Phase I Environmental Site Assessment: 4664 and 4570 Francis Avenue Chino, California 91710 and

Phase II Environmental Site Assessment: 4570 Francis Avenue Chino, California 91710

Tt Project No. 194-5733



PRESENTED TO

Chino Francis Estates, LLC c/o: Coastal Commercial Properties

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September 2016

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EXECUTIVE SUMMARY

Tetra Tech, Inc. (Tetra Tech) conducted a Phase I and Phase II Environmental Site Assessment (ESA) for Chino Francis Estates, LLC with respect to the properties located at 4664 and 4570 Francis Avenue, Chino, CA, 91710 (in the County of San Bernardino), California, 91710 (hereinafter referred to, collectively, as the "Site"; Figure 1). The parcel numbers associated with the Site include 1013-211-21 and 1013-211-22, which was verified with the San Bernardino County Assessor's office.

The Site consists of approximately 10.67 acres of vacant land utilized as grazing land for a neighboring goat farm and 1.32 acres of residential land improved by three residential structures and other associated features utilized within the residential parcel, totaling approximately 11.99 acres. The vacant parcel of the Site is currently owned by William J. Munzer, while the residential parcel of the Site is owned by Joaquin Nava. The vacant parcel of the Site is roughly divided into three sections: 1) the western section, 2) the middle section, and 3) the eastern section. The western section of the parcel was observed to be improved by numerous small rectangular concrete pads and a maintenance shed utilized for storage of materials associated with the goats currently grazing the Site. The middle section of the vacant parcel was observed to be improved by numerous elongated concrete slabs and several animal pens associated with the former rabbit farm located on this portion of the Site, bee hives, and a small vacant maintenance shed. The eastern section of the vacant parcel was observed as undeveloped vacant land (Figure 2).

Based on a review of historical documentation, the Site was used for residential and agricultural purposes, mainly orchards and dry farming, from at least 1938 until approximately 1960. In 1960, the central portion of the Site was developed as a rabbit farm that operated until approximately 2002, while the residential parcel of the Site was improved with at least two residential structures by the 1962 aerial photograph. Remnant concrete slabs associated with the rabbit farm are located in the central portion of the Site. Numerous structures, presumably residences, occupied the western portion of the Site from at least 1938 until 1997. The structures were demolished circa 1997; however, the concrete slabs associated with these structures are still present on-Site. The eastern portion of the vacant parcel was occupied by a residence from at least 1938 until at approximately 1977, when it was demolished and has remained vacant land to the present day. After closure of the rabbit farm in 2002, the vacant parcel of the Site has been utilized as grazing land for an adjacent goat farm.

This work was performed in accordance with American Society for Testing and Materials Standard E1527-13 and the United States Environmental Protection Agency's All Appropriate Inquiries Final Rule, 40 Code of Federal Regulations Part 312. The objective of this Phase I ESA is to identify recognized environmental conditions (RECs) in connection with the Site. The American Society for Testing and Materials defines a "recognized environmental condition" as "the presence or likely presence of any hazardous substances or petroleum products on a property; (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment." This Phase I ESA is to be utilized for purposes of satisfying All Appropriate Inquiries, including those requirements that relate to the California Land Reuse and Revitalization Act.

Leighton and Associates (Leighton) conducted a Phase I ESA for the vacant parcel of the Site in early 2014. In the previous Phase I ESA, a former 500-gallon steel UST previously containing gasoline and/or diesel fuel was noted on the southwest portion of the Site. Leighton conducted Phase II investigations in 2014 and 2015 and reported that no total petroleum hydrocarbons (TPH) or volatile organic compounds were detected above regulatory guidelines near the UST at shallow depths. To further evaluate this issue, Tetra Tech recommended performing a Phase II subsurface investigation to sample and analyze soil at the location of the UST with borings to 15 feet below ground surface for TPH impacts. Accordingly, Tetra Tech performed a Phase II subsurface investigation. The results were "non-detect" for TPH at the associated fueling area and vent piping area. Accordingly, based upon the findings Tetra Tech concludes that the UST does not constitute a REC. However, Tetra Tech recommends completing the required agency documentation for the removal of the UST and obtaining concurrence in the form of a closure letter for the UST after removal.

In addition, the results of Leighton's Phase II subsurface investigation regarding the historical agricultural use of the Site reported no arsenic at concentrations above regulatory limits. One OCP, Dieldrin, was detected above regulatory limits at several locations and a composite sample showed results as high as 13,000 µg/kg for Dieldrin. Based on these results, Leighton recommended additional investigation of OCPs. Leighton also identified areas needed for excavation/removal of the OCPs and prepared preliminary cost estimates for excavation and disposal of the OCP (primarily Dieldrin) impacted soil.

The Phase II ESA conducted by Tetra Tech in July 2016 to investigate the RECs identified by Leighton in its Phase I ESA (relating to the Site's historical UST and the reported presence of OCPs due to historical agricultural land use). Based on the analytical results of Tetra Tech's investigation, Tetra Tech concluded that the identified OCP impacts will require excavation and disposal, and prepared preliminary cost estimates for excavation and removal of the impacted soil as well as for the removal of the UST.

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM E-1527-05 (and Final Rule 40 CFR Part 312 et seq.) with respect to the Site. Any exceptions to, or deletions from, this practice are described in Section 1.4 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the Site, with the exception of the following:

Historical Agricultural Use. Based on the historical documentation, the Site was used for residential and agricultural purposes, mainly orchards and dry farming, from at least 1938 until approximately 1960. Accordingly, the noted agricultural use on-Site may have included contaminants of concern, such as OCPs and arsenic, which have impacted soil in the undeveloped portions of the Site. Previous Leighton reports confirmed this as a REC. Therefore, Tetra Tech recommended and performed further subsurface investigation to determine the potential impacts of OCPs (in particular Dieldrin) impacting soil at the Site. Results of the investigation indicate that under a future residential land use, additional excavation and removal of the impacted soil will need to be performed.

This assessment has revealed no Historical RECs:

This assessment has revealed no controlled RECs in connection with the Site.

Tetra Tech identified the following non-ASTM environmental issues associated with the Site:

ACM and LBP. Based on the age of the onsite structures, it is possible that asbestos-containing building
materials (ACM) and/or lead-based paint (LBP) may be present in building materials. An ACM and LBP
survey should be completed on any structures prior to any activities with the potential to disturb suspect or
presumed ACM or painted surfaces.

In addition, Tetra Tech has identified the following de minimis conditions associated with the Site:

- A portion of the former septic system/tank on the southeastern portion of the Site was identified during our Phase II investigation. The Phase II subsurface investigation data collected to date indicates the septic system/tank is not a REC, and Tetra Tech recommends no further investigation regarding this issue. In connection with site development activities, however, the septic tank should be removed for off-site disposal in accordance with all applicable laws.
- An additional septic tank was identified on the residential portion of the Site, located southeast of the main residential building. The septic tank appears unlikely to represent an environmental concern to the Site, but should be removed for off-site disposal, in accordance with all applicable laws, in connection with site development activities.

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1.0 INTRODUCTION

Tetra Tech, Inc. (Tetra Tech) conducted a Phase I Environmental Site Assessment (ESA) for Chino Francis Estates, LLC at the properties located at 4664 and 4570 Francis Avenue, Chino, CA, 91710 (in the County of San Bernardino), California, 91710 (hereinafter referred to as the "Site"; Figure 1). This work was completed in accordance with the requirements of American Society for Testing and Materials (ASTM) E 1527-13 and All Appropriate Inquiries Final Rule 40 Code of Federal Regulations (CFR) Part 312. Tetra Tech conducted interviews with owners, operators, and/or occupants of the facility on the Site to the extent practical, reviewed federal, tribal, state and local government records, and performed a visual inspection of the Site.

This report was prepared based on review of the data as described herein, in accordance with generally accepted professional practices, applicable to work of similar nature and complexity of similar localities, at the time the services were performed. No warranty, express or implied, is made. The scope of this report is intended to provide an evaluation of the current readily observable/obvious environmental conditions at the Site at the time of the Site reconnaissance and information we obtained from our review of documents and involvement in investigations, removal and remedial actions undertaken at the property. Tetra Tech assumes no responsibility for conditions of which it is unaware and/or for which there was no opportunity or request for review.

It is important to recognize that even the most comprehensive scope of services may not detect all the environmental liabilities at a particular Site. Therefore, nothing herein shall be construed as a representation or certification that the Site is either fully characterized or is free of environmental impairments and/or contamination.

1.1 (SEE SECTION 1.3) PURPOSE

Pursuant to the scope of work and the applicable ASTM standard, the purpose of this ESA is to identify RECs in connection with the Site. Tetra Tech understands that the client intends to acquire the Site and redevelop it for residential use. As defined in Section 1.1.1 of ASTM Standard E1527-13, "recognized environmental conditions" means "the presence or likely presence of any hazardous substances or petroleum products on a property (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment." A "hazardous substance or petroleum product" is not intended to include *de minimis* conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies."

1.2 LIMITING CONDITIONS AND METHODOLOGY USED

The scope includes interviews with the property owners, occupants and/or operators, regulatory database review, visual noninvasive reconnaissance of the Site, compilation and evaluation of data, and preparation of this report.

Tetra Tech's assessment is limited strictly to identifying RECs, controlled RECs (CRECs), and historical RECs (HRECs) associated with the Site. Tetra Tech's assessment did not include evaluation of structural conditions of any buildings on the Site, nor was sampling of soils, groundwater, or surface water within the scope of work. In addition, this assessment did not attempt to identify the presence of environmental contamination that exists in areas that were not available to be visually inspected. This includes surface soils located under pavement, interiors of structures, landfills, vehicles, or other media interference; subsurface soils; groundwater; or areas of the Site or buildings on the Site which were otherwise inaccessible due to locked or blocked accesses; geographic or vegetation impediments; weather interferences; or size of the Site.

The Site reconnaissance was conducted on the ground and vehicle inspection completed as warranted based on visual observations and data developed during a pre-Site reconnaissance desktop review of aerial photography and historic topographic maps. A complete description of the Site reconnaissance is provided in Section 4.0. The inspection covered accessible areas of the Site with particular focus on areas of suspected chemical and petroleum

usage and/or storage, discharges, soil disturbance, and/or unusual vegetation. Tetra Tech did not inspect subsurface features such as underground utilities or utility corridors that may exist in the vicinity of the Site.

Tetra Tech did not assess the Site for the potential for liabilities associated with the following:

- Asbestos-containing building materials (ACM)
- Biological agents
- Radon
- Lead-based paint (LBP)
- Lead in drinking water
- Wetlands
- · Regulatory compliance
- · Cultural and historic resources
- Industrial hygiene
- · Health and safety
- Ecological resources
- Endangered species
- Indoor air quality
- Mold

This list is not all-inclusive and no implication is intended as to the relative importance of inquiry. These can present environmental liabilities to a property owner, but are not included in the ASTM Standard E1527-13 scope of work for Phase I ESAs.

1.3 SIGNIFICANT ASSUMPTIONS

In reviewing the information from the client, Tetra Tech evaluated the thoroughness and reliability of the information provided. Tetra Tech cannot, however, warrant or guarantee either the accuracy or the comprehensiveness of such information other than work performed by Tetra Tech.

1.4 LIMITATIONS AND EXCEPTIONS

Results of this assessment are based upon the visual Site inspection of readily accessible areas of the Site conducted by Tetra Tech personnel, information from interviews with knowledgeable persons regarding the Site, information reviewed regarding historical uses, information provided by contacted regulatory agencies, and review of publicly available and practically reviewable information identifying current and historical uses of the Site and surrounding properties. The interior portions of the residential structures located at 4664 Francis Avenue were not accessible during the Site reconnaissance. A title search was not conducted for the Phase I ESA. The lack of this information does not represent a significant data gap. In the event of any conflict between the terms and conditions of this report and the terms and conditions of the Master Services Agreement between Chino Francis Estates, LLC and Tetra Tech (the "MSA"), the MSA shall control.

1.5 SPECIAL TERMS AND CONDITIONS

There were no special terms and conditions associated with this Phase I ESA.

1.6 USER RELIANCE

This report was prepared for the sole use of Chino Francis Estates, LLC and its affiliated entities. This report was prepared based on review of limited data, as described herein, in accordance with generally accepted professional practices, applicable to work of similar nature and complexity of similar localities, at the time the services were performed. No warranty, express or implied, is made. Tetra Tech's services, and the resulting scope and conclusions of this report are in accordance with the criteria of ASTM practice E1527-13 governing Phase I ESAs and with All Appropriate Inquiries Final Rule 40 CFR Part 312.

2.0 PROJECT DESCRIPTION

2.1 LOCATION OF THE SITE

The Site is located at 4664 and 4570 Francis Avenue, Chino (in the County of San Bernardino), California 91710 on the north side of Francis Avenue and east of Yorba Avenue. The Site is bounded by residential properties and a small scale agricultural and livestock operations to the north and west, the eastern boundary of the Site is bounded by Yorba Avenue and residential properties further across Yorba Avenue, while the southern boundary of the Site is bounded by Francis Avenue and residential properties further across Francis Avenue. The location of the Site is depicted on Figure 1.

2.2 CHARACTERISTICS OF THE SITE AND VICINITY

The Site consists of approximately 10.67 acres of property that is predominantly vacant (vacant parcel) and utilized as grazing land for a neighboring goat farm and 1.32 acres of residential land (residential parcel) improved by three residential structures and other associated features utilized within the residential parcel, totaling approximately 11.99 acres. The vacant parcel of the Site is currently owned by William J. Munzer, while the residential parcel of the Site is owned by Joaquin Nava. The vacant parcel of the Site is roughly divided into three sections: 1) the western section, 2) the middle section, and 3) the eastern section. The western section of the parcel was observed to be improved by numerous small rectangular concrete pads and a maintenance shed utilized for storage of materials associated with the goats currently grazing the Site. The middle section of the vacant parcel was observed to be improved by numerous elongated concrete slabs and several animal pens associated with the former rabbit farm located on this portion of the Site, bee hives, and a small vacant maintenance shed. The eastern section of the vacant parcel was observed as undeveloped vacant land (Figure 2). Adjacent properties within the vicinity of the Site are residential properties and a small scale agricultural and livestock operations to the north and west, residential properties immediately to the southeast and residential properties further across Yorba Avenue, and residential properties across Francis Avenue. A short private driveway located on the southwest portion of the Site provides access to the Site via Francis Avenue.

2.3 PHYSICAL SETTING DESCRIPTION AND SOURCES

Section 8.2.4 of the ASTM Standard E1527-13 states "a current United States Geological Survey 7.5 Minute Topographic Map (or equivalent) showing the area on which the property is located shall be reviewed. It is the only standard physical setting source and the only physical setting source that is required to be obtained." A topographic map of the Site was reviewed (Figure 1). Discretionary physical setting sources shall be sought when (1) conditions have been identified in which hazardous substances or petroleum products are likely to migrate to the property or from or within the property into the groundwater or soil and (2) more information than is provided in the current United States Geological Survey 7.5 Minute Topographic Map (or equivalent) is generally obtained, pursuant to local good commercial and customary practice in initial environmental site assessments in the type of commercial real estate transaction involved, in order to assess the impact of such migration on RECs in connection with the property.

The following description for soils and geology in the vicinity of the Site is provided from a previous Phase I ESA conducted for the Site on January 1, 2014 by Leighton and Associates, Inc. (Leighton):

The Site is located in Section 34, Township 1 South, Range 8 West of the San Bernardino Baseline and Meridian. The Site is depicted on the United States Geological Survey (USGS) Ontario 7.5-Minute Topographic Quadrangle, 1967 photorevised 1981. The elevation of the Site is approximately 845 feet above mean sea level. In general, the surrounding area slopes to the south-southwest, towards Chino Creek, a tributary of the Santa Ana River.

Surface water was not observed at the Site during the site reconnaissance. The San Antonio Channel is located 1.08 miles west of the Site, Chino Creek is located approximately 2.32 miles southwest of the Site and the Santa Ana River is located approximately 10 miles south of the Site.

The Site is located within the Chino Basin on the northern portion of the Peninsular Range Geomorphic Province of California. Major structural features surrounding this region include the Cucamonga fault and the San Gabriel Mountains to the north, the Chino fault and Puente/Chino Hills to the west, and the San Jacinto fault to the east. This is an area of largescale crustal disturbance as the relatively northwestward-moving Peninsular Range Province collides with the Transverse Range Province (San Gabriel and San Bernardino Mountains) to the north. Several active or potentially active faults have been mapped in the region and are believed to accommodate compression associated with this collision. The Site is underlain by younger alluvial soil deposits eroded from the mountains surrounding the basin and deposited in the Site vicinity.

The subject site is underlain by Quaternary alluvial fan deposits. The alluvial soil encountered within our soil borings generally consisted of sand and sandy silt with some interbedded layers of discontinuous clay. The soil was generally moist and medium dense.

The subject site is located in the Upper Santa Ana Valley Groundwater Basin, Chino sub-basin. The basin is bounded to the north by the Redhill-Sierra Madre fault, to the northeast by the Rialto-Colton Fault, to the east by impermeable rocks of the Jurupa Mountains, on the south and southwest by the impermeable rocks of the Puente Hills and the Chino fault (SWRCB, 2003). The surface of the basin is drained by San Antonio Creek which in turn flows to the Santa Ana River.

Groundwater flow in the vicinity of the subject Site is estimated to be to the southwest toward the Prado Wetlands and out of the basin along the Santa Ana River. Depth to groundwater is anticipated to be a depth greater than 200 feet bgs. Groundwater in the vicinity of the subject site is part of the Chino North Groundwater Management Zone. Beneficial use includes municipal, agricultural, industrial, and process.

According to the US Fish and Wildlife Service National Wetlands Inventory online Wetland Mapper tool and the Site reconnaissance, no wetlands appear within 1,500 feet from the Site.

2.4 USER PROVIDED INFORMATION

This disclosure of user-provided information is in general accordance with Section 6 of ASTM Standard E1527-13. A user questionnaire was provided to Mr. Brett Crowder, President of Coastal Commercial Properties, which is provided as Appendix A. His responses to the questionnaire provided the following information on specific topics:

- Liens and Activity and Use Limitations (AULs) According to Mr. Crowder, there are no AULs associated with the Site.
- Specialized knowledge or experience Mr. Crowder has no experience or specialized knowledge of conditions related to this Site specifically beyond what is discussed in this Phase I ESA.
- Actual knowledge Mr. Crowder has no actual knowledge of Site conditions beyond what is discussed in this Phase I ESA.
- According to Mr. Crowder, the purchase price of the property does reasonably reflect the fair market value
 of the property, and no reduction in the purchase price is anticipated to be associated with known
 contamination at the Site.
- Commonly known or reasonably ascertainable information Mr. Crowder is not aware of any information related to Site contamination that is not reflected in the Phase I ESA report, other than the previous Phase I and II ESAs provided to Mr. Crowder by Tetra Tech.
- Purpose of ESA The purpose of this Phase I ESA is to understand any potential liabilities and obligations, associated with the Site prior to the potential purchase by Mr. Crowder.

2.4.1 Title Records

Title records were not provided to Tetra Tech by Chino Francis Estates, LLC. A title search was not conducted by Tetra Tech as part of this Phase I ESA. The lack of this information by Tetra Tech independently does not represent a significant data gap.

2.4.2 Environmental Liens

Responses to the user questionnaire would have stated if the User is aware of the existence of any environmental lien/activity use limitations on the Site.

2.4.3 Site Improvements

At the time of the Site reconnaissance by Tetra Tech, the Site consisted of approximately 10.67 acres of vacant land utilized as grazing land for a neighboring goat farm and 1.32 acres of residential land improved by three residential structures and other associated features utilized within the residential parcel, totaling to approximately 11.99 acres utilized at the Site (Figure 2). The vacant parcel of the Site is roughly divided into three sections, the western, middle, and eastern section. The western section of the parcel has been improved by numerous rectangular concrete pads and a maintenance shed utilized for the storage of materials associated with the goat grazing the Site. The middle section of the vacant parcel was observed to be improved by numerous elongated concrete slabs and several animal pens associated with the former rabbit farm located on this portion of the Site, bee hives, and a small vacant maintenance shed. The eastern section of the vacant parcel was observed as undeveloped vacant land.

3.0 RECORDS REVIEW

This section includes the results of the database search, review of physical setting services, and historical uses of the Site and adjoining properties.

3.1 STANDARD ENVIRONMENTAL RECORD SOURCES

Tetra Tech obtained an Environmental Risk Information Service Ltd. (ERIS) Database Report, dated July 21, 2016 from ERIS (Appendix B). Databases searched within the ASTM E 1527-13 search radius around the facility and adjacent properties and resulting records found on site and within the search area are presented in Table 3-1.

Table 3-1. Records Review

Data Source	Search Distance, Miles	# of Records on Site	# Of Records Within Search Area
National Priorities List (NPL) Sites	1.0	0	0
Proposed NPL	1.0	0	0
NPL Liens	TP	0	NR
Delisted NPL	1.0	0	0
Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS)	0.5	0	0
Federal Facility	0.5	0	0
CERCLIS-No Further Remedial Action Planned (NFRAP)	0.5	0	0
CORRACTS (Corrective Action Reports)	1.0	0	0
Resource Conservation and Recovery Act (RCRA)-Treatment, Storage, and Disposal Facility (TSDF)	0.5	0	0
RCRA Large Quantity Generator (LQG)	0.25	0	0
RCRA Small Quantity Generator (RCRA-SQG)	0.25	0	0
RCRA Conditionally Exempt Small Quantity Generator (CESQG)	0.25	0	0
United States (US) Engineering Controls	0.5	0	0
US Institutional Controls		0	0
Land Use Control Information System (LUCIS)		0	0
Emergency Response Notification System (ERNS) List	TP	0	NR
State Response Sites (RESPONSE)	1.0	0	0
EnviroStor	1.0	0	1
Solid Waste Facilities/Landfill Sites (SWF/LF)	0.5	0	0
Leaking Underground Storage Tank (LUST) List	0.5	0	0
Statewide Spills, Leaks, Investigations, and Cleanup Cases (SLIC)	0.5	0	0
Indian LUST	0.5	0	0
Underground Storage Tank (UST)	0.25	0	0
Aboveground Storage Tank (AST)	0.25	0	0
INDIAN UST		0	0
Federal Emergency Management Act (FEMA) UST		0	0
Indian Voluntary Cleanup Program (VCP)	0.5	0	0
VCP	0.5	0	0
US Brownfields	0.5	0	0

Data Source	Search Distance, Miles	# of Records on Site	# Of Records Within Search Area
Debris Region 9	0.5	0	0
Open Dump Inventory (ODI)	0.5	0	0
Approved Class B Recycling Facilities (SWRCY)	0.5	0	0
Registered Waste Tire Haulers Listing (HAULERS)	TP	0	NR
Indian ODI	0.5	0	0
Waste Management Unit Database (WMUDS/SWAT)	0.5	0	0
US Clandestine Drug Lab (CDL)	TP	0	NR
Calsites Database (HIST Cal-Sites)	1.0	0	0
School Property Evaluation Program (SCH)	1.0	0	0
Toxic Pits Cleanup Act Sites (Toxic Pits)	1.0	0	0
San Gabriel Valley Areas of Concern (AOCONCERN)	1.0	0	0
CDL	TP	0	NR
US Historical CDL	TP	0	NR
Facility Inventory Database (CA FID UST)	0.25	0	0
Hazardous Substance Storage Container Database (HIST UST)	0.25	0	0
Statewide Environmental Evaluation and Planning System (SWEEPS) UST	0.25	0	0
LIENS	TP	0	NR
LIENS 2	TP	0	NR
Deed Restriction Listing (DEED)	0.5	0	0
Hazardous Materials Information Reporting System (HMIRS)	TP	0	NR
California Hazardous Material Incident Report System (CHMIRS)		0	NR
Land Disposal Sites Listing (LDS)		0	NR
Military Cleanup Sites Listing (MCS)		0	NR
SPILLS 90	TP	0	NR
RCRA NonGen/NLR (Non-Generators)	0.25	0	0
Department of Transportation (DOT) Office of Pipeline Safety (OPS)	TP	0	NR
Department of Defense (DOD)	1.0	0	0
Formerly Used Defense Sites (FUDS)	1.0	0	0
Superfund Consent Decrees (CONSENT)	1.0	0	0
Records of Decision (ROD)	1.0	0	0
Uranium Mill Tailings Sites (UMTRA)	0.5	0	0
Mines Master Index File (US MINES)	0.25	0	0
Toxic Chemical Release Inventory System (TRIS)	TP	0	NR
Toxic Substances Control Act (TSCA)	TP	0	NR
Federal Insecticide, Fungicide, and Rodenticide Act [FIFRA] / TSCA Tracking System (FTTS)	TP	0	NR
Historic FIFRA/TSCA Tracking System Administrative Case Listing (HIST FTTS)	TP	0	NR
Section 7 Tracking Systems (SSTS)	TP	0	NR
Integrated Compliance Information System (ICIS)	TP	0	NR
Polychlorinated biphenyl (PCB) Activity Database System (PADS)	TP	0	NR

Data Source	Search Distance, Miles	# of Records on Site	# Of Records Within Search Area
Material Licensing Tracking System (MLTS)	TP	0	NR
Radiation Information Database (RADINFO)	TP	0	NR
Facility Index System/Facility Registry System (FINDS)	TP	0	0
RCRA Administration Action Tracking System (RAATS)	TP	0	NR
Risk Management Plans (RMP)	TP	0	NR
Bond Expenditure Plan (CA BOND EXP. PLAN)	1.0	0	0
Underground Injection Wells Database (UIC)	TP	0	NR
National Pollutant Discharge Elimination System (NPDES)	TP	0	NR
Hazardous Waste and Substances Site List (CORTESE)	0.5	0	0
HIST CORTESE	0.5	0	0
Certified Unified Program Agency (CUPA) Listings	0.25	0	0
Proposition 65 Records (Notify 65)	1.0	0	0
Site Mitigation List (LA Co. Site Mitigation)	TP	0	NR
DRYCLEANERS	0.25	0	0
Historical Hazardous Substance Storage Information Database (HHSS)	0.25	0	1
Well Investigation Program Case List (WIP)	0.25	0	0
Enforcement Action Listing (ENF)	TP	0	NR
Facility and Manifest Data (HAZNET)	TP	0	0
Emissions Inventory Data (EMI)	TP	0	NR
Indian Reservations (INDIAN RESERV)	1.0	0	0
State Coalition for Remediation of Drycleaners (SCRD) Drycleaners	0.5	0	0
Potentially Responsible Party (PRP)		0	NR
Waste Discharge System (WDS)		0	NR
US Aerometric Information Retrieval System Facility Subsystem (AFS) (AIRS)		0	NR
Lead Smelter Sites (LEAD SMELTERS)	TP	0	NR
2020 Corrective Action Program List (2020 COR ACTION)	0.25	0	0
Environmental Protection Agency (EPA) Watch List	TP	0	NR
Coal Ash Department of Energy (DOE)	TP	0	NR
PCB Transformer Registration Database (PCB TRANSFORMER)	TP	0	NR
Certified Processors Database (PROC)	0.5	0	0
EnviroStor Permitted Facilities Listing (HWP)	1.0	0	0
Medical Waste Management Program Listing (MWMP)	0.25	0	0
Registered Hazardous Waste Transporter Database (HWT)	0.25	0	0
Coal Combustion Residues Surface Impoundments List (COAL ASH EPA)	0.5	0	0
Financial Assurance		0	NR
US Financial Assurance (FIN ASSUR)		0	NR
ERIS Historical Manufactured Gas Plant (MGP)	1.0	0	0
ERIS Historical Auto Stations	0.25	0	0
ERIS US Historical Cleaners	0.25	0	0
Recovered Government Archive Solid Waste Facilities List (RGA LF)	TP	0	NR

Data Source	Search Distance, Miles	# of Records on Site	# Of Records Within Search Area
Recovered Government Archive Leaking Underground Storage Tank (RGA LUST)	TP	0	NR
Historical Hazardous Waste Manifest Data (HIST MANIFEST)	TP	0	0
San Bernardino County CUPA List (SANBERN CUPA)	0.25	0	1

Site

A review of records pertaining to the Site was compiled by ERIS on behalf of Tetra Tech for the databases listed in Table 3-1. The review did not identify the Site on any of the searched databases.

Surrounding Properties

Tetra Tech reviewed surrounding properties identified in databases searched by ERIS for the search radii listed in Table 3-1.

Envirostor

The Envirostor database provides similar information to the information that was available in Cal-Sites, and provides additional Site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

The Site was not listed in the Envirostor database, however one facility within a one mile radius of the Site was listed on the Envirostor database. The following site is described in further detail below:

Chino Early Education Center (4562 and 4578 Philadelphia Street), located approximately 0.50 miles south of the Site, is listed on the Envirostor database. The specific details regarding the previous activities, hazardous material contamination and land use restrictions are provided in the Envirostor online database, which stated the property was a 4.5 acre school site, previously utilized for agricultural and residential use, which caused contamination to soil. As such, the property underwent a Preliminary Endangerment Assessment (PEA) in 2005, which assessed the property for metals (associated with the past use of pesticides), lead (associated with the past use of lead based paint), organochlorine pesticides (from the past use of pesticides), total petroleum hydrocarbons (TPHs), volatile organic compounds (VOCs) and poly-aromatic hydrocarbons (PAHs) (from the onsite septic systems and oil sprays). Based on the findings of the PEA report, elevated levels of arsenic and lead were found to be present at the property. A Draft Removal Action Plan (RAW) was prepared and reviewed with an extended public comment period. Based on the RAW, the contamination that existed on the small portion of the property was to be cleaned under DTSC oversight and the property will be safe for the County to construct. The school was to be constructed after the contamination was removed from the property.

According to the Envirostor listing, the DTSC briefed Board Members of the School District on July 2, 2007 and a public comment period was extended to August 2007 and a public meeting was held on August 21, 2007. DTSC subsequently approved the RAW on October 25, 2007 and the contaminated soil was removed in February 2008. DTSC reviewed and approved the Removal Action Completion Report and closed out the property in August 2008. Therefore, based on the adjacent Envirostor listing's respective distance, current status (regulatory case closure), and lack of violations, this facility does not represent an environmental concern to the Site.

Tetra Tech recommends no further investigation regarding this listing.

HHSS

The Historical Hazardous Substance Storage (HHSS) database contains information collected in the 1980s from facilities that stored hazardous substances. The information was originally collected on paper forms, was later

transferred to microfiche, and recently indexed as a searchable database. When using this database, please be aware that it is based upon self-reported information submitted by facilities which has not been independently verified. It is unlikely that every facility responded to the survey and the database should not be expected to be a complete inventory of all facilities that were operating at that time. This database is maintained by the California State Water Resources Control Board's (SWRCB) Geotracker online database.

The database identified a total of one HHSS facility within a one-quarter mile radius from the Site.

M and *M* Market (4494 Francis Street), located approximately 0.09 miles southwest of the Site, is listed on the HHSS database for housing two underground storage tanks (USTs) that were used in connection with a former gas station. The noted USTs on Site were listed as: one 500-gallon UST that contained unleaded gasoline and second UST of unknown capacity that contained premium gasoline, which were installed at unknown dates, respectively. The HHSS database listing indicated that the Site had registered a Hazardous Substance Storage Container Information form for a gasoline station in San Bernardino County, which was regulated by the SWRCB on June 1, 1988. No other information was provided, and no violations were listed. As such, this listing does not represent an environmental concern to the Site.

Tetra Tech recommends no further investigation with regards to the HHSS listings summarized above.

SANBERN CUPA

The San Bernardino County CUPA is a list of facilities associated with various Certified Unified Program Agency (CUPA) programs in San Bernardino County. This list is made available by San Bernardino County Fire Department which is the CUPA for all areas of the County except the city of Victorville.

The database identified one SANBERN CUPA facility within a one-quarter mile radius from the Site.

Holt Garden Center (11602 Ramona Avenue), located approximately 0.08 miles northwest of the Site, was reported as a "hazardous materials handler with 0-10 employees" and is listed with an "inactive" status and facility ID FA0011729. Based on a lack of violations, the surrounding facility does not represent an environmental concern to the Site.

Tetra Tech recommends no further investigation with regards the SANBERN CUPA listings summarized above.

3.2 VAPOR ENCROACHMENT SCREEN

Tetra Tech conducted an initial vapor encroachment screen to determine if a vapor encroachment condition (VEC) exists in the subsurface below any existing structures at the Site from hazardous substances, petroleum, and petroleum products that can include VOCs, semivolatile organic compounds, and inorganic volatile compounds. A Tier 1 non-invasive vapor encroachment screen was performed using the information provided in the Radius Map Report prepared by ERIS for Tetra Tech for the chemicals of concern and the approximate recommended minimum search distances included in ASTM E 2600-10, *Standard Guide for Vapor Encroachment Screening on Sites Involved in Real Estate Transactions*. The following minimum search distances are outlined in ASTM E 2600-10 (ASTM 2010).

Table 3-2. Vapor Encroachment Screen Approximate Minimum Search Distances Surrounding the Subject Property (miles)

Standard Environmental Record Sources (where available)	Chemicals of Concern	Petroleum Hydrocarbon Chemicals of Concern
Federal NPL	0.33	0.1
Federal CERCLIS	0.33	0.1
Federal RCRA CORRACTS	0.33	0.1
Federal RCRA non-CORRACTS TSD	0.33	0.1
Federal RCRA Generators	Subject Property Only	Subject Property Only

Standard Environmental Record Sources (where available)	Chemicals of Concern	Petroleum Hydrocarbon Chemicals of Concern
Federal Institutional Control/Engineering Control	Subject Property Only	Subject Property Only
Federal ERNS	Subject Property Only	Subject Property Only
State and Tribal-equivalent NPL	0.33	0.1
State and Tribal-equivalent CERCLIS	0.33	0.1
State and Tribal Landfill or Solid Waste Disposal Sites	0.33	0.1
State and Tribal LUST	0.33	0.1
State and Tribal UST	Subject Property Only	Subject Property Only
State and Tribal Institutional Control/Engineering Control	Subject Property Only	Subject Property Only
State and Tribal Voluntary Cleanup	0.33	0.1
State and Tribal Brownfield	0.33	0.1

Based on the results of the initial vapor encroachment screening, no vapor encroachment condition exists in the subsurface below any existing structures at the Site. A copy of the Vapor Encroachment Screen is included in Appendix B. Tetra Tech recommends no further investigation regarding soil vapor at the Site.

3.3 AGENCY RECORDS

The following agencies were contacted for information related to environmental issues associated with the Site and surrounding properties:

- Santa Ana Regional Water Quality Control Board (Geotracker website)
- Cal/EPA Department of Toxic Substances Control (Envirostor website)
- San Bernardino County Public Health Department, Environmental Health Services (SBCPHD)
- South Coast AQMD (FINDS Database)
- City of Chino Building Department (CCBD)
- County of San Bernardino Building Department (CSBBD)
- Division of Oil, Gas, and Geothermal Resources (DOGGR; Well Finder online database)

Regulatory correspondence documents are provided as Appendix C.

Santa Ana Regional Water Quality Control Board and Cal/EPA Department of Toxic Substances Control

An online review of the Envirostor database was conducted for cleanup sites, permitted sites, and other facilities (GeoTracker LUST and SLIC) within 3,000 feet of the Site. An online review of the GeoTracker database revealed no records for the Site. The Site was not listed in the online Envirostor database. No off-Site facilities were identified beyond what is discussed in Section 3.1, as representing a potential impact to the environmental integrity of the Site. Off-Site facilities are discussed in further detail in Section 3.1 of this report.

SBCPHD

On June 22, 2016, Tetra Tech requested records from SBCPHD via email for the Site. At the time of completion of this report, no responses from the SBCPHD have been received. Any future responses will be evaluated, and if deemed appropriate, the responses will be forwarded as an addendum to this Phase I ESA under separate cover. Based on its review of other sources, however, Tetra Tech considers it unlikely that any further regulatory records would alter the conclusions or recommendations of this report.

South Coast AQMD

An online database search was conducted on AQMD's website for records pertaining to the Site. No records pertaining to the Site were identified.

CCBD

On July 20, 2016, Tetra Tech requested records from CCBD via email for the Site. On July 20, 2016, CCBD responded to Tetra Tech's request stating that the address requested pertaining to the Site was located in an unincorporated area of Chino, whose jurisdiction if with the CSBBD.

CSBBD

On July 21, 2016, Tetra Tech requested records from CSBBD via email for the Site. On July 21, 2016, CSBBD responded to Tetra Tech's request stating that permit research for the Site would be conducted pending a \$10 fee and once payment is received it may take a minimum of 10 business days. However, due to the abundance of requests received by the department it will take approximately 30 business days minimum to receive the requested records. Once the research is completed the CSBBD dated an email will be sent with the records attached.

At the time of completion of this report, no responses from the CSBBD have been received. Any future responses will be evaluated, and if deemed appropriate, the responses will be forwarded as an addendum to this Phase I ESA under separate cover. Based on its review of other sources, however, Tetra Tech considers it unlikely that any further regulatory records would alter the conclusions or recommendations of this report.

DOGGR

An online review of the DOGGR Well Finder database revealed no oil, gas, or geothermal wells or permits for wells within 1,500 feet of the Site.

3.4 PREVIOUS ENVIRONMENTAL REPORTS

Phase I Environmental Site Assessment, 4570 Francis Avenue, Chino, CA conducted by Leighton and Associates, Inc., dated January 10, 2014

A Phase I Environmental Site Assessment (ESA) was performed by Leighton and Associates, Inc. (Leighton), dated January 10, 2014. The ESA covered APN 1012-211-21, located at 4570 Francis Avenue, Chino, California (Site). This assessment was conducted in accordance with the ASTM Standard Practice E 1527-13 for a Phase I Environmental Site Assessments and All Appropriate Inquires Final Rule 40 CFR Part 312. Previous reports are provided in Appendix D.

According to the report, the vacant parcel of the Site was historically used for residential and agricultural purposes, mainly orchards and dry farming, from at least 1938 until approximately 1960. In 1960, the central portion of the subject Site was developed as a rabbit farm that operated until approximately 2002. Remnant concrete slabs associated with the rabbit farm were located in the central portion of the subject Site. Numerous structures, presumably residences, occupied the western portion of the subject Site from at least 1938 until 1997. The structures were demolished circa 1997. The eastern portion of the subject Site was occupied by a residence from at least 1938 until 1977, when it was demolished and has remained vacant land to the present day. After closure of the rabbit farm in 2002, the vacant parcel of the Site has been utilized as grazing land by an adjacent goat farm.

