14
Waste Quantity:	280
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19950303
Creation Date:	4/2/1996 0:00:00
Receipt Date:	19950306
Manifest ID:	95186769
Trans EPA ID:	CAD981414386
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981397417
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD981397417
TSDF Alt Name:	Not reported
Waste Code Description:	211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code:	F002
Meth Code:	R01 - Recycler
Quantity Tons:	0.4214
Waste Quantity:	0.5
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19950303
Creation Date:	4/2/1996 0:00:00
Receipt Date:	19950306
Manifest ID:	95186769
Trans EPA ID:	CAD981414386
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981397417
Trans Name:	Not reported

LAKEVIEW CLEANERS (Continued) **1000224867**

TSDF Alt EPA ID: CAD981397417
TSDF Alt Name: Not reported
Waste Code Description: - Not reported
RCRA Code: Not reported
Meth Code: R01 - Recycler
Quantity Tons: 0
Waste Quantity: 0
Quantity Unit: Not reported
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 1999
Gen EPA ID: CAD981639297

Shipment Date: 19990114
Creation Date: 3/15/1999 0:00:00
Receipt Date: 19990119
Manifest ID: 98628632
Trans EPA ID: ILD984908202
Trans Name: Not reported
Trans 2 EPA ID: SCD987574647
Trans 2 Name: Not reported
TSDF EPA ID: CAT000613893
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code: F002
Meth Code: H01 - Transfer Station
Quantity Tons: 0.0975
Waste Quantity: 195
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 1997
Gen EPA ID: CAD981639297

Shipment Date: 19970131
Creation Date: 6/26/1997 0:00:00
Receipt Date: 19970204
Manifest ID: 96439794
Trans EPA ID: ILD984908202
Trans Name: Not reported
Trans 2 EPA ID: ILD984908202
Trans 2 Name: Not reported
TSDF EPA ID: CAT000613893
Trans Name: Not reported

LAKEVIEW CLEANERS (Continued) **1000224867**

TSDF Alt EPA ID:	CAT000613893
TSDF Alt Name:	Not reported
Waste Code Description:	211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2005
Gen EPA ID:	CAD981639297
Shipment Date:	20050630
Creation Date:	10/27/2005 10:10:50
Receipt Date:	20050708
Manifest ID:	24550737
Trans EPA ID:	CAR000036921
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAD981375983
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050630
Creation Date:	10/27/2005 10:10:50
Receipt Date:	20050708
Manifest ID:	24550737
Trans EPA ID:	CAR000036921
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAD981375983
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039

LAKEVIEW CLEANERS (Continued) **1000224867**

Meth Code:	R01 - Recycler
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050630
Creation Date:	10/27/2005 10:10:50
Receipt Date:	20050708
Manifest ID:	24550737
Trans EPA ID:	CAR000036921
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAD981375983
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code:	F002
Meth Code:	R01 - Recycler
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050630
Creation Date:	10/27/2005 10:10:50
Receipt Date:	20050708
Manifest ID:	24550737
Trans EPA ID:	CAR000036921
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAD981375983
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code:	F002
Meth Code:	R01 - Recycler
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

LAKEVIEW CLEANERS (Continued) **1000224867**

Additional Code 4: Not reported
Additional Code 5: Not reported

HWTS:
Name: LAKEVIEW CLEANERS
Address: 22736 ROSCOE BLVD
Address 2: Not reported
City,State,Zip: CANOGA PARK, CA 913040000
EPA ID: CAL000092099
Inactive Date: 06/30/2004
Create Date: 01/24/1995
Last Act Date: 10/22/2003
Mailing Name: Not reported
Mailing Address: 22736 ROSCOE BLVD
Mailing Address 2: Not reported
Mailing City,State,Zip: CANOGA PARK, CA 913040000
Owner Name: LAKEVIEW CLEANERS
Owner Address: 22736 ROSCOE BL
Owner Address 2: Not reported
Owner City,State,Zip: CANOGA PARK, CA 913040000
Contact Name: SUNG K KIM
Contact Address: --
Contact Address 2: Not reported
City,State,Zip: --, 99 --

NAICS:
EPA ID: CAL000092099
Create Date: 2003-10-23 13:13:52
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
Issued EPA ID Date: 1995-01-24 00:00:00
Inactive Date: 2004-06-30 00:00:00
Facility Name: LAKEVIEW CLEANERS
Facility Address: 22736 ROSCOE BLVD
Facility Address 2: Not reported
Facility City: CANOGA PARK
Facility County: 19
Facility State: CA
Facility Zip: 913040000

Name: LAKEVIEW CLEANERS
Address: 22736 ROSCOE BLVD
Address 2: Not reported
City,State,Zip: CANOGA PARK, CA 913040000
EPA ID: CAD981639297
Inactive Date: 06/30/2000
Create Date: 07/03/1987
Last Act Date: 05/25/2007
Mailing Name: Not reported
Mailing Address: 22736 ROSCOE BLVD
Mailing Address 2: Not reported
Mailing City,State,Zip: CANOGA PARK, CA 913040000
Owner Name: --
Owner Address: --
Owner Address 2: Not reported
Owner City,State,Zip: --, 99 --

LAKEVIEW CLEANERS (Continued) **1000224867**

Contact Name: CANCELLED BY SUNG K KIM ON 1-
Contact Address: INACTIVE PER VQ00 - BMI
Contact Address 2: Not reported
City,State,Zip: --, 99 --

K51 **WEST HILLS POOL SUPPLY** **HAZMAT** **S123514592**
East **22726 ROSCOE BLVD** **CERS** **N/A**
1/8-1/4 **CANOGA PARK, CA 91304**
0.127 mi.
670 ft. **Site 6 of 6 in cluster K**

Relative:
Lower

Actual:
841 ft.

LOS ANGELES HM:
Name: WEST HILLS POOL SUPPLY
Address: 22726 ROSCOE BLVD
City,State,Zip: WEST HILLS, CA 91304
Facility ID: FA0039383
Last Run Date: 06/01/2019
Status: ACTIVE

CERS:
Name: WEST HILLS POOL SUPPLY
Address: 22726 ROSCOE BLVD
City,State,Zip: CANOGA PARK, CA 91304
Site ID: 376384
CERS ID: 10688947
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 04-06-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Routine compliance inspection was unable to be conducted by the due date due to LAFD response and operational restrictions to the COVID G 19 crisis.
Eval Division: Los Angeles City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Jane Mohran
Entity Title: Not reported
Affiliation Address: 22726 Roscoe Blvd
Affiliation City: Canoga Park
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91304
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner
Entity Name: Joe Daby
Entity Title: Not reported
Affiliation Address: 16733 Ventura Blvd Suite 202
Affiliation City: Encino
Affiliation State: CA
Affiliation Country: United States

WEST HILLS POOL SUPPLY (Continued) **S123514592**

Affiliation Zip:	91436
Affiliation Phone:	(818) 789-3737
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	22726 Roscoe Blvd
Affiliation City:	Canoga Park
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91304
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Jane Mohran
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(818) 425-3819
Affiliation Type Desc:	Parent Corporation
Entity Name:	West Hills Pool Supply, Inc
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	Los Angeles City Fire Department
Entity Title:	Not reported
Affiliation Address:	200 North Main Street, Room 1780
Affiliation City:	Los Angeles
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90012
Affiliation Phone:	(213) 978-3680
Affiliation Type Desc:	Document Preparer
Entity Name:	Jane Mohran
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Jane Mohran
Entity Title:	Manager
Affiliation Address:	Not reported

WEST HILLS POOL SUPPLY (Continued) **S123514592**

Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	WHPS INC.
Entity Title:	Not reported
Affiliation Address:	22726 roscoe blvd
Affiliation City:	canoga park
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91304
Affiliation Phone:	(818) 884-1084

52
ENE
1/8-1/4
0.138 mi.
731 ft.

STEPHEN LEPIRE
8410 PONCE AVE
CANOGA PARK, CA 91304

RCRA NonGen / NLR **1025849041**
CAC003029102

Relative:
Higher

Actual:
850 ft.

RCRA NonGen / NLR:

Date form received by agency:	2019-08-13 00:00:00.0
Facility name:	STEPHEN LEPIRE
Facility address:	8410 PONCE AVE CANOGA PARK, CA 91304
EPA ID:	CAC003029102
Contact:	SERVICE GENIUS
Contact address:	9761 VARIEL AVE CHATSWORTH, CA 91311
Contact country:	Not reported
Contact telephone:	818-301-3663
Contact email:	XBARAHONA@SVCGENIUS.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	SERVICE GENIUS
Owner/operator address:	9761 VARIEL AVE CHATSWORTH, CA 91311
Owner/operator country:	Not reported
Owner/operator telephone:	818-301-3663
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	STEPHEN LEPIRE
Owner/operator address:	8410 PONCE AVE CANOGA PARK, CA 91304
Owner/operator country:	Not reported

STEPHEN LEPIRE (Continued) **1025849041**

Owner/operator telephone: 805-341-7497
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

53
NE
1/8-1/4
0.151 mi.
798 ft.

RACHEL & OWEN DICKSON **RCRA NonGen / NLR** **1025827442**
22711 NAPA ST. **CAC003006991**
CANOGA PARK, CA 91304

Relative:
Higher

Actual:
856 ft.