According to the report the vacant parcel of the Site consisted of approximately 10.67 acres, which was utilized as grazing land for a neighboring farm. The vacant parcel of the Site was roughly broken up into thirds, with the western third occupied by numerous small rectangular concrete pads and one maintenance shed used for the storage of materials associated with the goats currently grazing the Site. The middle third of the vacant parcel contained numerous elongated concrete slabs and a few animals pens associated with the former rabbit farm located on this portion of the Site, bee hives, and one small empty maintenance shed. The eastern third of the vacant parcel of the Site was observed as vacant land. One fuel underground storage tank and a sump system were identified in the western portion of the vacant parcel of the Site, adjacent to the maintenance shed. Access to the vacant parcel of

the Site was provided through two gates; one located along Francis Avenue and the other located along Yorba Avenue.

This assessment revealed the following Recognized Environmental Conditions (RECs):

- The presence of a fuel UST in the southwest portion of the vacant parcel of the Site was considered a REC and additional assessment was warranted.
- The historic use of the subject Site for agricultural purposes, the potential for impacts from organochlorine pesticides (OCPs) and arsenical pesticides associated with this use was a REC and additional assessment was warranted.
- The potential for impacts from OCPs and lead in soil associated with the numerous historical buildings located onsite was a REC and additional assessment was warranted.

Leighton's Phase I ESA, recommended the following:

- Conduct a geophysical survey in the area of the fuel UST and throughout the Site to determine the exact
 location of the UST and approximate size, and if other unknown underground objects (USTs, septic tanks,
 buried trash, etc.) are present at the vacant parcel of the Site.
- Conduct soil sampling in the vicinity of the UST to assess potential impacts resulting from the UST. Soil samples should be analyzed for total petroleum hydrocarbons and volatile compounds in accordance with EPA SW-846 guidelines.
- Conduct soil sampling throughout the Site to assess potential impacts resulting from the former use of the Site for agricultural purposes. Soil samples should be analyzed for OCPs and arsenic in accordance with EPA SW-846 guidelines.
- Conduct soil sampling in the vicinity of the former and current structures to assess potential impacts
 resulting from the application of termiticides and lead-based paint. Soil samples should be analyzed for
 OCPs and lead in accordance with EPA SW-846 guidelines.

While not considered a REC, Leighton noted that the following environmental concern should be addressed prior to demolition of the existing onsite structure an asbestos and lead-based paint survey should be conducted by a licensed contractor. If asbestos and/or lead-based paint are identified, the materials should be properly abated in accordance with local and federal guidelines.

Limited Phase II Environmental Site Assessment, 4570 Francis Avenue, Assessor Parcel Number 1013-211-21, Chino, California, dated January 10, 2014

Leighton performed a limited Phase II ESA which included the following:

- A geophysical survey in the area of the UST to determine the exact location and size
- A geophysical survey in the southwest corner and northeast area to evaluate underground objects (septic tanks, trash etc.
- Twenty three borings were sampled for lead and organochlorine pesticides (OCPs).
- Ten additional soil borings at various select locations to be sampled for lead, TPH, and VOC analyses.
- An ACM and LBP survey were completed.

Results of the geophysical survey confirmed the presence of a UST on the east side of the existing maintenance shed, a possible septic tank in the southeast corner of the Site, and what appeared to be a buried trash pit in the northeast.

No ACM was identified in the current onsite structures according to the report. LBP was identified in some paint samples.

One OCP, dieldrin was detected above regulatory guidelines from 0.5-feet and 2.5-feet below ground surface near the concrete pads in the southwest portion of the Site and in the 0.5-foot sample in the northeast portion of the Site.

The report recommended additional assessment of the OCPs as well as the draining, removal, and excavation confirmation sampling of the existing UST. For additional details regarding the sampling and results of the limited Phase II, refer to Appendix D.

Phase II Site Assessment Report, 4570 Francis Avenue, Chino, CA conducted by Leighton and Associates, Inc., dated March 30, 2015

Leighton conducted a Phase II ESA based on the findings of the Phase I ESA and the Limited Phase II ESA. The purpose of this investigation was to laterally and vertically delineate pesticide (dieldrin) impacted soil identified in the western and northeastern portions of the Site during the January 2014 investigation.

Leighton personnel directed the advancement of 23 soil borings (LB33 through LB55) using hand auger drilling equipment in the western and northeast portions of the Site. Sixteen (16) borings (LB33 through LB40, LB42, LB43, LB45, LB47, LB49, and LB53 though LB55) were advanced to an approximate depth of 2.5 feet below ground surface (bgs) and seven (7) borings (LB41, LB44, LB46, LB48, and LB50 through LB52) were advanced to an approximate depth of 5 feet bgs.

Soil samples were collected at depths of 0.5 feet, 1.5 feet, and 2.5 feet bgs from the above 16 shallow boring locations and at depths of 0.5 feet, 2.5 feet, and 5 feet bgs from the 7 deeper boring locations.

Soil samples were analyzed for organochlorine pesticides (OCPs) by EPA Method 8081A. The results of the laboratory analyses for the soil samples collected on March 5, 2015 are summarized below:

- Concentrations of one OCP (dieldrin) were detected above the EPA Region 9 Regional Screening Level (RSL) for residential land use [33 micrograms per kilogram (μg/kg)] at the following locations and depths: LB43 at 0.5 feet bgs, LB48 at 0.5 feet bgs and 2.5 feet bgs, LB49 at 0.5 feet bgs, and LB52 at 0.5 feet bgs. Concentrations of dieldrin ranged from 43 μg/kg to 13,000 μg/kg in the soil samples listed above.
- Trace concentrations of 13 additional OCPs (4,4-DDD, 4,4-DDE, 4,4-DDT, aldrin, alpha-chlordane, beta-BHC, chlordane, delta-BHC, endrin, endrin ketone, gamma-BHC, gamma-chlordane, and methoxychlor) were detected below the EPA Region 9 RSLs for residential land use.

Based on the assessment of soil samples analyzed, and in conjunction with previous assessments, concentrations of dieldrin identified in the near-surface soils (surface to 5 feet bgs) were located primarily in the southwest portion of the Site adjacent to existing concrete slab foundations and along the southern boundary of the existing openended shed, as well as in a small area in the northeast portion of the Site. Leighton recommended that the removal of soil should occur at the following locations (with approximate dimensions indicated):

- Area of boring LB43 25 feet by 30 feet by 1 foot deep;
- Area of borings LB11 and LB48 25 feet by 55 feet by 5 feet deep;
- Area of boring LB49 25 feet by 40 feet by 1 foot deep;
- Area of borings LB14 and LB52 20 feet by 25 feet by 1 foot deep; and
- Area of boring LB30 15 feet by 15 feet by 1 foot deep.

According to the Leighton report, a total of approximately 560 tons (i.e., 350 cubic yards) of dieldrin-impacted soil required removal and offsite disposal prior to redevelopment of the Site for residential use according to Leighton. Upon removal of the impacted soil, confirmation soil samples should be collected from the resulting excavation sidewalls and bottoms to determine if the dieldrin-impacted soil exceeding the residential RSL has been removed. Soil removed from the impacted areas should be stockpiled on and covered with plastic sheeting. Soil samples should be collected from the resulting stockpile for chemical analysis and waste profiling and appropriate transportation and disposal.

Leighton also recommended that in general, observations should be made by the environmental consultant during future Site redevelopment to identify areas of possible contamination such as, but not limited to, the presence of

buried utility lines/pipes, buried debris, waste drums, tanks, and stained soil or odorous soils. Should such materials be encountered, further investigation and analysis may be necessary at that time.

Because of the concentrations of pesticides reported by Leighton, and recommended excavation of impacted soils, Tetra Tech performed further soil sampling as part of the Phase II ESA in order to further/better delineate the pesticide concentrations (and thereby better define the excavation areas), and to screen the soil across the Site. Refer to Section 6 for details regarding the Phase II soil sampling performed by Tetra Tech.

3.5 ADDITIONAL ENVIRONMENTAL RECORD SOURCES

Prior uses of the Site and surrounding properties were obtained from review of agency records and historical information obtained from ERIS reports (aerial photographs, city directories, and topographic maps; Sanborn fire insurance maps were not available). Table 3-3 below is a summary of historical information obtained from the ERIS reports (provided in Appendix B).

Table 3-3. Prior Uses of Site and Surrounding Properties

Decade Starting	Site	Surrounding Properties	Sources
1890	Due to the scale of the maps, specific information regarding the subject property was not distinguished from the 1897 topographic map.	N: Due to the scale of the maps, specific information regarding the subject property was not distinguished from the 1897 topographic map. The Southern Pacific Chino Branch railroad line appears further north of the Site. E: Due to the scale of the maps, specific information regarding the subject property was not distinguished from the 1897 topographic map. The Southern Pacific Chino Branch railroad line appears further east of the Site. S: Due to the scale of the maps, specific information regarding the subject property was not distinguished from the 1897 topographic map. The Southern Pacific Chino Branch railroad line appears further south of the Site. W: Due to the scale of the maps, specific information regarding the subject property was not distinguished from the 1897 topographic map. The Southern Pacific Chino Branch railroad line appears further west of the Site.	T(1897)
1900	Due to the scale of the maps, specific information regarding the subject property was not distinguished from the 1901 and 1903 topographic maps.	N: No significant changes noted from the 1897 topographic map. E: No significant changes noted from the 1897 topographic map. S: No significant changes noted from the 1897 topographic map. W: No significant changes noted from the 1897 topographic map.	T(1901, 1903)
1910	No resources found.	No resources found.	NA
1920	No resources found.	No resources found.	NA

Decade Starting	Site	Surrounding Properties	Sources
1930	The western portion of the Site appears improved with sixteen small rectangular structures, potentially used as livestock enclosures, while the central portion of the Site appears improved with a single-family residential home and agricultural land. The eastern portion of the Site appears improved by an additional single-family residential home near the northern boundary, while an orchard improves the remainder of the eastern portion. A creek appears to transect the eastern portion of the Site from the north to south.	N: The area immediately north of the Site appears as agricultural land utilized as orchards. E: Yorba Avenue (or previous) appears immediately east of the Site, while agricultural land utilized as orchards appear across Yorba Avenue (or previous). S: Francis Avenue (or previous) appears immediately south of the Site, while agricultural land and several livestock enclosures appear across Francis Avenue (or previous). W: The area immediately west of the Site appears improved by single-family residential homes, agricultural land and orchards.	A(1938) T(1933)
1940	No significant changes noted, with the exception of twelve additional livestock enclosures on the western portion of the Site and four rectangular structures or building slabs in the central portion.	No significant changes noted.	A(1947) T(1942)
1950	No significant changes were noted in the western portion of the Site, with the exception of two additional small rectangular structures in the southern portion. The central portion of the Site appears improved with three larger square structures and two small rectangular structures along the western boundary. The single-family residential home previously noted within the central portion is present in the southeast boundary and a dirt road connects this portion of the new structures on the western portion of the Site. The eastern portion of the Site remains improved by the single-family residential home previously identified, while the orchards appear to be diminishing with fewer trees observed in the 1952 aerial photograph.	N: No significant changes noted. E: Yorba Avenue appears immediately east of the Site, while single-family residential homes and agricultural land utilized as orchards appear across Yorba Avenue. S: Francis Avenue appears immediately south of the Site, while agricultural land and single-family residential homes appear across Francis Avenue. W: No significant changes noted.	A(1952) T(1954)
1960	No significant changes were noted on the western portion of the Site, while numerous elongated rectangular structures were observed on the central portion of the Site, presumably utilized in connection with the former rabbit farm that occupied the Site at this time. The eastern portion of the Site is improved with a single-family residential home along the northern boundary, an elongated rectangular structure along the southern boundary and an additional single-family residential home on the southeastern corner of the Site.	N: No significant changes noted. E: No significant changes noted, with the exception of further residential development across Yorba Avenue. S: No significant changes noted. W: No significant changes noted.	A(1964) T(1965)

Decade Starting	Site	Surrounding Properties	Sources
1970	No significant changes noted in the 1972 aerial photograph. The 1977 aerial photograph indicated the majority of the structures located on the western portion of the Site appeared to be demolished down to the building slabs and the structures located on the eastern portion were no longer present. The City Directories list the Site as occupied by "Amer Rex Fur Corp" for the year 1976.	N: The area immediately north of the Site appears as single-family residential homes combined with agricultural land and livestock pens. E: No significant changes noted, with the exception of further residential development across Yorba Avenue. S: Francis Avenue appears immediately south of the Site, while undeveloped vacant land and single-family residential homes appear across Francis Avenue. W: The area immediately west of the Site appears as single-family residential homes combined with agricultural land and livestock pens.	A(1972) T(1973) CD(1976)
1980	No significant changes noted since the 1977 aerial photograph. The City Directories list the Site as occupied by "Alexander Timakas" for the year 1986.	N: No significant changes noted. E: No significant changes noted. S: Francis Avenue appears immediately south of the Site, while a tract of single-family residential homes appear across Francis Avenue. W: No significant changes noted.	A(1980, 1985) T(1981) CD(1986)
1990	The majority of onsite structures that previously improved the western and central portions of the Site appear demolished down to the building slabs, while the eastern portion of the Site appears as undeveloped vacant land. The City Directories list the Site as occupied by "Jose Luis Mulato", "Gift & Craft Excellence" and "AM Pallets/NAPS Pallets" for the years 1991 and 1996.	N: No significant changes noted. E: No significant changes noted. S: No significant changes noted. W: No significant changes noted.	A(1994) CD(1991, 1996)
2000	No significant changes noted, with the exception of a maintenance shed improving the western portion of the Site and a small shed and several elongated rectangular structures previously used to house rabbits improve the central portion of the Site. The Site appears to be improved in its present day configuration. The City Directories list the Site as occupied by "Chin T. Lee" for the year 2001.	N: No significant changes noted. E: No significant changes noted. S: No significant changes noted. W: No significant changes noted.	A(2003, 2005, 2009) CD(2001)
2010	No significant changes noted. The City Directories list the Site as occupied by "William Munzer" for the year 2011.	N: No significant changes noted. E: No significant changes noted. S: No significant changes noted. W: No significant changes noted.	A(2010, 2012, 2014) T(2012) CD(2011)

N= north, E = east, S = south, W= west

Sources:

A = aerial photograph (year in parentheses), MT = multi-tenant retail facility report (year in parentheses), CD = city directory abstract (year in parentheses), T = topographic map (year in parentheses), and NA = not applicable (no sources found).

3.6 PROPERTY HISTORY SUMMARY

Based on a review of historical documentation, the Site was used for residential and agricultural purposes, mainly orchards and dry farming land, from at least 1938 until approximately 1960. In 1960, the central portion of the Site was developed as a rabbit farm that operated until approximately 2002, while the residential parcel of the Site was improved with at least two residential structures by the 1962 aerial photograph. Remnant concrete slabs associated with the rabbit farm are located in the central portion of the Site. Numerous structures, presumably residences, occupied the western portion of the Site from at least 1938 until 1997. The structures were demolished circa 1997; however, the concrete slabs associated with these structures are still present on-Site. The eastern portion of the vacant parcel of the Site was occupied by a residence from at least 1938 until 1977, when it was demolished and has remained vacant land to the present day. After closure of the rabbit farm in 2002, the vacant parcel of the Site has been utilized as grazing land for an adjacent goat farm. Details regarding the history of the Site and surrounding vicinity are provided in Section 3.5.

4.0 SITE RECONNAISSANCE

The objective of the Site reconnaissance is to obtain information indicating the likelihood of identifying RECs in connection with the Site. This includes a description of the exterior and interior of the Site buildings and the general Site setting. Photographs documenting the Site reconnaissance are included in Appendix E.

A Site reconnaissance was completed by Hao Zhang and Carl Lenker of Tetra Tech on July 21, 2016. All exterior areas of the property were accessible at the time of the Site reconnaissance, however, interior portions of the residential units were not accessible at the time of the Site reconnaissance. Weather at the time of the Site reconnaissance was sunny with an ambient air temperature of approximately 85 degrees Fahrenheit.

4.1 METHODOLOGY AND LIMITATIONS

The Site reconnaissance consisted of a visual assessment of the facility and a curbside review of adjacent properties and was conducted consistent with the methodology specified in ASTM 1527-13. The purpose of the Site reconnaissance was to evaluate the Site for evidence of current or previous activities that may have resulted in adverse environmental impacts. The following subsections detail visual observations of the Site and other potential sources of contamination identified during the Site reconnaissance. Site features identified during the Site reconnaissance are illustrated in Figure 2.

4.2 CURRENT PROPERTY USE

The Site consists of approximately 10.67 acres of vacant land utilized as grazing land for a neighboring goat farm and 1.32 acres of residential land improved by three residential structures and other associated features utilized within the residential parcel, totaling to approximately 11.99 acres of acreage utilized at the Site.

4.3 PAST PROPERTY USE

Details regarding the history of the Site and surrounding vicinity are provided in Section 3.5.

4.4 OBSERVATIONS

4.4.1 Interior and Exterior Observations

The western section of the vacant parcel was observed to be improved by numerous small rectangular concrete pads and a maintenance shed utilized for the storage of materials associated with the goats currently grazing the Site. The middle section of the vacant parcel was observed to be improved by numerous elongated concrete slabs and several animal pens associated with the former rabbit farm located on this portion of the Site, bee hives, and a small vacant maintenance shed. The eastern section of the vacant parcel was observed as undeveloped vacant land. One UST was indicated by the presence of observed venting pipes and pumps, and a sump system was observed in the western portion of the vacant parcel of the Site, adjacent to the maintenance shed. Access to the vacant parcel of the Site is provided through two gates; one located along Francis Avenue and the other located along Yorba Avenue.

The residential parcel of the Site consisted of one main residential building, a studio home and patio area, a dry swimming pool, a storage shed, a mobile home, a bird cage area and a horse stable. A construction material storage was observed on the western side of the residential parcel, which included various building materials such as bricks, PVC-piping and metal rebar stored throughout the respective area. An area located southeast of the main residential building was noted as containing an underground septic tank. Additionally, a wood debris pile was observed just south of the reported underground septic tank area. A chain-link fence improves the perimeter of the residential parcel of the Site and access is provided by a gate located on the southern portion of the parcel via Francis Avenue.

The interior portions of Site that were accessible to Tetra Tech at the time of the Site reconnaissance included the northeastern corrugated metal shed, the southern corrugated metal shed and western concrete shed within the

vacant parcel of the Site. The northeastern corrugated metal shed was observed to be of wooden-frame construction with wood exteriors, tin-metal roofing and no observed flooring (exposed dirt). The interior of the northeastern corrugated metal shed consisted of animal previously used animal enclosures, miscellaneous debris/trash with paint buckets and oil cans observed stored within a previous animal enclosure. The southern corrugated metal shed was observed to be of wooden-frame construction with wood/tin-metal exteriors, tin-metal roofing and concrete flooring (concrete pad). The interior of the southern corrugated metal shed consisted of a storage rack housing tarping and miscellaneous debris/trash, while additional debris/trash and plastic tubing presumed to be generated from on-Site uses were observed stored on the concrete ground surface. The western concrete shed was observed to be of wood-frame construction with concrete exteriors, tin-metal roofing and concrete flooring. The interior of the western concrete shed consisted of storage shelves containing various items used on-Site such as a water cooler, weed-sprayer and miscellaneous metal parts and one plastic oil container containing transmission fluid. Three plastic oil containers containing transmission fluid and two spent aerosol cans were observed on the concrete surface directly underneath the storage shelf. The several animal pens located on the southern portion of the Site were observed to be of wood-frame construction with an open-air entry and tinmetal roofing situated on concrete pads, respectively. The interior portions of the animal pens included shelving for metal animal cages. A former basement area constructed of concrete, approximately 10 feet deep was observed southwest of the western concrete shed and contained miscellaneous trash/debris.

4.4.2 Chemical Usage/Waste Storage

Tetra Tech observed storage shelves containing one plastic oil container containing transmission fluid within the interior of the western concrete shed and three plastic oil containers containing transmission fluid and two spent aerosol cans were observed on the concrete surface directly underneath the storage shelf. Tetra Tech observed tires, and miscellaneous debris stored on the eastern and western side of the western concrete shed and a gasoline container and oil container stored on top of a tractor attachment located near the eastern side of the western concrete shed on the southwestern portion of the Site. One wood-debris stockpile was observed near the southern side of the northeastern corrugated metal shed, while two additional wood-debris stockpiles were observed near the southern side of the northeastern corrugated metal shed. A 5-gallon bucket containing waste-oil was observed within the construction materials storage area of the residential parcel of the Site, with no observed leaking or staining noted near the area of the bucket. An area located southeast of the main residential building within the residential parcel was noted as containing an underground septic tank.

No evidence of significant or widespread dumping of materials or chemicals was observed throughout the interior or exterior of the Site. Tetra Tech noted various areas containing accumulated miscellaneous debris that is in need of improved housekeeping (but which does not appear to represent an environmental concern).

4.4.3 Abandoned or Unidentified Containers

No evidence of abandoned or unidentified containers was observed during the Site reconnaissance, with the exception of the containers described in the Section above.

4.4.4 Catch Basins, Pits, Ponds, Lagoons and Drains

Tetra Tech observed no catch basins or pits during the Site reconnaissance. However, a small concrete pit utilized for the slaughter of goats was observed south of the western concrete shed. The 10 foot deep slaughter pit contained green algae water and was improved with a raised concrete wall and metal grate on the top of the concrete walls.

4.4.5 Dry Wells

No evidence of dry wells was observed at the Site during the Site reconnaissance.

4.4.6 Soil Staining

Tetra Tech observed minor oil staining near a parking area north of the western concrete shed. However, this oil staining is likely a *de minimis* condition as to the minor amount of staining noted on top of a concrete pad and was not observed impacting soil. Tetra Tech recommends no further investigation regarding this issue.

4.4.7 Vegetative Stress

No indication of stressed vegetation was apparent during the Site reconnaissance, with the exception of a few dehydrated trees (potentially due to the drought), which does not represent an environmental concern.

4.4.8 Sheens

No evidence of sheens was observed in the locations during the Site reconnaissance.

4.4.9 Soil Disturbance

Tetra Tech observed an area of mulch located east of the northeastern corrugated metal shed, which was apparently lined with gravel to a depth of approximately 4 feet. Tetra Tech also observed an area of depression located in the northeastern corner of the Site, which was observed as an area of undeveloped vacant land with a slight concavity.

4.4.10 Odors

No indication of noticeable odors were observed at the Site or in the vicinity of the neighboring properties visited at the time of the Site reconnaissance.

4.4.11 Underground Storage Tanks

Tetra Tech observed evidence of an approximately 500-gallon UST historically used to store gasoline and/or diesel fuel on the southwest portion of the Site, east of the western concrete shed during the Site reconnaissance. An associated fueling station and vent pipe were observed in the vicinity of the UST. Based on the presence of the UST (a potential REC) Tetra Tech recommended soil sampling at the UST; further details regarding the soil sampling can be found in Section 6. Tetra Tech also observed evidence of a former septic system used in connection with the Site, which included a previous concrete foundation and piping on the southeastern portion of the Site. An area located southeast of the main residential building within the residential parcel was noted as containing an underground septic tank.

4.4.12 Aboveground Storage Tanks

One empty, approximately 100-gallon polyethylene water tank was observed north of the western concrete shed in the southwest portion of the Site.

4.4.13 Oil and Gas Wells/Activities

During the Site reconnaissance, no visual evidence of current or historical oil wells and/or oil and gas activities was observed at the Site or in its immediate vicinity.

4.4.14 Polychlorinated Biphenyl-Containing Materials

One pole-mounted transformer noted immediately east to the Site on Francis Avenue. The transformers are owned by Southern California Edison, which is presumed to be responsible for the clean-up of any leaks or spills from the transformers. No evidence of the presence of leaking that indicated the presence or potential release of polychlorinated biphenyls or materials were observed during the Site reconnaissance. Tetra Tech recommends no further investigation regarding this issue.

4.4.15 Monitoring Wells and Soil Borings

No monitoring wells and soil borings were observed during the Site reconnaissance.

4.4.16 Spills/Releases

Tetra Tech observed no evidence of spills or releases at the Site during the Site reconnaissance.

4.4.17 Surface Debris

No indication of the widespread dumping of debris, household waste or chemical or hazardous materials was observed during the Site reconnaissance. However, several areas of debris were observed throughout the Site and housekeeping on-Site is in need of improvement.

4.4.18 Hydraulic Equipment and Air Compressor Usage

No hydraulic equipment or air compressor usage was observed during the Site reconnaissance.

4.4.19 Asbestos-Containing Materials

Tetra Tech observed no evidence of asbestos-containing materials at the Site during the Site reconnaissance. However, based on the age of the structures (as old as the late 1930's), there is a potential for on-Site structures to contain asbestos-containing materials. Tetra Tech recommends an ACM survey be performed at the Site by a certified professional; Refer to Section 6 for further information regarding the recommendations.

4.4.20 Lead-Based Paint and Other Lead-Containing Materials

Potentially the buildings/structures were previously painted with lead-based paint and that other lead-containing materials could be present at the Site. The limited Phase II of Leighton did identify some lead paint. If LBP is identified and is in poor condition or likely to be disturbed, all identified LBP should be removed in accordance with all applicable laws, including OSHA guidelines, which require, among other things, determining whether any employee will be exposed to lead concentrations at or above permissible levels; or should be managed in-place in accordance with an O&M Plan for LBP.

4.4.21 Lead in Drinking Water

Tetra Tech observed no evidence of an on-Site well used for drinking water supply at the Site. Since the existing commercial/industrial development will likely be connected to the municipal water supply, future drinking water supplied to the Site would be expected to comply with state standards, such that lead is unlikely to be present at elevated levels. Additionally, based on the date of construction of the on-Site buildings, it is unlikely that leaded pipes used for drinking water exist at the Site.

4.4.22 Microbial Growth and Moisture Intrusion

Tetra Tech observed no evidence of potential mold/microbial growth and/or moisture intrusion at the Site.

4.4.23 Waste Disposal

No evidence of waste disposal was observed at the Site during the Site reconnaissance, with the exception of domestic refuse receptacles that were observed at the Site, which do not represent an environmental concern.

4.4.24 Wastewater Discharges

No wastewater discharges were observed during the Site reconnaissance.

4.4.25 Storm Water Discharges

Stormwater drainage was determined to flow to the southwest of the Site. No stormwater discharges were observed during the Site reconnaissance.

4.4.26 Utilities

Overhead power lines were observed running along the south (along Francis Avenue) and east side (along Yorba Avenue) of the Site and temporary power lines were observed running throughout the residential portion of the Site.

Electricity is provided to the Site by Southern California Edison; The Gas Company provides gas utilities to the Site; drinking water is provided to the Site by the City of Chino; and Waste Management provides curbside trash collection and sewer services.

4.5 CURRENT AND PAST USES OF ADJOINING PROPERTIES

The Site is bounded by residential properties and a small scale agricultural and livestock operations to the north and west, the eastern boundary of the Site is bounded by Yorba Avenue and residential properties further across Yorba Avenue, and the southern boundary of the Site is bounded by Francis Avenue and residential properties further across Francis Avenue.

The reconnaissance of the abutting properties from curbside did not reveal the presence of off-Site sources that are considered to be RECs (including CRECs) to the Site and Tetra Tech recommends no further investigation regarding the adjoining properties.

The adjoining properties to the Site were historically noted as agricultural land and single-family residential homes from 1938 to at least 1963 until the primarily residential development of the surrounding area beginning in the 1970's and 1980's.

Past uses of the adjoining properties are discussed in Section 3.4 and in Table 3-2.

5.0 INTERVIEWS

5.1 OWNERS AND OCCUPANTS

A user questionnaire was completed by Mr. Crowder, President of Coastal Commercial Properties. The details of the user questionnaire are discussed in Section 2.4 of this report.

The vacant parcel of the Site is currently owned by William J. Munzer, while the residential parcel of the Site is owned by Joaquin Nava. A questionnaire was provided to Mr. Loren Borstein, Vice President at Borstein to forward to the owners; the questionnaire was not received at the time of the completion of this report. The lack of this information does not represent a significant data gap.

5.2 STATE AND LOCAL GOVERNMENT OFFICIALS

State and local government agencies were contacted for information related to the Site as discussed in Section 3.3. No other interviews with state or local government agency officials were deemed necessary, based on the institutional knowledge of the Site possessed by Tetra Tech. The lack of this information does not represent a significant data gap.

6.0 PHASE II ESA

A Phase II ESA was conducted as part of environmental due diligence activities to evaluate the environmental condition of the Site in response to the RECs or potential RECs identified during the Phase I ESA performed by Tetra Tech. Tetra Tech concludes that this scope of work was sufficient for evaluating the issues identified by the Phase I Environmental Site Assessment.

6.1 OBJECTIVES

The objectives of the Phase II ESA were as follows:

- To evaluate whether contaminants of concern, including TPH associated with the historical UST and former septic tank system are present in soil at levels exceeding regulatory thresholds.
- To evaluate whether contaminants of concern, including OCPs, lead and arsenic associated with historical agricultural activities are present in soil across the Site at levels exceeding regulatory thresholds and to better define/delineate OCP-impacted areas reported by Leighton for potential excavation.

6.2 INVESTIGATION ACTIVITIES

The investigation activities were conducted by Tetra Tech field staff on July 21 and 25, 2016, under the supervision of a California-registered Professional Engineer. Subcontractors utilized included Pacific Coast Locator, Inc. (PCL; geophysical survey), Millennium Environmental, Inc. (MEI; driller), and SunStar Laboratories (Sunstar; laboratory analysis). During this investigation, 50 soil borings were advanced to depths up to 5 feet bgs to determine the presence of OCPs and Arsenic at the Site and five borings were advanced near the existing UST and former septic system to determine the presence of TPHs to 15 feet bgs as described below:

- Advancement of forty-two soil borings up to 5 feet bgs (LB10, LB30, LB43, LB48, LB49, LB52, TtSB-Composite 1 and 2); for detection of OCPs
- Advancement of seven soil borings to 0.5 feet bgs (TtSB-01 to TtSB-07) for detection of arsenic
- Advancement of three soil borings to 15 feet bgs (UST-N, UST-E and UST-S) for detection of TPH
- Advancement of two soil borings up to 10 feet bgs (Septic Tank-1 and Septic Tank-2) for detection of TPH
- Advancement of three soil borings up to 10 feet bgs (Debris-1, Debris-2 and Debris-3); samples were collected but not analyzed

Locations of soil borings are shown on Figure 3.

6.2.1 Pre-Drilling Activities

<u>Underground Services Alert Notification and Marking:</u> Underground Services Alert of Southern California-DigAlert was notified 48 hours in advance to mark the location of public utilities prior to conducting field activities. Utility markings were inspected before advancing the borings to ensure locations were not situated in close proximity to potential underground utilities.

<u>Geophysical Surveying:</u> PCL, a geophysical surveying company conducted a survey for buried underground utilities and anomalies using ground-penetrating radar and electromagnetics on Site and adjusted proposed boring locations to avoid encountering potential underground utilities.

<u>Preparation of a Site-specific Health and Safety Plan:</u> A Site-specific health and safety plan was prepared for the Site, in accordance with Federal regulations to identify and describe the potentially hazardous substances that may be encountered during our field work, specify protective clothing and monitoring equipment to be used during on-Site activities; and outline measures to be implemented in the event of an emergency or changes in field conditions. All on-Site personnel involved in the investigation, including subcontractors, were required to acknowledge the

health and safety plan following a daily tailgate meeting. Work was conducted within the guidelines of the approved health and safety plan and under the supervision of a California-registered professional geologist.

6.2.2 Soil Sampling Program

MEI personnel advanced 50 soil boring locations (listed above in Section 6.2). The 50 borings were completed to selected depths of 0.5, 1.5, 2.5, 5.0, 7.5, 10, 12.5, and 15 feet bgs using a Geoprobe® 6600 truck mounted direct-push drill rig equipped with a dual-tube sampling system. Each location was hand augured to a total depth up to 4 feet bgs to hand clear the boring of utilities prior to starting direct push sampling. Soil samples were collected from borings locations in laboratory provided 4-ounce jars or 1 ½-inch diameter acetate sleeves and immediately sealed with Teflon® tape and capped, labeled and placed into an ice-chilled cooler. A portion of soil from each sample was used for field-screening for VOCs using a photoionization detector (PID), and logging soils in general accordance with the Unified Soil Classification System (USCS). Soil samples were also evaluated in the field for visual and olfactory evidence of contamination. Following the completion of each boring, the borings were backfilled with soil cuttings supplemented with hydrated bentonite and patched to match the surrounding surface and grade to the extent practical.

Discrete soil samples were collected from each boring at depths of 0.5 and 2.5 feet bgs, and at 2.5 foot intervals below in deeper borings.

Select soil samples were composited in two groups based on DTSC Interim Guidance for Sampling Agricultural Properties, dated August 7, 2008 to assess soil conditions across the Site related to the historical agricultural Site use. The following composite samples were collected:

- TtSB-Composite1-0.5 (COMP-1): TtSB-1-0.5, TtSB-2-0.5, TtSB-3-0.5 and TtSB-4-0.5
- TtSB-Composite2-0.5 (COMP-2): TtSB-5-0.5, TtSB-6-0.5 and TtSB-7-0.5

Soil samples were transported under proper Chain-of-Custody protocol to Sunstar Laboratories, a California-certified analytical laboratory. In general, the two 0.5 feet bgs grid composite samples were analyzed for OCPs by USEPA Method 8081A; three select discrete grid soil boring samples collected at 0.5 feet bgs were also analyzed for arsenic by USEPA Method 6010B. Discrete soil samples for the first and second step-out (10 and 20 feet from the center boring location) of LB10, LB30, LB43, LB48, LB49, and LB52 were analyzed for OCPs by USEPA Method 8081A. Select depth-discrete soil samples collected from the existing UST were analyzed for TPH by USEPA Method 8015C, VOCs by USEPA Method 8260B, and lead by USEPA Method 6010B. Select depth discrete soil samples collected from the former septic tank borings were analyzed for TPH by USEPA Method 8015C. The remaining soil samples collected from borings were placed on-hold pending the initial soil sampling results. Laboratory results of analyzed soil samples are summarized in Tables 1 and 2.

6.3 RESULTS

6.3.1 Field Observations

The following summarizes the observations made during the field activities, including general soil observations and PID readings.

- Lithology types observed during the drilling activities typically consisted of sandy silt, gravely sand, silty sand.
- Groundwater was not encountered during this investigation.
- PID readings recorded from soil samples collected ranged from 0.0 ppm to 5.0 ppm (UST-N).

6.3.2 Laboratory Analytical Results

Laboratory analytical results for the soil samples are summarized below and in Tables 1 and 2. The complete laboratory analytical reports with chain-of-custody documentation is included in Appendix F.

6.3.2.1 Soil Results

Tables 1 and 2 contain a summary of soil analytical results. The following summarizes the analytical results of the soil samples:

6.3.2.1.1 Composite Soil Sample Results:

Organochlorine Pesticides

No OCPs were detected above the laboratory reporting limit for the two composite soil samples, TtSB-Composite 1-0.5 and TtSB-Composite 2-0.5.

6.3.2.1.2 Discrete Soil Sample Results

Total Petroleum Hydrocarbons

TPH-Gas (TPH-G), TPH-Diesel (TPH-D), and TPH-oil (TPH-O) were not detected above the laboratory reporting limits (10 mg/kg) in the three soil samples analyzed surrounding the UST area: UST-E-15, UST-S-15, UST-N-15. And in the two soil samples analyzed at the potential septic tank area Septic Tank-1-7.5 and Septic Tank 2-7.5. The applicable laboratory reporting limits for TPH-G, TPH-D, and TPH-O are below their respective residential soil RSL.

Volatile Organic Compounds

 VOCs were not detected above the laboratory reporting limits (varies) in the three soil samples analyzed surrounding UST area UST-E-15, UST-S-15, UST-N-15. The applicable laboratory reporting limits for VOCs are below their respective residential soil RSL.

Metals - Lead

 Lead was not detected above the laboratory reporting limit (3 mg/kg) in the three soil samples analyzed surrounding the UST area UST-E-15, UST-S-15, UST-N-15. The applicable laboratory reporting limit for lead is below its respective residential soil RSL.

Organochlorine Pesticides

- Aldrin was reported only in LB48-E1-0.5 at a concentration of 14 μg/kg, which is below residential and commercial/industrial RSLs.
- Gamma-BHC (Lindane) was reported only in LB30-N1-0.5 at a concentration of 5.6 μg/kg, which is below residential and commercial/industrial RSLs.
- 4,4'-DDD was reported only in LB52-E-0.5 at a concentration of 8.0 μg/kg, which is below residential and commercial/industrial RSLs.
- 4,4'-DDE was detected above the laboratory reporting limit in 12 of the 57 discrete samples tested, at concentrations ranging from 5.9 μg/kg (LB48-S1-0.5) to 100 μg/kg at LB30-S1-0.5. All detections of 4,4'-DDE are reported below the established RSLs for residential and industrial soil.
- 4,4'-DDT was detected above the laboratory reporting limit in 10 of the 57 discrete samples tested. The
 detected concentrations ranged from 7.1 μg/kg at LB49-E1-0.5 to 110 μg/kg at LB30-S1-0.5. All detections
 of 4,4'-DDT are reported below the RSL for residential and industrial soil.
- Dieldrin was detected above the laboratory reporting limit in 24 of the 57 discrete samples tested. The detected concentrations ranged from 5.1 μg/kg at LB48-W2-2.5 to 2000 μg/kg at LB48-E1-0.5. The concentration reported in four soil samples LB43-W1-0.5, LB48-N1-1.5, LB48-N1-5.0, and LB49-E1-0.5 exceed the residential RSL of 34 μg/kg; the concentration reported in eleven soil samples LB48-E1-0.5, LB48-E1-2.5, LB48-E1-5.0, LB48-E2-2.5, LB48-W1-0.5, LB48-S1-0.5, LB48-S1-1.5, LB48-N1-0.5, LB49-W1-0.5, LB49-S1-0.5, LB52-E-0.5 exceed the commercial/industrial soil RSL of 130 μg/kg.
- Endrin was detected above the laboratory reporting limit in 3 of the 57 samples tested. The detected concentrations ranged from 6.2 μg/kg at LB48-W1-0.5 to 170 μg/kg at LB48-E1-0.5. All detections of Endrin are reported below the established RSL for residential and commercial/industrial soil.

- Endosulfan sulfate was detected above the laboratory reporting limit in 1 of the 57 discrete samples tested in LB52-E-0.5 at a concentration of 14 µg/kg. Endosulfan sulfate currently does not have an established RSL for residential and commercial/industrial soil.
- Endrin ketone was detected above the laboratory reporting limit in 4 of the 57 discrete samples tested. The
 detected concentrations ranged from 6.1 μg/kg at LB48-E1-2.5 to 120 μg/kg at LB48-E1-0.5. All detections
 of endrin ketone are reported below the established RSLs for residential and commercial/industrial soil.

Metals - Arsenic

Arsenic was not reported above the detection limit of 5 mg/kg in the soil samples analyzed. Note, this
detection limit is below the Department of Toxic Substances Control (DTSC) arsenic background level for
Southern California of 12 mg/kg. Further, the previous Phase II Letter of Findings by Leighton stated that
arsenic was not detected above regulatory limits.