RCRA NonGen / NLR:
Date form received by agency: 2019-03-22 00:00:00.0
Facility name: RACHEL & OWEN DICKSON
Facility address: 22711 NAPA ST.
CANOGA PARK, CA 91304
EPA ID: CAC003006991
Contact: RACHEL & OWEN DICKSON
Contact address: 22711 NAPA ST.
CANOGA PARK, CA 91304
Contact country: Not reported
Contact telephone: 310-961-1075
Contact email: MICAELAB@JCENVIRONMENTALINC.COM
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: RACHEL & OWEN DICKSON
Owner/operator address: 22711 NAPA ST.
CANOGA PARK, CA 91304
Owner/operator country: Not reported
Owner/operator telephone: 310-961-1075
Owner/operator email: Not reported
Owner/operator fax: Not reported

RACHEL & OWEN DICKSON (Continued) **1025827442**

Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: RACHEL & OWEN DICKSON
Owner/operator address: 22711 NAPA ST.
CANOGA PARK, CA 91304
Owner/operator country: Not reported
Owner/operator telephone: 310-961-1075
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: Yes
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

54
SE
1/8-1/4
0.159 mi.
837 ft.

KERMIN ROCHMAN **RCRA NonGen / NLR** **1025864924**
8118 MCLAREN AVE **CAC003045770**
CANOGA PARK, CA 91304

Relative:
Lower

Actual:
836 ft.

RCRA NonGen / NLR:
Date form received by agency: 2019-12-04 00:00:00.0
Facility name: KERMIN ROCHMAN
Facility address: 8118 MCLAREN AVE
CANOGA PARK, CA 91304-3639
EPA ID: CAC003045770
Contact: KERMIN ROCHMAN
Contact address: 8118 MCLAREN AVE
CANOGA PARK, CA 91304-3639
Contact country: Not reported
Contact telephone: 818-825-1867
Contact email: KRISTINE.RAMOS@PEAS1.COM
EPA Region: 09
Classification: Non-Generator

KERMIN ROCHMAN (Continued) **1025864924**

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	KERMIN ROCHMAN
Owner/operator address:	8118 MCLAREN AVE
	CANOGA PARK, CA 91304
Owner/operator country:	Not reported
Owner/operator telephone:	818-825-1867
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	KERMIN ROCHMAN
Owner/operator address:	8118 MCLAREN AVE
	CANOGA PARK, CA 91304
Owner/operator country:	Not reported
Owner/operator telephone:	818-825-1867
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	Not reported
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

55
NW
1/8-1/4
0.174 mi.
917 ft.

SAM HANACHI
8423 SEDAN AVE
WEST HILLS, CA 91304

RCRA NonGen / NLR

1024746245
CAC002966017

Relative:
Higher

Actual:
851 ft.

RCRA NonGen / NLR:

Date form received by agency:	2018-06-12 00:00:00.0
Facility name:	SAM HANACHI
Facility address:	8423 SEDAN AVE WEST HILLS, CA 91304
EPA ID:	CAC002966017
Contact:	SAM HANACHI
Contact address:	8423 SEDAN AVE WEST HILLS, CA 91304
Contact country:	Not reported
Contact telephone:	818-216-5045
Contact email:	JOE@SIRRIS.BIZ
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	SAM HANACHI
Owner/operator address:	8423 SEDAN AVE WEST HILLS, CA 91304
Owner/operator country:	Not reported
Owner/operator telephone:	818-276-5045
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	SAM HANACHI
Owner/operator address:	8423 SEDAN AVE WEST HILLS, CA 91304
Owner/operator country:	Not reported
Owner/operator telephone:	818-216-5045
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No

SAM HANACHI (Continued) **1024746245**

Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

L56 **RODGERS** **RCRA NonGen / NLR** **1025832008**
NW **8442 SEDAN AVE** **CAC003011571**
1/8-1/4 **CANOGA PARK, CA 91304**
0.195 mi.
1031 ft. **Site 1 of 2 in cluster L**

Relative:
Higher

Actual:
844 ft.

RCRA NonGen / NLR:

Date form received by agency:	2019-04-23 00:00:00.0
Facility name:	RODGERS
Facility address:	8442 SEDAN AVE CANOGA PARK, CA 91304
EPA ID:	CAC003011571
Contact:	JOE RODGERS
Contact address:	8442 SEDAN AVE CANOGA PARK, CA 91304
Contact country:	Not reported
Contact telephone:	800-905-5485
Contact email:	ATIOFFICE@YAHOO.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	HOWARD RODGERS
Owner/operator address:	8442 SEDAN AVE CANOGA PARK, CA 91304
Owner/operator country:	Not reported
Owner/operator telephone:	800-905-5485
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	JOE RODGERS
Owner/operator address:	8442 SEDAN AVE CANOGA PARK, CA 91304
Owner/operator country:	Not reported
Owner/operator telephone:	800-905-5485
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

RODGERS (Continued) **1025832008**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: Yes
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

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57 **K CHERIE MURRAY DBA M & J TRUCKING** **RCRA NonGen / NLR** **1004677040**
NE **8551 FAUST AVE** **FINDS** **CAR000092544**
1/8-1/4 **WEST HILLS, CA 91304** **ECHO**
0.208 mi.
1097 ft.

Relative:
Higher

Actual:
855 ft.

RCRA NonGen / NLR:
Date form received by agency: 2001-03-01 00:00:00.0
Facility name: K CHERIE MURRAY DBA M & J TRUCKING
Facility address: 8551 FAUST AVE
WEST HILLS, CA 91304-2235
EPA ID: CAR000092544
Contact: KIMBERLY MURRAY
Contact address: 8551 FAUST AVE
WEST HILLS, CA 91304-2235
Contact country: US
Contact telephone: 818-999-2205
Contact email: Not reported
EPA Region: 09
Land type: Private
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: KIMBERLY CHERIE MURRAY
Owner/operator address: 8551 FAUST AVE
WEST HILLS, CA 91304
Owner/operator country: Not reported
Owner/operator telephone: 818-999-2205
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:

K CHERIE MURRAY DBA M & J TRUCKING (Continued) **1004677040**

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 2005-04-14 00:00:00.0
Date achieved compliance: 2006-02-16 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2005-04-14 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 2005-04-14 00:00:00.0
Date achieved compliance: 2006-02-16 00:00:00.0
Violation lead agency: State
Enforcement action: SINGLE SITE CA/FO
Enforcement action date: 2006-02-16 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5000
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 2005-04-14 00:00:00.0
Date achieved compliance: 2006-02-16 00:00:00.0
Violation lead agency: State
Enforcement action: LETTER OF INTENT TO INITIATE ENFORCEMENT ACTION
Enforcement action date: 2005-10-21 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported

K CHERIE MURRAY DBA M & J TRUCKING (Continued) **1004677040**

Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 2005-04-14 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 2006-02-16 00:00:00.0
Evaluation lead agency: State

FINDS:
Registry ID: 110012209662

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1004677040
Registry ID: 110012209662
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110012209662
Name: K CHERIE MURRAY DBA M & J TRUCKING
Address: 8551 FAUST AVE
City,State,Zip: WEST HILLS, CA 91304

58
SE
1/8-1/4
0.213 mi.
1126 ft.

8028 FALLBROOK AVE
CANOGA PARK, CA

UST **U004304578**
N/A

Relative:
Lower

Actual:
835 ft.

LOS ANGELES UST:
Name: Not reported
Address: 8028 FALLBROOK AVE
City,State,Zip: CANOGA PARK, CA
Facility ID: Not reported
Last Run Date: 01/01/1900
Status: HISTORICAL

L59
NW
1/8-1/4
0.247 mi.
1305 ft.

PAULA SYNODINOS
8460 SEDAN AVE
WEST HILLS, CA 91304
Site 2 of 2 in cluster L

RCRA NonGen / NLR **1024775613**
CAC002995545

Relative:
Higher

Actual:
854 ft.

RCRA NonGen / NLR:
Date form received by agency: 2019-01-08 00:00:00.0
Facility name: PAULA SYNODINOS
Facility address: 8460 SEDAN AVE

PAULA SYNODINOS (Continued) **1024775613**

WEST HILLS, CA 91304
EPA ID: CAC002995545
Contact: PAULA SYNODINOS
Contact address: 8460 SEDAN AVE
WEST HILLS, CA 91304
Contact country: Not reported
Contact telephone: 818-746-5541
Contact email: MANIFEST.SIRRIS@GMAIL.COM
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: PAULA SYNODINOS
Owner/operator address: 8460 SEDAN AVE
WEST HILLS, CA 91304
Owner/operator country: Not reported
Owner/operator telephone: 818-746-5541
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: PAULA SYNODINOS
Owner/operator address: 8460 SEDAN AVE
WEST HILLS, CA 91304
Owner/operator country: Not reported
Owner/operator telephone: 818-746-5541
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

PAULA SYNODINOS (Continued) **1024775613**

Violation Status: No violations found

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60 East 1/2-1 0.806 mi. 4256 ft. **WEST VALLEY HOSPITAL** **ENVIROSTOR** **S118756555**
22141 ROSCOE BOULEVARD **N/A**
CANOGA PARK, CA 91304

Relative: Lower

Actual: 834 ft.