Laboratory analytical results for soil samples are presented in Tables 1 and 2, and in the laboratory report provided in Appendix F.

6.4 DISCUSSION OF RESULTS

Based on the analytical results of this investigation, Tetra Tech concludes the following:

- OCPs, including 4,4'-DDE, 4,4'-DDT, and dieldrin, were detected in shallow soils throughout the southwestern portion of the Site. Exceedances of residential and commercial/industrial RSLs were reported for detected concentrations of dieldrin along the southern and western portions of the Site. Tetra Tech proposed soil excavation for areas LB30, LB43, LB48, LB49, and LB52 to approximately 5 feet bgs. Further sampling of soil will be necessary during excavation in the southern (LB52) and western (LB48) portions of the Site where exceedances were determined (Figure 4).
- For the UST area, TPH-G, TPH-D and TPH-O, VOCs, and lead were not detected above laboratory reporting limits in the soil samples analyzed at 15 feet bgs during investigation activities (i.e., the results were "non-detect"), which laboratory detection limits were below respective residential and commercial/industrial RSLs. Results revealed that the primary chemicals of concern associated with the USTs (i.e. TPH and VOCs) are not present in soil and/or soil vapor at the historical UST locations at concentrations exceeding regulatory thresholds and do not represent a significant vapor intrusion risk to future residential Site occupants. Based on these results, Tetra Tech concluded the historical UST does not present a REC. Tetra Tech recommends no further investigation regarding this issue. However, Tetra Tech recommends completing the required agency documentation for the removal of the UST and associated piping, and obtaining concurrence in the form of a closure letter for the UST after removal.
- A portion of the former septic system/tank on the southeastern portion of the Site was identified during our Phase II investigation. TPH-G, TPH-D, and TPH-O were not detected above laboratory reporting limits in the soil samples analyzed at 7.5 feet bgs during investigation activities (i.e., the results were "non-detect"), which laboratory detection limits were below respective residential and commercial/industrial RSLs. It is not considered a REC based on the TPH results from two borings to 7.5 feet bgs near the septic tank. The septic tank system does not represent an environmental concern to the Site but should be removed per the appropriate regulatory agency overseeing the removal. Otherwise, Tetra Tech recommends no further investigation regarding this issue.
- Although the debris piles identified in the northeastern portion of the Site appear unlikely to represent an
 environmental concern, geotechnical investigation should be conducted to identify soil stability and integrity
 for future construction and development.

7.0 FINDINGS AND CONCLUSIONS

7.1 SUMMARY OF FINDINGS

Tetra Tech has performed a Phase I and Phase II Environmental Site Assessment (ESA) in conformance with the scope and limitations of ASTM Practice E1527-13 of the Site. Any exceptions to, or deletions from, this practice are described in Section 1.4 of this report.

The Site consists of approximately 10.67 acres of vacant land utilized as grazing land for a neighboring goat farm and 1.32 acres of residential land improved by three residential structures and other associated features utilized within the residential parcel, totaling approximately 11.99 acres. The vacant parcel of the Site is currently owned by William J. Munzer, while the residential parcel of the Site is owned by Joaquin Nava. The vacant parcel of the Site is roughly divided into three sections: 1) the western section, 2) the middle section, and 3) the eastern section. The western section of the parcel was observed to be improved by numerous small rectangular concrete pads and a maintenance shed utilized for storage of materials associated with the goats currently grazing the Site. The middle section of the vacant parcel was observed to be improved by numerous elongated concrete slabs and several animal pens associated with the former rabbit farm located on this portion of the Site, bee hives, and a small vacant maintenance shed. The eastern section of the vacant parcel was observed as undeveloped vacant land (Figure 2).

Based on a review of historical documentation, the Site was used for residential and agricultural purposes, mainly orchards and dry farming land, from at least 1938 until approximately 1960. In 1960, the central portion of the Site was developed as a rabbit farm that operated until approximately 2002, while the residential parcel of the Site was improved with at least two residential structures by the 1962 aerial photograph. Remnant concrete slabs associated with the rabbit farm are located in the central portion of the Site. Numerous structures, presumably residences, occupied the western portion of the Site from at least 1938 until 1997. The structures were demolished circa 1997; however, the concrete slabs associated with these structures are still present onsite. The eastern portion of the vacant parcel of the Site was occupied by a residence from at least 1938 until 1977, when it was demolished and has remained vacant land to the present day. After closure of the rabbit farm in 2002, the vacant parcel of the Site has been utilized as grazing land for an adjacent goat farm.

Tetra Tech conducted a Site reconnaissance on July 21, 2016. At the time of the Site reconnaissance, the Site was consisted of approximately 10.67 acres of vacant land utilized as grazing land for a neighboring goat farm and 1.32 acres of residential land improved by three residential structures and other associated features utilized within the residential parcel, totaling to approximately 11.99 acres of acreage utilized at the Site. Based on the Tetra Tech's observations of the accessible areas of the Site, Tetra Tech observed a historical UST and concrete pit present in the southwest portion of the Site (vacant parcel) and septic tank utilized on the residential parcel of the Site.

Based on our review of available regulatory environmental records, Tetra Tech did not identify vicinity properties that are interpreted to present a significant environmental concern to the Site.

7.2 RECOGNIZED ENVIRONMENTAL CONDITIONS

Section 3.2.78 of ASTM Standard E1527-13 defines RECs as the "presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not recognized environmental conditions."

We have performed a Phase I/II ESA in conformance with the scope and limitations of ASTM Practice E1527-13 of the Site. Any exceptions to, or deletions from, this practice are described in Section 6.6 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the Site, with the exception of the following:

Historical Agricultural Use. Based on the historical documentation, the Site was used for residential and agricultural purposes, mainly orchards and dry farming, from at least 1938 until approximately 1960. Accordingly, the noted agricultural use on-Site may have included contaminants of concern, such as OCPs and arsenic, which have impacted soil in the undeveloped portions of the Site. Previous Leighton reports confirmed this as a REC. Therefore, Tetra Tech recommended and performed further subsurface investigation to determine the potential impacts of OCPs (in particular Dieldrin) impacting soil at the Site. Results of the investigation indicate that under a future residential land use, additional excavation and removal of the impacted soil will need to be performed. (Figure 4).

7.3 HISTORICAL RECOGNIZED ENVIRONMENTAL CONDITIONS

Section 3.2.42 of ASTM Standard E1527-13 defines HRECs as "a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (e.g., property use restrictions, activity and use limitations [AULs], institutional controls or engineering controls)." Before calling the past release an HREC, the Environmental Professional (EP) must determine whether the past release is a REC at the time the Phase I ESA is conducted (e.g., if there has been a change in the regulatory criteria). If the EP considers this past release to be a REC at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a REC."

This assessment has revealed no HRECs in connection with the Site.

7.4 CONTROLLED RECOGNIZED ENVIRONMENTAL CONDITIONS

Section 3.2.18 of ASTM Standard E1527-13 defines CRECs as an "a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority (e.g., as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances allowed to remain in place subject to the implementation of required controls. A condition considered by the environmental professional to be a CREC shall be listed in the findings section of the ESA and as a REC in the conclusions section of the ESA."

No CRECs were identified in connection with the Site during the completion this Phase I ESA.

7.5 NON-ASTM ENVIRONMENTAL ISSUES

Tetra Tech identified the following non-ASTM environmental issues associated with the Site:

ACM and LBP. Based on the age of the onsite structures, it is possible that asbestos-containing building
materials (ACM) and/or lead-based paint (LBP) may be present in building materials. An ACM and LBP
survey should be completed on any structures prior to any activities with the potential to disturb suspect or
presumed ACM or painted surfaces.

In addition, Tetra Tech has identified the following de minimis conditions associated with the Site:

- A portion of the former septic system/tank on the southeastern portion of the Site was identified during our Phase II investigation. The Phase II subsurface investigation data collected to date indicates the septic system/tank is not a REC, and Tetra Tech recommends no further investigation regarding this issue. In connection with site development activities, however, the septic tank should be removed for off-site disposal in accordance with all applicable laws.
- An additional septic tank was identified on the residential portion of the Site, located southeast of the main residential building. The septic tank appears unlikely to represent an environmental concern to the Site, but should be removed for off-site disposal, in accordance with all applicable laws, in connection with site development activities.

7.6 LIMITATIONS AND EXCEPTIONS OF ASSESSMENTS

This report is prepared for the sole use of Chino Francis Estates, LLC and its affiliates pursuant the MSA between Chino Francis Estates, LLC and Tetra Tech dated July 18, 2016 and scope of work dated July 19, 2016, and is based on review of the available data, as described herein, in accordance with generally accepted professional practices, applicable to work of similar nature and complexity at similar localities, at the time the services were performed. No warranty, expressed or implied, is made.

The scope of this report is limited in nature and intended to provide an evaluation of the current known environmental conditions at the Site at the time of the report. Tetra Tech assumes no responsibility for conditions of which it is unaware and/or as to which there was no opportunity or request for review.

It is important to recognize that even the most comprehensive scope of services may not detect all the environmental liabilities at a particular Site. Therefore, nothing herein shall be construed as a representation or certification that the Site is either fully characterized or is free of environmental impairments and/or contamination.

To conduct the ESA for this report, Tetra Tech evaluated the readily available information. Tetra Tech cannot, however, warrant or guarantee either the accuracy or the comprehensiveness of such information. Tetra Tech does not warranty concurrence of a regulatory agency with the opinions and conclusions presented herein.

7.6.1 Data Failures, Data Gaps, and Other Opinions

Through the course of this assessment, Tetra Tech may have encountered data failures or data gaps. These failures or gaps, if any, are discussed below. The following provides the opinion of the EP as to the significance of the data gaps in terms of defining recognized environmental conditions at the Site. Data failures may or may not be significant data gaps, and the discussion also provides information pertaining to whether the data failures resulted in significant data gaps.

7.6.1.1 Data Failures

Data failure is a failure to achieve the historical (property use) research objectives specified in the ASTM Standard Practice even after reviewing the standard historical sources that are reasonably ascertainable and likely to be useful. Data failure is one type of data gap.

Tetra Tech identified no data failures during the course of this Phase I ESA.

7.6.1.2 Data Gaps

A data gap is a lack of or inability to obtain information required by the ASTM Standard Practice, despite good faith efforts by the EP to gather such information. This could include any component of the Practice, e.g., standard environmental records, interviews, or a complete reconnaissance. A data gap by itself is not inherently significant, but if other information and/or the EP's experience raise reasonable concerns about the gap, it may be judged to be significant.

Tetra Tech identified the lack of environmental records from SBCPHD and CSBBD for the Site as data gaps for the Site. However, these data gaps are not considered significant based on other regulatory and environmental records databases searched for the Site and Tetra Tech considers it unlikely that any further regulatory records would alter the conclusions or recommendations of this report.

8.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONALS

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR 312. We have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the property (Appendix H). We have developed and performed all the appropriate inquires in conformation with the standards and practices set forth in 40 CFR Part 312.

Preparation of this Report was conducted by the following Tetra Tech personnel:

Tomoki Demers

Environmental Scientist

Jome Duck

Review of the Report was performed by the following Tetra Tech personnel:

Jay R. Neuhaus, P.G. Principal Geologist JAY R. NEUHAUS
No. 5501
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9.0 REFERENCES

Resources Consulted:

- Environmental Risk Information Service Ltd. (ERIS), Database Report, dated July 21, 2016.
- ERIS Historical Aerial Photographs: 1938, 1947, 1952, 1964, 1972, 1980, 1985, 1994, 2003, 2005, 2009, 2010, 2012 and 2014, dated July 22, 2016.
- ERIS City Directories: 1976-1981, 1972 and 1986-2011 dated July 25, 2016.
- ERIS Historical USGS Topographic Quadrangle Maps: 1897, 1900, 1903, 1928, 1933, 1942, 1954, 1967, 1973, 1981 and 2012, dated July 21, 2016.
- ERIS Sanborn Fire Insurance Map Research Results Report, dated July 22, 2016.

Regulatory Agencies Contacted:

- Santa Ana Regional Water Quality Control Board (Geotracker website)
- Cal/EPA Department of Toxic Substances Control (Envirostor website)
- San Bernardino County Public Health Department, Environmental Health Services (SBCPHD)
- South Coast AQMD (FINDS Database)
- City of Chino Building Department (CCBD)
- County of San Bernardino Building Department (CSBBD)
- Division of Oil, Gas, and Geothermal Resources (DOGGR; Well Finder online database)
 United States Fish & Wildlife Service Nation Wetlands Inventory (USFWS; Wetlands Mapper online database)

Documents:

- ASTM, "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process," ASTM Designation E 1527-13, 2013.
- Department of Toxic Substances Control, "Determination of Southern California Regional Background for Arsenic in Soils", Chernoff, G., Oudiz, D.,
- Leighton and Associates, Inc. 2014. Phase I Environmental Site Assessment, 4570 Francis Avenue, Chino, CA. Dated January 10, 2014.
- Leighton and Associates, Inc. 2015. Phase II Site Assessment, 4570 Francis Avenue, Chino, CA. Dated March 30, 2015.

TABLES

Table 1 - Summary of Detected Total Petroleum Hydrocarbons in Soil

4570 Francis Avenue Chino, California

			ТРН І	oy USEPA Method ((mg/kg)	Lead by USEPA	VOCs by USEPA	
Sample ID	Sample Date	Sample Depth (feet bgs)	C6-C12 (GRO)	C13-C28 (DRO)	C29-C40 (MORO)	Method 6010B (mg/kg)	Method 8260B (μg/kg)
UST-E-15	07/25/16	15.0	<10	<10	<10	<3.0	ND
UST-S-15	07/25/16	15.0	<10	<10	<10	<3.0	ND
UST-N-15	07/25/16	15.0	<10	<10	<10	<3.0	ND
Septic Tank-1-7.5	07/25/16	7.5	<10	<10	<10		
Septic Tank-2-7.5	07/25/16	7.5	<10	<10	<10		
0	Land-Use Scenario						
Screening Levels	Res	idential	82	110	2,500	400	Varies
FeAGI2	Commercial/Industrial		420	600	33,000	800	Varies

Notes:

bgs	Below ground surface
mg/kg	Milligram per kilogram
μg/kg	Microgram per kilogram
GRO	Gasoline range organic
DRO	Diesel range organic
MORO	Motor oil range organic
TPH	Total petroleum hydrocarbon
USEPA	United States Environmental Protection Agency
VOCs	Volatile Organic Compounds
<	Denotes concentration is less than the laboratory reporting limit indicated
	Denotes analysis was not run for sample location; not applicable
RSL	Regional Screening Level
ND	Non-detect
	Denotes concentration is greater than the RSL for a residential land-use scenario
	Denotes concentration is greater than the RSL for both residential and commercial/industrial land-use scenarios

References:

1 "Regional Screening Level (RSL) Summary Table - May 2016" (USEPA, 2016)



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Table 2 - Summary of Detected Organochlorine Pesticides in Soil

4570 Francis Avenue Chino, California

				Organochlorine Pesticides by USEPA Method 8081A (μg/kg)									
Sample ID	Sample Type	Sample Date	Sample Depth (feet bgs)	Aldrin	gamma-BHC (Lindane)	4,4′-DDD	4,4′-DDE	4,4′-DDT	Dieldrin	Endrin	Endosulfan Sulfate	Endrin ketone	Arsenic by USEPA Method 6010B (mg/kg)
LB10-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB10-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB30-E1-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	19	14	<5.0	<5.0	<5.0	<5.0	
LB30-E2-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB30-W1-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB30-S1-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	100	110	6.0	<5.0	<5.0	<5.0	
LB30-S2-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	16	9.6	<5.0	<5.0	<5.0	<5.0	
LB30-N1-0.5	Discrete	07/21/16	0.5	<5.0 <5.0	5.6	<5.0	10	< 5.0	10	<5.0	<5.0	<5.0	
LB43-E1-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	<5.0	<5.0	9.7	<5.0	<5.0	<5.0	
LB43-E1-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0 <5.0	<5.0	<5.0 <5.0	5.7 < 5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	
LB43-E2-2.5	Discrete	07/21/16	2.5	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	
LB43-W1-0.5	Discrete	07/21/16	0.5	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	5.7	11	56	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	
LB43-W1-0.5	Discrete	07/21/16	2.5	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	< 5.0	<5.0	<5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	
	Discrete	07/21/16	2.5	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	
LB43-W2-2.5									8.1				
LB43-S1-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0	
LB43-S1-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB43-S2-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB43-N1-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB43-N1-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB43-N2-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB48-E1-0.5	Discrete	07/21/16	0.5	14	<5.0	<5.0	38	40	2,000	170	<5.0	120	
LB48-E1-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	1,200	<5.0	<5.0	6.1	
LB48-E1-5.0	Discrete	07/21/16	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	420	<5.0	<5.0	<5.0	
LB48-E2-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	490	<5.0	<5.0	<5.0	
LB48-E2-5.0	Discrete	07/21/16	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB48-W1-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	8.1	9.4	1,300	6.2	<5.0	16	
LB48-W1-1.5	Discrete	07/21/16	1.5	<5.0	<5.0	<5.0	<5.0	<5.0	19	<5.0	<5.0	<5.0	
LB48-W1-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	28	<5.0	<5.0	<5.0	
LB48-W1-5.0	Discrete	07/21/16	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.1	<5.0	<5.0	<5.0	
LB48-W2-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB48-W2-5.0	Discrete	07/21/16	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB48-S1-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	5.9	12	330	<5.0	<5.0	<5.0	
LB48-S1-1.5	Discrete	07/21/16	1.5	<5.0	<5.0	<5.0	<5.0	<5.0	180	<5.0	<5.0	<5.0	
LB48-S1-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB48-S1-5.0	Discrete	07/21/16	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB48-S2-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB48-S2-5.0	Discrete	07/21/16	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB48-N1-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	<5.0	<5.0	160	<5.0	<5.0	<5.0	
LB48-N1-1.5	Discrete	07/21/16	1.5	<5.0	<5.0	<5.0	<5.0	<5.0	47	<5.0	<5.0	<5.0	
LB48-N1-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 <5.0	<5.0	<5.0	
LB48-N1-5.0	Discrete	07/21/16	5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	43	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	1
LB48-N2-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB48-N2-5.0	Discrete	07/21/16	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB49-E1-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	12	7.1	120	<5.0	<5.0	<5.0	
LB49-E1-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB49-E2-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB49-W1-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	6.9	7.7	530	<5.0	<5.0	<5.0	



1 of 2

Table 2 - Summary of Detected Organochlorine Pesticides in Soil

4570 Francis Avenue Chino, California

					Organochlorine Pesticides by USEPA Method 8081A (μg/kg)								
Sample ID	Sample Type	Sample Date	Sample Depth (feet bgs)	Aldrin	gamma-BHC (Lindane)	4,4′-DDD	4,4′-DDE	4,4′-DDT	Dieldrin	Endrin	Endosulfan Sulfate	Endrin ketone	Arsenic by USEPA Method 6010B (mg/kg)
LB49-W1-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	9.8	<5.0	<5.0	<5.0	
LB49-S1-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	45	22	180	<5.0	<5.0	<5.0	
LB49-S1-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB49-S2-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB49-N1-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB49-N1-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB49-N2-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB52-E-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	8.0	12	<5.0	270	9.4	14	16	
LB52-W-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB52-S-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	<5.0	<5.0	7.3	<5.0	<5.0	<5.0	
TtSB-Composite1-0.5	Composite	07/25/16		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
TtSB-01-0.5	Discrete	07/25/16	0.5							<5.0			
TtSB-04-0.5	Discrete	07/25/16	0.5										<5.0
TtSB-Composite2-0.5	Composite	07/25/16		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
TtSB-07-0.5	Discrete	07/25/16	0.5				1		1				<5.0
	•	Land-Us	e Scenario				USEPA RSLs (μg/kg)¹						(mg/kg)
Screening Le	vels		idential	39	570	2,300	2,000	1,900	34	19,000	NG	NG	0.68
		Commerci	al / Industrial	180	2,500	9,600	9,300	8,500	140	250,000	NG	NG	3.0

bgs	Below ground surface
μg/kg	Micrograms per kilogram
mg/kg	Milligrams per kilogram
DDD	Dichlorodiphenyldichloroethane
DDE	Dichlorodiphenyldichloroethylene
DDT	Dichlorodiphenyltrichloroethane
NG	No guidance
RSL	Regional Screening Level
USEPA	United States Environmental Protection Agency
<	Denotes concentration is less than the method detection limit indicated
	Denotes analysis was not run for sample location; not applicable
Bold	Denotes concentration is greater than or equal to the laboratory reporting limit
	Denotes concentration is greater than the RSL for a residential land-use scenario
	Denotes concentration is greater than the RSL for both residential and commercial/industrial land-use scenarios

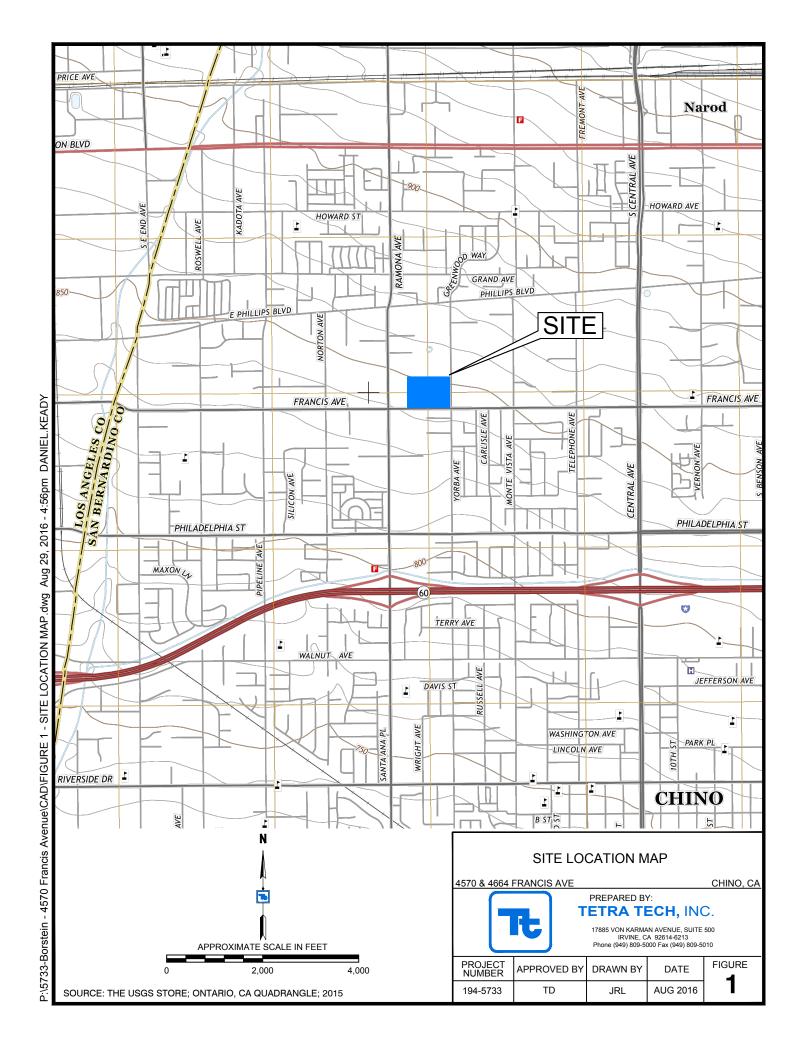
References:

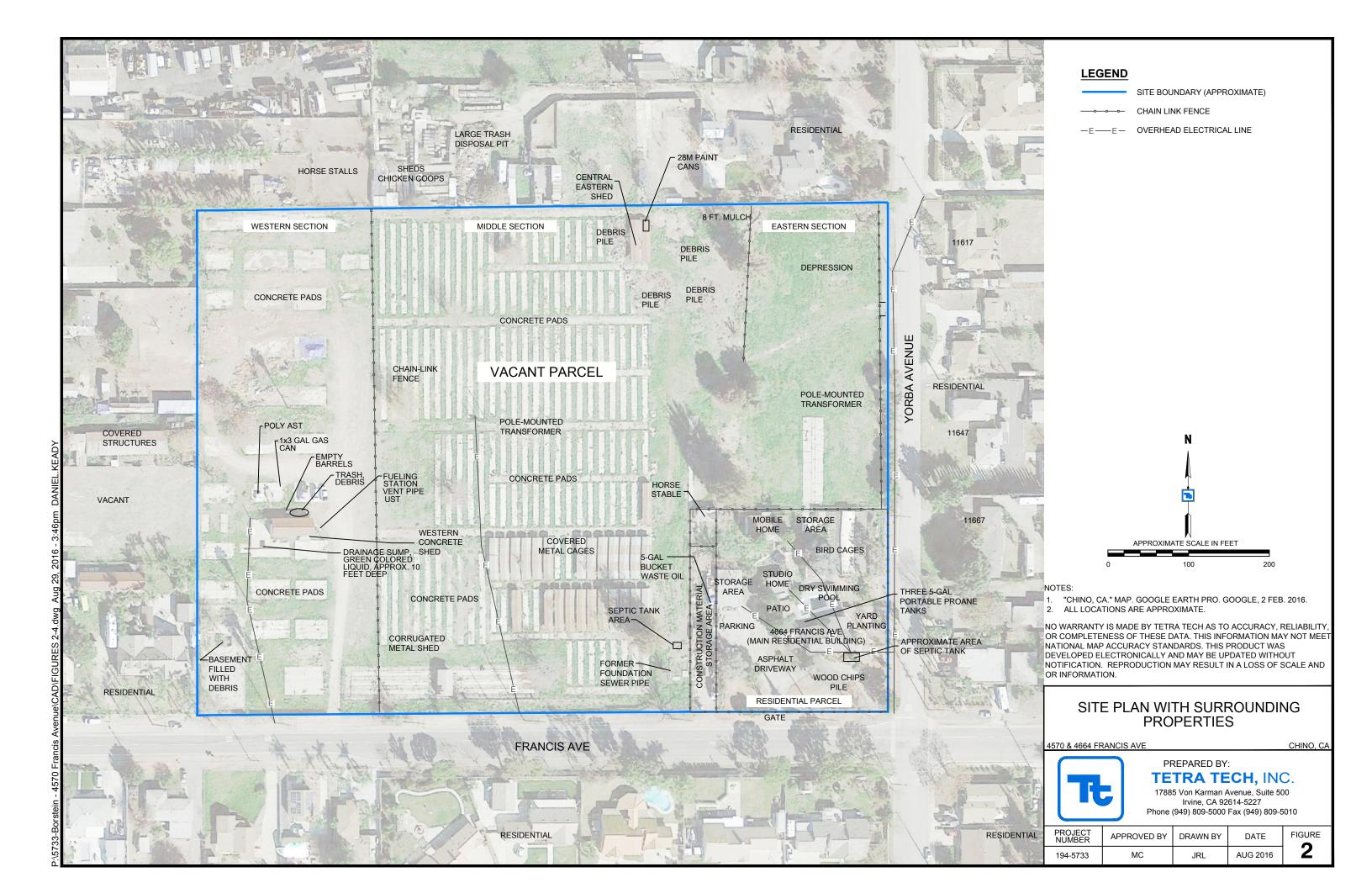
"Regional Screening Level (RSL) Summary Table - May 2016" (USEPA, 2016)

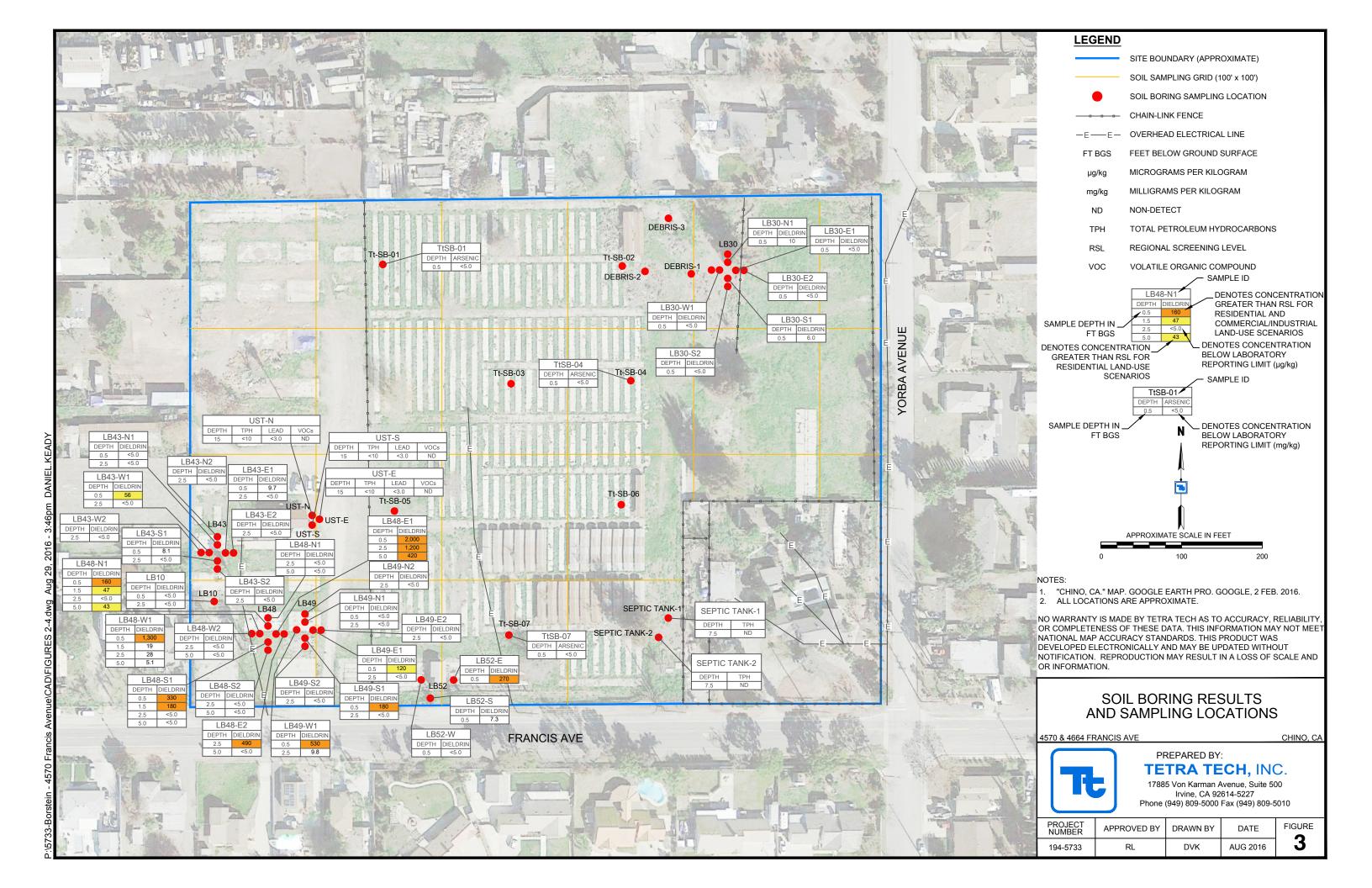


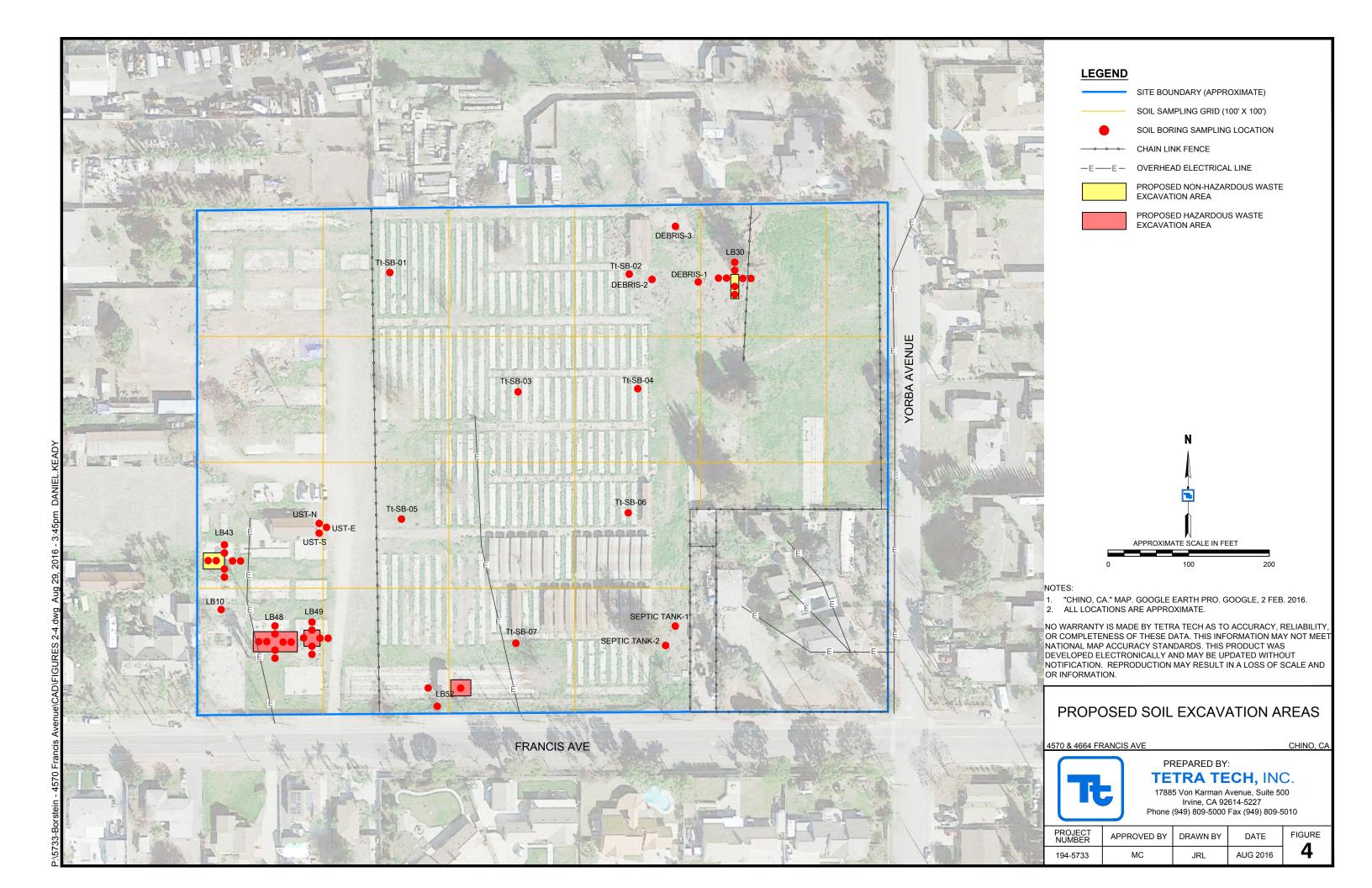
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FIGURES









APPENDIX A – USER AND OWNER/OCCUPANT QUESTIONNAIRES

USER QUESTIONNAIRE FOR PHASE I ENVIRONMENTAL SITE ASSESSMENT

Instructions for User Questionnaire:

1. Please complete the following questionnaire, sign, date, and return to:

Tetra Tech

17885 Von Karman Avenue, Suite 500

Irvine, CA, 92614 Phone: (949) 809-5000 Fax: (949) 809-5004

2. Wherever you answer "YES" please provide all relevant information either on the following pages or provide copies of relevant documents, reports, documents, and/or correspondence.

- 3. If you cannot provide the answer to a question, please indicate a person to contact who would be able to provide this information and include contact information for this individual (phone number, e-mail, etc.).
- 4. This questionnaire is intended for the User to provide Tetra Tech, Inc. with the information required to comply with ASTM E1527-13.
- 5. The User of the Phase I Environmental Site Assessment may not be able to qualify as an innocent landowner under the ASTM standard unless the information in this questionnaire is provided.
- 6. Please provide complete copies of all prior reports for the property to Tetra Tech. If already provided to Tetra Tech, please note.
- 7. Please note that this completed questionnaire will be included in the appendix of the Phase I Environmental Site Assessment report to be issued by Tetra Tech, Inc. By signing, dating, and returning this document to Tetra Tech, Inc., you are acknowledging and agreeing to the inclusion of this document in Tetra Tech Inc.'s Phase I ESA report.

USER QUESTIONNAIRE FOR PHASE I ENVIRONMENTAL SITE ASSESSMENT

Site Name: CHINO FRANCIS	
Address(es): 4570 FRANCIS AUE	
City, State, Zip Code: 44ND, CA 917	110
APN(s): 1013 - 211 - 21, 1013 - 211	- 22
Reason for Phase I ESA: PESIOENTIAL	LEUZ LOPMENT
<u>Signature</u> :	
Signature	Print Name and Title
Company Name (Please Print)	8/17/16 Date

Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?
Yes No
If yes, please provide as much detail as possible about the liens against the property and provide copies of any related reports or paperwork.
Activity and land use limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26) Are you aware of any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal,
tribal, state or local law? Yes No
Yes No_X
tribal, state or local law? Yes No If yes, please provide as much detail as possible about the AULs present and provide copies of
tribal, state or local law? Yes No If yes, please provide as much detail as possible about the AULs present and provide copies of
tribal, state or local law? Yes No If yes, please provide as much detail as possible about the AULs present and provide copies of
tribal, state or local law? Yes No If yes, please provide as much detail as possible about the AULs present and provide copies of

properties?	For example, are you involved in the same line of business as the current or to the property or an adjoining property so that you would have specialized knowlicals and processes used by this type of business?
Yes	No
If yes, plea	se provide as much detail as possible about the specialized knowledge or expectopies of any related reports or paperwork.
- to be a	
	ip of the purchase price to the fair market value of the property if it we
Does the p property?	ip of the purchase price to the fair market value of the property if it we ted (40 CFR 312.29) archase price being paid for this property reasonably reflect the fair market value of you conclude that there is a difference, have you considered whether the rice is because contamination is known or believed to be present at the property?
Does the p property? purchase p	rchase price being paid for this property reasonably reflect the fair market value f you conclude that there is a difference, have you considered whether the
Does the p property? purchase p Yes If yes, plea	archase price being paid for this property reasonably reflect the fair market value f you conclude that there is a difference, have you considered whether the rice is because contamination is known or believed to be present at the property?
Does the p property? purchase p Yes Yes If yes, plea	archase price being paid for this property reasonably reflect the fair market value of you conclude that there is a difference, have you considered whether the rice is because contamination is known or believed to be present at the property? No se provide as much detail as possible about the difference between the expect
Does the p property? purchase p Yes Yes If yes, plea	archase price being paid for this property reasonably reflect the fair market value of you conclude that there is a difference, have you considered whether the rice is because contamination is known or believed to be present at the property? No se provide as much detail as possible about the difference between the expect
Does the p property? purchase p Yes If yes, plea	archase price being paid for this property reasonably reflect the fair market value of you conclude that there is a difference, have you considered whether the rice is because contamination is known or believed to be present at the property? No se provide as much detail as possible about the difference between the expect

Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR

3.