ENVIROSTOR:

Name:	WEST VALLEY HOSPITAL
Address:	22141 ROSCOE BOULEVARD
City,State,Zip:	CANOGA PARK, CA 91304
Facility ID:	19800031
Status:	No Action Required
Status Date:	12/15/1995
Site Code:	300584
Site Type:	Calmortgage
Site Type Detailed:	Calmortgage
Acres:	0
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Sandra Karinen
Supervisor:	William Beckman
Division Branch:	Cleanup Sacramento
Assembly:	45
Senate:	27
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	CalMortgage
Latitude:	34.21944
Longitude:	-118.6086
APN:	NONE SPECIFIED
Past Use:	NONE
Potential COC:	NONE SPECIFIED No Contaminants found
Confirmed COC:	No Contaminants found
Potential Description:	NMA
Alias Name:	300584
Alias Type:	Project Code (Site Code)
Alias Name:	19800031
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	12/15/1995
Comments:	Pursuant to the MOU, DTSC has reviewed a Level I Environmental Assessment and other documents for Triad Health Care (THC). The subject property, West Valley Hospital, is an older multi- story acute care hospital which is currently vacant. THC is proposing to remodel the building in order to accommodate its use as a health care facility. A Supplemental Phase I Environmental Assessment Report was prepared by DTSC and concluded that no action was needed for this property; there is no contamination on the property.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported

WEST VALLEY HOSPITAL (Continued) **S118756555**

Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

Count: 5 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CANOGA PARK	S121631308	CORPORATE POINTE AT WEST HILLS	FALLBROOK AVENUE	91304	CIWQS
CANOGA PARK	S121697346	FALLBROOK SQUARE CLEANERS	6705 FALLBROOK AVE	91304	DRYCLEANERS
CANOGA PARK	S124813945	WEST HILLS RADITOR	20138 ROSCOE BLVD	91303	HWTS
CANOGA PARK	S121698651	FULTAN CLEANERS, BEN MASSABAND ET	20109 ROSCOE BLVD	91303	DRYCLEANERS
WEST HILLS	1001815639	THE BOEING CO WEST HILLS	8521 AND 8531 FALLBROOK AVE	91307	RCRA-SQG

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/27/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 05/28/2020
Number of Days to Update: 22

Source: EPA
Telephone: N/A
Last EDR Contact: 06/30/2020
Next Scheduled EDR Contact: 10/12/2020
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/27/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 05/28/2020
Number of Days to Update: 22

Source: EPA
Telephone: N/A
Last EDR Contact: 06/30/2020
Next Scheduled EDR Contact: 10/12/2020
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/27/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 05/28/2020
Number of Days to Update: 22

Source: EPA
Telephone: N/A
Last EDR Contact: 06/30/2020
Next Scheduled EDR Contact: 10/12/2020
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 07/02/2020
Next Scheduled EDR Contact: 10/12/2020
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/27/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 05/28/2020
Number of Days to Update: 22

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/17/2020
Next Scheduled EDR Contact: 10/26/2020
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/27/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 05/28/2020
Number of Days to Update: 22

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/17/2020
Next Scheduled EDR Contact: 10/26/2020
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/23/2020
Date Data Arrived at EDR: 03/25/2020
Date Made Active in Reports: 05/21/2020
Number of Days to Update: 57

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/22/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/23/2020
Date Data Arrived at EDR: 03/25/2020
Date Made Active in Reports: 05/21/2020
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/22/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/23/2020
Date Data Arrived at EDR: 03/25/2020
Date Made Active in Reports: 05/21/2020
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/22/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/23/2020
Date Data Arrived at EDR: 03/25/2020
Date Made Active in Reports: 05/21/2020
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/22/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/23/2020
Date Data Arrived at EDR: 03/25/2020
Date Made Active in Reports: 05/21/2020
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/22/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/15/2020
Date Data Arrived at EDR: 05/19/2020
Date Made Active in Reports: 06/18/2020
Number of Days to Update: 30

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/14/2020
Next Scheduled EDR Contact: 08/24/2020
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/13/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 05/15/2020
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/15/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 02/13/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 05/15/2020
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/15/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/22/2020
Date Data Arrived at EDR: 03/24/2020
Date Made Active in Reports: 06/18/2020
Number of Days to Update: 86

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/22/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 04/27/2020
Date Data Arrived at EDR: 04/28/2020
Date Made Active in Reports: 07/13/2020
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/27/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 04/27/2020
Date Data Arrived at EDR: 04/28/2020
Date Made Active in Reports: 07/13/2020
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/27/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/11/2020
Date Data Arrived at EDR: 05/12/2020
Date Made Active in Reports: 07/27/2020
Number of Days to Update: 76

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/12/2020
Next Scheduled EDR Contact: 08/24/2020
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 05/13/2020
Date Data Arrived at EDR: 05/13/2020
Date Made Active in Reports: 05/15/2020
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Quarterly

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/03/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 72

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/11/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/10/2019
Date Data Arrived at EDR: 12/05/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 67
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/15/2019
Date Data Arrived at EDR: 12/17/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 55
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/01/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/02/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/01/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/04/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/27/2020
Number of Days to Update: 85
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 05/13/2020
Date Data Arrived at EDR: 05/13/2020
Date Made Active in Reports: 05/14/2020
Number of Days to Update: 1
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 02/01/2020
Date Data Arrived at EDR: 03/19/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 82
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/06/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/09/2020
Date Data Arrived at EDR: 03/10/2020
Date Made Active in Reports: 05/20/2020
Number of Days to Update: 71
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Semi-Annually

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 05/13/2020
Date Data Arrived at EDR: 05/13/2020
Date Made Active in Reports: 05/15/2020
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 03/09/2020
Date Data Arrived at EDR: 03/11/2020
Date Made Active in Reports: 05/26/2020
Number of Days to Update: 76

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 06/10/2020
Next Scheduled EDR Contact: 09/28/2020
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/02/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/01/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/04/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/27/2020
Number of Days to Update: 85

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/23/2020
Next Scheduled EDR Contact: 11/01/2020
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/01/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/11/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/10/2019
Date Data Arrived at EDR: 12/05/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 67

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/03/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 72

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 10/11/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/17/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 04/27/2020
Date Data Arrived at EDR: 04/28/2020
Date Made Active in Reports: 07/13/2020
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/27/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Quarterly

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 03/23/2020
Date Data Arrived at EDR: 03/24/2020
Date Made Active in Reports: 06/05/2020
Number of Days to Update: 73

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 06/22/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/01/2020
Date Data Arrived at EDR: 06/02/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/02/2020
Next Scheduled EDR Contact: 09/28/2020
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 07/21/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 03/09/2020
Date Data Arrived at EDR: 03/10/2020
Date Made Active in Reports: 05/19/2020
Number of Days to Update: 70

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 11/15/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/23/2020
Number of Days to Update: 69

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/06/2020
Next Scheduled EDR Contact: 08/24/2020
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 07/21/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/14/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 07/31/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 03/18/2020
Date Data Arrived at EDR: 03/19/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/18/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 04/27/2020
Date Data Arrived at EDR: 04/28/2020
Date Made Active in Reports: 07/13/2020
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/27/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 04/15/2020
Number of Days to Update: 70

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 07/09/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Varies

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 04/20/2020
Date Data Arrived at EDR: 04/21/2020
Date Made Active in Reports: 07/13/2020
Number of Days to Update: 83

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 07/21/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 03/18/2020
Date Data Arrived at EDR: 03/19/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/18/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 03/09/2020
Date Data Arrived at EDR: 03/10/2020
Date Made Active in Reports: 05/19/2020
Number of Days to Update: 70

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 12/19/2019
Date Data Arrived at EDR: 12/23/2019
Date Made Active in Reports: 02/21/2020
Number of Days to Update: 60

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 05/15/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing
Aboveground storage tank sites

Date of Government Version: 05/04/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 07/17/2020
Number of Days to Update: 72

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Varies

CERS TANKS: California Environmental Reporting System (CERS) Tanks
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 04/20/2020
Date Data Arrived at EDR: 04/21/2020
Date Made Active in Reports: 07/09/2020
Number of Days to Update: 79

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/21/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 03/03/2020
Date Data Arrived at EDR: 03/05/2020
Date Made Active in Reports: 05/14/2020
Number of Days to Update: 70

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/27/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 04/27/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 05/28/2020
Number of Days to Update: 22

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 06/30/2020
Next Scheduled EDR Contact: 10/12/2020
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 03/02/2020
Date Data Arrived at EDR: 03/03/2020
Date Made Active in Reports: 05/13/2020
Number of Days to Update: 71

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 06/02/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 02/27/2020
Date Data Arrived at EDR: 03/24/2020
Date Made Active in Reports: 06/18/2020
Number of Days to Update: 86

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/23/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 03/31/2020
Date Data Arrived at EDR: 04/21/2020
Date Made Active in Reports: 07/09/2020
Number of Days to Update: 79

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 07/21/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 05/13/2020
Date Data Arrived at EDR: 05/13/2020
Date Made Active in Reports: 05/14/2020
Number of Days to Update: 1

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 05/13/2020
Date Data Arrived at EDR: 05/13/2020
Date Made Active in Reports: 05/15/2020
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/23/2020
Date Data Arrived at EDR: 03/25/2020
Date Made Active in Reports: 05/21/2020
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/22/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/28/2020
Date Data Arrived at EDR: 02/19/2020
Date Made Active in Reports: 05/14/2020
Number of Days to Update: 85

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/18/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/09/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/06/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/15/2020
Next Scheduled EDR Contact: 08/24/2020
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/23/2020
Date Data Arrived at EDR: 03/24/2020
Date Made Active in Reports: 06/18/2020
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/22/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 07/31/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/08/2020
Next Scheduled EDR Contact: 08/17/2020
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/17/2020
Next Scheduled EDR Contact: 09/28/2020
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 79

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/21/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 03/01/2020
Date Data Arrived at EDR: 04/21/2020
Date Made Active in Reports: 07/15/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/21/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/27/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 05/28/2020
Number of Days to Update: 22

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/30/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 11/05/2019
Date Data Arrived at EDR: 11/20/2019
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 149

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/15/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 04/27/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 34

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 06/30/2020
Next Scheduled EDR Contact: 08/17/2020
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 10/09/2019
Date Data Arrived at EDR: 10/11/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 70

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/13/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 06/30/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 10/25/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 82

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 07/20/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 42
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 06/05/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/01/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 05/08/2020
Next Scheduled EDR Contact: 08/17/2020
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 06/24/2020
Next Scheduled EDR Contact: 10/12/2020
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 07/27/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2020
Date Data Arrived at EDR: 07/15/2020
Date Made Active in Reports: 07/21/2020
Number of Days to Update: 6

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/06/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/22/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/07/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/18/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/27/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 05/28/2020
Number of Days to Update: 22

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 06/30/2020
Next Scheduled EDR Contact: 10/12/2020
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 03/31/2020
Date Data Arrived at EDR: 04/01/2020
Date Made Active in Reports: 05/21/2020
Number of Days to Update: 50

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 05/27/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/11/2020
Date Data Arrived at EDR: 02/25/2020
Date Made Active in Reports: 05/21/2020
Number of Days to Update: 86

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/21/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 01/16/2018
Date Data Arrived at EDR: 02/28/2020
Date Made Active in Reports: 05/22/2020
Number of Days to Update: 84

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/27/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/21/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/05/2020
Date Data Arrived at EDR: 03/06/2020
Date Made Active in Reports: 05/29/2020
Number of Days to Update: 84

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/19/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/03/2020
Date Data Arrived at EDR: 03/03/2020
Date Made Active in Reports: 05/28/2020
Number of Days to Update: 86

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 06/02/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 74

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/09/2020
Next Scheduled EDR Contact: 10/26/2020
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 04/04/2020
Date Data Arrived at EDR: 04/07/2020
Date Made Active in Reports: 06/26/2020
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 07/02/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/18/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/18/2020
Date Data Arrived at EDR: 02/19/2020
Date Made Active in Reports: 05/14/2020
Number of Days to Update: 85

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/19/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 03/23/2020
Date Data Arrived at EDR: 03/24/2020
Date Made Active in Reports: 06/05/2020
Number of Days to Update: 73

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 06/22/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 05/15/2020
Next Scheduled EDR Contact: 08/24/2020
Data Release Frequency: Varies

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 05/04/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 07/17/2020
Number of Days to Update: 72

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 02/27/2020
Date Data Arrived at EDR: 02/28/2020
Date Made Active in Reports: 05/07/2020
Number of Days to Update: 69

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 05/27/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 12/04/2019
Date Data Arrived at EDR: 01/29/2020
Date Made Active in Reports: 04/09/2020
Number of Days to Update: 71

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 05/27/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Annually

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 03/25/2020
Date Data Arrived at EDR: 03/26/2020
Date Made Active in Reports: 06/15/2020
Number of Days to Update: 81

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 05/15/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: Varies

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/24/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 59

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 06/16/2020
Next Scheduled EDR Contact: 09/28/2020
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 04/03/2020
Date Data Arrived at EDR: 04/07/2020
Date Made Active in Reports: 04/15/2020
Number of Days to Update: 8

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 07/21/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 04/09/2020
Date Data Arrived at EDR: 04/10/2020
Date Made Active in Reports: 07/01/2020
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 07/14/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 05/14/2020
Date Data Arrived at EDR: 05/15/2020
Date Made Active in Reports: 07/27/2020
Number of Days to Update: 73

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 04/29/2020
Next Scheduled EDR Contact: 08/24/2020
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 04/15/2020
Date Made Active in Reports: 07/02/2020
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 07/06/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 05/18/2020
Date Data Arrived at EDR: 05/19/2020
Date Made Active in Reports: 07/31/2020
Number of Days to Update: 73

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/18/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 05/18/2020
Date Data Arrived at EDR: 05/18/2020
Date Made Active in Reports: 07/31/2020
Number of Days to Update: 74

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/18/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/08/2020
Date Made Active in Reports: 06/26/2020
Number of Days to Update: 79

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 07/07/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 03/09/2020
Date Data Arrived at EDR: 03/10/2020
Date Made Active in Reports: 05/19/2020
Number of Days to Update: 70

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 02/12/2020
Date Data Arrived at EDR: 03/03/2020
Date Made Active in Reports: 05/14/2020
Number of Days to Update: 72

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 06/02/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 05/12/2020
Date Data Arrived at EDR: 05/12/2020
Date Made Active in Reports: 07/28/2020
Number of Days to Update: 77

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/12/2020
Next Scheduled EDR Contact: 08/24/2020
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 03/02/2020
Date Data Arrived at EDR: 03/03/2020
Date Made Active in Reports: 05/14/2020
Number of Days to Update: 72

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 06/02/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/09/2020
Date Data Arrived at EDR: 03/10/2020
Date Made Active in Reports: 05/19/2020
Number of Days to Update: 70

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 03/12/2020
Date Data Arrived at EDR: 03/13/2020
Date Made Active in Reports: 05/21/2020
Number of Days to Update: 69

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 06/10/2020
Next Scheduled EDR Contact: 09/28/2020
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 03/09/2020
Date Data Arrived at EDR: 03/10/2020
Date Made Active in Reports: 05/19/2020
Number of Days to Update: 70
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 05/13/2020
Date Data Arrived at EDR: 05/13/2020
Date Made Active in Reports: 05/15/2020
Number of Days to Update: 2
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 11/19/2019
Date Data Arrived at EDR: 01/07/2020
Date Made Active in Reports: 03/09/2020
Number of Days to Update: 62
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 07/09/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 05/07/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 06/17/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 05/13/2020
Date Data Arrived at EDR: 05/13/2020
Date Made Active in Reports: 05/15/2020
Number of Days to Update: 2
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 05/13/2020
Date Data Arrived at EDR: 05/13/2020
Date Made Active in Reports: 05/15/2020
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 03/09/2020
Date Data Arrived at EDR: 03/10/2020
Date Made Active in Reports: 05/19/2020
Number of Days to Update: 70

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 03/02/2020
Date Data Arrived at EDR: 03/03/2020
Date Made Active in Reports: 05/13/2020
Number of Days to Update: 71

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 06/02/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 04/20/2020
Date Data Arrived at EDR: 04/21/2020
Date Made Active in Reports: 07/13/2020
Number of Days to Update: 83

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/21/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 05/13/2020
Date Data Arrived at EDR: 05/13/2020
Date Made Active in Reports: 05/15/2020
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 05/13/2020
Date Data Arrived at EDR: 05/13/2020
Date Made Active in Reports: 05/15/2020
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 05/13/2020
Date Data Arrived at EDR: 05/13/2020
Date Made Active in Reports: 05/15/2020
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 05/13/2020
Date Data Arrived at EDR: 05/13/2020
Date Made Active in Reports: 05/15/2020
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 05/13/2020
Date Data Arrived at EDR: 05/13/2020
Date Made Active in Reports: 05/15/2020
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Varies

PCS INACTIVE: Listing of Inactive PCS Permits
An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 07/09/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Semi-Annually

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 07/01/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 05/21/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: Varies

HWTS: Hazardous Waste Tracking System
DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 04/09/2020
Date Made Active in Reports: 07/01/2020
Number of Days to Update: 83

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 06/29/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 06/08/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Semi-Annually

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 06/30/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 06/30/2020
Date Data Arrived at EDR: 07/01/2020
Date Made Active in Reports: 07/17/2020
Number of Days to Update: 16

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 06/30/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 05/18/2020
Date Data Arrived at EDR: 05/19/2020
Date Made Active in Reports: 06/01/2020
Number of Days to Update: 13

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 06/30/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 03/27/2020
Date Data Arrived at EDR: 03/31/2020
Date Made Active in Reports: 06/15/2020
Number of Days to Update: 76

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 06/17/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 04/01/2020
Date Data Arrived at EDR: 04/20/2020
Date Made Active in Reports: 07/06/2020
Number of Days to Update: 77

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 07/21/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 04/16/2020
Date Data Arrived at EDR: 04/20/2020
Date Made Active in Reports: 07/08/2020
Number of Days to Update: 79

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 07/21/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/07/2020
Date Data Arrived at EDR: 05/07/2020
Date Made Active in Reports: 07/23/2020
Number of Days to Update: 77

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 07/21/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 01/10/2020
Date Data Arrived at EDR: 03/31/2020
Date Made Active in Reports: 06/15/2020
Number of Days to Update: 76

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 06/30/2020
Next Scheduled EDR Contact: 10/12/2020
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 07/14/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/19/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 06/15/2020
Number of Days to Update: 26

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/14/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/09/2020
Date Data Arrived at EDR: 04/10/2020
Date Made Active in Reports: 07/01/2020
Number of Days to Update: 82

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 07/14/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 05/07/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 04/29/2020
Date Data Arrived at EDR: 05/05/2020
Date Made Active in Reports: 07/17/2020
Number of Days to Update: 73

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 05/11/2020
Date Data Arrived at EDR: 05/12/2020
Date Made Active in Reports: 07/27/2020
Number of Days to Update: 76

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/07/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/20/2020
Date Data Arrived at EDR: 04/28/2020
Date Made Active in Reports: 07/14/2020
Number of Days to Update: 77

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 07/08/2020
Next Scheduled EDR Contact: 10/26/2020
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/30/2020
Date Data Arrived at EDR: 01/31/2020
Date Made Active in Reports: 04/09/2020
Number of Days to Update: 69

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 06/10/2020
Next Scheduled EDR Contact: 09/28/2020
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 03/26/2020
Date Data Arrived at EDR: 03/26/2020
Date Made Active in Reports: 06/15/2020
Number of Days to Update: 81

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 06/30/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/13/2020
Date Data Arrived at EDR: 04/14/2020
Date Made Active in Reports: 07/01/2020
Number of Days to Update: 78