312.30) Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example: (a.) Do you know the past uses of the property? No (b.) Do you know of specific chemicals that are present or once were present at the property? No____ (c.) Do you know of spills or other chemical releases that have taken place at the property? (d.) Do you know of any environmental cleanups that have taken place at the property? No X Yes If yes, please provide as much detail as possible and provide copies of any related reports or paperwork. Pasr (406). 6. The degree of obviousness of the presence of likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31) Based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of releases at the property? Yes If yes, please provide as much detail as possible about the indicators of releases, and provide copies of any related reports or paperwork.

Commonly known or reasonably ascertainable information about the property (40 CFR

5.

7. Is/Are/Were there any of the following?

	YEŞ	NO
Chain-of-Title Report	<u> </u>	
Environmental Liens/Activity and Use Limitations (AULs)		X
Hazardous Materials Business Plan		<u>×</u>
Emergency Response Plan		<u>~</u>
Spill Prevention Control and Contingency (SPCC) Plan		
Community Right-to-Know Plan	W	<u> x</u>
Environmental Assessments (complete copies including all appendices)		
Risk Assessments (complete copies including all appendices)		<u> </u>
Compliance Audits		<u>×</u>
Environmental Permits / Registrations for Aboveground / Underground Storage Tanks		*
Wastewater Storage / Treatment Systems, Hazardous Materials / Waste, and		
National Pollution Discharge Elimination System (NPDES)		
Governmental Environmental Agency Notices of Violation (NOVs)		7
Regulatory Agency Correspondence		~
Notices/Conditions of Non-Compliance with Environmental Regulations		* * * * *
Pending, Threatened, or Past Environmental Litigation		*
Pending, Threatened, or Past Environmental Administrative Proceedings		4
Material Safety Data Sheets (MSDSs)		<u> </u>
Hazardous Waste Manifests / Reports		7
Hydrogeological Reports		
Geotechnical Reports		
Historic Maps or Drawings		×
Aerial Photographs		*
Historical Photographs		X
Fire Insurance Maps	**************************************	¥
		,

If you answered YES to any of the items on this questionnaire, please provide all information and copies of relevant documents to Tetra Tech or note if already provided to Tetra Tech.

APPENDIX B – ERIS REGULATORY DATABASE REPORT AND HISTORICAL DOCUMENTATION



HISTORICAL AERIAL REPORT

for the site:

Borstein Phase I ESA 4570 Francis Avenue Chino, CA PO #:

Report ID: 20160720091 Completed: 7/22/2016 **Ecolog ERIS Ltd.**

Environmental Risk Information Service (ERIS) A division of Glacier Media Inc.

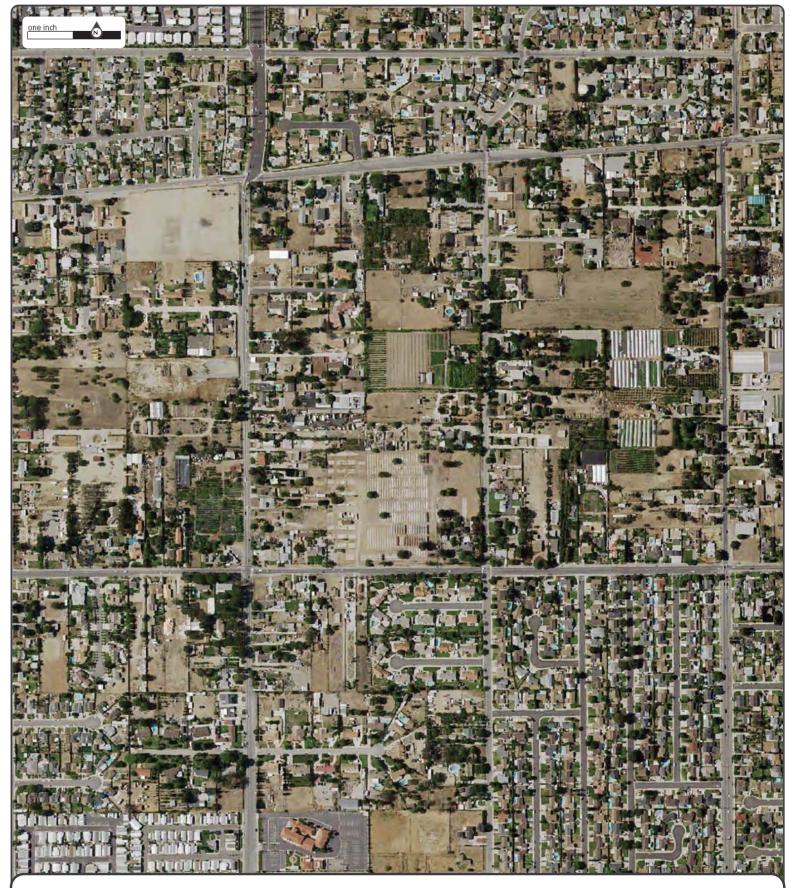
P: 1.866.517.5204 E: info@erisinfo.com

www.erisinfo.com



Search Results Summary

Date	Source	Scale	Comment
2014	NAIP - National Agriculture Information Program	1"=500'	
2012	NAIP - National Agriculture Information Program	1"=500'	
2010	NAIP - National Agriculture Information Program	1"=500'	
2009	NAIP - National Agriculture Information Program	1"=500'	
2005	NAIP - National Agriculture Information Program	1"=500'	
2003	NAIP - National Agriculture Information Program	1"=500'	
1994	USGS - US Geological Survey	1"=500'	
1985	NHAP - National High Altitude Photography	1"=500'	
1980	USGS - US Geological Survey	1"=500'	
1972	USGS - US Geological Survey	1"=500'	
1964	USGS - US Geological Survey	1"=500'	
1952	USGS - US Geological Survey	1"=500'	
1947	USGS - US Geological Survey	1"=500'	
1938	ASCS - Agriculture and Soil Conservation Service	1"=500'	

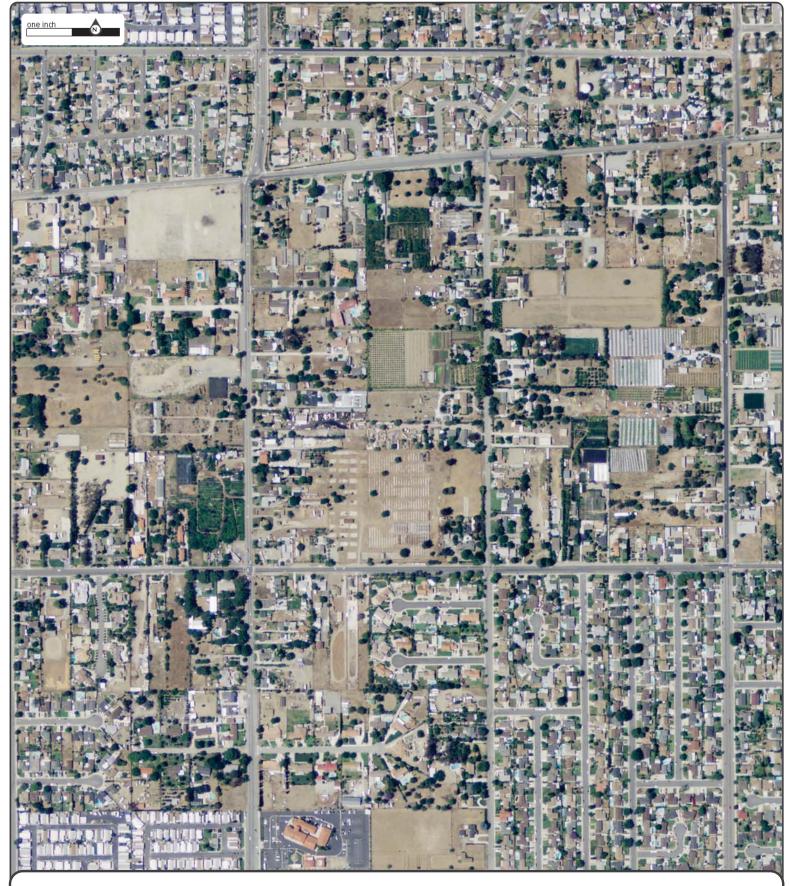


Date: 2014 Source: NAIP Scale: 1" to 500'

Comments:

N

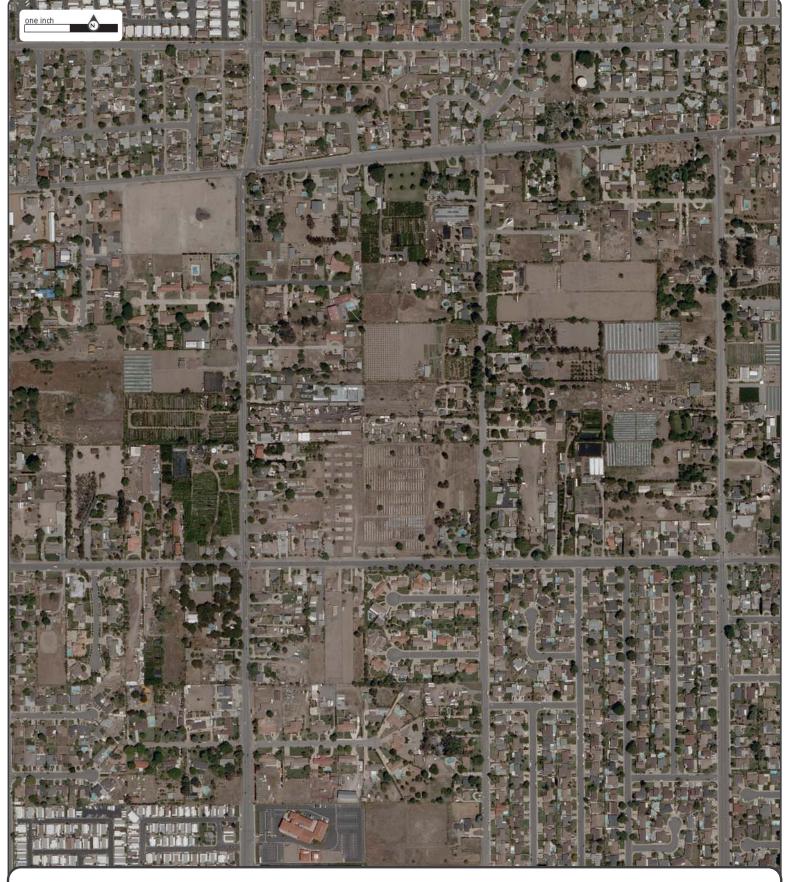




Date: 2012 Source: NAIP Scale: 1" to 500'



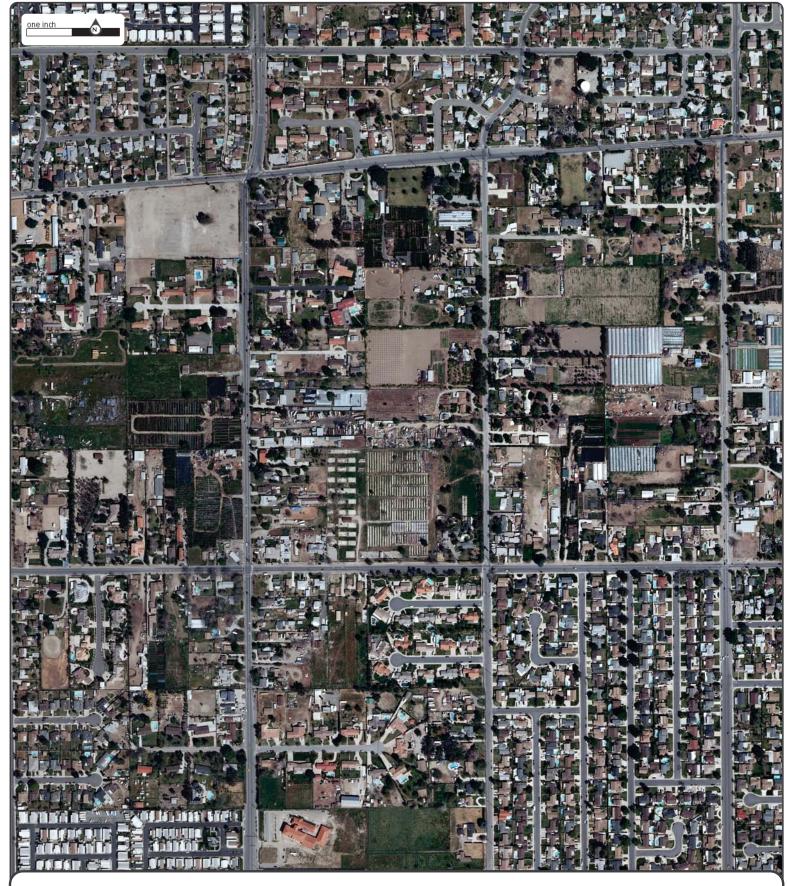




Date: 2010 Source: NAIP Scale: 1" to 500'



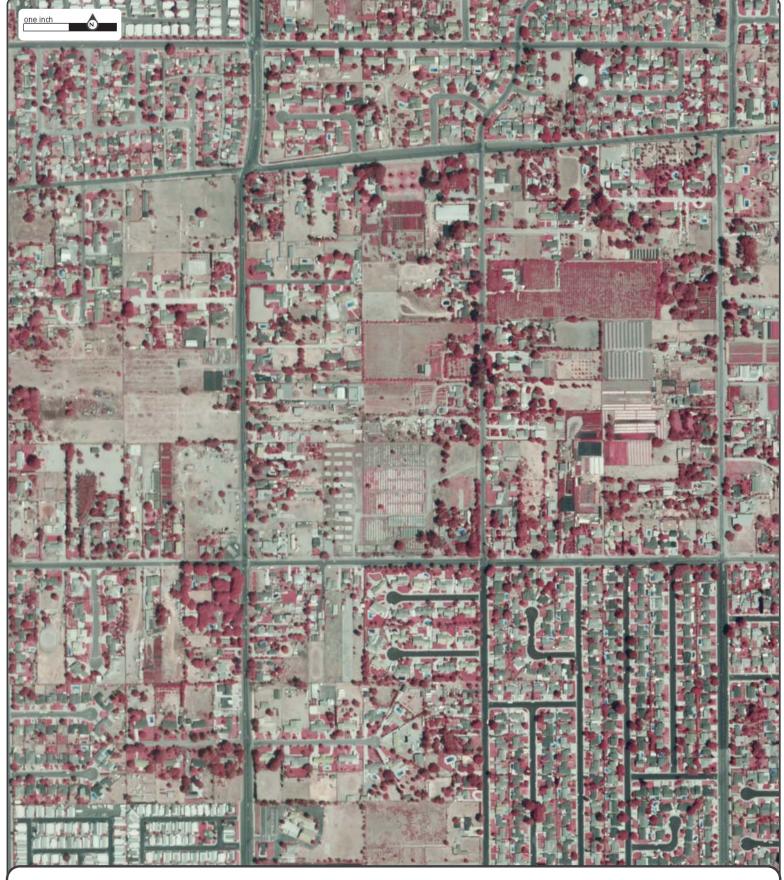




Date: 2009 Source: NAIP Scale: 1" to 500'



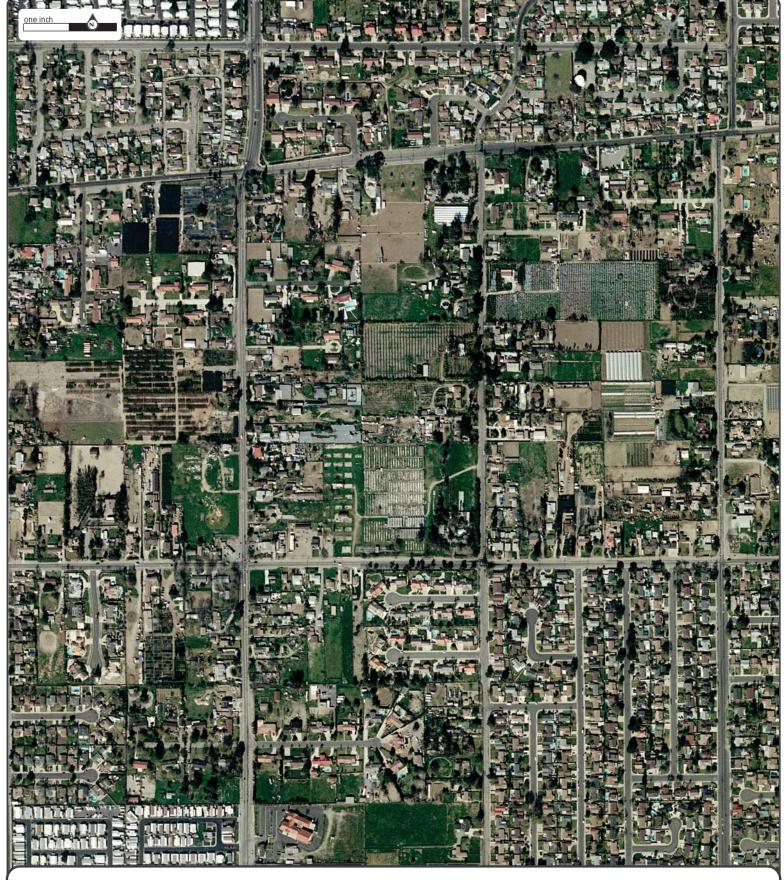




Date: 2005 Source: NAIP Scale: 1" to 500'



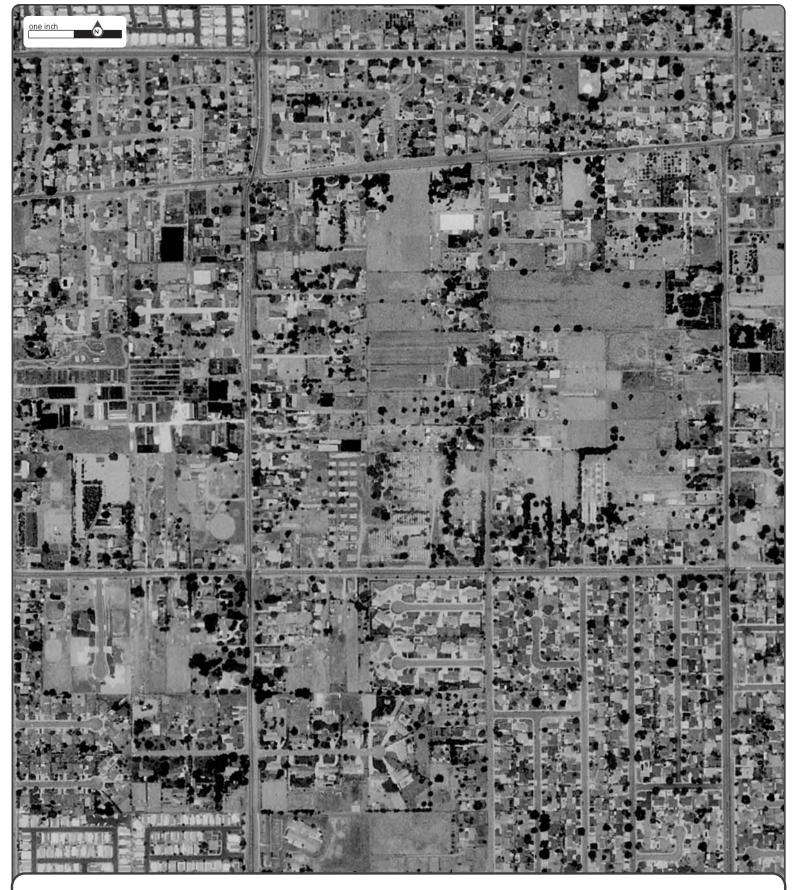




Date: 2003 Source: NAIP Scale: 1" to 500'







Date: 1994 Source: USGS Scale: 1" to 500'







Date: 1985
Source: NHAP
Scale: 1" to 500'

Comments:

Subject: 4570 Francis Avenue Chino CA Approx Center: 34.04173 / -117.7042







Date: 1980 Source: USGS Scale: 1" to 500'







1972 USGS 1" to 500' Date: Source: Scale:

Comments:

Subject: 4570 Francis Avenue Chino CA Approx Center: 34.04173 / -117.7042







Date: 1964 Source: USGS Scale: 1" to 500'







Date: 1952 Source: USGS Scale: 1" to 500'

Comments:

Subject: 4570 Francis Avenue Chino CA Approx Center: 34.04173 / -117.7042





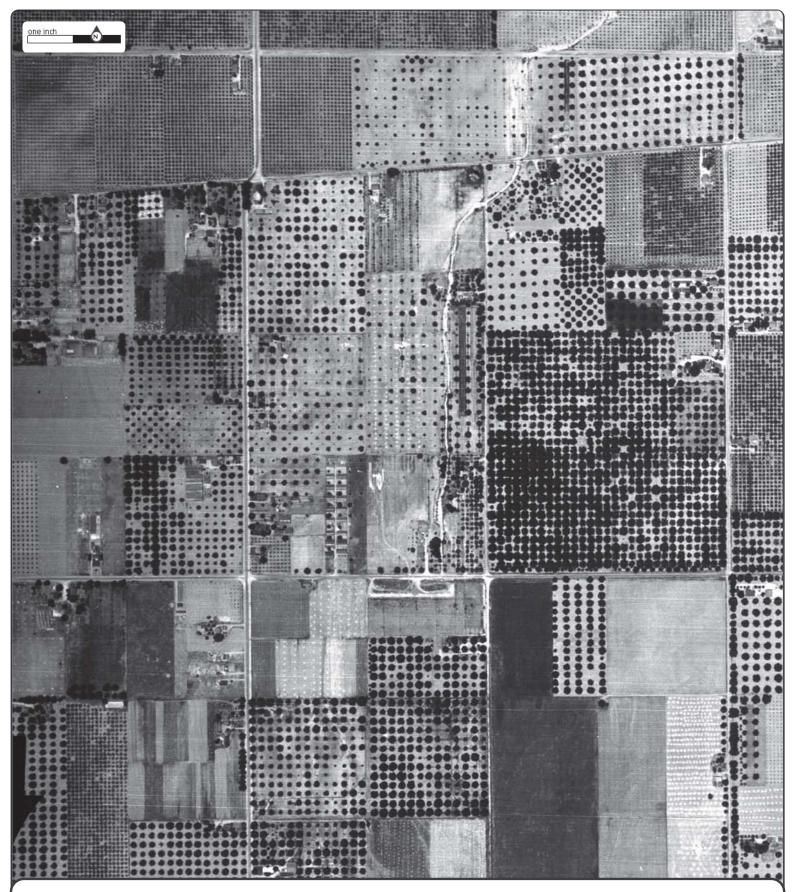


Date: 1947 Source: USGS Scale: 1" to 500'

Comments:

N





Date: 1938 Source: ASCS Scale: 1" to 500'

Comments:

N









Project Property: Borstein Phase I ESA

4570 Francis Avenue

Chino CA

Project No: 1125388

Report Type: Database Report

Order No: 20160720091

Requested by: Tetra Tech

Date Completed: July 21, 2016

Ecolog ERIS Ltd.

Environmental Risk Information

Service Ltd. (ERIS)

A division of Glacier Media Inc.

P: 1.866.517.5204 E: info@erisinfo.com

www.erisinfo.com

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Executive Summary

Property Information:

Project Property: Borstein Phase I ESA

4570 Francis Avenue Chino CA

Project No: 1125388

Coordinates:

Latitude: 34.041736 Longitude: -117.704227 UTM Northing: 3,767,007.18

UTM Easting: 3,767,007.18
UTM Easting: 434,997.39
UTM Zone: UTM Zone 11S

Elevation: 838 FT

Order Information:

Order No: 20160720091

Date Requested: July 20, 2016

Requested by: Tetra Tech

Report Type: Database Report

Ancillary Products:

Aerial Photographs Historical Aerials
City Directory Search 2 Street Search

Fire Insurance Maps

US Fire Insurance Maps

Physical Setting Report (PSR) PSR

Topographic Maps

Topographic Maps

Executive Summary: Report Summary

Dat	dabase	Searched	Search Radius	Project Property	Within 0.12mi	0.12mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
Sta	andard Environmental Records			. reperty	V	0.20			
Fee	deral								
	NPL	Υ	1	0	0	0	0	0	0
	PROPOSED NPL	Υ	1	0	0	0	0	0	0
	DELETED NPL	Υ	.5	0	0	0	0	-	0
	SEMS	Υ	.5	0	0	0	0	-	0
	SEMS ARCHIVE	Υ	.5	0	0	0	0	-	0
	CERCLIS	Υ	.5	0	0	0	0	-	0
	CERCLIS NFRAP	Υ	.5	0	0	0	0	-	0
	CERCLIS LIENS	Υ	PO	0	-	-	-	-	0
	RCRA CORRACTS	Υ	1	0	0	0	0	0	0
	RCRA TSD	Υ	.5	0	0	0	0	-	0
		Y	.25	0	0	0	-	-	0
	RCRA LQG	Y	.25	0	0	0	_	-	0
	RCRA SQG	Y	.25	0	0	0	_	-	0
	RCRA CESQG	Y						_	
	RCRA NON GEN		.25	0	0	0	-	-	0
	FED ENG	Y	.5	0	0	0	0	-	0
	FED INST	Υ	.5	0	0	0	0	-	0
	ERNS 1982 TO 1986	Y	PO	0	-	-	-	-	0
	ERNS 1987 TO 1989	Υ	PO	0	-	-	-	-	0
	ERNS	Υ	PO	0	-	-	-	-	0
	FED BROWNFIELDS	Υ	.5	0	0	0	0	-	0
Sta	ate								
	RESPONSE	Υ	1	0	0	0	0	0	0
	ENVIROSTOR	Y	1	0	0	0	0	1	1
	SWF/LF	Υ	.5	0	0	0	0	-	0
	HWP	Y	1	0	0	0	0	0	0
	LDS	Υ	.5	0	0	0	0	-	0
	LUST	Υ	.5	0	0	0	0	-	0
	DLST	Y	.5	0	0	0	0	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.12mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
UST	Υ	.25	0	0	0	-	-	0
AST	Υ	.25	0	0	0	-	-	0
DELISTED TNK	Y	.25	0	0	0	-	-	0
UST CLOSURE	Y	.25	0	0	0	-	-	0
HHSS	Y	.25	0	1	0	-	-	1
LUR	Y	.5	0	0	0	0	-	0
HLUR	Y	.5	0	0	0	0	-	0
DEED	Y	.5	0	0	0	0	-	0
VCP	Y	.5	0	0	0	0	-	0
CLEANUP SITES	Y	.5	0	0	0	0	-	0
Tribal								
INDIAN LUST	Υ	.5	0	0	0	0	-	0
INDIAN UST	Υ	.25	0	0	0	-	-	0
DELISTED ILST	Y	.5	0	0	0	0	-	0
DELISTED IUST	Υ	.25	0	0	0	-	-	0
County								
ALAMEDA LOP	Y	.5	0	0	0	0	-	0
ALAMEDA UST	Y	.25	0	0	0	-	-	0
AMADOR CUPA	Y	.25	0	0	0	-	-	0
BUTTE CUPA	Y	.25	0	0	0	-	-	0
CALAVERAS CUPA	Y	.25	0	0	0	-	-	0
CALAVERAS LF	Y	.5	0	0	0	0	-	0
CALAVERAS LUST	Y	.5	0	0	0	0	-	0
COLUSA CUPA	Y	.25	0	0	0	-	-	0
CONTRACO CUPA	Y	.25	0	0	0	-	-	0
DELNORTE CUPA	Y	.25	0	0	0	-	-	0
ELDORADO CUPA	Y	.25	0	0	0	-	-	0
FRESNO CUPA	Y	.25	0	0	0	-	-	0
HUMBOLDT CUPA	Y	.25	0	0	0	-	-	0
IMPERIAL CUPA	Y	.25	0	0	0	-	-	0
INYO CUPA	Υ	.25	0	0	0	-	-	0
KERN CUPA	Υ	.25	0	0	0	-	-	0
KERN UST	Υ	.25	0	0	0	-	-	0
KINGS CUPA	Y	.25	0	0	0	-	-	0
LAKE CUPA	Y	.25	0	0	0	-	-	0
ELSEGUNDO UST	Y	.25	0	0	0	-	-	0
TORRANCE UST	Y	.25	0	0	0	-	-	0
LA HMS	Y	.25	0	0	0	-	-	0
LA LONGB UST	Y	.25	0	0	0	-	-	0
LA SWF	Υ	.5	0	0	0	0	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.12mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
MADERA CUPA	Y	.25	0	0	0	-	-	0
MARIN CUPA	Y	.25	0	0	0	-	-	0
MERCED CUPA	Y	.25	0	0	0	-	-	0
MONO CUPA	Y	.25	0	0	0	-	-	0
MONTEREY CUPA	Υ	.25	0	0	0	-	-	0
NAPA UST	Υ	.25	0	0	0	-	-	0
NEVADA CUPA	Υ	.25	0	0	0	-	-	0
ORANGE AST	Υ	.25	0	0	0	-	-	0
ORANGE UST	Υ	.25	0	0	0	-	-	0
PLACER CUPA	Υ	.25	0	0	0	-	-	0
RIVERSIDE LOP	Υ	.5	0	0	0	0	-	0
RIVERSIDE UST	Υ	.25	0	0	0	-	-	0
SACRAMENTO HAZ	Υ	.5	0	0	0	0	-	0
SACRAMENTO TOX	Y	.5	0	0	0	0	-	0
SANBERN CUPA	Y	.25	0	1	0	-	-	1
SANDIEGO HAZ	Y	.25	0	0	0	-	-	0
SANDIEGO SAM	Y	.5	0	0	0	0	-	0
SANDIEGO SWF	Y	.5	0	0	0	0	-	0
SANFRAN AST	Y	.25	0	0	0	-	-	0
SANFRAN CUPA	Y	.25	0	0	0	-	-	0
SANFRAN LOP	Y	.5	0	0	0	0	-	0
SANFRAN UST	Y	.25	0	0	0	-	-	0
SANJOAQUIN AST	Y	.25	0	0	0	-	-	0
SANJOAQUIN UST	Y	.25	0	0	0	-	-	0
SANJOAQUIN HW	Y	.5	0	0	0	0	-	0
SANMATEO CUPA	Y	.25	0	0	0	-	-	0
SANMATEO LOP	Y	.5	0	0	0	0	-	0
SANTACLARA CUPA	Y	.25	0	0	0	-	-	0
SANTACLARA LO	Y	.5	0	0	0	0	-	0
SANTACRUZ CUPA	Y	.25	0	0	0	-	-	0
SANLUISOB CUPA	Y	.25	0	0	0	-	-	0
SHASTA CUPA	Y	.25	0	0	0	-	-	0
SOLANO CUPA	Y	.25	0	0	0	-	-	0
SOLANO LOP	Y	.5	0	0	0	0	-	0
SOLANO UST	Y	.25	0	0	0	-	-	0
SONOMA CUPA	Υ	.25	0	0	0	-	-	0
SONOMA LOP	Υ	.5	0	0	0	0	-	0
SONOMA PETAL	Y	.25	0	0	0	-	-	0
SUTTER CUPA	Y	.25	0	0	0	-	-	0
TUOLUMNE CUPA	Y	.25	0	0	0	-	-	0
VENTURA CUPA	Υ	.25	0	0	0	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.12mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
OXNARD CUPA	Υ	.25	0	0	0	-	-	0
VENTURA INUST	Υ	.25	0	0	0	-	-	0
VENTURA HLUFT	Υ	.5	0	0	0	0	-	0
YOLO UST	Υ	.25	0	0	0	-	-	0
YUBA CUPA	Υ	.25	0	0	0	-	-	0
BKRSFIELD CUPA	Υ	.25	0	0	0	-	-	0
SANTACLARA GIL	Υ	.25	0	0	0	-	-	0
ALPINE CUPA	Υ	.25	0	0	0	-	-	0
GLENN CUPA	Υ	.25	0	0	0	-	-	0
LASSEN CUPA	Υ	.25	0	0	0	-	-	0
MARIPOSA CUPA	Υ	.25	0	0	0	-	-	0
PLUMAS CUPA	Υ	.25	0	0	0	-	-	0
SISKIYOU CUPA	Υ	.25	0	0	0	-	-	0
STANISLAUS CUPA	Υ	.25	0	0	0	-	-	0
TRINITY CUPA	Υ	.25	0	0	0	-	-	0
TULARE CUPA	Υ	.25	0	0	0	-	-	0
Additional Environmental Basanda								
Additional Environmental Records								
Federal								
FINDS/FRS	Υ	PO	0	-	-	-	-	0
TRIS	Υ	PO	0	-	-	-	-	0
HMIRS	Υ	.125	0	0	-	-	-	0
NCDL	Υ	PO	0	-	-	-	-	0
ODI	Υ	.5	0	0	0	0	-	0
IODI	Υ	.5	0	0	0	0	-	0
TSCA	Υ	.125	0	0	-	-	-	0
HIST TSCA	Υ	.125	0	0	-	-	-	0
FTTS ADMIN	Υ	PO	0	-	-	-	-	0
FTTS INSP	Υ	PO	0	-	-	-	-	0
PRP	Υ	PO	0	-	-	-	-	0
SCRD DRYCLEANER	Υ	.5	0	0	0	0	-	0
ICIS	Υ	PO	0	-	-	-	-	0
FED DRYCLEANERS	Υ	.25	0	0	0	-	-	0
FUDS	Υ	1	0	0	0	0	0	0
MLTS	Υ	PO	0	-	-	-	-	0
HIST MLTS	Υ	PO	0	-	-	-	-	0
State								
	Υ	.25	0	0	0	-	-	0
DRYCLEANERS	Υ	1	0	0	0	0	0	0
INSP COMP ENF	Υ	.125	0	0	-	-	-	
CDL	Y	. 123	0	0	0	0	0	0
SCH	ī	1	U	U	U	U	U	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.12mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
CHMIRS	Y	PO	0	-	-	-	-	0
SWAT	Y	.5	0	0	0	0	-	0
HAZNET	Y	PO	0	1	-	-	-	1
CDO/CAO	Y	.5	0	0	0	0	-	0
HIST CHMIRS	Y	PO	0	-	-	-	-	0
HIST MANIFEST	Υ	PO	0	-	-	-	-	0
Tribal No Tribal additional environmental record sources available for the							for this Stat	te.
County								
LA SML	Y	.5	0	0	0	0	-	0
RIVERSIDE HZH	Y	.125	0	0	-	-	-	0
RIVERSIDE HWG	Y	.125	0	0	-	-	-	0
SANJOAQUIN HM	Y	.125	0	0	-	-	-	0
VENTURA HAZR	Y	.5	0	0	0	0	-	0
HW INACTIVE	Υ	.5	0	0	0	0	-	0
DELISTED COUNTY	Υ	.25	0	0	0	-	-	0
	Total:		0	3	0	0	1	4

^{*} PO – Property Only
* 'Property and adjoining properties' database search radii are set at 0.25 miles.

Executive Summary: Site Report Summary - Project Property

Map DB Company/Site Name Address Dir/Dist mi Elev Page Key diff ft Number

No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist mi	Elev Diff ft	Page Number
1	HAZNET	OTIS KING	11589 YORBA AVE CHINO CA 91710	NE/0.02	7	<u>16</u>
<u>2</u>	SANBERN CUPA	HOLT GARDEN CENTER	11602 RAMONA AVE CHINO CA 91710	WNW/0.08	0	<u>16</u>
<u>3</u>	HHSS	M AND M MARKET	4494 FRANCIS ST CHINO CA 91710	WSW/0.09	-6	<u>17</u>
4	ENVIROSTOR	CHINO EARLY EDUCATION CENTER	4562 AND 4578 PHILADELPHIA STREET CHINO CA 91710	S/0.50	-38	<u>17</u>

Executive Summary: Summary by Data Source

Standard

State

ENVIROSTOR - EnviroStor Database

A search of the ENVIROSTOR database, dated Apr 28, 2016 has found that there are 1 ENVIROSTOR site(s) within approximately 1.00 miles of the project property.

Equal/Higher Elevation	<u>Address</u>	<u>Direction</u>	Distance mi	Map Key
Lower Elevation	Address	<u>Direction</u>	Distance mi	<u>Map Key</u>
CHINO EARLY EDUCATION CENTER	4562 AND 4578 PHILADELPHIA STREET CHINO CA 91710	S	0.50	<u>4</u>

HHSS - Historical Hazardous Substance Storage Information Database

A search of the HHSS database, dated Aug 27, 2015 has found that there are 1 HHSS site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	<u>Address</u>	<u>Direction</u>	Distance mi	<u>Map Key</u>
Lower Elevation	Address	Direction	Distance mi	Map Key
Lower Lievation	<u>Address</u>	Direction	Distance iiii	<u>iviap ney</u>
M AND M MARKET	4494 FRANCIS ST CHINO CA 91710	WSW	0.09	<u>3</u>

County

SANBERN CUPA - San Bernardino County CUPA List

A search of the SANBERN CUPA database, dated Apr 13, 2016 has found that there are 1 SANBERN CUPA site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	<u>Address</u>	<u>Direction</u>	<u>Distance mi</u>	<u>Map Key</u>
-------------------------------	----------------	------------------	--------------------	----------------

Lower Elevation	<u>Address</u>	Direction	<u>Distance mi</u>	<u>Map Key</u>
HOLT GARDEN CENTER	11602 RAMONA AVE CHINO CA 91710	WNW	0.08	<u>2</u>

Non Standard

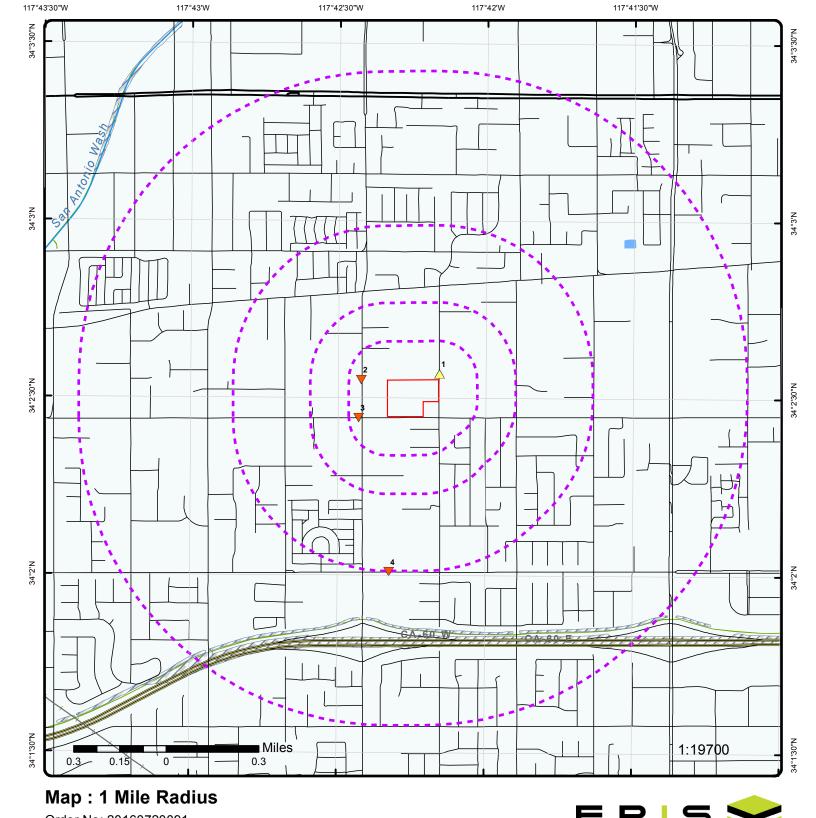
State

HAZNET - Hazardous Waste Manifest Data

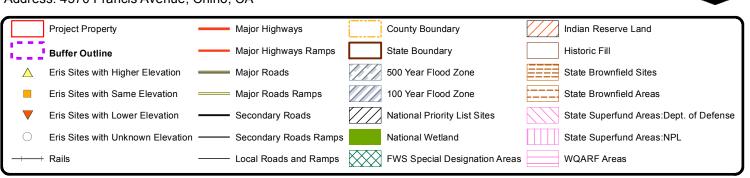
A search of the HAZNET database, dated Oct 2,2015 has found that there are 1 HAZNET site(s) within approximately 0.02 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance mi</u>	<u>Map Key</u>
OTIS KING	11589 YORBA AVE CHINO CA 91710	NE	0.02	1

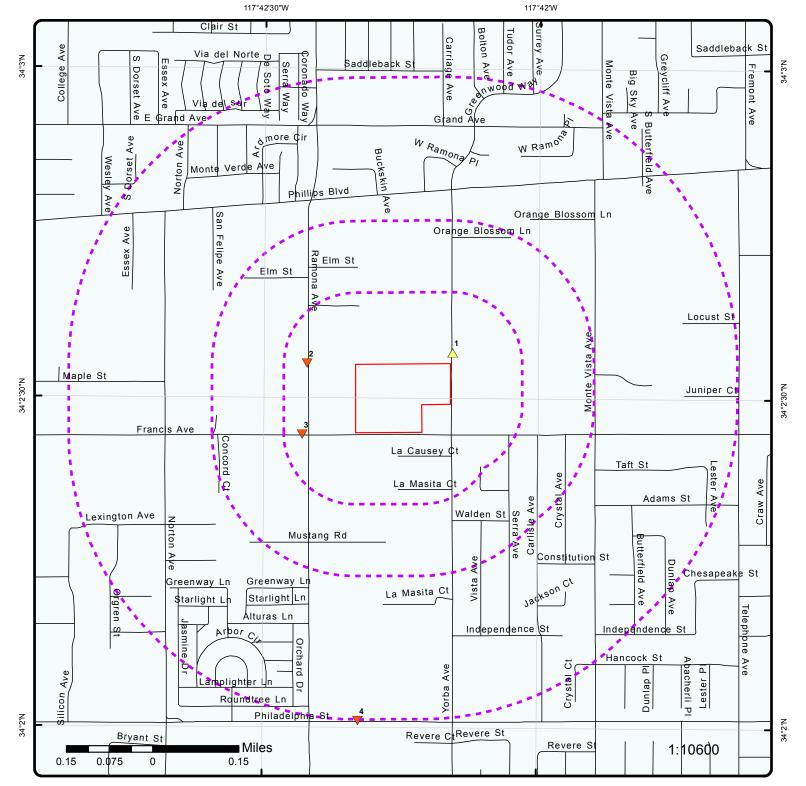
Lower Elevation	<u>Address</u>	Direction	Distance mi	Map Key
------------------------	----------------	------------------	--------------------	---------



Address: 4570 Francis Avenue, Chino, CA



Source: © 2012 ESRI © Ecolog ERIS Ltd



Map: 0.5 Mile Radius

Order No: 20160720091

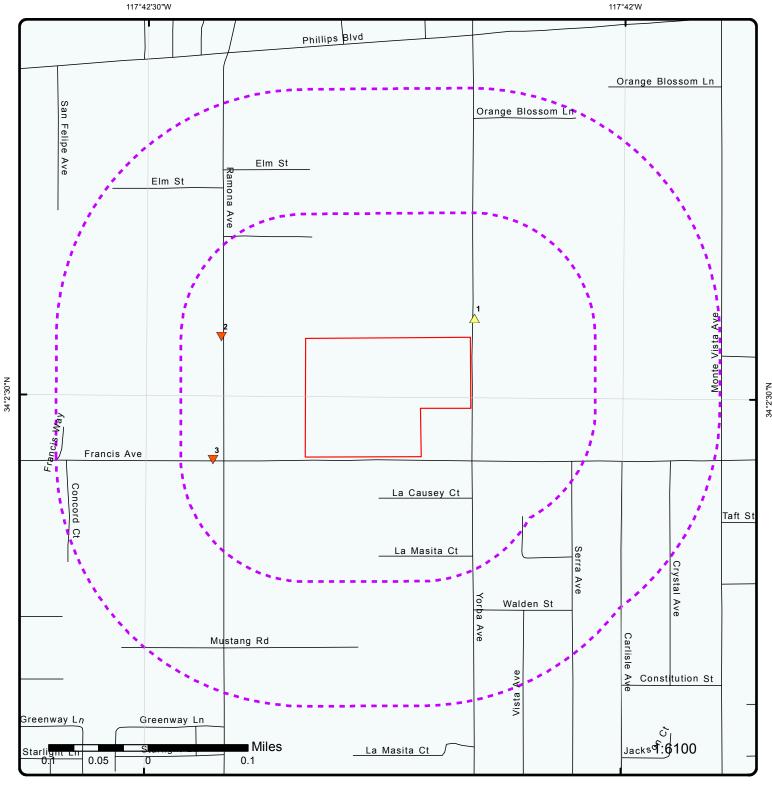
Project Property

Address: 4570 Francis Avenue, Chino, CA



County Boundary

Major Highways



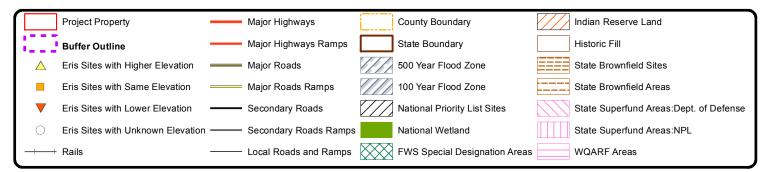
Map: 0.25 Mile Radius

Order No: 20160720091

Address: 4570 Francis Avenue, Chino, CA

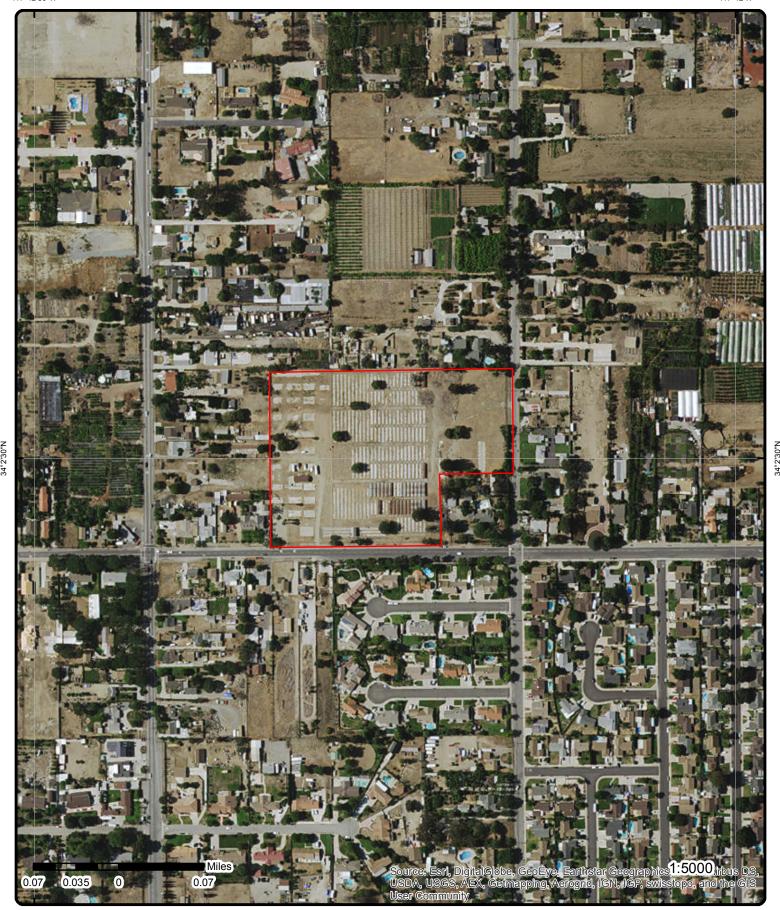






Source: © 2012 ESRI © Ecolog ERIS Ltd

117°42'30"W



Aerial Order No: 20160720091

Address: 4570 Francis Avenue, Chino, CA

Source: ESRI World Imagery, Updated October 2014

Detail Report

Мар Кеу	Number of Records	Direction/ Distance mi	Elevation ft	Site		DB
1	1 of 1	NE/0.02	844.86	OTIS KING 11589 YORBA AVE CHINO CA 91710		HAZNET
SIC Code: NAICS Code EPA ID: Create Date Fac Act Ind Inact Date: File Source County Code County Nat Mail Name Mailing Ad	Ce: 2. d: N 8. e: F de: 3 me: S : dr1: 1	AC002686816 /24/2012 o /23/2012 ille Sent By Department 6 an Bernardino		Mailing City: Mailing State: Mailing Zip: Region Code: Owner Name: Owner Addr 1: Owner Addr 2: Owner City: Owner State: Owner Zip: Owner Fax:	CHINO CA 91710 4 OTIS KING 11589 YORBA AVE CHINO CA 91710 9096286603	

Contact Information

Contact Name: OTIS KING
Street Address 1: 11589 YORBA AVE

Street Address 2:

 City:
 CHINO

 State:
 CA

 Zip:
 91710

 Phone:
 9096286603

Tanner Information

16

Generator EPA ID: CAC002686816

Generator County Code: 36

Generator County:San BernardinoTSD EPA ID:CAD028409019

TSD County Code: 19

TSD County: Los Angeles

State Waste Code: 352

State Waste Code Desc.: Other organic solids

Method Code: H141

Method Description: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY

(H010-H129) OR (H131-H135)

Tons: 0.01 **Year:** 2012

2 1 of 1 WNW/0.08 837.83 HOLT GARDEN CENTER SANBERN
11602 RAMONA AVE CUPA
CHINO CA 91710

Order No: 20160720091

Facility ID:FA0011729Owner Info:PARK, MICHAELMailing Care of:MICHAEL PARK

Map Key Number of Direction/ Elevation Site DB Records Distance mi ft

--- Details ---

Status: INACTIVE Permit ID: PT0020340

Permit Desc: HAZMAT HANDLER 0-10 EMPLOYEES

Program Element Code: 4221 **To:** 8/31/13

3 1 of 1 WSW/0.09 831.54 M AND M MARKET HHSS 4494 FRANCIS ST

CHINO CA 91710

County: San Bernardino

Pdf File Url: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002aac6.pdf

4 1 of 1 S/0.50 800.32 CHINO EARLY EDUCATION CENTER ENVIROSTOR

4562 AND 4578 PHILADELPHIA

Order No: 20160720091

STREET CHINO CA 91710

Estor/EPA ID: 36880003 **Site Code:** 404608

Cleanup Status: CERTIFIED AS OF 8/13/2008

Site Type: SCHOOL Potential Media Affected: SOIL

Past Uses Caused Contam: RESIDENTIAL AREA

APN: 1013-421-09, 1013-421-10, 1013-421-11, 1013-421-12, 101342109, 101342110, 101342111,

101342112

National Priorities List: NO

Cleab up Oversight Agenci: DTSC - SITE CLEANUP PROGRAM - LEAD

Special Program: VOLUNTARY CLEANUP PROGRAM

Funding: SCHOOL DISTRICT

Acres: 4.5 ACRES

School District: SAN BERNARDINO COUNTY OFF OF EDUCATION SCHOOL DISTRICT

 Assembly District:
 52

 Senate District:
 20

 Zip:
 91710

Potential Contaminants:

ARSENIC LEAD

Site History:

The approximately 4.5-acre Site is surrounded by residential properties and a nursery. A central portion of the Site is used for miscellaneous storage and the remainder of the Site is vacant. The Site has been historically utilized for agricultural purposes. The Southern Portion of the Site has two single family residential structures, a former stable building, a round concrete storage building and a swimming pool.

Preliminary Endangerment Assessment (PEA) (2005):

Thirteen (13) soil samples for metals (from the past use of pesticides)

Thirty five (35) soil samples for lead (from the past use of lead based paint)

Fourteen (14) soil samples for organo chloro pesticides (from the past use of pesticides)

Total Eight (8) samples for Total Petroleum Hydrocarbons (TPHs), Volatile Organic Compounds (VOCs) and Polyaromatic Hydrocarbons (PAHs) (from the onsite septic systems and oil sprays)

Supplemental Site Investigation (SSI) (2006):

Forty Five (45) step out soil samples around the structures for lead Three Hundred Ninety One (391) step out soil samples for Arsenic

DΒ Elevation Site Map Key Number of Direction/ Records Distance mi

Major Findings

Elevated Levels of Arsenic and Lead Present at the Site

A Draft Removal Action Plan (RAW) was reviewed with extended public comment period. Based on the RAW the the contamination that is on the small portion of the site, will be cleaned under DTSC oversight and Site will be safe for the County to construct. The school will be construuted after the contamination is removed from the site.

DTSC briefed Board Members of the School District on July 2, 2007.

Public comment period is exteneded to August 2007 and a public meeting was held on August 21, 2007.

DTSC approved the RAW on October 25, 2007.

The contaminated soil is removed in February 2008. DTSC reviewed and approved the Removal Action Completion Report and closed out the Site in August 2008.

Facility Information

SCHOOL CLEANUP Program Type:

CERTIFIED Status:

Summary Link: http://www.envirostor.dtsc.ca.gov/public/profile_report.asp?qlobal_id=36880003

Completed Activities

Doc Link: http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=36880003&enforce

ment id=6012435

Area Name:

Sub Area:

Document Type: Certification Date Completed: 7/11/2008

Comments:

Activity Type: Completed Activities

Doc Link: http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=36880003&doc_id

=6017532

Area Name: Sub Area:

Removal Action Completion Report **Document Type:**

5/15/2008 Date Completed:

Accepted as Final. Comments: Completed Activities Activity Type:

Doc Link: http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=36880003&enforce

ment_id=6010583

Area Name:

Sub Area:

Document Type: CEQA - Notice of Exemption

Date Completed: 10/31/2007

Comments: DTSC filed Notice of Exemption pursuant to California Environmental Quality Act.

Activity Type: Completed Activities

Doc Link: http://www.envirostor.dtsc.ca.gov/public/final documents2.asp?global id=36880003&doc id

=6014001

Area Name: Sub Area:

Removal Action Workplan **Document Type:**

Date Completed: 10/25/2007

DTSC concurred with the adequacy of the Draft RAW pending public comments. Comments:

Activity Type: Completed Activities

Doc Link: http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=36880003&enforce

Number of Direction/ Elevation Site DB Map Key

Records Distance mi

Area Name:

Sub Area: School Cleanup Agreement Document Type:

4/6/2007 Date Completed:

Comments: Signed Agreement sent overnight mail to District.

ment_id=6010769

Activity Type: Completed Activities

Doc Link: http://www.envirostor.dtsc.ca.gov/public/final documents2.asp?global id=36880003&doc id

=6015205

Area Name:

Sub Area:

Document Type: 4.15 Request Date Completed: 4/5/2007

DTSC approved based on the furure draft RAW Approval Comments:

Activity Type: Completed Activities

Doc Link: http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=36880003&doc_id

=6010839

Area Name:

Sub Area:

Document Type: Supplemental Site Investigation Report

Date Completed: 9/8/2006

Comments: DTSC issued Further Action determination based on a Supplemental Site Investigation

Report. A removal action for Arsenic and Lead is required.

Activity Type: Completed Activities

Doc Link: http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=36880003&doc_id

=6008961

Area Name:

Sub Area:

Supplemental Site Investigation Workplan **Document Type:**

3/20/2006 Date Completed: Approved for SSI Comments:

Completed Activities Activity Type:

Doc Link: http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=36880003&doc_id

=6007676

Area Name:

Sub Area:

Document Type: Preliminary Endangerment Assessment Report

10/26/2005 Date Completed:

Completed with SSI/RAW for Arsenic/Lead Comments:

Activity Type: Completed Activities

Doc Link: Area Name: Sub Area:

Site Inspections/Visit (Non LUR) **Document Type:**

Date Completed: 5/27/2005

Comments:

Activity Type: Completed Activities

Doc Link: Area Name:

Sub Area:

Document Type: Site Inspections/Visit (Non LUR)

Date Completed: 5/23/2005

Comments:

Completed Activities Activity Type:

Map Key Number of Direction/ Elevation Site DB Records Distance mi ft

Doc Link: http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=36880003&doc_id

=6005101

Area Name: Sub Area:

Document Type: Preliminary Endangerment Assessment Workplan

Date Completed: 5/12/2005

Comments:

Activity Type: Completed Activities

Doc Link: http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=36880003&enforce

ment_id=6005097

Area Name:

Sub Area:

Document Type: Environmental Oversight Agreement

Date Completed: 3/7/2005

Comments: DTSC entered into an Environmental Oversight Agreement (Docket Number HSA-A 04/05-

133) with the San Bernardino County Superintendent of Schools to provide oversight for a

Preliminary Endangerment Assessment for the proposed Chino Early Education Center.

Activity Type: Completed Activities

Unplottable Summary

Total: 0 Unplottable sites

DB Company Name/Site Address City

Zip

Order No: 20160720091

ERIS ID

Unplottable Report

Appendix: Database Descriptions

Ecolog Environmental Risk Information Services Ltd (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ERIS updates databases as set out in ASTM Standard E1527-13, Section 8.1.8 Sources of Standard Source Information:

"Government information from nongovernmental sources may be considered current if the source updates the information at least every 90 days, or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public."

Standard Environmental Record Sources

Federal

NPL NPL

National Priorities List (Superfund)-NPL: EPA's (United States Environmental Protection Agency) list of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. The NPL, which EPA is required to update at least once a year, is based primarily on the score a site receives from EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action.

Government Publication Date: Feb 11, 2016

National Priority List - Proposed:

PROPOSED NPL

Includes sites proposed (by the EPA, the state, or concerned citizens) for addition to the NPL due to contamination by hazardous waste and identified by the Environmental Protection Agency (EPA) as a candidate for cleanup because it poses a risk to human health and/or the environment.

Government Publication Date: Feb 11, 2016

<u>Deleted NPL:</u>

DELETED NPL

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Government Publication Date: Feb 11, 2016

SEMS List 8R Active Site Inventory:

SEMS

The Superfund Program has deployed the Superfund Enterprise Management System (SEMS), which integrates multiple legacy systems into a comprehensive tracking and reporting tool. This inventory contains active sites evaluated by the Superfund program that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted.

Government Publication Date: Mar 07, 2016

SEMS List 8R Archive Sites:

SEMS ARCHIVE

Order No: 20160720091

The Superfund Enterprise Management System (SEMS) Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time.

<u>Comprehensive Environmental Response, Compensation and Liability Information System - CERCLIS:</u>

CERCLIS

Superfund is a program administered by the United States Environmental Protection Agency (EPA) to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The EPA administers the Superfund program in cooperation with individual states and tribal governments; this database is made available by the EPA.

Government Publication Date: Oct 25, 2013

CERCLIS - No Further Remedial Action Planned:

CERCLIS NFRAP

An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. The Archive designation means that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Government Publication Date: Oct 25, 2013

<u>CERCLIS Liens:</u> CERCLIS LIENS

A Federal Superfund lien exists at any property where EPA has incurred Superfund costs to address contamination ("Superfund site") and has provided notice of liability to the property owner. A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Jan 30, 2014

RCRA CORRACTS-Corrective Action:

RCRA CORRACTS

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

Government Publication Date: Mar 14, 2016

RCRA non-CORRACTS TSD Facilities:

RCRA TSD

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. This database includes Non-Corrective Action sites listed as treatment, storage and/or disposal facilities of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Government Publication Date: Mar 14, 2016

RCRA Generator List:

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste.

Government Publication Date: Mar 14, 2016

RCRA Small Quantity Generators List:

RCRA SQG

RCRA Info is the EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.

Government Publication Date: Mar 14, 2016

RCRA Conditionally Exempt Small Quantity Generators List:

RCRA CESQG

RCRA NON GEN

RCRA Info is the EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Conditionally Exempt Small Quantity Generators (CESQG) generate 100 kilograms or less per month of hazardous waste or one kilogram or less per month of acutely hazardous waste.

Government Publication Date: Mar 14, 2016

RCRA Non-Generators:

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste. *Government Publication Date: Mar 14, 2016*

Federal Engineering Controls-ECs:

FED ENG

Engineering controls (ECs) encompass a variety of engineered and constructed physical barriers (e.g., soil capping, subsurface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Jul 30, 2014

Federal Institutional Controls- ICs:

FED INST

Institutional controls are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is EPA's (United States Environmental Protection Agency) expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable, ICs play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site.

Government Publication Date: Jul 30, 2014

Emergency Response Notification System:

ERNS 1982 TO 1986

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1982-1986

Emergency Response Notification System:

ERNS 1987 TO 1989

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1987-1989

Emergency Response Notification System:

ERNS

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Oct 7, 2015

The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database:

FED BROWNFIELDS

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Apr 05, 2016

State

State Response Sites:

A list of identified confirmed release sites where the Department of Toxic Substances Control (DTSC) is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk. This database is state equivalent NPL.

Government Publication Date: Jun 30, 2016

EnviroStor Database: ENVIROSTOR

The EnviroStor Data Management System is made available by the Department of Toxic Substances Control (DTSC). Includes Corrective Action sites, Tiered Permit sites, Historical Sites and Evaluation/Investigation sites. This database is state equivalent CERCLIS.

Government Publication Date: Apr 28, 2016

Solid Waste Information System (SWIS):

SWF/LF

The Solid Waste Information System (SWIS) database made available by the Department of Resources Recycling and Recovery (CalRecycle) contains information on solid waste facilities, operations, and disposal sites throughout the State of California. The types of facilities found in this database include landfills, transfer stations, material recovery facilities, composting sites, transformation facilities, waste tire sites, and closed disposal sites.

Government Publication Date: Apr 28, 2016

EnviroStor Hazardous Waste Facilities:

HWP

A list of hazardous waste facilities including permitted, post-closure and historical facilities found in the Department of Toxic Substances Control (DTSC) EnviroStor database.

Government Publication Date: Apr 21, 2016

<u>Land Disposal Sites:</u>

Land Disposal Sites in GeoTracker, the State Water Resources Control Board (SWRCB)'s data management system. The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units. Waste management units include waste piles, surface impoundments, and landfills.

Government Publication Date: Apr 25, 2016

Leaking Underground Fuel Tank Reports:

LUS

List of Leaking Underground Storage Tanks within the Cleanup Sites data in GeoTracker database. GeoTracker is the State Water Resources Control Board's (SWRCB) data management system for managing sites that impact groundwater, especially those that require groundwater cleanup (Underground Storage Tanks, Department of Defense and Site Cleanup Program) as well as permitted facilities such as operating Underground Storage Tanks. The Leak Prevention Program that overlooks LUST sites is the SWRCB in California's Environmental Protection Agency.

Delisted Leaking Storage Tanks:

DLST

This database contains a list of leaking storage tank sites that were removed from the GeoTracker is the State Water Resources Control Board's (SWRCB) data management system.

Government Publication Date: Jun 06, 2016

Permitted Underground Storage Tank (UST) in GeoTracker:

UST

List of Permitted Underground Storage Tank (UST) sites made available by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency (EPA).

Government Publication Date: Mar 28, 2016

Aboveground Storage Tanks:

AST

A statewide list from 2009 of aboveground storage tanks (ASTs) made available by the Cal FIRE Office of the State Fire Marshal (OSFM). This list is no longer maintained or updated by the Cal FIRE OSFM.

Government Publication Date: Aug 31, 2009

Delisted Storage Tanks:

DELISTED TNK

This database contains a list of storage tank sites that were removed by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency (EPA) and the Cal FIRE Office of State Fire Marshal (OSFM). Government Publication Date: Mar 28, 2016

Proposed Closure of Underground Storage Tank Cases:

UST CLOSURE

List of UST cases that are being considered for closure by either the California Environmental Protection Agency, State Water Resources Control Board or the Executive Director that have been posted for a 60-day public comment period. Government Publication Date: Feb 26, 2016

Historical Hazardous Substance Storage Information Database:

HHSS

The Historical Hazardous Substance Storage database contains information collected in the 1980s from facilities that stored hazardous substances. The information was originally collected on paper forms, was later transferred to microfiche, and recently indexed as a searchable database. When using this database, please be aware that it is based upon self-reported information submitted by facilities which has not been independently verified. It is unlikely that every facility responded to the survey and the database should not be expected to be a complete inventory of all facilities that were operating at that time. This database is maintained by the California State Water Resources Control Board's (SWRCB) Geotracker.

Government Publication Date: Aug 27, 2015

<u>Site Mitigation and Brownfields Reuse Program Facility Sites with Land Use</u> Restrictions:

LUR

The Department of Toxic Substances Control (DTSC) Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents land use restrictions that are active. Some sites have multiple land use restrictions.

Government Publication Date: Mar 4, 2016

<u>Hazardous Waste Management Program Facility Sites with Deed / Land Use</u> Restrictions:

HLUR

The Department of Toxic Substances Control (DTSC) Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Government Publication Date: Mar 29, 2016

Deed Restrictions and Land Use Restrictions:

DEED

List of Deed Restrictions, Land Use Restrictions and Covenants in GeoTracker made available by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency. A deed restriction (land use covenant) may be required to facilitate the remediation of past environmental contamination and to protect human health and the environment by reducing the risk of exposure to residual hazardous materials.

Government Publication Date: Mar 29, 2016

Voluntary Cleanup Program:

VCP

List of sites in the Voluntary Cleanup Program made available by the Department of Toxic Substances and Control (DTSC). The Voluntary Cleanup Program was designed to respond to lower priority sites. Under the Voluntary Cleanup Program, DTSC enters site-specific agreements with project proponents for DTSC oversight of site assessment, investigation, and/or removal or remediation activities, and the project proponents agree to pay DTSC's reasonable costs for those services.

Government Publication Date: Apr 7, 2016

GeoTracker Cleanup Sites Data:

CLEANUP SITES

A list of cleanup sites in the state of California made available by The State Water Resources Control Board (SWRCB) of the California Environmental Protection Agency (EPA). SWRCB tracks leaking underground storage tank cleanups as well as other water board cleanups.

Government Publication Date: Jun 06, 2016

Tribal

Leaking Underground Storage Tanks (LUSTs) on Indian Lands:

INDIAN LUST

LUSTs on Tribal/Indian Lands in Region 9, which includes California.

Government Publication Date: Jan 31, 2016

<u>Underground Storage Tanks (USTs) on Indian Lands:</u>

INDIAN UST

USTs on Tribal/Indian Lands in Region 9, which includes California.

Government Publication Date: Jan 31, 2016

Delisted Tribal Leaking Storage Tanks:

DELISTED ILST

Underground Storage Tank facilities which have been removed from the Regional Tribal UST lists made available by the EPA.

Government Publication Date: Jan 31, 2016

Delisted Tribal Underground Storage Tanks:

DELISTED IUST

Underground Storage Tank facilities which have been removed from the Regional Tribal UST lists made available by the EPA.

Government Publication Date: Jan 31, 2016

County

Alameda County LOP Sites List:

ALAMEDA LOP

Order No: 20160720091

A list of Leaking Underground Storage Tanks (LUST) facilities in Alameda County. This list is made available by Alameda County Department of Environmental Health (ACEH). ACEH implements a Local Oversight Program (LOP) under contract with the State Water Resources Control Board to provide regulatory oversight of the investigation and cleanup of soil and groundwater contamination from leaking petroleum USTs.

Government Publication Date: Apr 6, 2016

Alameda County UST List:

ALAMEDA UST

A list of all registered Underground Storage Tanks (USTs) in the County of Alameda. The list is made available by Alameda County Department of Environmental Health.

Government Publication Date: Apr 6, 2016

Amador County CUPA List:

AMADOR CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Amador County. This list is made available by Amador County Environmental Health Department which is the CUPA for Amador County and administers a consolidated hazardous materials program.

Government Publication Date: Mar 21, 2016

Butte County CUPA List:

BUTTE CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Butte County. This list is made available by Butte County Public Health Department, Environmental Health Division which was certified by the California Environmental Protection Agency as the CUPA for Butte County.

Government Publication Date: Mar 22, 2016

Calaveras County CUPA Facilities List:

CALAVERAS CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in the County of Calaveras. This list is made available by Calaveras County Environmental Health Department which has been certified by CalEPA to implement the Unified program as a CUPA.

Government Publication Date: Mar 15, 2016

Calaveras County Landfills List:

CALAVERAS LF

A list of landfills in Calaveras County. This list is made available by Calaveras County Environmental Health Department which has been designated as the CUPA for the County.

Government Publication Date: Mar 15, 2016

Calaveras County UST Remediation Sites:

CALAVERAS LUST

A list of Leaking Underground Storage Tank (LUST) facilities in Calaveras County. This list is made available by Calaveras County Environmental Health Department. Local Implementing Agency (LIA) provides oversight of site remediation with soil contamination while CalEPA - California Regional Water Quality Control Board - Central Valley Region oversees remediation of sites with groundwater contamination.

Government Publication Date: Mar 15, 2016

Colusa County CUPA List:

COLUSA CUPA

A list of facilities associated with Business Plan and Hazardous Generator programs in the County of Colusa. This list is made available by Colusa County Environmental Health which was certified by the California Environmental Protection Agency as Certified Unified Program Agency for Colusa County.

Government Publication Date: Jan 26, 2016

Contra Costa County CUPA List:

CONTRACO CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in the County of Contra Costa. This list is made available by Contra Costa County which has been certified by CalEPA to implement the Unified program as a CUPA.

Government Publication Date: Apr 27, 2016

Del Norte County CUPA Facility List:

DELNORTE CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Del Norte County. This list is made available by Del Norte County Environmental Health Division which is the designated CUPA for the county. *Government Publication Date: Jan 22, 2016*

El Dorado County CUPA Facility List:

ELDORADO CUPA

Order No: 20160720091

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in El Dorado County. This list is made available by El Dorado County Department of Environmental Management - Hazardous Waste Division which is approved by CalEPA as CUPA for El Dorado County.

Government Publication Date: May 24, 2016

Fresno County CUPA/Solid Waste Programs Resource List:

FRESNO CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Fresno County. This list is made available by Fresno County Department of Environmental Health Division which is approved by Cal-EPA as CUPA for the County.

Government Publication Date: Apr 04, 2016

Humboldt County CUPA Facility List:

HUMBOLDT CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Humboldt County. This list is made available by Humboldt County Division of Environmental Health which is approved by the State Secretary for Environmental Protection as CUPA for the County.

Government Publication Date: May 11, 2016

Imperial County CUPA Facility List:

IMPERIAL CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Imperial County. This list is made available by the California Department of Toxic Substances Control (DTSC) which is appointed as CUPA for Imperial County.

Government Publication Date: Apr 28, 2016

Inyo County CUPA Facility List:

INYO CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in the County of Inyo. This list is made available by the Inyo County Environmental Health Services Department which has been certified by CalEPA to implement the Unified program as a CUPA.

Government Publication Date: Apr 06, 2016

Kern County CUPA List:

KERN CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in the County of Kern. This list is made available by Kern County Environmental Health Services Department which has been certified by CalEPA to implement the Unified program as a CUPA for Kern County.

Government Publication Date: May 20, 2016

Kern County UST List:

KERN UST

A list of all registered and inactive Underground Storage Tanks in the County of Kern. The list is made available by Kern County Environmental Health Division.

Government Publication Date: May 17, 2016

Kings County CUPA Facility List:

KINGS CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Kings County. This list is made available by Kings County Department of Public Health which is appointed as CUPA for the county.

Government Publication Date: Apr 30, 2016

Lake County CUPA Facility List:

LAKE CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Lake County. This list is made available by Lake County Division of Environmental Health which is CUPA for the entire county.

Government Publication Date: Apr 28, 2016

Los Angeles County - El Segundo City Underground Storage Tanks List:

ELSEGUNDO UST

A list of all registered Underground Storage Tanks (USTs) in the City of El Segundo of Los Angeles County. The list is made available by El Segundo City Fire Department.

Government Publication Date: Mar 11, 2016

Los Angeles County - Torrance City Underground Storage Tanks:

TORRANCE UST

Order No: 20160720091

A list of registered Underground Storage Tank (UST) sites in Torrance City of Los Angeles County. This list is made available by Torrance City Office of Clerk.

Government Publication Date: Mar 29, 2016

Los Angeles County HMS List:

LA HMS

This list contains sites that have or had permits for Industrial Waste, Underground Storage Tanks, or Storm water in the County of Los Angeles. This list is made available by the County of Los Angeles Department of Public Works.

Government Publication Date: May 17, 2016

Los Angeles County Long Beach UST List:

LA LONGB UST

A list of all registered active Underground Storage Tanks in the City of Long Beach of Los Angeles County. The list is made available by Long Beach Certified Unified Program Agency.

Government Publication Date: Jan 6, 2016

Los Angeles County Solid Waste Sites:

LA SWF

List of permitted solid waste facilities, closed landfills, historical dumpsites and other solid waste sites in Los Angeles County, made available by the Department of Public Works in Los Angeles County.

Government Publication Date: Apr 20, 2016

Madera County CUPA Facility List:

MADERA CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Madera County. This list is made available by Madera County Environmental Health Department which is CUPA for the entire county.

Government Publication Date: Jun 16, 2016

Marin County CUPA List:

MARIN CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in the County of Marin. This list is made available by Marin County which has been certified by CalEPA to implement the Unified program as a CUPA. *Government Publication Date: Apr 22, 2016*

Merced County CUPA Facilities List:

MERCED CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in the County of Merced. This list is made available by Merced County which has been certified by CalEPA to implement the Unified program as a CUPA for the entire county.

Government Publication Date: Apr 19, 2016

Mono County CUPA Facility List:

MONO CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Mono County. This list is made available by Mono County Environmental Health Department which has been certified by CalEPA to implement the Unified program as a CUPA for the entire county.

Government Publication Date: Apr 7, 2016

Monterey County CUPA Facility List:

MONTEREY CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Monterey County. This list is made available by Monterey County Hazardous Materials Management Services which is designated as the CUPA in Monterey County.

Government Publication Date: Feb 25m 2016

Napa County UST List:

NAPA UST

A list of all registered active Underground Storage Tanks (USTs) in the County of Napa. This list is made available by Napa County Environmental Health Division.

Government Publication Date: Mar 09, 2016

Nevada County CUPA Facility List:

NEVADA CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Nevada County. This list is made available by Nevada County Department of Environmental Health which is the CUPA for all cities and unincorporated areas within Nevada County.

Government Publication Date: Apr 18, 2016

Orange County Aboveground Petroleum Storage Tank Listing:

ORANGE AST

A list of Aboveground Petroleum Storage Tank (APST) facilities inspected by Orange County Certified Unified Program Agency (CUPA) Under the Aboveground Petroleum Storage Act (APSA). This list is made available by the Environmental Health Division of Orange County Health Care Agency.

Government Publication Date: Apr 01, 2016

Orange County Underground Storage Tanks Listing:

ORANGE UST

A list of registered Underground Storage Tank (UST) sites in Orange County. This list is made available by Orange County Health Care Agency (OCHCA), Environmental Health Division which oversees the underground storage tank inspection program in most of the cities of Orange County, with the exception of Anaheim, Fullerton, and Orange.

Government Publication Date: Apr 01, 2016

Placer County CUPA Facilities List:

PLACER CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Placer County. This list is made available by Placer County Environmental Health which is designated CUPA for all areas of the county except for the City of Roseville.

Government Publication Date: Apr 19, 2016

Riverside County Local Oversight Program List:

RIVERSIDE LOP

A list of Leaking Underground Storage Tank (LUST) facilities in Riverside County. This list is made available by Riverside County Department of Environmental Health. Environmental Cleanup Program provides oversight of assessments and cleanups at properties that have been, or may have been, contaminated with hazardous substances from LUSTs or releases associated with other commercial/industrial use.

Government Publication Date: May 18, 2016

Riverside County Underground Storage Tanks List:

RIVERSIDE UST

A list of registered Underground Storage Tank (UST) sites in Riverside County. This list is made available by Riverside County Department of Environmental Health. The Hazardous Materials Management Branch (HMMB) regulates and oversees the inspections of constructions, repairs, upgrades, system operation and removal of UST systems.

Government Publication Date: Feb 17, 2016

Sacramento County Master Hazardous Materials Facility List:

SACRAMENTO HAZ

A list of Hazardous Materials Facilities in Sacramento County. This list is made available by Sacramento County Environmental Management Department which has been designated as the Certified Unified Program Agency (CUPA) for the County.

Government Publication Date: May 02, 2016

Sacramento Toxic Site Cleanup List:

SACRAMENTO TOX

Sacramento County Environmental Management Department (EMD)'s Toxic Site Cleanup List includes sites where unauthorized releases of potentially hazardous materials have occurred. The EMD's Site Assessment & Mitigation Program, also referred to as Toxic Site Cleanup Program, provides mandated regulatory oversight of the assessment and remediation of properties on which there has been a release of hazardous materials to soil and/or groundwater.

Government Publication Date: May 2, 2016

San Bernardino County CUPA List:

SANBERN CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in San Bernardino County. This list is made available by San Bernardino County Fire Department which is the CUPA for all areas of the County except the city of Victorville.

Government Publication Date: Apr 13, 2016

San Diego County Hazardous Materials Management Division Database:

SANDIEGO HAZ

Order No: 20160720091

A list of facilities with Unified Program Facility Permit in San Diego County. This list has been made available by County of San Diego Environmental Health.

Government Publication Date: Apr 20, 2016

San Diego County Site Assessment and Mitigation Investigation Sites:

SANDIEGO SAM

List of sites which have undergone a Site Assessment and Mitigation investigation. This list is made available by the County of San Diego Department of Environmental Health.

Government Publication Date: Apr 20, 2016

San Diego County Solid Waste Facility List:

SANDIEGO SWF

A list of open and closed Solid Waste Facilities in the County of San Diego. The list is made available by San Diego County Department of Environmental Health.