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 07/13/2020
Next Scheduled EDR Contact: 10/26/2020
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 01/15/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 51

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 07/08/2020
Next Scheduled EDR Contact: 10/26/2020
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/25/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills

This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 04/30/2012
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 42

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 07/13/2020
Next Scheduled EDR Contact: 10/26/2020
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory

A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/25/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory

A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/25/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 03/25/2020
Date Data Arrived at EDR: 04/14/2020
Date Made Active in Reports: 07/01/2020
Number of Days to Update: 78

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 07/17/2020
Next Scheduled EDR Contact: 10/26/2020
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 07/08/2020
Next Scheduled EDR Contact: 10/26/2020
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 07/14/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 06/27/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 10/02/2019
Number of Days to Update: 64

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 07/14/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 02/24/2020
Date Data Arrived at EDR: 02/25/2020
Date Made Active in Reports: 05/07/2020
Number of Days to Update: 72

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/07/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 06/24/2020
Next Scheduled EDR Contact: 10/12/2020
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 07/28/2020
Date Data Arrived at EDR: 07/30/2020
Date Made Active in Reports: 07/31/2020
Number of Days to Update: 1

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 08/17/2020
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/21/2020
Date Data Arrived at EDR: 03/05/2020
Date Made Active in Reports: 05/13/2020
Number of Days to Update: 69

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 05/15/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 07/13/2020
Date Data Arrived at EDR: 07/15/2020
Date Made Active in Reports: 07/31/2020
Number of Days to Update: 16

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 07/08/2020
Next Scheduled EDR Contact: 10/12/2020
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/15/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/15/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/07/2020
Date Made Active in Reports: 07/24/2020
Number of Days to Update: 78

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 07/21/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 05/01/2020
Date Data Arrived at EDR: 05/08/2020
Date Made Active in Reports: 07/24/2020
Number of Days to Update: 77

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 07/31/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 05/01/2020
Date Data Arrived at EDR: 05/08/2020
Date Made Active in Reports: 07/24/2020
Number of Days to Update: 77

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 07/31/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 05/01/2020
Date Data Arrived at EDR: 05/05/2020
Date Made Active in Reports: 07/17/2020
Number of Days to Update: 73

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/05/2020
Next Scheduled EDR Contact: 08/17/2020
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 03/02/2020
Date Data Arrived at EDR: 03/03/2020
Date Made Active in Reports: 05/13/2020
Number of Days to Update: 71

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 05/27/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 07/14/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 03/10/2020
Date Data Arrived at EDR: 03/11/2020
Date Made Active in Reports: 05/20/2020
Number of Days to Update: 70

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 02/10/2020
Next Scheduled EDR Contact: 09/28/2020
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 03/10/2020
Date Data Arrived at EDR: 03/11/2020
Date Made Active in Reports: 05/20/2020
Number of Days to Update: 70

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/10/2020
Next Scheduled EDR Contact: 09/28/2020
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 02/18/2020
Date Data Arrived at EDR: 03/31/2020
Date Made Active in Reports: 06/15/2020
Number of Days to Update: 76

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/02/2020
Next Scheduled EDR Contact: 10/12/2020
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 02/24/2020
Date Data Arrived at EDR: 03/31/2020
Date Made Active in Reports: 06/17/2020
Number of Days to Update: 78

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/02/2020
Next Scheduled EDR Contact: 10/12/2020
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List

Cupa facility list

Date of Government Version: 04/24/2020
Date Data Arrived at EDR: 04/28/2020
Date Made Active in Reports: 07/13/2020
Number of Days to Update: 76

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 02/25/2020
Date Data Arrived at EDR: 02/26/2020
Date Made Active in Reports: 05/07/2020
Number of Days to Update: 71

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 03/02/2020
Date Data Arrived at EDR: 03/03/2020
Date Made Active in Reports: 05/13/2020
Number of Days to Update: 71

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 06/02/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56
Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 07/14/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing
A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 04/09/2020
Date Data Arrived at EDR: 04/10/2020
Date Made Active in Reports: 06/26/2020
Number of Days to Update: 77
Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 07/14/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing
The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24
Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 05/27/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10
Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 05/04/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 07/17/2020
Number of Days to Update: 72
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 06/10/2020
Next Scheduled EDR Contact: 09/28/2020
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/18/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/07/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/12/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/03/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 05/07/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 05/08/2020
Date Data Arrived at EDR: 05/12/2020
Date Made Active in Reports: 07/27/2020
Number of Days to Update: 76

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/07/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 05/15/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 04/22/2020
Date Data Arrived at EDR: 04/24/2020
Date Made Active in Reports: 05/07/2020
Number of Days to Update: 13
Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90
Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 05/07/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51
Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 05/07/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68
Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 05/26/2020
Next Scheduled EDR Contact: 09/13/2020
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/02/2020
Date Data Arrived at EDR: 03/04/2020
Date Made Active in Reports: 05/14/2020
Number of Days to Update: 71
Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/23/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 02/25/2020
Date Data Arrived at EDR: 02/26/2020
Date Made Active in Reports: 03/11/2020
Number of Days to Update: 14

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 06/30/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 04/03/2020
Date Data Arrived at EDR: 04/08/2020
Date Made Active in Reports: 06/26/2020
Number of Days to Update: 79

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 06/17/2020
Next Scheduled EDR Contact: 10/05/2020
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 02/04/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 04/15/2020
Number of Days to Update: 70

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 07/06/2020
Next Scheduled EDR Contact: 10/26/2020
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 01/23/2020
Date Data Arrived at EDR: 03/03/2020
Date Made Active in Reports: 05/08/2020
Number of Days to Update: 66

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 05/27/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 05/18/2020
Date Data Arrived at EDR: 05/19/2020
Date Made Active in Reports: 07/31/2020
Number of Days to Update: 73

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 04/09/2020
Date Data Arrived at EDR: 04/10/2020
Date Made Active in Reports: 07/01/2020
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 07/14/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 05/14/2020
Date Data Arrived at EDR: 05/15/2020
Date Made Active in Reports: 07/27/2020
Number of Days to Update: 73

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 07/14/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 03/26/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/09/2020
Number of Days to Update: 77

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 07/20/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/24/2020
Next Scheduled EDR Contact: 10/12/2020
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/29/2020
Next Scheduled EDR Contact: 08/24/2020
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 03/26/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/09/2020
Number of Days to Update: 77
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 07/20/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 01/27/2020
Date Data Arrived at EDR: 03/10/2020
Date Made Active in Reports: 05/20/2020
Number of Days to Update: 71
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 03/23/2020
Date Data Arrived at EDR: 04/01/2020
Date Made Active in Reports: 06/17/2020
Number of Days to Update: 77
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 06/24/2020
Next Scheduled EDR Contact: 10/12/2020
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 04/27/2020
Date Data Arrived at EDR: 04/29/2020
Date Made Active in Reports: 07/17/2020
Number of Days to Update: 79
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 07/21/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 05/12/2020
Date Data Arrived at EDR: 05/12/2020
Date Made Active in Reports: 07/27/2020
Number of Days to Update: 76
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/12/2020
Next Scheduled EDR Contact: 08/24/2020
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/09/2020
Next Scheduled EDR Contact: 10/19/2020
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/29/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 07/31/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/09/2020
Next Scheduled EDR Contact: 10/26/2020
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 10/02/2019
Date Made Active in Reports: 12/10/2019
Number of Days to Update: 69

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/14/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/04/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

WEST HILLS STALEY POINT
NW CORNER OF ROSCOE BOULEVARD & FALLBROOK AVENUE
CANOGA PARK, CA 91304

TARGET PROPERTY COORDINATES

Latitude (North):	34.220473 - 34° 13' 13.70''
Longitude (West):	118.628322 - 118° 37' 41.96''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	350006.7
UTM Y (Meters):	3787605.8
Elevation:	842 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5630735 CALABASAS, CA
Version Date:	2012
Southeast Map:	5630737 CANOGA PARK, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