Government Publication Date: Feb 10, 2016

San Francisco County Aboveground Storage Tanks List:

SANFRAN AST

A list of Aboveground Storage Tanks (ASTs) facilities inspected by San Francisco Department of Public Health's (SFDPH) Hazardous Materials and Waste Program. Aboveground storage containers or tanks include oil-filled equipment (such as hydraulic systems/reservoirs and heat transfer systems) which have a petroleum storage capacity of 55 gallons or greater. *Government Publication Date: Mar 12, 2016*

San Francisco County CUPA Facilities List:

SANFRAN CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in San Francisco County. This list is made available by San Francisco County Hazardous Materials and Waste Program which is the CUPA for all areas of the County.

Government Publication Date: Mar 12, 2016

San Francisco County LOP Sites:

SANFRAN LOP

A list of Underground Storage Tank (UST) release sites in the County of San Francisco. This list is made available by San Francisco County Department of Public Health Environmental Health Protection Branch.

Government Publication Date: May 25, 2016

San Francisco County UST List:

SANFRAN UST

A list of all registered Underground Storage Tanks (USTs) in the County of San Francisco. This ist is made available by San Francisco County Environmental Health Division. The Hazardous Materials and Waste Program provides regulatory oversight for the construction, operation, repair and removal of USTs in San Francisco.

Government Publication Date: Mar 12, 2016

San Joaquin County Aboveground Tank List:

SANJOAQUIN AST

A list of Aboveground Storage Tanks (ASTs) inspected by San Joaquin County Environmental Health Department (SJCEHD) under Aboveground Petroleum Storage Act (APSA).

Government Publication Date: May 04, 2016

San Joaquin County UST List:

SANJOAQUIN UST

A list of all registered Underground Storage Tanks in the County of San Joaquin. The list is made available by San Joaquin County Environmental Health Division.

Government Publication Date: May 04, 2016

San Joaquin Hazardous Waste Facilities:

SANJOAQUIN HW

A list of Hazardous Waste Facilities in San Joaquin County. This list is made available by San Joaquin County Environmental Health Department which has been designated as the CUPA for the County.

Government Publication Date: May 04, 2016

San Mateo County CUPA Facilities List:

SANMATEO CUPA

Order No: 20160720091

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in San Mateo County. This list is made available by San Mateo County Environmental Health Department which has been designated as the CUPA for the County.

Government Publication Date: May 2, 2016

San Mateo County LOP List:

SANMATEO LOP

A list of Leaking Underground Storage Tank (LUST) facilities in San Mateo County. This list is made available by San Mateo County Environmental Health Services Division.

Government Publication Date: May 10, 2016

Santa Clara County CUPA Facilities List:

SANTACLARA CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Santa Clara County. This list is made available by Santa Clara County Department of Environmental health (DEH). DEH's Hazardous Materials Compliance Division (HMCD) is CUPA for the county with jurisdiction within the Cities of Los Altos Hills, Monte Sereno, and Saratoga; and in all unincorporated areas of Santa Clara County, including Moffett Field, San Martin, and Stanford. *Government Publication Date: Mar 3, 2016*

Santa Clara Local Oversight Program Listing:

SANTACLARA LO

A list of Leaking Underground Storage Tanks (LUST) facilities in Santa Clara County Provided by Santa Clara Department of Environmental Health (DEH). Since July 1, 2004 the DEH has served as the oversight agency for investigations and clean-up of petroleum releases from underground storage tanks through implementation of the Local Oversight Program (LOP) contract with the State Water Resources Control Board.

Government Publication Date: Apr 20, 2016

Santa Cruz County CUPA Facility List:

SANTACRUZ CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Santa Cruz County. This list is made available by Santa Cruz County Environmental Health Services (EHS) Division which has been designated as the CUPA for the County.

Government Publication Date: Apr 20, 2016

San Luis Obispo County CUPA Facilities List:

SANLUISOB CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in San Luis Obispo County. This list is made available by County of San Luis Obispo Environmental Health Services Division which has been designated as the CUPA for the County.

Government Publication Date: Apr 21, 2016

Shasta County CUPA Facility List:

SHASTA CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Shasta County. This list is made available by Shasta County Environmental Health Division which has been designated as the CUPA for Shasta County by CalEPA.

Government Publication Date: May 19, 2016

Solano County CUPA List:

SOLANO CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in the County of Solano. This list is made available by Solano County Environmental Health Division which has been certified by CalEPA to implement the Unified program as a CUPA.

Government Publication Date: Apr 28, 2016

Solano County Local Oversight Program List:

SOLANO LOP

A list of Leaking Underground Storage Tank (LUST) facilities in the Solano County. This list is made available by the Solano County Environmental Health Services. Since April 1993, the State Water Resources Control Board has contracted with the County of Solano to provide regulatory oversight for the cleanup of LUSTs under Local Oversight Program (LOP) contract.

Government Publication Date: Apr 28, 2016

Solano County Underground Storage Tanks List:

SOLANO UST

Order No: 20160720091

A list of all registered Underground Storage Tanks (USTs) in the County of Solano. The list is made available by Solano County Environmental Health Services Division. There are an estimated 190 facilities throughout the county that are subject to the regulatory requirements of the UST program.

Government Publication Date: Apr 28, 2016

Sonoma County CUPA Facilities List:

SONOMA CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Sonoma County. This list is made available by Sonoma County Hazardous Materials (HazMat) Division which has been designated as the CUPA for the County.

Government Publication Date: Apr 05, 2016

Sonoma County LOP Site List:

SONOMA LOP

A list of Leaking Underground Storage Tank (LUST) facilities in Sonoma County. This list is made available by Sonoma County Department of Health Services. Sonoma County Local Oversight Program (LOP) oversees the investigation and cleanup of fuel releases from underground storage tanks in all areas of the County with the exception of the Cities of Santa Rosa and Healdsburg.

Government Publication Date: Apr 01, 2016

Sonoma County Petaluma City CUPA Facilities:

SONOMA PETAL

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Petaluma City. This list is made available by Petaluma Fire Prevention Bureau which is the CUPA for Petaluma City in Sonoma County.

Government Publication Date: Feb 18, 2016

Sutter County CUPA List:

SUTTER CUPA

A list of facilities associated with Aboveground Petroleum Storage Tank (APSA) regulation, Hazardous Materials Business Plan (HMBP) Program and Underground Storage Tank (UST) regulation of Certified Unified Program Agency (CUPA) programs in Sutter County. This list is made available by Sutter County Enviornmental Health Division which has been designated as the CUPA for the County.

Government Publication Date: Apr 20, 2016

Tuolumne County CUPA Facility List:

TUOLUMNE CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Tuolumne County. This list is made available by Tuolumne County Environmental Health which is the CUPA for all areas of the County.

Government Publication Date: May 2, 2016

Ventura County CUPA Facilities List:

VENTURA CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Ventura County. This list is made available by Ventura County Environmental health Division.

Government Publication Date: Mar 28, 2016

Ventura County City of Oxnard CUPA Facility List:

OXNARD CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Oxnard City. This list is made available by Oxnard City Fire Department which is the CUPA for Oxnard City in Ventura County.

Government Publication Date: May 04, 2016

Ventura County Inactive Underground Storage Tanks Sites:

VENTURA INUST

A list of inactive Underground Storage Tank (UST) sites in Ventura County. This list is made available by Ventura County Environmental Health Division.

Government Publication Date: Apr 20, 2016

Ventura County Leaking Underground Fuel Tanks - Historic:

VENTURA HLUFT

Order No: 20160720091

A historical list of cleanup oversight of the Leaking Underground Fuel Tank (LUFT) program provided by Ventura County Environmental Health Division. All new and existing underground fuel storage tank releases are now referred to the Los Angeles Regional Water Quality Control Board.

Government Publication Date: May 31, 2008

Yolo County UST List:

YOLO UST

A list of registered Underground Storage Tank (UST) sites in Yolo County. This list is made available by Yolo County Environmental Health Department which regulates the construction, operation, repair and removal of USTs throughout Yolo County.

Government Publication Date: Apr 20, 2016

Yuba County CUPA Facilities List:

YUBA CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Yuba County. This list is made available by Yuba County Environmental Health Division which is the CUPA for all areas of the County.

Government Publication Date: May 20, 2016

City of Bakersfield CUPA List:

BKRSFIELD CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in the City of Bakersfield. This list is made available by the City of Bakersfield Fire Department.

Government Publication Date: Mar 07, 2016

Gilroy City CUPA Facilities List:

SANTACLARA GIL

The Gilroy City Fire Marshal's office maintains a list of CUPA Facilities located in Gilroy City.

Government Publication Date: Apr 26, 2016

Alpine County CUPA List:

ALPINE CUPA

The Alpine County Health Department has been certified by Cal / EPA to implement the Unified program and maintains a list of Certified Unified Program Agency (CUPA) facilities.

Government Publication Date: Feb 24, 2015

Glenn County CUPA List:

GLENN CUPA

The Glenn County Air Pollution Control District is the Administering Agency and the Certified Unified Program Agency (CUPA) for Glenn County with responsibility for regulating hazardous materials handlers, hazardous waste generators, underground storage tank facilities, above ground storage tanks, and stationary sources handling regulated substances. *Government Publication Date: May 02, 2016*

Lassen County CUPA List:

LASSEN CUPA

The Environmental Health Program of Lassen County tracks Certified Unified Program Agencies (CUPA) facilities.

Government Publication Date: May 9, 2016

Mariposa County CUPA List:

MARIPOSA CUPA

Mariposa County Health Department, Environmental Health Services, is certified by Cal-EPA as the Certified Unified Program Agency (CUPA) that administers specific hazardous materials/hazardous waste programs.

Government Publication Date: Apr 8, 2016

Plumas County CUPA List:

PLUMAS CUPA

In Plumas County, the Environmental Health Department is the designated Certified Unified Program Agency (CUPA) that consolidates and coordinates administrative activities such as permits, inspections, and enforcement. CUPA Programs include Hazardous Materials Business Plan (HMBP), Underground Storage Tanks (USTs), Above Ground Storage Tanks (AGTs), Hazardous Waste Generators (HWG) and CAL-ARP.

Government Publication Date: Apr 14, 2016

Siskiyou County CUPA List:

SISKIYOU CUPA

The Hazardous Materials Management Group of Siskiyou County's Environmental Health Division Certified Unified Program Agency (CUPA) regulates underground tanks, hazardous materials (including but not limited to: hazardous substances, hazardous waste, and any material which a handler or the CUPA has reasonable basis for believing that it would be injurious to the health and safety of persons or harmful to the environment if released into the workplace or the environment.

Government Publication Date: May 18, 2016

Stanislaus County CUPA List:

STANISLAUS CUPA

Order No: 20160720091

The Environmental Resources Department of Stanislaus County maintains a list of Certified Unified Program Agency (CUPA) facilities.

Government Publication Date: May 10, 2016

Trinity County CUPA List:

On January 1, 2005, the Department of Toxic Substances Control (DTSC) was authorized by the California Environmental Protection Agency (Cal/EPA) as the Trinity County Certified Unified Program Agency (CUPA). This CUPA list was made available by the DTSC.

Government Publication Date: Apr 15, 2016

Tulare County CUPA List:

TULARE CUPA

The Certified Unified Program Agency (CUPA) unifies and consolidates under one roof the various requirements for businesses handling hazardous materials, generating or treating hazardous wastes, or operating aboveground or underground storage tanks. CUPA thereby enhances consistency, reduces duplication, and simplifies compliance for the regulated public. The Tulare County Environmental Health Division was certified as a CUPA in December, 1996. *Government Publication Date: Jul 07, 2016*

Additional Environmental Record Sources

Federal

Facility Registry Service/Facility Index:

FINDS/FRS

The US Environmental Protection Agency (EPA)'s Facility Registry System (FRS) is a centrally managed database that identifies facilities, sites or places subject to environmental regulations or of environmental interest. FRS creates high-quality, accurate, and authoritative facility identification records through rigorous verification and management procedures that incorporate information from program national systems, state master facility records, data collected from EPA's Central Data Exchange registrations and data management personnel.

Government Publication Date: Mar 9, 2016

Toxics Release Inventory (TRI) Program:

TRIS

The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment.

Government Publication Date: Dec 31, 2014

Hazardous Materials Information Reporting System:

HMIRS

US DOT - Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) Incidents Reports Database taken from Hazmat Intelligence Portal, U.S. Department of Transportation.

Government Publication Date: May 10, 2016

National Clandestine Drug Labs:

NCDL

The U.S. Department of Justice ("the Department") provides this data as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy.

Government Publication Date: May 17, 2016

Inventory of Open Dumps, June 1985:

OD

Order No: 20160720091

The Resource Conservation and Recovery Act (RCRA of the Act) provides for publication of an inventory of open dumps. The Act defines "open dumps" as facilities which do not comply with EPA's "Criteria for Classification of Solid Waste Disposal Facilities and Practices" (40 CFR 257).

Government Publication Date: Jun 1985

EPA Report on the Status of Open Dumps on Indian Lands:

IODI

Public Law 103-399, The Indian Lands Open Dump Cleanup Act of 1994, enacted October 22, 1994, identified ongressional concerns that solid waste open dump sites located on American Indian or Alaska Native (Al/AN) lands threaten the health and safety of residents of those lands and contiguous areas. The purpose of the Act is to identify the location of open dumps on Indian lands, assess the relative health and environment hazards posed by those sites, and provide financial and technical assistance to Indian tribal governments to close such dumps in compliance with Federal standards and regulations or standards promulgated by Indian Tribal governments or Alaska Native entities.

Government Publication Date: Dec 31, 1998

Toxic Substances Control Act:

TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The CDR enables EPA to collect and publish information on the manufacturing, processing, and use of commercial chemical substances and mixtures (referred to hereafter as chemical substances) on the TSCA Chemical Substance Inventory (TSCA Inventory). This includes current information on chemical substance production volumes, manufacturing sites, and how the chemical substances are used. This information helps the Agency determine whether people or the environment are potentially exposed to reported chemical substances. EPA publishes submitted CDR data that is not Confidential Business Information (CBI).

Government Publication Date: Jun 30, 2014

<u>HIST TSCA:</u>

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The 2006 IUR data summary report includes information about chemicals manufactured or imported in quantities of 25,000 pounds or more at a single site during calendar year 2005. In addition to the basic manufacturing information collected in previous reporting cycles, the 2006 cycle is the first time EPA collected information to characterize exposure during manufacturing, processing and use of organic chemicals. The 2006 cycle also is the first time manufacturers of inorganic chemicals were required to report basic manufacturing information.

Government Publication Date: 2006

FTTS Administrative Case Listing:

FTTS ADMIN

An administrative case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

FTTS Inspection Case Listing:

FTTS INSP

An inspection case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

Potentially Responsible Parties List:

PRP

Order No: 20160720091

Early in the cleanup process, the Environmental Protection Agency (EPA) conducts a search to find the potentially responsible parties (PRPs). EPA looks for evidence to determine liability by matching wastes found at the site with parties that may have contributed wastes to the site.

Government Publication Date: Nov 12, 2013

State Coalition for Remediation of Drycleaners Listing:

SCRD DRYCLEANER

The State Coalition for Remediation of Drycleaners (SCRD) was established in 1998, with support from the U.S. Environmental Protection Agency (EPA) Office of Superfund Remediation and Technology Innovation. It is comprised of states with established drycleaner remediation programs. Coalition members are states with mandated programs and funding for drycleaner site remediation. Coalition members are states with mandated programs and funding for drycleaner site remediation. Current members are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Government Publication Date: May 09, 2016

Integrated Compliance Information System (ICIS):

ICIS

The Integrated Compliance Information System (ICIS) is a system that provides information for the Federal Enforcement and Compliance (FE&C) and the National Pollutant Discharge Elimination System (NPDES) programs. The FE&C component supports the Environmental Protection Agency's (EPA) Civil Enforcement and Compliance program activities. These activities include Compliance Assistance, Compliance Monitoring and Enforcement. The NPDES program supports tracking of NPDES permits, limits, discharge monitoring data and other program reports.

Government Publication Date: Dec 17, 2015

Drycleaner Facilities:

FED DRYCLEANERS

A list of drycleaner facilities from the Integrated Compliance Information System (ICIS). The Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments. *Government Publication Date: May 20, 2016*

Formerly Used Defense Sites:

FUDS

Formerly Used Defense Sites (FUDS) are properties that were formerly owned by, leased to, or otherwise possessed by and under the jurisdiction of the Secretary of Defense prior to October 1986, where the Department of Defense (DoD) is responsible for an environmental restoration. This list is published by the U.S. Army Corps of Engineers.

Government Publication Date: Dec 31, 2013

Material Licensing Tracking System (MLTS):

MLTS

A list of sites that store radioactive material subject to the Nuclear Regulatory Commission (NRC) licensing requirements. This list is maintained by the NRC.

Government Publication Date: Dec 11, 2015

<u>Historic Material Licensing Tracking System (MLTS) sites:</u>

HIST MLTS

A historic list of sites that have inactive licenses and/or removed from the Material Licensing Tracking System (MLTS). In some cases, a site is removed from the MLTS when the state becomes an "Agreement State". An Agreement State is a State that has signed an agreement with the Nuclear Regulatory Commission (NRC) authorizing the State to regulate certain uses of radioactive materials within the State.

Government Publication Date: Jan 31, 2010

State

<u>Drycleaner Facilities:</u>

DRYCLEANERS

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial, linen supply, commercial laundry, dry cleaning and pressing machines - Coin Operated Laundry and Dry Cleaning. This is provided by the Department of Toxic Substance Control.

Government Publication Date: May 20, 2016

EnviroStor Inspection, Compliance, and Enforcement:

INSP COMP ENF

Order No: 20160720091

A list of permitted facilities with inspections and enforcements tracked in the Department of Toxic Substance Control (DTSC) EnviroStor.

Government Publication Date: Mar 14, 2016

Clandestine Drug Lab Sites:

CDL

The Department of Toxic Substances Control (DTSC) maintains a listing of drug lab sites. DTSC is responsible for removal and disposal of hazardous substances discovered by law enforcement officials while investigating illegal/clandestine drug laboratories.

Government Publication Date: Dec 31, 2015

School Property Evaluation Program Sites:

SCH

A list of sites registered with The Department of Toxic Substances Control (DTSC) School Property Evaluation and Cleanup (SPEC) Division. SPEC is responsible for assessing, investigating and cleaning up proposed school sites. The Division ensures that selected properties are free of contamination or, if the properties were previously contaminated, that they have been cleaned up to a level that protects the students and staff who will occupy the new school.

Government Publication Date: Apr 07, 2016

California Hazardous Material Incident Report System (CHMIRS):

CHMIRS

A list of reported hazardous material incidents, spills, and releases from the California Hazardous Material Incident Report System (CHMIRS). This list has been made available by the California Office of Emergency Services (OES).

Government Publication Date: Mar 08, 2016

Sites Listed in the Solid Waste Assessment Test (SWAT) Program Report:

SWAT

In a 1993 Memorandum of Understanding, the State Water Resources Control Board (SWRCB) agreed to submit a comprehensive report on the Solid Waste Assessment Test (SWAT) Program to the California Integrated Waste Management Board (CIWMB). This report summarizes the work completed to date on the SWAT Program, and addresses both the impacts that leakage from solid waste disposal sites (SWDS) may have upon waters of the State and the actions taken to address such leakage.

Government Publication Date: Dec 31, 1995

Hazardous Waste Manifest Data:

HAZNET

A list of hazardous waste manifests received each year by Department of Toxic Substances Control (DTSC). The volume of manifests is typically 900,000 - 1,000,000 annually, representing approximately 450,000 - 500,000 shipments.

Government Publication Date: Oct 2,2015

Cease and Desist Orders and Cleanup and Abatement Orders:

CDO/CAO

The California Environment Protection Agency "Cortese List" of active Cease and Desist Orders (CDO) and Cleanup and Abatement Orders (CAO). This list contains many CDOs and CAOs that do NOT concern the discharge of wastes that are hazardous materials. Many of the listed orders concern, as examples, discharges of domestic sewage, food processing wastes, or sediment that do not contain hazardous materials, but the Water Boards' database does not distinguish between these types of orders.

Government Publication Date: Feb 28, 2012

Historical California Hazardous Material Incident Report System (CHMIRS):

HIST CHMIRS

A list of reported hazardous material incidents, spills, and releases from the California Hazardous Material Incident Report System (CHMIRS) prior to 1993. This list has been made available by the California Office of Emergency Services (OES). *Government Publication Date: Jan 1, 1993*

Historical Hazardous Waste Manifest Data:

HIST MANIFEST

Order No: 20160720091

A list of historic hazardous waste manifests received by the Department of Toxic Substances Control (DTSC) from year the 1980 to 1992. The volume of manifests is typically 900,000 - 1,000,000 annually, representing approximately 450,000 - 500,000 shipments.

Government Publication Date: Dec 31, 1992

Tribal

No Tribal additional environmental record sources available for this State.

County

Los Angeles County Site Mitigation List:

LA SML

A Site Mitigation List in the County of Los Angeles. The list is made available by Los Angeles County Fire Department. Site mitigation is handled by the Site Mitigation Unit (SMU) which facilitates completion of site clean-up projects of contaminated sites in an expeditious manner in all cities of the Los Angeles County except El Segundo, Glendale, Long Beach, Santa Fe Springs, and Vernon.

Government Publication Date: Jun 23, 2015

Riverside County Disclosure Facility List:

RIVERSIDE HZH

A list of facilities disclosed to Riverside County Department of Environmental Health (DEH). This list is made available by Riverside County DEH which has been designated as the CUPA for the County. A business is required to establish and submit a Business Plan if the facility handles hazardous material equal to or greater than 55 gallons, 500 pounds or 200 cubic feet at any time during the year.

Government Publication Date: Feb 17, 2016

Riverside County Hazardous Waste Generator Sites List:

RIVERSIDE HWG

A list of Hazardous Waste Generator Sites in the County of Riverside. This list is made available by Riverside County Department of Environmental Health which has been designated as the CUPA for the County.

Government Publication Date: Feb 17, 2016

San Joaquin County Hazardous Materials Facilities List:

SANJOAQUIN HM

A list of Hazardous Materials Facilities in San Joaquin County. This list is made available by San Joaquin County Environmental Health Department which has been designated as the CUPA for the County.

Government Publication Date: May 04, 2016

Ventura County Hazardous Material Release (Prop 65) Sites:

VENTURA HAZR

A historic list of hazardous material releases from the Hazardous Material Release Report collected by the Environmental Health Division of Ventura County. As per the department this report contains records from 1987 to 2014.

Government Publication Date: 1987 - 2014

Ventura County Inactive Hazardous Waste Sites:

HW INACTIVE

A list of Inactive Hazardous Waste Sites in Ventura County collected by Ventura County's Environmental Health Division. *Government Publication Date: Jun 26, 2015*

Delisted County Records:

DELISTED COUNTY

Order No: 20160720091

Records removed from county or CUPA databases. Records may be removed from the county lists made available by the respective county departments because they are inactive, or because they have been deemed to be below reportable thresholds.

Government Publication Date: Jul 07, 2016

Definitions

<u>Database Descriptions:</u> This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

<u>Detail Report</u>: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

<u>Distance:</u> The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries". All values are an approximation.

<u>Direction:</u> The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

<u>Elevation:</u> The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

<u>Map Key:</u> The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Order No: 20160720091

<u>Unplottables:</u> These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and were included as reference.



HISTORICAL AERIAL REPORT

for the site:

Borstein Phase I ESA 4570 Francis Avenue Chino, CA PO #:

Report ID: 20160720091 Completed: 7/22/2016 **Ecolog ERIS Ltd.**

Environmental Risk Information Service (ERIS) A division of Glacier Media Inc.

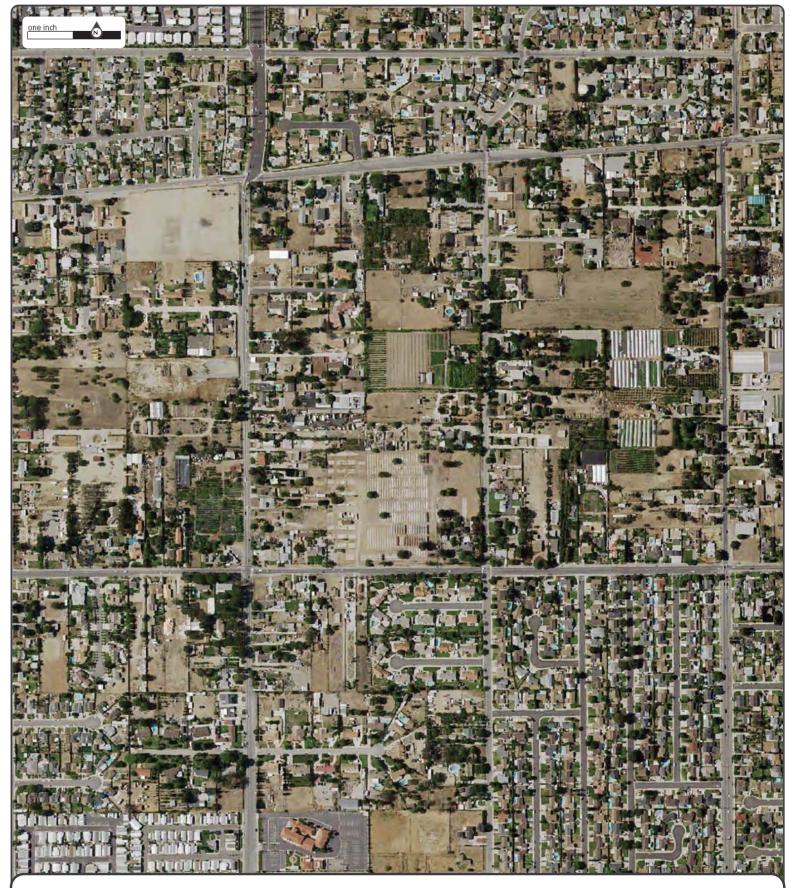
P: 1.866.517.5204 E: info@erisinfo.com

www.erisinfo.com



Search Results Summary

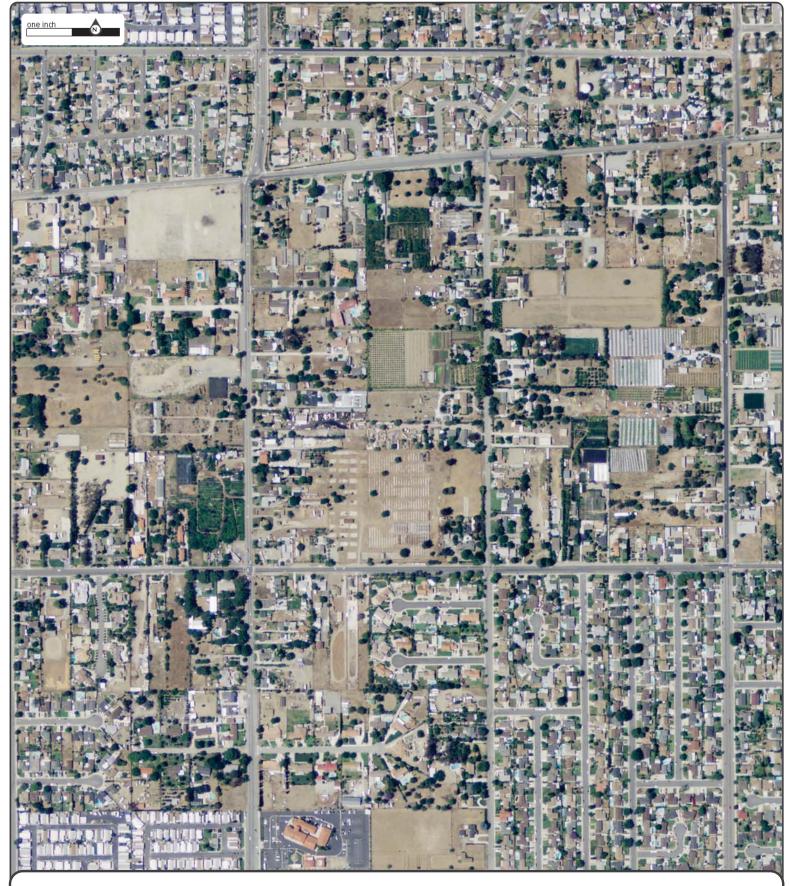
Date	Source	Scale	Comment
2014	NAIP - National Agriculture Information Program	1"=500'	
2012	NAIP - National Agriculture Information Program	1"=500'	
2010	NAIP - National Agriculture Information Program	1"=500'	
2009	NAIP - National Agriculture Information Program	1"=500'	
2005	NAIP - National Agriculture Information Program	1"=500'	
2003	NAIP - National Agriculture Information Program	1"=500'	
1994	USGS - US Geological Survey	1"=500'	
1985	NHAP - National High Altitude Photography	1"=500'	
1980	USGS - US Geological Survey	1"=500'	
1972	USGS - US Geological Survey	1"=500'	
1964	USGS - US Geological Survey	1"=500'	
1952	USGS - US Geological Survey	1"=500'	
1947	USGS - US Geological Survey	1"=500'	
1938	ASCS - Agriculture and Soil Conservation Service	1"=500'	



Date: 2014 Source: NAIP Scale: 1" to 500'



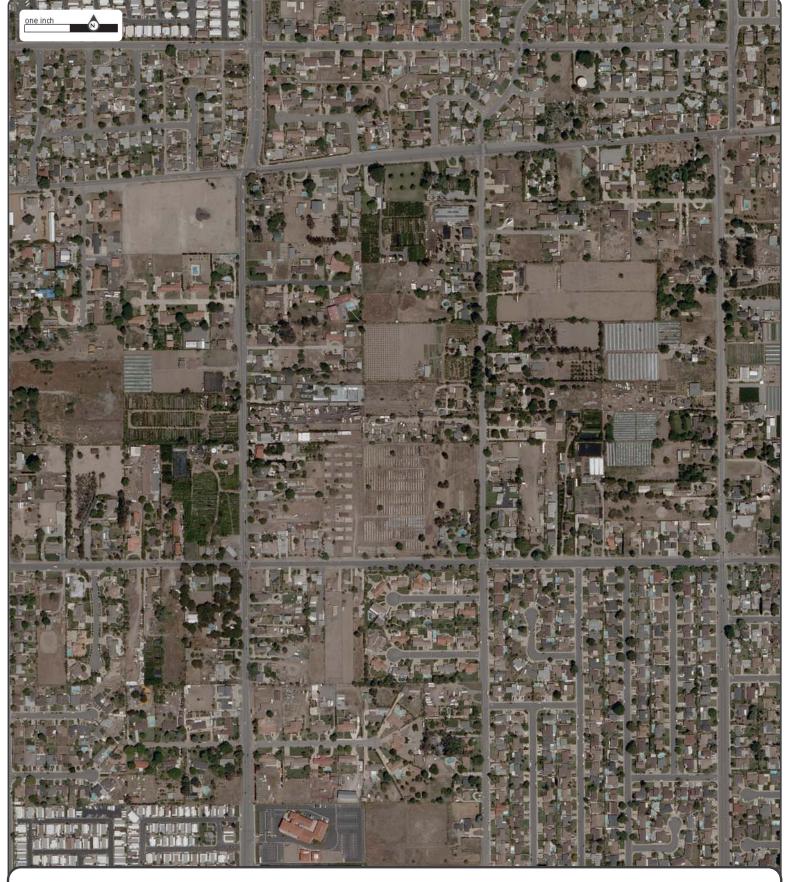




Date: 2012 Source: NAIP Scale: 1" to 500'



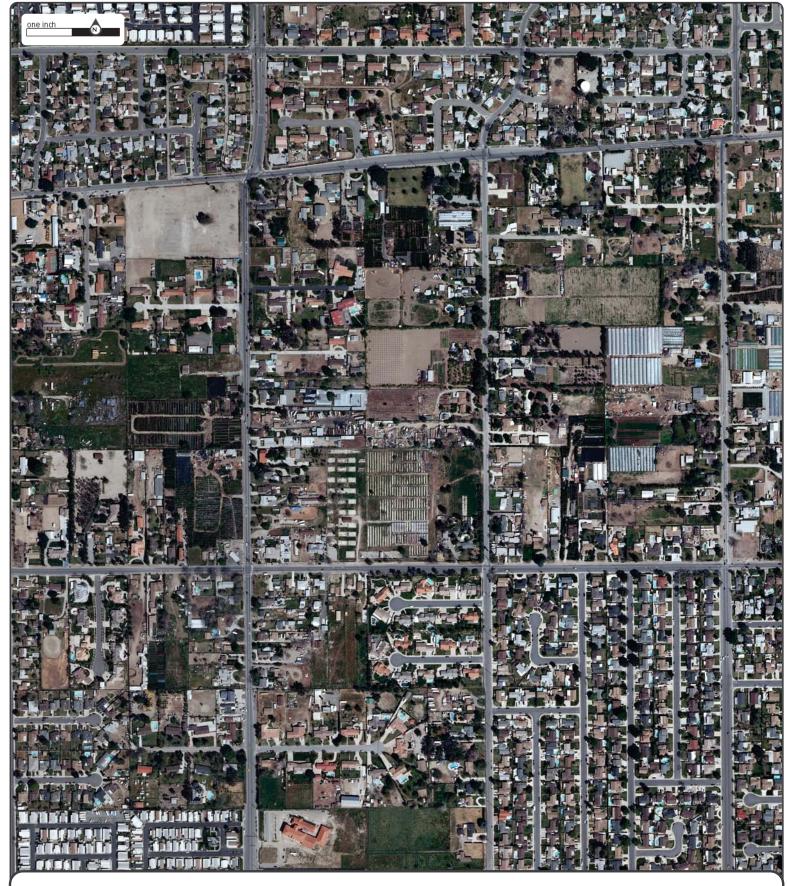




Date: 2010 Source: NAIP Scale: 1" to 500'



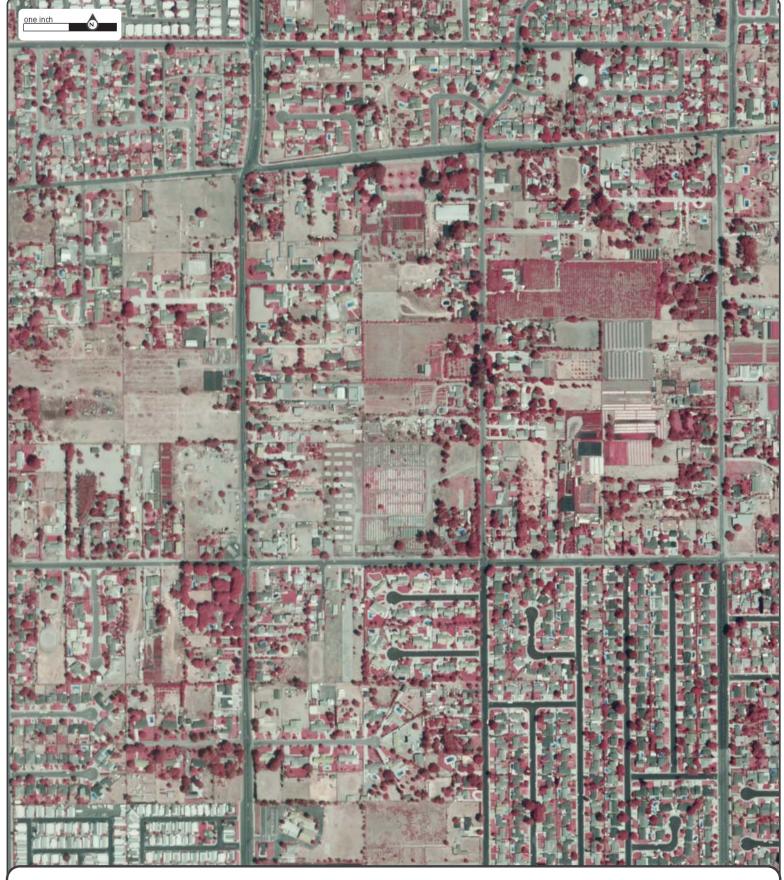




Date: 2009 Source: NAIP Scale: 1" to 500'



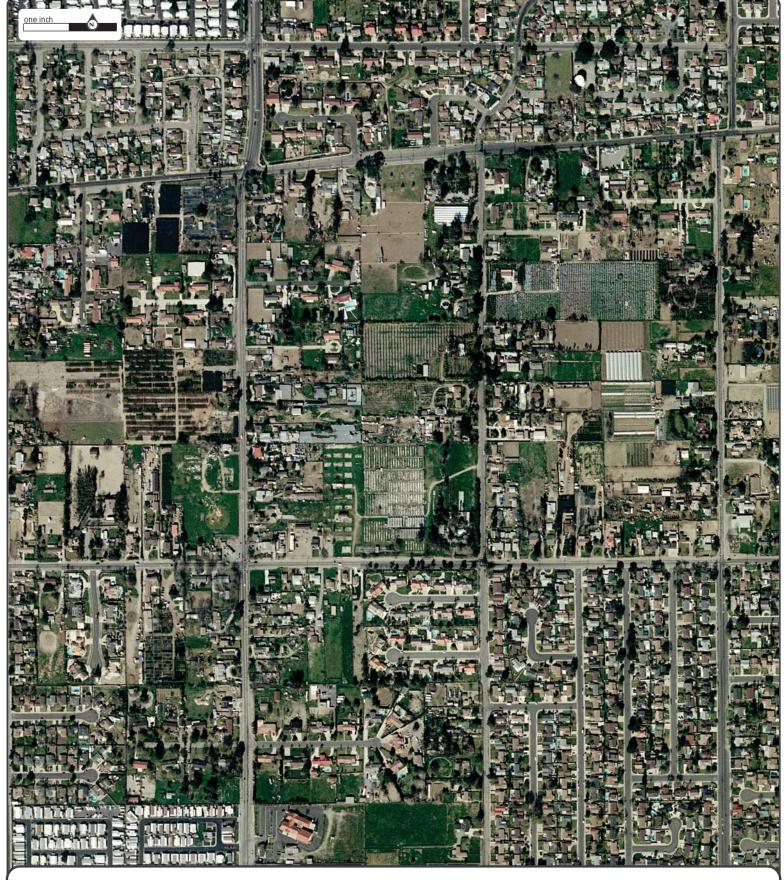




Date: 2005 Source: NAIP Scale: 1" to 500'