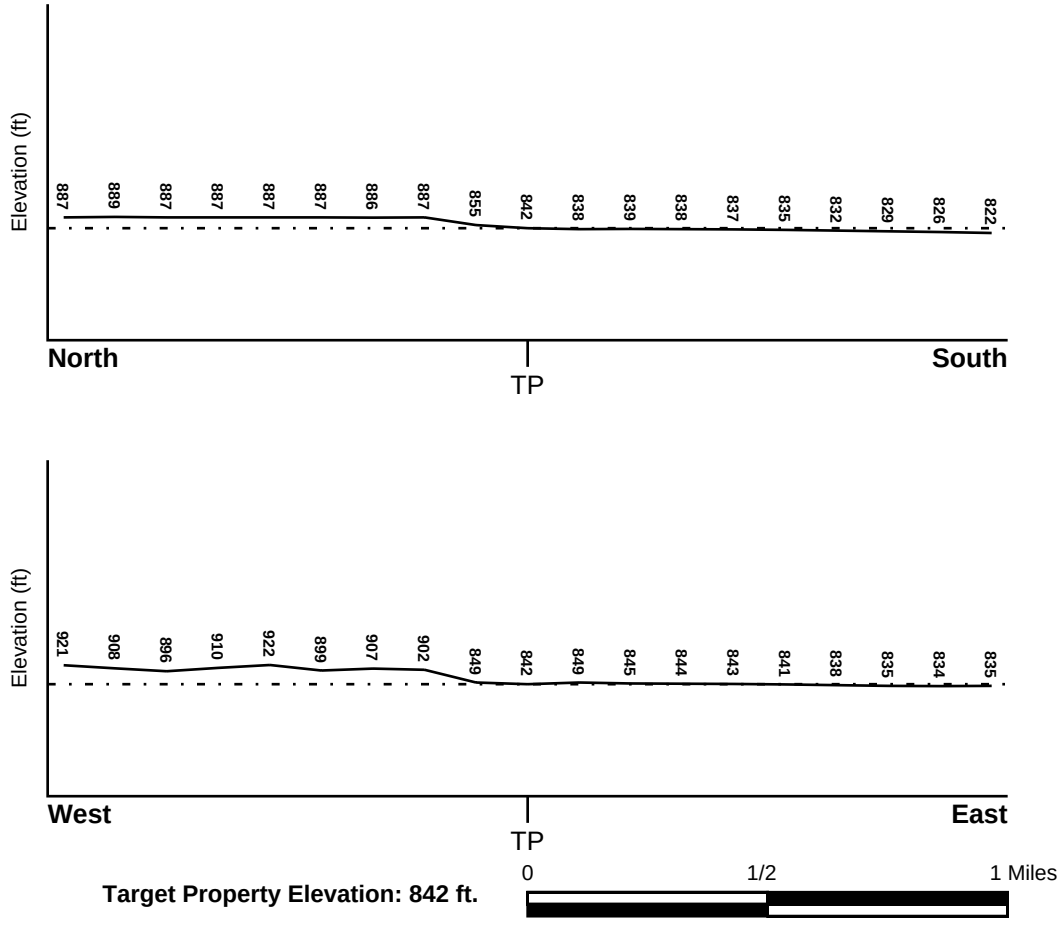
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06037C1275F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06037C1280F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
CALABASAS	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

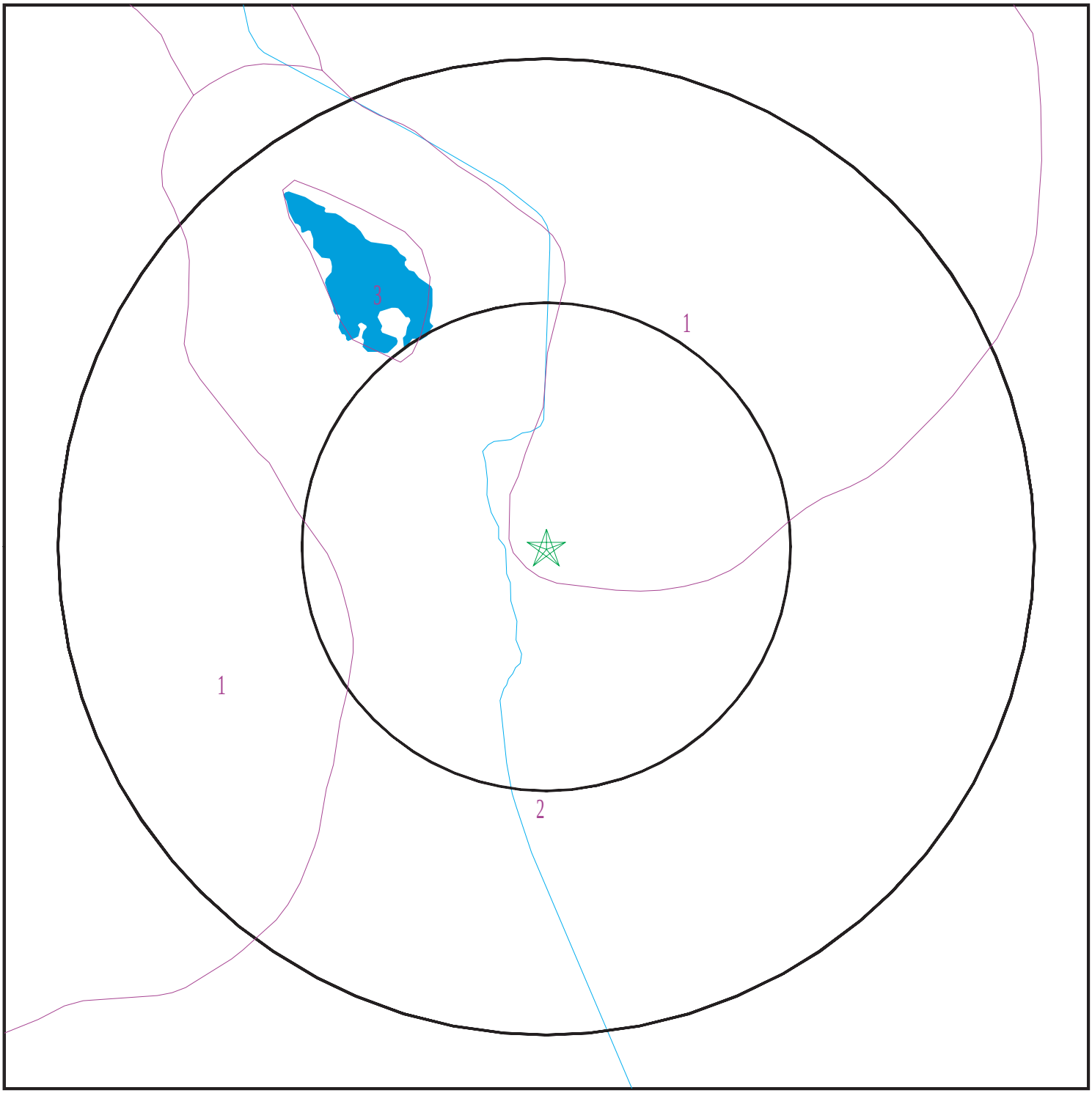
Era:	Mesozoic
System:	Cretaceous
Series:	Upper Cretaceous
Code:	uK *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 6142433.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	West Hills Staley Point	CLIENT:	Partner Engineering and Science, Inc.
ADDRESS:	NW Corner of Roscoe Boulevard & Fallbrook Avenue Canoga Park CA 91304	CONTACT:	Cristina Scott
LAT/LONG:	34.220473 / 118.628322	INQUIRY #:	6142433.2s
		DATE:	August 03, 2020 1:51 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Xerorthents

Soil Surface Texture: variable

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 89 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	59 inches	variable	Not reported	Not reported	Max: Min:	Max: Min:
2	59 inches	64 inches	weathered bedrock	Not reported	Not reported	Max: Min:	Max: Min:

Soil Map ID: 2

Soil Component Name: Anacapa

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	24 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.9
2	24 inches	48 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.9
3	48 inches	72 inches	coarse sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.9

Soil Map ID: 3

Soil Component Name: Water

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

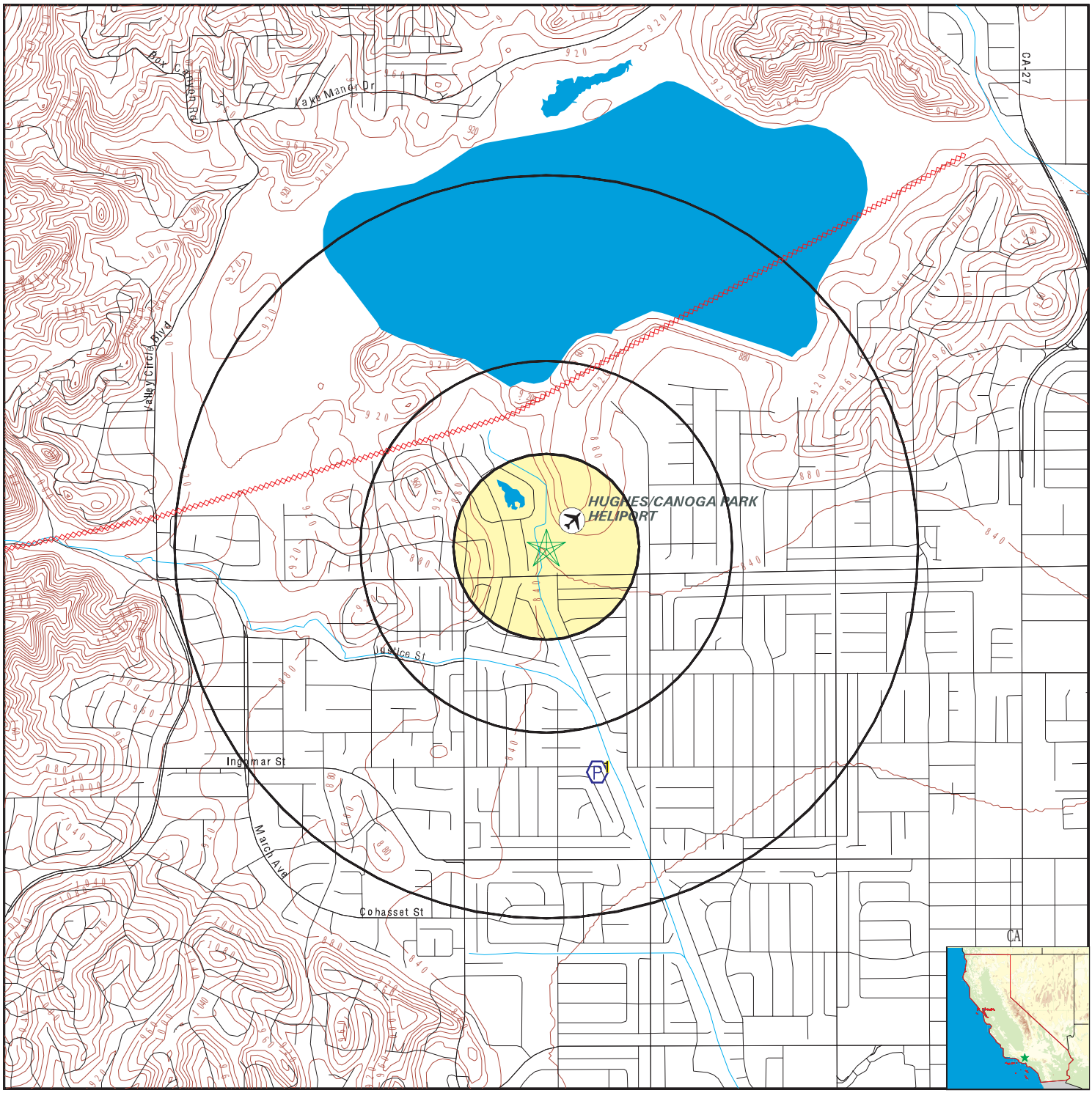
MAP ID	WELL ID	LOCATION FROM TP
1	CA3900735	1/2 - 1 Mile SSE

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 6142433.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	West Hills Staley Point	CLIENT:	Partner Engineering and Science, Inc.
ADDRESS:	NW Corner of Roscoe Boulevard & Fallbrook Avenue Canoga Park CA 91304	CONTACT:	Cristina Scott
LAT/LONG:	34.220473 / 118.628322	INQUIRY #:	6142433.2s
		DATE:	August 03, 2020 1:51 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
SSE
1/2 - 1 Mile
Lower | **FRDS PWS** | **CA3900735**

PWS ID:	CA3900735	PWS name:	CHARTER WAY MOBILE HOME PARK
Address:	Not Reported	Care of:	Not Reported
City:	HUNTINGTON BEACH	State:	CA
Zip:	926491828	Owner:	CHARTER WAY MOBILE HOME PARK
Source code:	Ground water	Population:	150
PWS ID:	CA3900735	PWS type:	System Owner/Responsible Party
PWS name:	CASA DE SANTIAGO	PWS address:	Not Reported
PWS city:	HUNTINGTON BEACH	PWS state:	CA
PWS zip:	926491828	PWS ID:	CA3900735
Activity status:	Active	Date system activated:	7706
Date system deactivated:	Not Reported	Retail population:	00000150
System name:	CHARTER WAY MOBILE HOME PARK		
System address:	CASA DE SANTIAGO	System address:	1550 S B ST
System city:	STOCKTON	System state:	CA
System zip:	95206		
Population served:	101 - 500 Persons	Treatment:	Untreated
Latitude:	341242	Longitude:	1183730
Violation id:	95V0001	Orig code:	F
State:	CA	Violation Year:	1993
Contamination code:	5000	Contamination Name:	Lead and Copper Rule
Violation code:	51	Violation name:	Initial Tap Sampling for Pb and Cu
Rule code:	350	Rule name:	LCR
Violation measur:	0	Unit of measure:	Not Reported
State mcl:	0	Cmp bdt:	07/01/1993
Cmp edt:	04/04/2000		
Violation ID:	95V0001	Orig Code:	F
Enforcemnt FY:	2000	Enforcement Action:	04/04/2000
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
91304	191	29

Federal EPA Radon Zone for LOS ANGELES County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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APPENDIX D: QUALIFICATIONS

PARTNER

Education

English Literature/Sociology, UC San Diego
Coursework in Geology and Inorganic Chemistry

Registrations

California Registered Environmental Assessor – 1994 No. 07999
Certified Asbestos Building Inspector

Training

OSHA Hazardous Waste Operator (HAZWOPER) 40 hour Certification
DOT Hazardous Materials Transport (DOT HM-126F)
Accredited Contract Supervisor-Competent Person
Transportation Worker Identification Credential
EDR Common Ground Environmental Site Assessment (ESA) Training
ASTM International Phase I ESA Practices for Commercial Real Estate: Transaction Screen and Phase I Site Assessment
Chevron Learning Management System
Port of Los Angeles Worker Screening/Training
Los Angeles World Airport Screening/Training
Metrolink/BNSF Safety Training.

Highlights

Over 23 years experience in the environmental service industry
Phase I ESAs, Phase II Subsurface Investigations, Phase III Site Characterizations
Remedial Investigation/Feasibility Studies
Remedial Action/Remedial Design Studies
Lead in Soil and Drinking Water Surveys.

Experience Summary

Ms. Blanchard is currently a Senior Environmental Assessor and her responsibilities include thorough site assessment and technical report writing in line with the American Society of Testing and Materials (ASTM) standard and US Environmental Protection Agency's All Appropriate Inquiry (AAI) as well as customized client formats. Her knowledge and ability to manage multiple services associated with real estate due diligence allows Ms. Blanchard to provide her clients with comprehensive information and identification of risks in order to make sound financial investments. In addition, Ms. Blanchard performs limited asbestos surveys, lead-based paint surveys and radon testing as required per scope of work.

At a previous firm, Ms. Blanchard was responsible for environmental due diligence and field implementation both locally and nationwide with emphasis on environmental site assessments related to property transactions, Phase II soil and groundwater investigations, due diligence audits, environmental compliance audits, hazardous waste management and corrective action implementation. She also served as project manager performing field staff supervision; subcontractor oversight; report review; and client management.

Project Experience

Ms. Blanchard has conducted, managed and directed hundreds of ESAs throughout her career and has been project manager, lead assessor, health and safety and field office manager for dozens of site investigations, characterization studies and remediation projects throughout California and the US. The following select projects summarize her experience and due diligence background:

Transaction Due Diligence

Environmental Assessment, California, Various Lenders and Clients, Freddie Mac, Fannie Mae and private investors and brokers. Ms. Blanchard performs due diligence services related to real estate transfers and property development, throughout California. She works closely with property managers and representatives to provide a smooth exchange between client and lenders. She is also responsible for review of third party reports, asbestos and lead surveys, and subsurface investigations.

Environmental Assessment, Southern California, The New Home Company. For two years Ms. Blanchard performed due diligence services related to real estate transfers and property development for The New Home Company, a large residential developer in Southern California. She was also responsible for review of third party reports, asbestos and lead surveys, coordination with regulatory agencies, and subsurface investigations.

Environmental Assessment, Southern California, Jiffy Lube. Ms. Blanchard performed and managed twelve environmental site assessments of vacant and operating vehicle fueling and repair stations proposed for redevelopment or sale. In addition, Ms. Blanchard was responsible for review of third party reports, asbestos and lead surveys, underground storage tank removals and other subsurface investigations.

Environmental Assessment, Southern California, Johnson & Johnson/DePuy. Ms. Blanchard performed environmental site assessments and limited compliance evaluations of six medical device/equipment manufacturers. She evaluated the current environmental regulations applicable to the facilities and any deficiencies or omissions.

Project Manager/Coordinator/Team Leader, Nationwide, U.S.A. (Confidential Client). Ms. Blanchard coordinated and performed over 220 Phase I and II investigations, including lead paint, lead in water, asbestos and radon surveys, compliance audits, storage tank investigation/removal/ remediation, decommissioning and environmental permit transfers for psychiatric and acute care hospitals, medical clinics and offices, throughout the United States. Her responsibilities included investigatory and research activities, serving as a liaison between the client, client attorneys, the potential buyers, individual project managers, staff, and subcontractors in many different offices. She also managed and projected budgets, performed Phase I and II investigations and compliance evaluations across the United States, and reviewed and technically edited all proposals and reports for those projects.

Project Office Manager/Project Coordinator/Sample Custodian, Two Delisted NPL Sites, Del Amo/Palo Alto, CA, Hewlett-Packard and Shell Oil/Dow Chemical. Ms. Blanchard served as onsite field office manager, database coordinator, and sample custodian for remedial investigation/feasibility studies for two large-scale projects under the guidance of the US EPA and the California Regional Water Quality Control Board. She coordinated field, office, and database personnel, served as client, public and agency (Regional Water Quality Control Board) liaison, prepared monthly status reports as well as budget and labor projections,

edited technical submittals to client and agencies, compiled and maintained an administrative public record and supervised five site and field office employees.

Subsurface Investigations/Demolition/Health & Safety

Health & Safety Third Party Oversight, Aircraft Engine Test and Repair Facility Demolition, Bob Hope Airport, Burbank, California, GE. Provided third-party health and safety oversight and reporting for demolition of a historic, closed aircraft engine test and repair facility that had been in operation since the 1930s. Her responsibilities included daily task assessment, oversight, preparation of health and safety task assessment, and incident reporting forms for a high profile international company. She was also accountable for the coordination between multiple consultants, the client, the airport and local agencies.

Field Project Manager, Site Remediation, Brea, CA, Birch Hills Golf Course/Chevron, 2013. Ms. Blanchard oversaw field operations, primarily large-scale soil excavations and health and safety of subcontractors for sampling and soil excavation (primarily for PCBs) at a former industrial plant that had been redeveloped as a golf course. Oversight of the project was provided by the US EPA and chemicals of concern included PCBs, metals, petroleum hydrocarbons and other volatile compounds.

Health & Safety Liason, Operating Resort Facility, Kapolei, HI, Disney Aulani Resort, 2012. Ms. Blanchard identified and followed up on health and safety task items for operations and subcontractors at a ten-acre leisure resort. Her duties included assessment of chemical use, storage and disposal, construction punch lists, compliance training and documentation, as well as chemical release monitoring and systems installation.

Field Project Manager, Chemical Plant Demolition, Santa Fe Springs, CA, Pilot Chemical Company, 2011-2012. Ms. Blanchard oversaw field operations and health and safety of subcontractors for demolition of a former industrial soap manufacturer under the guidance of the RWQCB. Her responsibilities included hazardous materials, lead, asbestos and mold abatement oversight, health and safety monitoring, as well as the removal of impacted soil, clarifiers, tanks, and unknown subsurface features encountered during demolition activities. Her ongoing activities included soil vapor and groundwater monitoring and reporting.