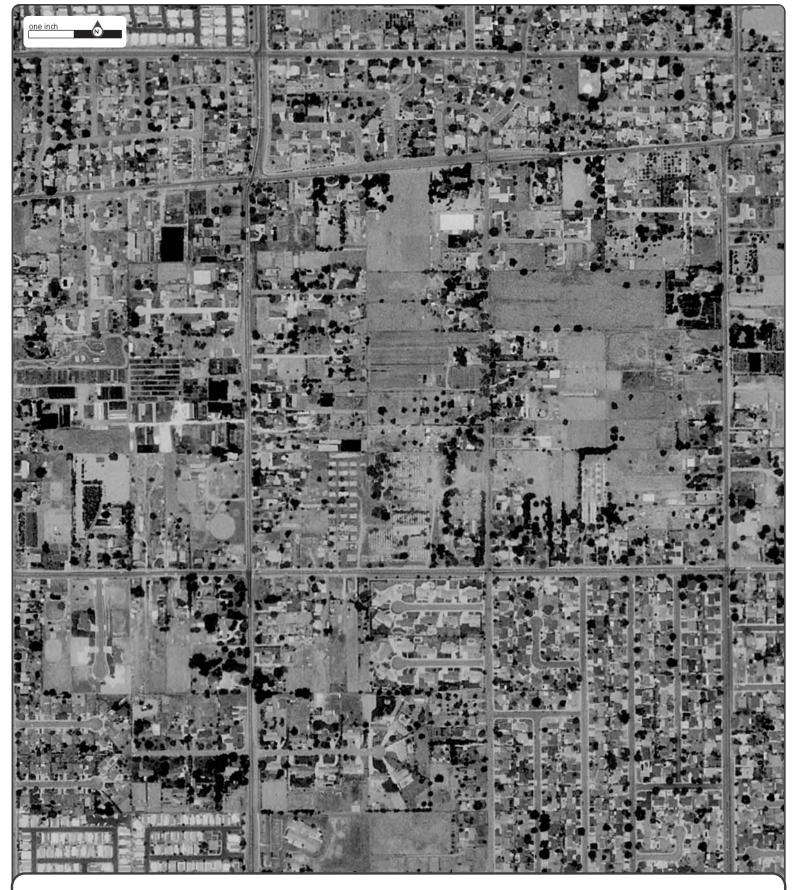
Date: 2003 Source: NAIP Scale: 1" to 500'

Comments:

Subject: 4570 Francis Avenue Chino CA Approx Center: 34.04173 / -117.7042



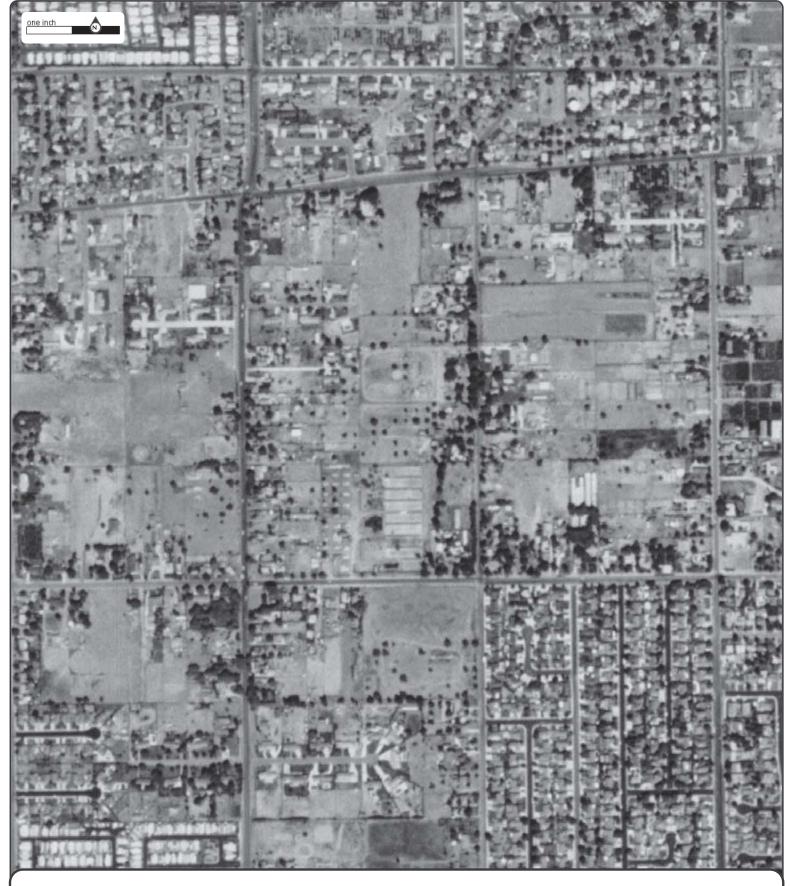




Date: 1994 Source: USGS Scale: 1" to 500'







Date: 1985 Source: NHAP Scale: 1" to 500'

Comments:

N





1980 Date: USGS 1" to 500' Source: Scale:







Date: 1972 Source: USGS Scale: 1" to 500'







Date: 1964 Source: USGS Scale: 1" to 500'







Date: 1952 Source: USGS Scale: 1" to 500'

Comments:

Subject: 4570 Francis Avenue Chino CA Approx Center: 34.04173 / -117.7042





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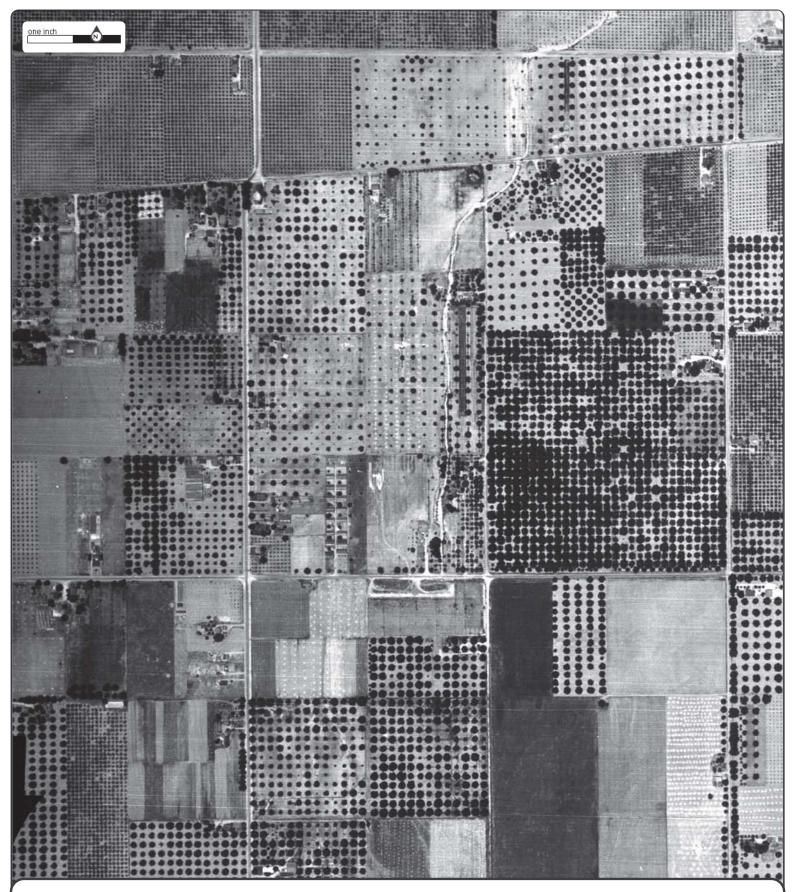


Date: 1947 Source: USGS Scale: 1" to 500'

Comments:

N





Date: 1938 Source: ASCS Scale: 1" to 500'





HIG Research Summary

Site Location Borstein Phase I ESA 4570 Francis Avenue Chino, CA

Conducted For ERIS 38 Lesmill Road, Unit #2 Toronto, ON HIG Project # 1636128

Date Created 07/25/2016



Information Gatherers

This Research Summary identifies the products and services provided by Historical Information Gatherers, Inc. (HIG) for the above referenced site location. All products are provided as PDFs unless otherwise noted.

City Directory Pages/Abstracts

Research Methodology: A search was conducted for city directories that include coverage of the site area using HIG's City Directory Collection and other sources, if needed. Directories for the following years were identified for the site area. A comma between date ranges indicates a gap of 10 years or more in available city directories:

San Bernardino 1986-2011

Riverside-San Bernardino 1976-1981

Pomona 1972

The above listed directories were reviewed at approximate 5 year intervals to determine if the street(s) specified in the order were included in the directories and had listings for the site area. HIG attempted to identify former street names and aliases and if identified, these were also included in the review.

Research Results: When City Directory Pages are provided, the publication name and date are shown at the top of each page. When a City Directory abstract is provided, the first page of the abstract includes the relevant publication information. The years of coverage identified for each street and any identified historical street names are as follows:

Francis Avenue (1972-2011) Yorba Avenue (1972-2011)

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Research Summary for City Directory Abstract

Site Location Borstein Phase I ESA 4570 Francis Avenue Chino, CA HIG Project # 1636128 Date Created 07/25/2016



Conducted For ERIS 38 Lesmill Road, Unit #2 Toronto, ON

HIG has produced a city directory abstract for one or more streets associated with the site location indicated above. The publications used to create the CD Abstract are listed below.

The information below is taken directly from the city directory books. The following are definitions as they are found in the Haines books:

XXXX = is no phone, no people or non-published phone.

600 XXXX = Correct address only. No other information.

X Streetname = intersecting cross street

Publication year, publisher and title

2011 Haines San Bernardino County

2006 Haines San Bernardino

2001 Haines San Bernardino

1996 Haines San Bernardino

1991 Haines San Bernardino

1986 Haines San Bernardino

1981 Haines Riverside - San Bernardino

1976 Haines Riverside - San Bernardino

1972 General Telephone Company Pomona

Abstract Section 1- This section includes the city directory data sorted by address.

1010 5		
4310 Francis Avenue 2011	BAILEY Dale	
2011		
	BAILEY Dale	
2001	BAILEY Dale	
1996	ROSS Lois	
1991	ROSS Lois	
1986	ROSS LOIS	
1981	ROSS LOIS	
1976	HAASE MICHAEL E	
4313 Francis Avenue		
2011	KESER Raymond	
2006	KESER Raymond	
2001	KESER Raymond	
2001	KESER Sandy	
1996	KESER Raymond	
1991	KESER Raymond	
1986	KESER RAYMOND	
1981	KESER RAYMOND	
1976	KESER RAYMOND	
1972	KESER RAYMOND	
4330 Francis Avenue	9	
2011	XXXX	
2006	SANCHEZ Jorge	
2001	PFEIFFER John	
1996	PFEIFFER John	
1991	PFEIFFER John	
1986	PFEIFFER JOHN	
1981	PFEIFFER JOHN	
1976	PFEIFFER JOHN	
4339 Francis Avenue	e	
2011	FRENCH H	
2011	FRENCH Ronald	
2006	FRENCH Ronald	
2001	FRENCH Ronald	
1996	FRENCH Ronald	

1991 **FRENCH Ronald** 1986 FRENCH RONALD 1981 **CLAY STEVE** 4340 Francis Avenue 2011 XXXX 2006 XXXX 2001 **ROBERT Betty** 1996 XXXX 1991 FITZGERALD Mathew **COLLINS TODD** 1986 1981 XXXX LOWE E E 1976 1972 LOWE E E 4357 Francis Avenue 2001 XXXX 1996 XXXX 1991 KAHLER Marvin R XXXX 1986 1981 BAXTER C M DVM 1981 **BROWN STEPHEN** 4378 Francis Avenue **TOWNSEND Elvin** 1991 1991 TOWNSEND Gladys E 1986 TOWNSEND ELVIN 1986 TOWNSEND GLADYS E 1981 TOWNSEND ELVIN 1976 TOWNSEND ELVIN 1972 TOWNSEND ELVIN 4386 Francis Avenue 2001 XXXX 1996 XXXX 1991 XXXX 1986 XXXX4394 Francis Avenue 2011 WEBBER K

WEBBER K

2006

2001	WEBBER K
2001	WEBBER William
1996	WEBBER K
1991	WEBBER K
1986	TOWNSEND R O
1981	TOWNSEND R O
1976	TOWNSEND R O
1972	TOWNSEND R O
4405 Francis Avenue	
2011	HEINSSEN David
2006	HEINSSEN David
2001	HEINSSEN David
1996	HEINSSEN Karl
1991	HEINSSEN Karl
1986	HEINSSEN KARL
1981	HEINSSEN KARL
1976	HEINSSEN KARL
1972	HEINSSEN K
4406 Francis Avenue	
2011	GARCIA Jose
2006	ELIAS Urbano
2006	GARCIA Jose
2006	RUIZ Oscaldo
2001	RUIZ Oscaldo
1996	RUIZ Juan
1991	XXXX
1986	LOPEZ OLIVIA
1981	LOPEZ OLIVIA
1976	GOYENECHE STEVE
1972	GOYENECHE STEVE
4420 Francis Avenue	
2011	BANDA Ruben
2006	BANDA Ruben
2001	FELTY Aaron
1996	CONKLE Geo F
1996	J&J GUEST HOME
4425 Francis Avenue	

2011	LEDESMA Alejandra
2011	PLASCENCIA Marco
2006	DELEON D
2006	LEDEZMA Alejandra
2006	PLASCENCIA Marco
2001	GOMEZ Emelia R
2001	MARTINEZ Patron
2001	PLASCENCIA Marco
1996	SIABA Jose
1972	HEIGLE HENRY
4436 Francis Avenue	
2011	PRECIADO Gregorio
2011	SANTOS Patricia
2006	PRECIADO Gregorio
2001	PRECIADO Gregorio
1996	PRECIADO Gregorio
1991	PRECIADO Gregorio
1986	PRECIADO GREGORIO
1981	PRECIADO GREGORIO
1976	PRECIADO GREGORIO
1972	PRECIADO GREGORIO
4445 Francis Avenue	
2011	SCHALLER Scott
2011	TORRES Albert
2006	SCHALLER Scott
2001	FRANCO Hector
2001	TWEEDIE Zena
1991	XXXX
1986	XXXX
1981	HEINLEIN RAY
1976	HEINLEIN RAY
4446 Francis Avenue	
2011	RIVERA Jose
2006	RIVERA Jose
2001	RIVERA Jose
1996	HURTADO Victor
4458 Francis Avenue	

2006 XXXX 2001 **POTTER William** 1996 XXXX XXXX 1991 1986 POTTER BILL 1981 MAHON MICHAEL P 1981 WADE N 4462 Francis Avenue XXXX 2011 2006 XXXX 4463 Francis Avenue 2011 **GUTIERREZ D** 2011 **GUTIERREZ L** 2006 **GUITERREZ Daniel** 2001 **VRONO** Michaela 2001 WILBANKS Rhonda 1996 WILBANKS Rhonda 4472 Francis Avenue 2011 LAWRENCE Jason 2006 LAWRENCE Jason 1981 **EGGERS LEE** 4480 Francis Avenue 2011 XXXX 2006 LAWRENCE Frieda 2001 LAWRENCE Frieda 1996 XXXX XXXX 1991 XXXX 1986 1981 XXXX **TURPIN WM** 1976 1972 **TURPIN WILLIAM** 4483 Francis Avenue 2011 APODACA Gerald 2011 VALDIVIA Esperanza 2006 APODACA LEGAL SERVICES

SANCHEZ Rafael

2001

1996 **OUIMET John** 1991 XXXX **ROBERTSON CLARENCE** 1986 1981 ROBERTSON CLARENCE 4494 Francis Avenue 2011 M & M MARKET 2006 M & M MARKET 2001 M&M MARKET M&M MARKET 1996 M&M MARKET 1991 1986 M&M MARKET **A&B MARKET** 1981 1976 A&B MKT 1976 ANTILL LEE ROY C 1972 A & B MARKET 4494.5 Francis Avenue 1972 REPAIR SHOP THE 4523 Francis Avenue 2011 XXXX 2006 XXXX 2001 **AFRICA Ronald** 1996 **AFRICA Ronald** 1981 **DENNIS LLOYD** 1976 ALLEN D B 1972 ALLEN D B 4524 Francis Avenue 2011 **BADIOS Richard** 2006 **BADIOS Richard** 2001 **BADIOS Richard BADIOS Richard** 1996 1986 **GEURTS JOHN** 1981 XXXX 1976 **SOARES DENNIS** 4534 Francis Avenue 2011 LOPEZ Alba 2006 LOPEZ Alba

2001	LOPEZ Jose
4534.5 Francis Avenue	
1981	HERBERT ELIZABETH
1976	PRIEST RAYMOND
4543 Francis Avenue	
2011	HARRIS Camille
2006	HARRIS Camille
2001	HARRIS Camille
1996	HARRIS Camille
1991	HARRIS Camille
1986	HARRIS CAMILLE
1981	HARRIS CAMILLE MRS
1976	HARRIS CAMILLE MRS
1972	HARRIS MRS CAMILLE
4549 Francis Avenue	
2011	MCFARLAND Steven
2006	MCFARLAND Steven
2001	MCFARLAND Steven
1996	XXXX
1991	COMBS Fred
1986	XXXX
1981	ASHLEY CHARLIE
1976	CONN ETHEL
4553 Francis Avenue	
2011	PEREZ Francisco
2006	XXXX
2001	LEWIS Ellen
1996	XXXX
1991	XXXX
1986	XXXX
1981	XXXX
4557 Francis Avenue	
2011	XXXX
2006	XXXX
2001	XXXX

XXXX

1996

1991 XXXX 1986 **LEWIS MILTON** 4559 Francis Avenue 2011 XXXX 2006 XXXX 2001 LEWIS Ellen 1996 XXXX XXXX 1991 1986 XXXX 1981 XXXX 4562 Francis Avenue 2011 **VELASQUEZ Albert** 2006 **VELASQUEZ Albert** 2001 VALASQUEZ Albert 1996 SOLTERO Steven 1972 DIAS DAVID A 1972 ZENTLER FRED 4570 Francis Avenue MUNZER William 2011 2006 XXXX 2001 LEE Chin T 1996 **GIFT&CRFT EXCLLNCE** 1996 **MULATO Jose Luis** 1996 N A P S PALLETS 1991 A M PALLETS 1991 **GIFT&CRFT EXCLLNCE** 1991 MULATO Jose Luis TIMAKAS ALEXANDER 1986 1981 XXXX 1976 AMER REX FUR CORP 4573 Francis Avenue 2011 **HEHN Kim** 2006 **HEHN Kim** 2001 **HEHN Kim** 1996 **HEHN Kim**

CARPETER CARL C

1986

1981	CARPENTER CARL C
1976	CARPENTER CARL C
4585 Francis Avenue	
2011	XXXX
2001	CORSON Julia
1996	CORSON Julia
4593 Francis Avenue	
2011	QUACH Steve
2006	MONTANO Guillermo
2001	HERNANDEZ Anita
4664 Francis Avenue	
2011	NAVA Joaquin
2006	NAVA Joaquin
2001	NAVA Joaquin
2001	SALCEDO Eloisa
1996	DELEON Veronica
1996	NAVA Joaquin
1986	JOHNSON D L
1981	JOHNSON D L
1976	ESQUIVIAS MEL
1972	ZENTLER W
4725 Francis Avenue	
2011	BRESCIANI Nikole
2006	BRESCIANI Adam
2001	NELMS Harold
2001	NELMS John
1996	NELMS John
1991	NELMS John
1986	NELMS JOHN
1981	SMITH DONALD
4736 Francis Avenue	
2011	GONZALES David
2006	GONZALES David
2001	GONZALES David
1996	XXXX
1991	XXXX

1986 XXXX 1981 XXXX **GONZALES DAVID** 1976 1972 **GONZALES DAVID** 4739 Francis Avenue 2011 **BURTON K** 2011 LANGFIELD K 2006 **BURTON Karen** 2001 **BURTON Karen** 1996 **BURTON Karen** 1991 XXXX XXXX 1986 1981 XXXX 1976 CAREY ORA GRACE 1972 CAREY ORA GRACE 4740 Francis Avenue 2011 XXXX 2001 WILSON Bridget 1996 XXXX REY Erens M 1991 1986 PIERCE KERRY DYKSTRA GARY 1981 4744 Francis Avenue XXXX 2011 2006 XXXX XXXX 2001 XXXX 1996 1991 XXXX 1986 XXXX1981 **POLSON MARLA** 1972 HAMILTON RICHARD 4746 Francis Avenue 2011 **GOMEZ Carlos** 2006 XXXX **NEGRETE** Marie 2001 4758 Francis Avenue

2011	ESPINOZA Leticia
2011	MARQUEZ Gilbert
2006	ESPINOZA Leticia
2006	MARQUEZ Gilbert
2001	MARIN Enoch
2001	MARQUEZ Gilbert
1996	ROGERS Dale
1991	XXXX
1986	GERMAN DAVID
1981	ROMAINE ORIGINALS
4759 Francis Avenue	
2011	PATTERSON Susie
2006	PATTERSON Susie
2001	PATTERSON Donald
1996	PATTERSON Donald
1981	WALL RICHARD
4770 Francis Avenue	
2011	AYALA Esther
2006	AYALA Hector
2006	AYALA Pedro
2001	AYALA Juana
2001	AYALA Pedro
1996	GARCIA Juan
1986	CHAVEZ MARIA
1981	CHAVEZ MARIA
4782 Francis Avenue	
2011	GOSE James
2011	MACIEL Dean
2011	SANTOS Thomas
2006	XXXX
2001	XXXX
1996	MICHL Mark
1991	MICHL Mark
1986	MICHL MARK
1981	MICHL CHAS M
1976	MICHL CHAS M
1972	MICHL CHARLES M

4798 Francis Avenue	
2011	XXXX
2006	HERNADEZ Micheal
2001	HERNANDEZ Ramon
1996	MICHL Frank
1991	MICHL Frank
1986	MICHL FRANK
1981	MICHL FRANK
1976	MICHL FRANK
1972	MICHL FRANK
4808 Francis Avenue	
2011	XXXX
2001	COKELEY Don
2001	COKELEY Margaret
1996	COKELEY Don
1996	COKELEY Margaret
1991	COKELEY Don
1991	COKELEY Margaret
1986	ADAY ARLY S
1981	ADAY ARLY S
1976	ADAY ARLY S
1972	ADAY A S
4812 Francis Avenue	
2011	JIMENEZ Genaro
2006	JIMENEZ Genaro
2001	COKELEY Donald
1981	XXXX
1976	OLIVER J
1972	ALLEN MAGDALEN
4824 Francis Avenue	
2011	ALVARADO Carlos
2006	CHALUPNIK Edw
2001	CHALUPNIK Edw
1996	CHALUPNIK Edw
1991	CHALUPNIK Edw
4842 Francis Avenue	
2011	BROWN Rosemary

2006	BROWN Rosemary
2001	BROWN Joel A
2001	BROWN R G
1996	BROWN Joel A
1996	BROWN R G
1991	BROWN Joel A
1991	BROWN R G
1986	BROWN JOEL A
1976	WARREN JOHN R
1972	WARREN JOHN
4852 Francis Avenue	
2011	DEBIE Cornelius
2006	DEBIE Cornelius
2001	DEBIE Cornelius
1996	DEBIE C J
1991	DEBIE C J
1986	DEBIE C J
1981	DEBIE C J
4866 Francis Avenue	
2011	MURPHY Douglas
2006	MURPHY Douglas
2001	MURPHY Douglas
1996	PIPERSKY Emil
1991	PIPERSKY Emil
1986	PIPERSKY EMIL
1981	PIPERSKY EMIL
1976	PIPERSKY EMIL
1972	PIPERSKY EMIL
4892 Francis Avenue	
2011	ERBSTOESSER Chas 909
2011	FRANCISCO Cody
2011	MORITZ Stacey
2006	ERBSTOESSER Chas
2001	ERBSTOESSER Chas
1996	ERBSTOESSER Chas
1991	ERBSTOESSER Chas
1981	NAGEL LINDA

1976 CHIREMPES RAY1972 CHIREMPES RAY

Abstract Section 2: This section includes the city directory data sorted by the year the city directory was published.

2011	
	X NORTON AVE
4310	BAILEY Dale
4313	KESER Raymond
4330	XXXX
4339	FRENCH H
4339	FRENCH Ronald
4340	XXXX
	X FRANCIS WAY
	X CONCORD CT
4394	WEBBER K
4405	HEINSSEN David
4406	GARCIA Jose
4420	BANDA Ruben
4425	LEDESMA Alejandra
4425	PLASCENCIA Marco
4436	PRECIADO Gregorio
4436	SANTOS Patricia
4445	SCHALLER Scott
4445	TORRES Albert
4446	RIVERA Jose
4462	XXXX
4463	GUTIERREZ D
4463	GUTIERREZ L
4472	LAWRENCE Jason
4480	XXXX
4483	APODACA Gerald
4483	VALDIVIA Esperanza
4494	M & M MARKET
	X RAMONA AVE
4523	XXXX
4524	BADIOS Richard

4534	LOPEZ Alba
4543	HARRIS Camille
4549	MCFARLAND Steven
4553	PEREZ Francisco
4557	XXXX
4559	XXXX
4562	VELASQUEZ Albert
4570	MUNZER William
4573	HEHN Kim
4585	XXXX
4593	QUACH Steve
4664	NAVA Joaquin
	X YORBA AVE
4725	BRESCIANI Nikole
4736	GONZALES David
4739	BURTON K
4739	LANGFIELD K
4740	XXXX
4744	XXXX
4746	GOMEZ Carlos
4758	ESPINOZA Leticia
4758	MARQUEZ Gilbert
4759	PATTERSON Susie
4770	AYALA Esther
	X SERRA AVE
4782	GOSE James
4782	MACIEL Dean
4782	SANTOS Thomas
4798	XXXX
	X CARLISLE AVE
4808	XXXX
4812	JIMENEZ Genaro
4824	ALVARADO Carlos
4842	BROWN Rosemary
	X CRYSTAL AVE
4852	DEBIE Cornelius
4866	MURPHY Douglas

4892	ERBSTOESSER Chas 909
4892	FRANCISCO Cody
4892	MORITZ Stacey
	X MONTE VISTA AVE
2006	
	X NORTON AVE
4310	BAILEY Dale
4313	KESER Raymond
4330	SANCHEZ Jorge
4339	FRENCH Ronald
4340	XXXX
	X FRANCIS WAY
	X CONDCORD CT
4394	WEBBER K
4405	HEINSSEN David
4406	ELIAS Urbano
4406	GARCIA Jose
4406	RUIZ Oscaldo
4420	BANDA Ruben
4425	DELEON D
4425	LEDEZMA Alejandra
4425	PLASCENCIA Marco
4436	PRECIADO Gregorio
4445	SCHALLER Scott
4446	RIVERA Jose
4458	XXXX
4462	XXXX
4463	GUITERREZ Daniel
4472	LAWRENCE Jason
4480	LAWRENCE Frieda
4483	APODACA LEGAL SERVICES
4494	M & M MARKET
	X RAMONA AVE
4523	XXXX

BADIOS Richard

HARRIS Camille

LOPEZ Alba

4524

4534

4549	MCFARLAND Steven	
4553	XXXX	
4557	XXXX	
4559	XXXX	
4562	VELASQUEZ Albert	
4570	XXXX	
4573	HEHN Kim	
4593	MONTANO Guillermo	
4664	NAVA Joaquin	
	X CARLISLE AVE	
	X YORBA AVE	
4725	BRESCIANI Adam	
4736	GONZALES David	
4739	BURTON Karen	
4744	XXXX	
4746	XXXX	
4758	ESPINOZA Leticia	
4758	MARQUEZ Gilbert	
4759	PATTERSON Susie	
4770	AYALA Hector	
4770	AYALA Pedro	
	X SERRA AVE	
4782	XXXX	
4798	HERNADEZ Micheal	
4812	JIMENEZ Genaro	
4824	CHALUPNIK Edw	
4842	BROWN Rosemary	
	X CRYSTAL AVE	
4852	DEBIE Cornelius	
4866	MURPHY Douglas	
4892	ERBSTOESSER Chas	
	X MONTE VISTA AVE	
2001		
	X NORTON AV	
4310	BAILEY Dale	
4313	KESER Raymond	
4313	KESER Sandy	

4330	PFEIFFER John
4339	FRENCH Ronald
4340	ROBERT Betty
4357	XXXX
	X FRANCIS WAY
	X CONCORD CT
4386	XXXX
4394	WEBBER K
4394	WEBBER William
4405	HEINSSEN David
4406	RUIZ Oscaldo
4420	FELTY Aaron
4425	GOMEZ Emelia R
4425	MARTINEZ Patron
4425	PLASCENCIA Marco
4436	PRECIADO Gregorio
4445	FRANCO Hector
4445	TWEEDIE Zena
4446	RIVERA Jose
4458	POTTER William
4463	VRONO Michaela
4463	WILBANKS Rhonda
4480	LAWRENCE Frieda
4483	SANCHEZ Rafael
4494	M&M MARKET
	X RAMONA AV
4523	AFRICA Ronald
4524	BADIOS Richard
4534	LOPEZ Jose
4543	HARRIS Camille
4549	MCFARLAND Steven
4553	LEWIS Ellen
4557	XXXX
4559	LEWIS Ellen
4562	VALASQUEZ Albert
4570	LEE Chin T
4573	HEHN Kim

4585	CORSON Julia
4593	HERNANDEZ Anita
4664	NAVA Joaquin
4664	SALCEDO Eloisa
	X YORBA AV
4725	NELMS Harold
4725	NELMS John
4736	GONZALES David
4739	BURTON Karen
4740	WILSON Bridget
4744	XXXX
4746	NEGRETE Marie
4758	MARIN Enoch
4758	MARQUEZ Gilbert
4759	PATTERSON Donald
4770	AYALA Juana
4770	AYALA Pedro
	X SERRA AV
4782	XXXX
4798	HERNANDEZ Ramon
4808	COKELEY Don
4808	COKELEY Margaret
4812	COKELEY Donald
	X CARLISLE AV
4824	CHALUPNIK Edw
4842	BROWN Joel A
4842	BROWN R G
	X CRYSTAL AV
4852	DEBIE Cornelius
4866	MURPHY Douglas
4892	ERBSTOESSER Chas
	X MONTE VISTA AV
1996	
4310	ROSS Lois
4313	KESER Raymond
4330	PFEIFFER John
4339	FRENCH Ronald

4340	XXXX
4357	XXXX
4386	XXXX
4394	WEBBER K
4405	HEINSSEN Karl
4406	RUIZ Juan
4420	CONKLE Geo F
4420	J&J GUEST HOME
4425	SIABA Jose
4436	PRECIADO Gregorio
4446	HURTADO Victor
4458	XXXX
4463	WILBANKS Rhonda
4480	XXXX
4483	OUIMET John
4494	M&M MARKET
4523	AFRICA Ronald
4524	BADIOS Richard
4543	HARRIS Camille
4549	XXXX
4553	XXXX
4557	XXXX
4559	XXXX
4562	SOLTERO Steven
4570	GIFT&CRFT EXCLLNCE
4570	MULATO Jose Luis
4570	N A P S PALLETS
4573	HEHN Kim
4585	CORSON Julia
4664	DELEON Veronica
4664	NAVA Joaquin
4725	NELMS John
4736	XXXX
4739	BURTON Karen
4740	XXXX
4744	XXXX
4758	ROGERS Dale

4759	PATTERSON Donald
4770	GARCIA Juan
4782	MICHL Mark
4798	MICHL Frank
4808	COKELEY Don
4808	COKELEY Margaret
4824	CHALUPNIK Edw
4842	BROWN Joel A
4842	BROWN R G
4852	DEBIE C J
4866	PIPERSKY Emil
4892	ERBSTOESSER Chas
1991	
4310	ROSS Lois
4313	KESER Raymond
4330	PFEIFFER John
4339	FRENCH Ronald
4340	FITZGERALD Mathew
4357	KAHLER Marvin R
4378	TOWNSEND Elvin
4378	TOWNSEND Gladys E
4386	XXXX
4394	WEBBER K
4405	HEINSSEN Karl
4406	XXXX
4436	PRECIADO Gregorio
4445	XXXX
4458	XXXX
4480	XXXX
4483	XXXX
4494	M&M MARKET
4543	HARRIS Camille
4549	COMBS Fred
4553	XXXX
4557	XXXX
4559	XXXX
4570	A M PALLETS

4570	GIFT&CRFT EXCLLNCE	
4570	MULATO Jose Luis	
4725	NELMS John	
4736	XXXX	
4739	XXXX	
4740	REY Erens M	
4744	XXXX	
4758	XXXX	
4782	MICHL Mark	
4798	MICHL Frank	
4808	COKELEY Don	
4808	COKELEY Margaret	
4824	CHALUPNIK Edw	
4842	BROWN Joel A	
4842	BROWN R G	
4852	DEBIE C J	
4866	PIPERSKY Emil	
4892	ERBSTOESSER Chas	
1986		
4310	ROSS LOIS	
4313	KESER RAYMOND	
4330	PFEIFFER JOHN	
4339	FRENCH RONALD	
4340	COLLINS TODD	
4357	XXXX	
4378	TOWNSEND ELVIN	
4378	TOWNSEND GLADYS E	
4386	XXXX	
4394	TOWNSEND R O	
4405	HEINSSEN KARL	
4406	LOPEZ OLIVIA	
4436	PRECIADO GREGORIO	
4445	XXXX	
4458	POTTER BILL	
4480	XXXX	
4483	ROBERTSON CLARENCE	
4494	M&M MARKET	

4524	GEURTS JOHN	
4543	HARRIS CAMILLE	
4549	XXXX	
4553	XXXX	
4557	LEWIS MILTON	
4559	XXXX	
4570	TIMAKAS ALEXANDER	
4573	CARPETER CARL C	
4664	JOHNSON D L	
4725	NELMS JOHN	
4736	XXXX	
4739	XXXX	
4740	PIERCE KERRY	
4744	XXXX	
4758	GERMAN DAVID	
4770	CHAVEZ MARIA	
4782	MICHL MARK	
4798	MICHL FRANK	
4808	ADAY ARLY S	
4842	BROWN JOEL A	
4852	DEBIE C J	
4866	PIPERSKY EMIL	
1981		
4310	ROSS LOIS	
4313	KESER RAYMOND	
4330	PFEIFFER JOHN	
4339	CLAY STEVE	
4340	XXXX	
4357	BAXTER C M DVM	
4357	BROWN STEPHEN	
4378	TOWNSEND ELVIN	
4394	TOWNSEND R O	
4405	HEINSSEN KARL	
4406	LOPEZ OLIVIA	
4436	PRECIADO GREGORIO	
4445	HEINLEIN RAY	
4458	MAHON MICHAEL P	

	4458	WADE N
	4472	EGGERS LEE
	4480	XXXX
	4483	ROBERTSON CLARENCE
	4494	A&B MARKET
	4523	DENNIS LLOYD
	4524	XXXX
	4534.5	HERBERT ELIZABETH
	4543	HARRIS CAMILLE MRS
	4549	ASHLEY CHARLIE
	4553	XXXX
	4559	XXXX
	4570	XXXX
	4573	CARPENTER CARL C
	4664	JOHNSON D L
	4725	SMITH DONALD
	4736	XXXX
	4739	XXXX
	4740	DYKSTRA GARY
	4744	POLSON MARLA
	4758	ROMAINE ORIGINALS
	4759	WALL RICHARD
	4770	CHAVEZ MARIA
	4782	MICHL CHAS M
	4798	MICHL FRANK
	4808	ADAY ARLY S
	4812	XXXX
	4852	DEBIE C J
	4866	PIPERSKY EMIL
	4892	NAGEL LINDA
19	976	
	4310	HAASE MICHAEL E
	4313	KESER RAYMOND
	4330	PFEIFFER JOHN
	4340	LOWE E E
	4378	TOWNSEND ELVIN
	4394	TOWNSEND R O

4405	HEINSSEN KARL
4406	GOYENECHE STEVE
4436	PRECIADO GREGORIO
4445	HEINLEIN RAY
4480	TURPIN WM
4494	A&B MKT
4494	ANTILL LEE ROY C
4523	ALLEN D B
4524	SOARES DENNIS
4534.5	PRIEST RAYMOND
4543	HARRIS CAMILLE MRS
4549	CONN ETHEL
4570	AMER REX FUR CORP
4573	CARPENTER CARL C
4664	ESQUIVIAS MEL
4736	GONZALES DAVID
4739	CAREY ORA GRACE
4782	MICHL CHAS M
4798	MICHL FRANK
4808	ADAY ARLY S
4812	OLIVER J
4842	WARREN JOHN R
4866	PIPERSKY EMIL
4892	CHIREMPES RAY
1972	
4313	KESER RAYMOND
4340	LOWE E E
4378	TOWNSEND ELVIN
4394	TOWNSEND R O
4405	HEINSSEN K
4406	GOYENECHE STEVE
4425	HEIGLE HENRY
4436	PRECIADO GREGORIO
4480	TURPIN WILLIAM
4494	A & B MARKET
4494.5	REPAIR SHOP THE
4523	ALLEN D B

4543	HARRIS MRS CAMILLE
4562	DIAS DAVID A
4562	ZENTLER FRED
4664	ZENTLER W
4736	GONZALES DAVID
4739	CAREY ORA GRACE
4744	HAMILTON RICHARD
4782	MICHL CHARLES M
4798	MICHL FRANK
4808	ADAY A S
4812	ALLEN MAGDALEN
4842	WARREN JOHN
4866	PIPERSKY EMIL
4892	CHIREMPES RAY

Research Summary for City Directory Abstract

Site LocationBorstein Phase I ESA
4570 Francis Avenue
Chino, CA

HIG Project # 1636128 Date Created 07/25/2016



Conducted For ERIS 38 Lesmill Road, Unit #2

Toronto, ON

HIG has produced a city directory abstract for one or more streets associated with the site location indicated above. The publications used to create the CD Abstract are listed below.

The information below is taken directly from the city directory books. The following are definitions as they are found in the Haines books:

XXXX = is no phone, no people or non-published phone.

600 XXXX = Correct address only. No other information.

X Streetname = intersecting cross street

Publication year, publisher and title

2011 Haines San Bernardino County

2006 Haines San Bernardino

2001 Haines San Bernardino

1996 Haines San Bernardino

1991 Haines San Bernardino

1986 Haines San Bernardino

1981 Haines Riverside - San Bernardino

1976 Haines Riverside - San Bernardino

1972 General Telephone Company Pomona

Abstract Section 1- This section includes the city directory data sorted by address.