Assistant Project Manager, Former Research Laboratory Decommissioning, Montebello, CA, Chevron, 2005. Ms. Blanchard assisted with hazardous materials and waste identification, collection, characterization and disposal. She was responsible for historical and regulatory agency research, materials and equipment decommissioning, oversight of storage tank removal, clarifier and settling pond removal, as well as asbestos sampling and abatement, in preparation for demolition and/or conversion of a former research refinery and laboratory.

Municipal/State Contracts

Project and Field Project Manager, LAUSD Proposed School Sites, Los Angeles, CA, Los Angeles Unified School District (LAUSD), 1999-2014. Ms. Blanchard participated on the on-call environmental services contract under the district's environmental health and safety branch, which focused on clearing new proposed school sites by the California Department of Toxic Substances Control (DTSC). Her responsibilities included fast-track preparation, implementation and documentation of preliminary environmental assessments, focused investigations, removal action plans, and removal action completion reports. The projects she worked on included facility demolition and construction activities, soil, soil gas and groundwater investigation and

remediation, as well as health and safety and contractor oversight. Specific projects included: South Region Elementary Schools 3 and 7; South Region High School No's 2,3,7 and 9: Central Los Angeles Learning Center No.1, Central Region Elementary Schools No's 13 and 17; Carson-Gore Learning Academy; Valley Region High School No. 13, and Bell Adult Education Center.

Contact

rblanchard@partneresi.com

PARTNER

Heather Hodgetts
Senior Scientist

Education

B.A. in Earth Sciences, University of Southern California

Training

40-Hour OSHA-approved Health & Safety Training
8-hour OSHA HAZWOPER Annual Refresher

Highlights

20 years in the environmental consulting industry
Phase I Environmental Site Assessments
Phase II and III Subsurface Investigations

Experience Summary

As a Senior Scientist for due diligence services within the Investment Advisory Group, Ms. Hodgetts focuses on providing solutions to clients' due diligence and engineering needs and sharing years of expertise with staff and clients. Previously, Ms. Hodgetts was a Senior Environmental Scientist for a Fortune 500 company and was responsible for managing due diligence projects throughout the United States.

Ms. Hodgetts has performed hundreds of Phase I Environmental Site Assessments, Third Party Reviews, Due Diligence Audits, and Record Search, Phase II Subsurface Investigations, Underground Storage Tank Investigations, Remedial Investigations, Limited asbestos surveys, Lead-based paint surveys, Radon Studies, and Lead-in-water sampling and analysis.

Ms. Hodgetts has worked with various clients including: individual investors, institutional investors, private and institutional equity companies, insurance companies, attorneys, brokers, developers, and multiple lenders.

Project Experience

Phase I Environmental Site assessments

Ms. Hodgetts has performed Phase I Environmental Site Assessments of commercial, residential, and industrial properties including schools, shopping centers, industrial parks, manufacturing facilities, drycleaners and gasoline stations.

Subsurface Investigations

Conducted soil and groundwater assessments at County of San Diego Department of Public Works Road Stations throughout San Diego County. Activities included field oversight of groundwater monitoring well installation using mud-rotary, air-rotary, and hollow-stem augers; soil and groundwater sampling; receptor surveys; and installed monitoring wells and soil borings.

Environmental Regulatory Compliance

Assisted in environmental regulatory compliance audit and ownership transfer activities. The audit included coordinating with local agencies to transfer environmental permits for air, wastewater, hazardous waste, and medical waste.

Storage Tank Programs
Completed UST Closure Reports, Limited Site Assessments, Soil Assessment Reports, Soil Closure Reports, and Corrective Action Plans for submittal to regulatory agencies for UST sites owned by various industrial and government entities.

School District Investigations
Worked in-house for San Diego Unified School District (SDUSD) for 15 months completing the environmental due diligence for Proposition MM, a bond measure passed by voters to fund modernization of 165 existing school and construction of 16 new/rebuilt schools. Activities included: conducting Phase I ESAs for proposed school sites, including information relevant to the California Department of Education (CDE) School Site Selection and Approval Guide; submitting Phase I ESAs for EPA Department of Toxic Substances Control review; preparing Public Participations Plans and assisting with public meeting presentations; and submitting site packages to CDE for site approval. In addition to SDUSD, Ms. Hodgetts has also worked on Los Angeles Unified School District, Coronado Unified School District, and Lake Elsinore Unified School District sites.

Subsurface Investigations
Conducted soil and groundwater assessments at County of San Diego Department of Public Works Road Stations throughout San Diego County. Activities included field oversight of groundwater monitoring well installation using mud-rotary, air-rotary, and hollow-stem augers; soil and groundwater sampling; receptor surveys; and installed monitoring wells and soil borings.

Environmental Regulatory Compliance
Assisted in environmental regulatory compliance audit and ownership transfer activities. The audit included coordinating with local agencies to transfer environmental permits for air, wastewater, hazardous waste, and medical waste.

Cellular Telephone Investigations
Performed environmental assessments for cellular telephone antenna installations for a major cellular operator. Tasks included: inspections of numerous buildings, installations, additions, collocations, and vacant land; and asbestos and lead sampling at these facilities throughout southern California.

Contact

hhodgettsl@partneresi.com

Debbie Stott, P.G.
Nevada CEM
Technical Director

Education

BA Geology, The Ohio State University

Registrations

California Professional Geologist No. 6221
Nevada Certified Environmental Manager No. 2359

Training

OSHA, Hazardous Waste Operator (HAZWOPER) 40 hour Certification
AHERA Certified Asbestos Inspector
Certified Project Manager

Highlights

Over 25 years of experience in the environmental service industry with a focus on due diligence assessments
Knowledgeable with ASTM, EPA's All Appropriate Inquiry (AAI), and customized client formats.
100+ Phase I Environmental Site Assessments

Experience Summary

As Technical Director for due diligence services as part of the Investment Advisory Group, Ms. Stott focuses on report quality, client service, and sharing her years of expertise with staff and clients.

Ms. Stott has performed hundreds of Phase I Environmental Site Assessments, Third Party Reviews, Due Diligence Audits, Record Search and Risk Assessments, Phase II and III Subsurface Investigations, Underground storage tank investigations, Remedial Investigations, Radon Studies, Mold Assessments, Methane Surveys, Indoor Air Quality Assessments, and Lead-in-water sampling and analysis.

Clients have varied and have included: individual investors, City of Los Angeles Agencies, Los Angeles County, City of Anaheim, institutional investors, private and institutional equity companies, insurance companies, attorneys, brokers, developers, and multiple lenders.

Project Experience

Ms. Stott has conducted, managed and directed thousands of ESAs throughout her career and has been Senior Project Manager for hundreds of site investigations, characterization studies and remediation projects throughout California and the US. The following select projects summarize her experience and due diligence background:

Transaction Due Diligence

Project Manager, Western US and Southern California, LBA Realty. For over 16 years performed due diligence services related to real estate transfers as well as asset refinances for LBA Realty. The relationship requires close coordination and communication with property managers and representatives to provide a smooth process with client and lenders. Services have also included review of third party reports, asbestos surveys, subsurface investigations, and development of soil management plans. Many projects involved multiple locations in several states thus requiring coordination with other offices and client contacts.

Environmental Lead, West Coast, Barings, LLC (Barings). Ms. Stott assists with management and review of environmental due diligence and environmental actions associated with acquisitions, property development, joint venture developments, property divestments and finance group loan transactions. Environmental due diligence includes Phase I ESAs, Phase II ESAs, indoor air quality assessments, mold assessment and mitigation planning, providing third party review, asbestos investigations, asbestos abatement, operation and maintenance plan development, remedial action development and implementation, regulatory correspondence and permitting.

Phase I ESAs – multiple clients throughout US.. Ms. Stott manages and oversees preparation of Phase I Environmental Site Assessments for several confidential clients. All are completed to ASTM guidelines with various special criteria specific to each client.

Subsurface Investigations/Vapor Intrusion

Project Manager, Whittier, CA, Confidential Client. Conducted several investigations to evaluate the potential for vapor intrusion associated with contaminated groundwater into client buildings. At one location a horizontal well system was installed to passively vent vapors. Site investigations involved the installation of multiple, multi-depth vapor probes through the property to map the plume and to assist in decision making for potential further investigation. Data collected from both soil vapor and indoor air monitoring was subjected to risk assessment in order to determine if indoor air quality had been negatively impacted and engineering controls needed to protect workers. Client was able to purchase and redevelop portions of the desired parcels for use as parking.

Project Manager and Environmental Lead, Berkeley, CA, LBA Realty. Evaluation of potential risks associated with the presence of trichloroethylene (TCE) and breakdown products cis 1,2- dichloroethene (cis 1,2-DCE) and vinyl chloride (VC), and methyl tert butyl ether (MTBE) in groundwater and ambient air at an existing building in Berkeley, CA. Worked with outside counsel to evaluate, summarize, and present the risks and potential risks of continued investment in the property. Remedial systems were installed under DTSC oversight, risk assessment performed and the building remodeled and reused for office space.

Municipal/State Contracts

Project Manager, ESAs for City of Anaheim widening of Lincoln Avenue. As a subcontractor to the geotechnical consultant, Partner provided Environmental Site Assessments for multiple properties along the project alignment. The parcel uses ranged from car wash, to older office and motel properties, automotive repair, banks, public school, and a church. Partner finished the multi-site project on time and within budget.

Contact

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