11393 Yorba Avenue		
2011	JACE GUEST HOME	
2011	YAN Cecile	
2006	JACE GUEST HOME	
2006	YAN Jean	
2001	JACE GUEST HOME	
2001	YAN Jean	
1996	JACE GUEST HOME	
1991	JACE GUEST HOME	
11411 Yorba Avenue	e	
2011	FORSCHLER Howard A	
2006	FORSCHLER Howard A	
2001	FORSCHLER Howard A	
1996	FORSCHLER Howard A	
1991	FORSCHLER Howard A	
1986	FORSCHLER HOWARD A	
1981	FORSCHLER HOWARD A	
1976	FORSCHLER H A	
1972	FORSCHLER HOWARD A	
11419 Yorba Avenue	9	
2011	BUNDALIAN-ST Marcia	
2011	STEPHEN Anthony	
2006	STEPHEN Anthony	
2001	STEPHEN Anthony	
1996	STEPHEN Anthony	
1991	STEPHEN Anthony	
1986	STEPHEN ANTHONY P	
1981	STEPHEN ANTHONY P	
1976	STEPEN ANTHONY P	
11420 Yorba Avenue	e	
2011	XXXX	
2001	SAULNIER James	
1996	XXXX	
1991	XXXX	
1986	xxxx	

1981	XXXX
11424 Yorba Avenue	
2011	MARIN Ruben
2006	PRUETT Cassa
2001	PRUETT Cassa
1996	PRUETT Cassa
1991	PRUETT Cassa
1986	PRUETT CASSA
1981	PRUETT CASSA
1976	PRUETT CASSA
1972	PRUETT CASSA
11430 Yorba Avenue	
2001	S&R NURSERY
1996	S&R NURSERY
1991	NATURES OWN GREENHS
11444 Yorba Avenue	
2011	BUENROSTRO Martin
2011	OWENS Cindy
2006	BUENROSTRO Martin
2001	BUENROSTRO Martin
1996	MORENO Marcelino
1976	PRUETT MICHAEL N
1972	PRUETT M N
11448 Yorba Avenue	
2011	XXXX
2006	XXXX
2001	WEDELL James
1996	CORDASCO Pat
1996	CORDASCO Suzie
11450 Yorba Avenue	
2011	KAAN Linda
1976	DELGADO VICENTE
1972	DELGADO VICENTE
11456 Yorba Avenue	
2011	XXXX

WELDELL Jim

2001 XXXX 1996 XXXX **DELGADO Erasto Cera** 1991 1986 **DELGADO ERASTO CERA** 1981 **TELFORD CHARLES** 1972 **WRIGHT BILL** 11470 Yorba Avenue 2011 XXXX XXXX 2006 2001 WEDELL Jim 1996 XXXX 1991 **SLONE Denver** 1986 SLONE DENVER 1981 **GULIZIA SANDRA** 1981 SLONE DENVER 1972 KINSLOW M D 11475 Yorba Avenue LEE Chin Te 2011 2006 LEE Chin Te 2001 LEE Chin Te 11494 Yorba Avenue **CORONADO Steve** 2011 2011 CRISTOFOL Kathryn 2006 **CRUSTOFOL Dora** 2001 **CRISTOFOL Dora CRISTOFOL** Dora 1996 1991 XXXX CORONADO JULIAN A 1981 1976 ROSS BEN N 1972 ROSS B N 11511 Yorba Avenue 2011 XXXX 2006 CLAY C 2006 **TAMANG Abel** CLAY C 2001 2001 **COLLINS** George

1996 CLAY C 1996 **CALLINS Carol** CLAY C 1991 CLAY C 1986 11522 Yorba Avenue 2011 **CHEN Charles** 2006 TSAI Ching-san 2001 **TSAI Ching** 1996 XXXX 1986 PHILLIPS HAY CO 1981 **HEIM JOE** 1981 PHILIPS RAY 1976 PHILLIPS RAY 11529 Yorba Avenue 2011 **TAMANG Abel** 2011 TAMANG ELECTRIC 2006 TAMANG ELECTRIC 2001 LIN Meiling 2001 WANG Jung 1996 **COREY Barbara** 1991 XXXX XXXX 1986 1981 MARLEY IND SALES 1981 MARLEY SHERRY 11535 Yorba Avenue 2011 XXXX 1986 OSHEA L 1981 OSHEA L 11545 Yorba Avenue 2011 **TAMANG Abel** 2006 **TAMANG Abel** 2001 **ALDERSON Jim** 2001 STOWE Jefferson 2001 WRIGHT Judy 1996 LOPEZ Ramon

STOWE Jeff

1996	WRIGHT Judy
1991	STOWE Jeff
1991	WRIGHT Judy
1986	WRIGHT JUDY
1981	CLARK CAROL
1981	KENNEDY M
1976	CUNNINGHAM J E
1976	KENNEDY M
1972	CUNNINGHAM J E
11576 Yorba Avenue	
2011	CHEN Shun-hsiang
2006	CHEN Shun-hsiang
2001	CHEN Shun
1996	XXXX
1991	MORAN Arthur
1986	MORAN ARTHUR H
1981	MORAN ARTHUR H
1976	MORAN ARTHUR H
1972	MORAN ARTHUR H
11580 Yorba Avenue	
2011	LEE Vicki
2006	CHEN Petty
2001	CHEN Petty
2001	CHEN Shun H
1996	XXXX
1991	
1001	XXXX
1986	XXXX XXXX
1986	XXXX
1986 1981	XXXX
1986 1981 11588 Yorba Avenue	XXXX XXXX
1986 1981 11588 Yorba Avenue 2011	XXXX XXXX BARBOSA Mario
1986 1981 11588 Yorba Avenue 2011 2006	XXXX XXXX BARBOSA Mario BARBOSA Mario
1986 1981 11588 Yorba Avenue 2011 2006 2001	XXXX XXXX BARBOSA Mario BARBOSA Mario BARBOSA Mario
1986 1981 11588 Yorba Avenue 2011 2006 2001 1981	XXXX XXXX BARBOSA Mario BARBOSA Mario BARBOSA Mario MCCLANAHAN T W
1986 1981 11588 Yorba Avenue 2011 2006 2001 1981	XXXX XXXX BARBOSA Mario BARBOSA Mario BARBOSA Mario MCCLANAHAN T W WILSON KEN

2011 KING Otis 2006 KING Otis 2001 KING Joan 2001 KING Otis 1981 **DOUGLASS GORDON** 1981 TAYLOR PATRICIA 11589.5 Yorba Avenue 1986 PETERSON CRAIG 11591 Yorba Avenue 2011 JOHNSON Maryann 2006 JOHNSON Maryann 11617 Yorba Avenue 2011 **CROWDER Steve** 2006 **CROWDER Steve** 2001 **CROWDER Steve** 1996 **CROWDER Steve** 1972 **ROSS MARY S** 11627 Yorba Avenue 2011 **DIX Jaysen** 2011 **JONES Thomas** JONES Thomas 2006 2001 **JONES Thomas** 1996 XXXX 1991 ALEXANDRE Tom 1981 SASSEN RONALD L 11639 Yorba Avenue 2011 **REYES Raul** 2006 **REYES Raul** 2001 XXXX 1991 **ALVARADO Angel** 1986 RASPA ROSSANA 1976 **UTTZ PHILLIP** 1972 SIFUENTES E A 11639.5 Yorba Avenue 1991 ALVARADO Odilia M

RUTHWELL BROOKE

1976	JONES RONALD F E
11647 Yorba Avenue	
2011	DELGADDO Ernestina
2006	DELGADDO Ernestina
2001	AVILA Tiotonio
1981	WALLACE BILL
1976	NAGY SIGMUND
11647.5 Yorba Avenue	
1991	GORDILLO Julio R
1986	ALEXANDRE TOM
11667 Yorba Avenue	
1981	NAGY SIGMUND
1972	BURREX PROPERTIES
11667.5 Yorba Avenue	
2001	BAXTER Susan
1986	TURNURE JOHN G
1981	TURNURE JOHN G
1972	MONTI CARMINE
11669 Yorba Avenue	
2011	REYNOLDS B
2011	TUCKER Rebekah
2006	REYNOLDS B
1981	OROSCO PHILIP
1972	MCCOY NATH
11669.5 Yorba Avenue	
1991	STORY Eva
1986	STORY EVA
1981	HARTWIG BROOK
11711 Yorba Avenue	
2011	GRIMES Robt
2006	GRIMES Robt
2001	GRIMES Robt
1996	GRIMES Robt
1991	GRIMES Robt
1986	GRIMES ROBT
1981	GRIMES ROBT

11723 Yorba Avenue	
2011	FOWLER Kevin
2006	FOWLER Kevin
2001	FOWLER Kevin
1996	FOWLER Kevin
1991	XXXX
1986	XXXX
1981	XXXX
11735 Yorba Avenue	
2011	FLORES Ralph
2006	FLORES Yolanda
11747 Yorba Avenue	
2011	MCCLELLAN Charles
2006	MCCLELLAN Charles
2001	MCCLELLAN Charles
1996	MCCLELLAN Charles
1991	XXXX
1986	CRAIG CONRAD M
1981	CRAIG CONRAD M
11759 Yorba Avenue	
2011	LOPEZ Lawrence
2006	LOPEZ Lawrence
2001	LOPEZ Lawrence
1996	LOPEZ Lawrence
1986	SIDDONS ALAN
1981	SIDDONS ALAN
11761 Yorba Avenue	
2011	ALBERTO Zori
2011	MAPARA Cassim
2006	ALBERTO Zorid
2006	MAPARA Cassim
2001	MAPARA Cassim
1996	JACKSON Lee
1991	MAPARA Cassim
	OCHOA JIM
1986	OCHOA JIW
1986 1981	OCHOA JIM OCHOA JIM

2011	CRUZ Nadine
2011	VILLA Richard
2006	CRUZ Nadine
2006	VILLA Richard
2001	CRUZ Nadine
1996	HEARN Carol
1986	STEVENS ED
1981	STEVENS ED
11785 Yorba Avenue	
2011	NIELSON Malene
2011	WORLEY Alison
2006	NIELSON Malene
2001	NIELSON Malene
1996	NIELSON Donald
1991	NIELSON Donald
1986	NIELSON DONALD
1981	ADAMS PHILLIP
11797 Yorba Avenue	
2011	PITTS Robert
2006	PITTS Robert
2001	PITTS Robert
1996	PITTS Robert
1991	XXXX
1986	ROCHFORD STEPHEN
1981	ROCHFORD STEPEN

Abstract Section 2: This section includes the city directory data sorted by the year the city directory was published.

2011		
	X GREENWOOD WAY	
11393	JACE GUEST HOME	
11393	YAN Cecile	
11411	FORSCHLER Howard A	
11419	BUNDALIAN-ST Marcia	
11419	STEPHEN Anthony	
11420	XXXX	
11424	MARIN Ruben	

	X ORANGE BLOSSOM LN
11444	BUENROSTRO Martin
11444	OWENS Cindy
11448	XXXX
11450	KAAN Linda
11456	XXXX
11470	XXXX
11475	LEE Chin Te
11494	CORONADO Steve
11494	CRISTOFOL Kathryn
11511	XXXX
11522	CHEN Charles
11529	TAMANG Abel
11529	TAMANG ELECTRIC
11535	XXXX
11545	TAMANG Abel
11576	CHEN Shun-hsiang
11580	LEE Vicki
11588	BARBOSA Mario
11589	KING Otis
11591	JOHNSON Maryann
11617	CROWDER Steve
11627	DIX Jaysen
11627	JONES Thomas
11639	REYES Raul
11647	DELGADDO Ernestina
11669	REYNOLDS B
11669	TUCKER Rebekah
	X FRANCIS AVE
11711	GRIMES Robt
11723	FOWLER Kevin
	X LA CAUSEY CT
11735	FLORES Ralph
11747	MCCLELLAN Charles
11759	LOPEZ Lawrence
11761	ALBERTO Zori
11761	MAPARA Cassim

	X LA MASITA CT
11773	CRUZ Nadine
11773	VILLA Richard
11785	NIELSON Malene
11785	WORLEY Alison
11797	PITTS Robert
	X WALDEN ST
2006	
2000	X GREENWOOD WAY
11393	JACE GUEST HOME
11393	YAN Jean
11411	FORSCHLER Howard A
11419	STEPHEN Anthony
11424	PRUETT Cassa
	X ORANGE BLOSSOM LN
11444	BUENROSTRO Martin
11448	XXXX
11456	WELDELL Jim
11470	XXXX
11475	LEE Chin Te
11494	CRUSTOFOL Dora
11511	CLAY C
11511	TAMANG Abel
11522	TSAI Ching-san
11529	TAMANG ELECTRIC
11545	TAMANG Abel
11576	CHEN Shun-hsiang
11580	CHEN Petty
11588	BARBOSA Mario
11589	KING Otis
11591	JOHNSON Maryann
11617	CROWDER Steve
11627	JONES Thomas
11639	REYES Raul
11647	DELGADDO Ernestina
11669	REYNOLDS B
	X FRANCIS AVE

11711	GRIMES Robt	
11723	FOWLER Kevin	
	X LA CAUSEY CT	
11735	FLORES Yolanda	
11747	MCCLELLAN Charles	
11759	LOPEZ Lawrence	
11761	ALBERTO Zorid	
11761	MAPARA Cassim	
	X LA MASITA CT	
11773	CRUZ Nadine	
11773	VILLA Richard	
11785	NIELSON Malene	
11797	PITTS Robert	
	X WALDEN ST	
2001		
11393	JACE GUEST HOME	
11393	YAN Jean	
	X ORANGE BLOSSOM LN	
	X GREENWOOD WAY	
	X PHILLIPS BLVD	
11411	FORSCHLER Howard A	
11419	STEPHEN Anthony	
11420	SAULNIER James	
11424	PRUETT Cassa	
11430	S&R NURSERY	
11444	BUENROSTRO Martin	
11448	WEDELL James	
11456	XXXX	
11470	WEDELL Jim	
11475	LEE Chin Te	
11494	CRISTOFOL Dora	
	X ELM	
11511	CLAY C	
11511	COLLINS George	
11522	TSAI Ching	
11529	LIN Meiling	
11529	WANG Jung	

11545	ALDERSON Jim	
11545	STOWE Jefferson	
11545	WRIGHT Judy	
11576	CHEN Shun	
11580	CHEN Petty	
11580	CHEN Shun H	
11588	BARBOSA Mario	
11589	KING Joan	
11589	KING Otis	
11617	CROWDER Steve	
11627	JONES Thomas	
11639	XXXX	
11647	AVILA Tiotonio	
11667.5	BAXTER Susan	
	X FRANCIS AV	
11711	GRIMES Robt	
11723	FOWLER Kevin	
	X LACAUSEY CT	
11747	MCCLELLAN Charles	
11759	LOPEZ Lawrence	
11761	MAPARA Cassim	
11773	CRUZ Nadine	
11785	NIELSON Malene	
11797	PITTS Robert	
	X WALDEN	
1996		
11393	JACE GUEST HOME	
11411	FORSCHLER Howard A	
11419	STEPHEN Anthony	
11420	XXXX	
11424	PRUETT Cassa	
11430	S&R NURSERY	
11444	MORENO Marcelino	
11448	CORDASCO Pat	
11448	CORDASCO Suzie	
11456	XXXX	
11470	XXXX	

11494	CRISTOFOL Dora
11511	CLAY C
11511	CALLINS Carol
11522	XXXX
11529	COREY Barbara
11545	LOPEZ Ramon
11545	STOWE Jeff
11545	WRIGHT Judy
11576	XXXX
11580	XXXX
11617	CROWDER Steve
11627	XXXX
11711	GRIMES Robt
11723	FOWLER Kevin
11747	MCCLELLAN Charles
11759	LOPEZ Lawrence
11761	JACKSON Lee
11773	HEARN Carol
11785	NIELSON Donald
11797	PITTS Robert
1991	
11393	JACE GUEST HOME
11411	FORSCHLER Howard A
11419	STEPHEN Anthony
11420	XXXX
11424	PRUETT Cassa
11430	NATURES OWN GREENHS
11456	DELGADO Erasto Cera
11470	SLONE Denver
11494	XXXX
11511	CLAY C
11529	XXXX
11545	STOWE Jeff
11545	WRIGHT Judy
11576	•
	MORAN Arthur
11580	
11580 11627	MORAN Arthur

11639	ALVARADO Angel
11639.5	ALVARADO Odilia M
11647.5	GORDILLO Julio R
11669.5	STORY Eva
11711	GRIMES Robt
11723	XXXX
11747	XXXX
11761	MAPARA Cassim
11785	NIELSON Donald
11797	XXXX
1986	
11411	FORSCHLER HOWARD A
11419	STEPHEN ANTHONY P
11420	XXXX
11424	PRUETT CASSA
11456	DELGADO ERASTO CERA
11470	SLONE DENVER
11511	CLAY C
11522	PHILLIPS HAY CO
11529	XXXX
11535	OSHEA L
11545	WRIGHT JUDY
11576	MORAN ARTHUR H
11580	XXXX
11589.5	PETERSON CRAIG
11639	RASPA ROSSANA
11639.5	RUTHWELL BROOKE
11647.5	ALEXANDRE TOM
11667.5	TURNURE JOHN G
11669.5	STORY EVA
11711	GRIMES ROBT
11723	XXXX
11747	CRAIG CONRAD M
11759	SIDDONS ALAN
11761	OCHOA JIM
11773	STEVENS ED
11785	NIELSON DONALD

1981	
11411	FORSCHLER HOWARD A
11419	STEPHEN ANTHONY P
11420	XXXX
11424	PRUETT CASSA
11456	TELFORD CHARLES
11470	GULIZIA SANDRA
11470	SLONE DENVER
11494	CORONADO JULIAN A
11522	HEIM JOE
11522	PHILIPS RAY
11529	MARLEY IND SALES
11529	MARLEY SHERRY
11535	OSHEA L
11545 #B	CLARK CAROL
11545 #B	KENNEDY M
11576	MORAN ARTHUR H
11580	XXXX
11588	MCCLANAHAN T W
11588	WILSON KEN
11589	DOUGLASS GORDON
11589	TAYLOR PATRICIA
11627	SASSEN RONALD L
11647	WALLACE BILL
11667	NAGY SIGMUND
11667.5	TURNURE JOHN G
11669	OROSCO PHILIP
11669.5	HARTWIG BROOK
11711	GRIMES ROBT
11723	XXXX
11747	CRAIG CONRAD M
11759	SIDDONS ALAN
11761	OCHOA JIM
11773	STEVENS ED
11785	ADAMS PHILLIP
11797	ROCHFORD STEPEN

1076	
1976 11411	FORSCHLER H A
11419	STEPEN ANTHONY P
11424	PRUETT CASSA
11444	PRUETT MICHAEL N
11450	DELGADO VICENTE
11494	ROSS BEN N
11522	PHILLIPS RAY
11545	CUNNINGHAM J E
11545 #B	KENNEDY M
11576	MORAN ARTHUR H
11588	HARRIS M
11588	MCCLANAHAN T W
11639	UTTZ PHILLIP
11639.5	JONES RONALD F E
11647	NAGY SIGMUND
1972	
11411	FORSCHLER HOWARD A
11424	PRUETT CASSA
11444	PRUETT M N
11450	DELGADO VICENTE
11456	WRIGHT BILL
11470	KINSLOW M D
11494	ROSS B N
11545	CUNNINGHAM J E
11576	MORAN ARTHUR H
11617	ROSS MARY S
11639	SIFUENTES E A
11667	BURREX PROPERTIES
11667.5	MONTI CARMINE
11669	MCCOY NATH



Physical Setting Report - PSR

Order No: 20160720091p

Property Information

Order Number: 20160720091p

Project Number: 1125388

Project Property: Borstein Phase I ESA

4570 Francis Avenue Chino CA

Coordinates:

Latitude: 34.041736 Longitude: -117.704227

UTM Northing: 3767007.18089 Meters
UTM Easting: 434997.38695 Meters
UTM Zone: UTM Zone 11S

Elevation: 837.92 ft

Topographic Information	2
Hvdrologic Information	4
Topographic InformationHydrologic InformationGeologic Information	7
Soil Information	9
Wells and Additional Sources	12
Summary	
Detail Report	14
Radon Information	18
AppendixLiability Notice	21

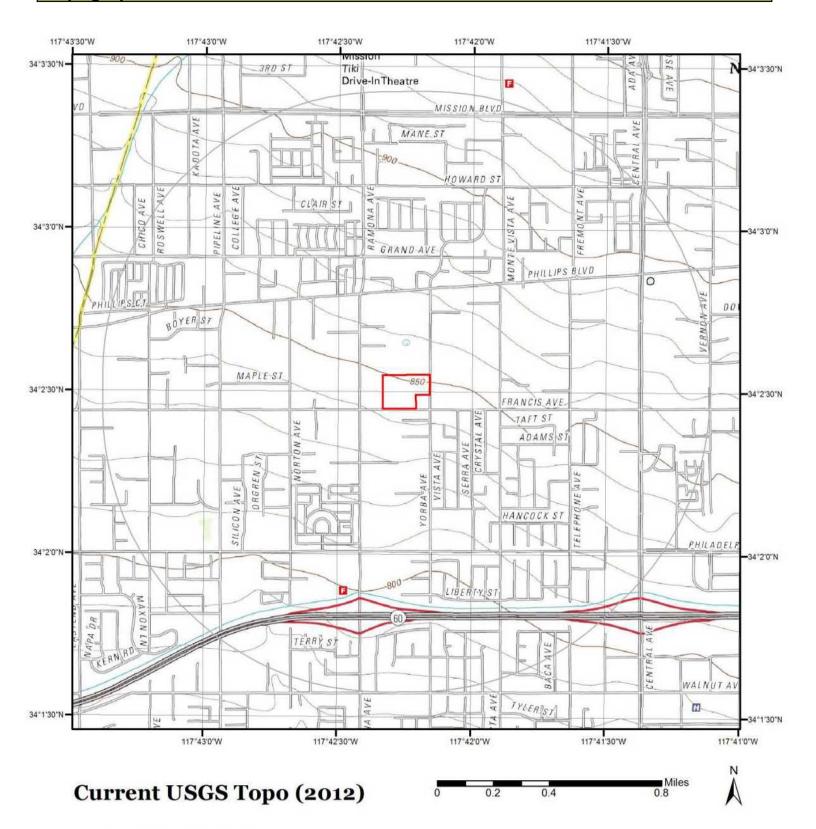
The ERIS *Physical Setting Report - PSR* provides comprehensive information about the physical setting around a site and includes a complete overview of topography and surface topology, in addition to hydrologic, geologic and soil characteristics. The location and detailed attributes of oil and gas wells, water wells, public water systems and radon are also included for review.

The compilation of both physical characteristics of a site and additional attribute data is useful in assessing the impact of migration of contaminants and subsequent impact on soils and groundwater.

Disclaimer

This Report does not provide a full environmental evaluation for the site or adjacent properties. Please see the terms and disclaimer at the end of the Report for greater detail.

Topographic Information



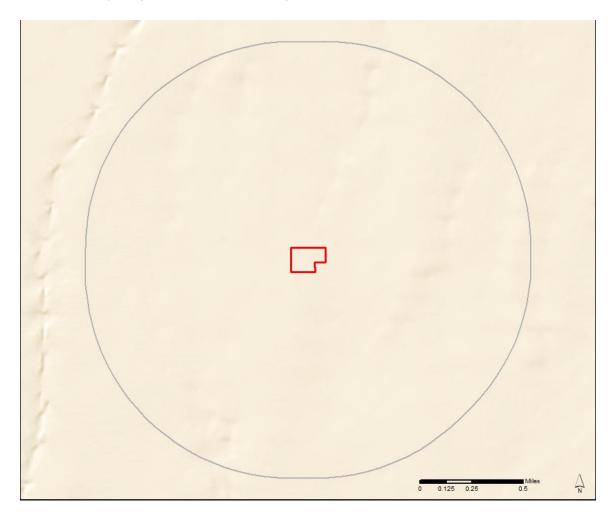
Quadrangle(s): Ontario,CA

Source: USGS 7.5 Minute Topographic Map



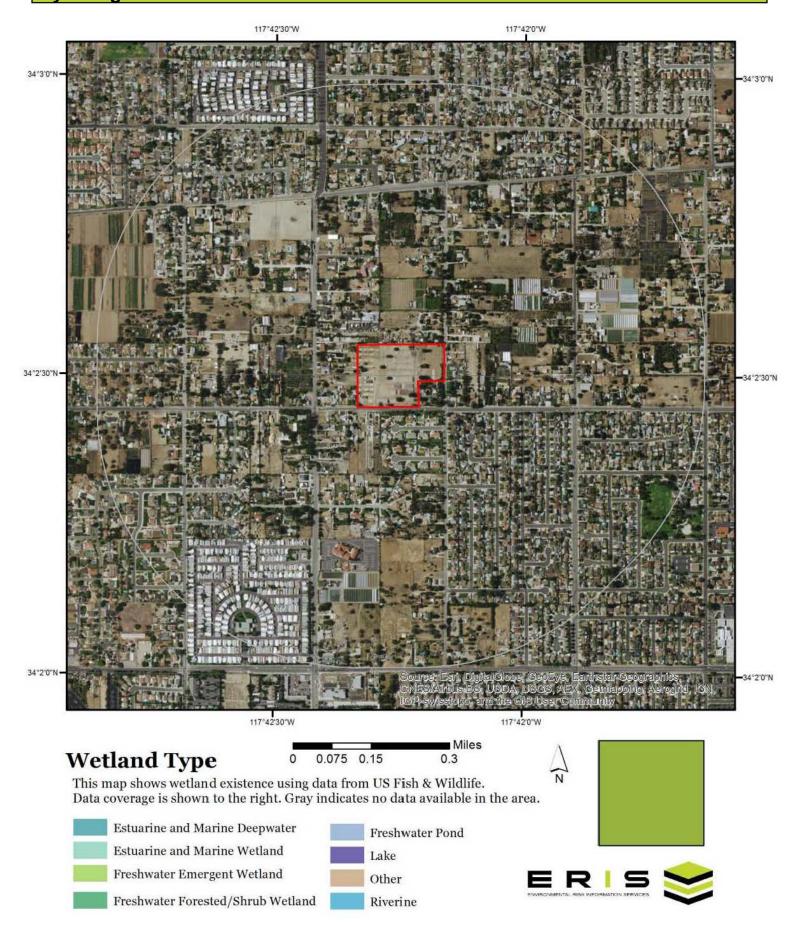
Topographic Information

The previous page shows a topographic map, seamlessly merged from USGS 7.5 min current topographic maps. Below is a shaded relief map to show surrounding topography in further detail using USGS data.

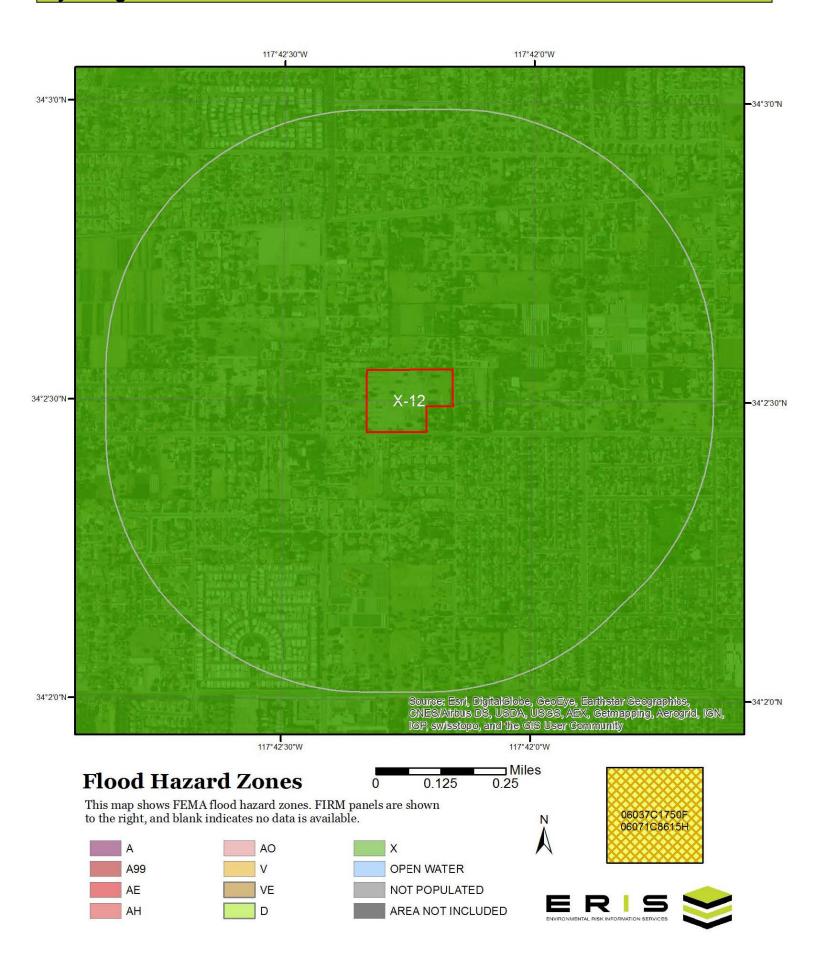


Order No: 20160720091p

Hydrologic Information



Hydrologic Information



Hydrologic Information

The Wetland Type map shows wetland existence overlaid on an aerial imagery. The Flood Hazard Zones map shows FEMA flood hazard zones overlaid on an aerial imagery. Relevant FIRM panels and detailed zone information is provided below.

Available FIRM Panels in area:

06071C8615H(effective:2008-08-28) 06037C1750F(effective:2008-09-26)

Order No: 20160720091p

Flood Zone X-12

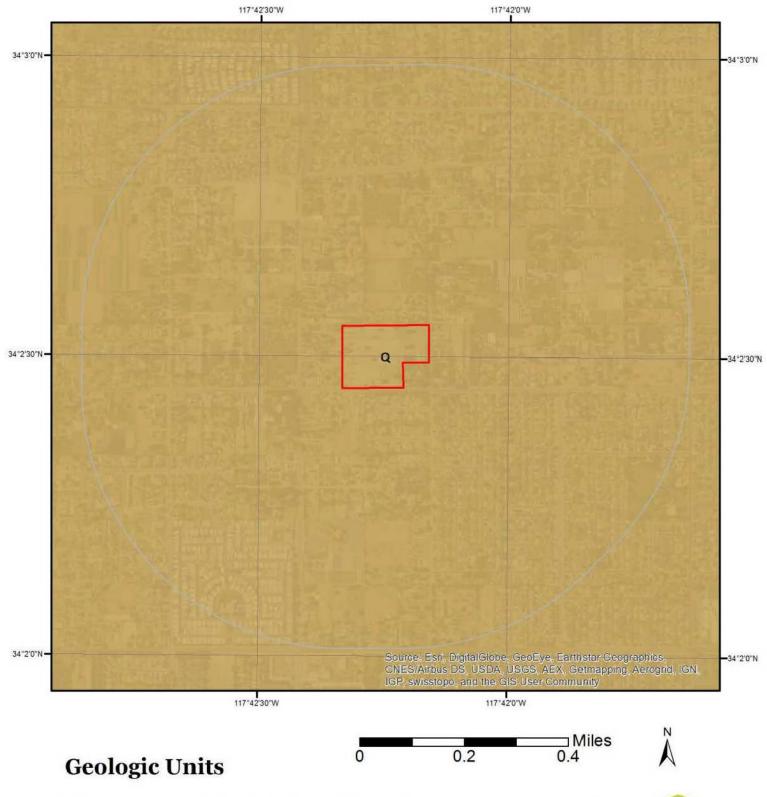
Zone:

Χ

Zone subtye:

AREA OF MINIMAL FLOOD HAZARD

Geologic Information



This maps shows geologic units in the area. Please refer to the report for detailed descriptions.





Geologic Information

The previous page shows USGS geology information. Detailed information about each unit is provided below.

Geologic Unit Q

Unit Name: Quaternary alluvium and marine deposits

Unit Age: Pliocene to Holocene

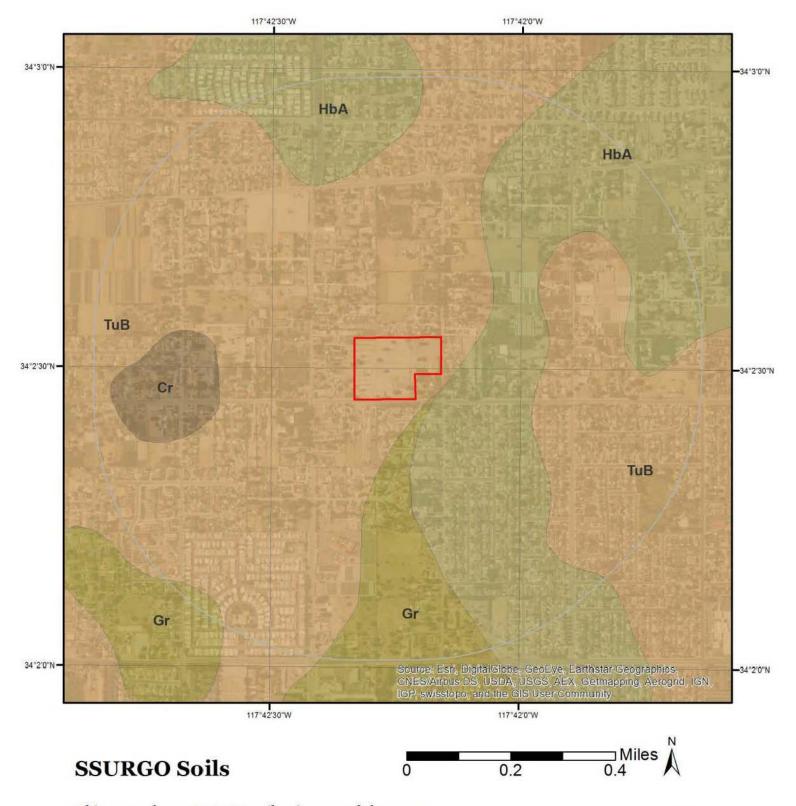
Primary Rock Type: alluvium
Secondary Rock Type: terrace

Unit Description: Alluvium, lake, playa, and terrace deposits; unconsolidated and semi-

consolidated. Mostly nonmarine, but includes marine deposits near the coast.

Order No: 20160720091p

Soil Information



This maps shows SSURGO soil units around the target property. Please refer to the report for detailed soil descriptions.



Soil Information

The previous page shows a soil map using SSURGO data from USDA Natural Resources Conservation Service. Detailed information about each unit is provided below.

Map Unit Cr

Map Unit Name: Cieneba-Rock outcrop complex

Bedrock Depth - Min: 36cm
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Somewhat excessively drained

Hydrologic Group - Dominant: D - Soils in this group have high runoff potential when thoroughly wet. Water

movement through the soil is restricted or very restricted.

Major components are printed below

Cieneba(60%)

horizon H1(0cm to 20cm)

Sandy loam

horizon H2(20cm to 36cm)

Sandy loam

horizon H3(36cm to 46cm) Weathered bedrock

Map Unit Gr

Map Unit Name: Grangeville fine sandy loam

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Somewhat poorly drained

Hydrologic Group - Dominant: A - Soils in this group have low runoff potential when thoroughly wet. Water is

transmitted freely through the soil.

Major components are printed below

Grangeville(85%)

horizon H1(0cm to 30cm) Fine sandy loam horizon H2(30cm to 152cm) Fine sandy loam

horizon H2(30cm to 152cm)

Loam

horizon H2(30cm to 152cm)

Sandy loam

Map Unit HbA

Map Unit Name: Hanford sandy loam, 0 to 2 percent slopes

Bedrock Depth - Min: null Watertable Depth - Annual Min: null

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: A - Soils in this group have low runoff potential when thoroughly wet. Water is

transmitted freely through the soil.

Order No: 20160720091p

Major components are printed below

Hanford(85%)

horizon H1(0cm to 30cm) Sandy loam

horizon H2(30cm to 152cm)

Coarse sandy loam

horizon H2(30cm to 152cm)

Fine sandy loam

horizon H2(30cm to 152cm)

Sandy loam

Soil Information

Map Unit TuB

Map Unit Name: Tujunga loamy sand, 0 to 5 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Somewhat excessively drained

Hydrologic Group - Dominant: A - Soils in this group have low runoff potential when thoroughly wet. Water is

transmitted freely through the soil.

Major components are printed below

Tujunga(85%)

horizon A(0cm to 15cm)

Loamy sand
horizon C1(15cm to 46cm)

Loamy sand
horizon C2(46cm to 152cm)

Loamy sand

Tujunga(85%)

horizon A(0cm to 15cm)

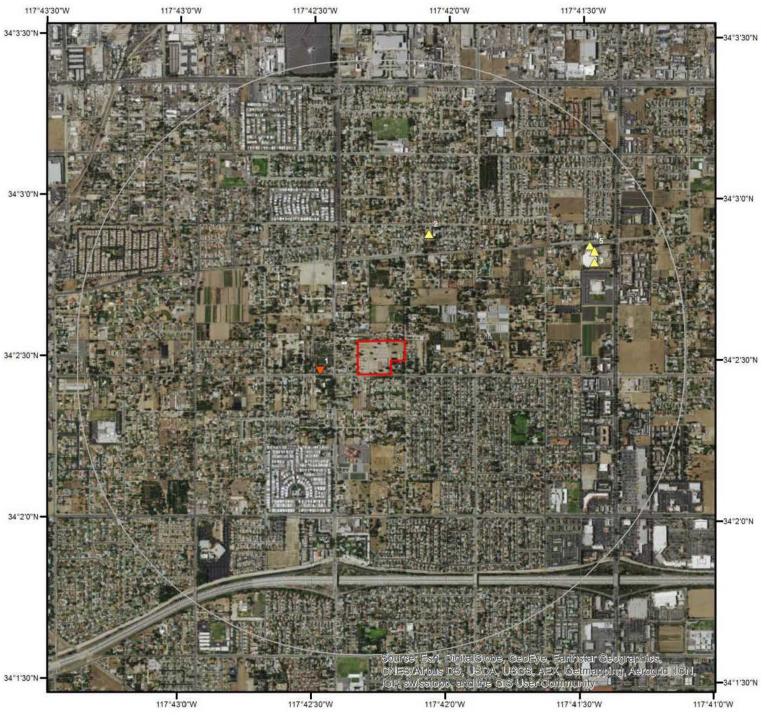
horizon C1(15cm to 46cm)

horizon C2(46cm to 152cm)

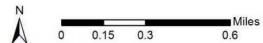
Loamy sand

Loamy sand

Wells and Additional Sources



Wells & Additional Sources



- △ Sites with Higher Elevation
- Sites with Same Elevation
- ▼ Sites with Lower Elevation
- Sites with Unknown Elevation



Wells and Additional Sources Summary

Federal	l Sources
---------	-----------

Map Key ID Distance (ft) Direction

No records found

Safe Drinking Water Information System (SDWIS)

Map Key ID Distance (ft) Direction

No records found

USGS National Water Information System

Map Key	Monitoring Loc Identifier	Distance (ft)	Direction	
2	USGS-340253117420101	2.057.33	NNE	
3	USGS-340248117412401	3,865.88	ENE	
4	USGS-340251117412501	3,918.61	ENE	
5	USGS-340250117412401	3,948.81	ENE	

State Sources

Oil and Gas Wells

Map Key	All Well Key	Distance (ft)	Direction
1	91279	714.68	WSW

Public Water Supply Wells

Map Key ID Distance (ft) Direction

No records found

Water Wells

Map Key ID Distance (ft) Direction

No records found

Well Investigation Program Case List

Map Key ID Distance (ft) Direction

No records found

USGS National Water Information System

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
2	NNE	0.39	2,057.33	873.70	FED USGS

Organiz Identifier: USGS-CA

Organiz Name: USGS California Water Science

Center

Well Depth: 1000

Well Hole Depth: W Hole Depth Unit:

Construction Date:

Aquifer Type:

Source Map Scale: 24000

Monitoring Loc Identifier: USGS-340253117420101
Monitoring Loc Name: 001S008W34A001S

Monitoring Loc Type: Well

Monitoring Loc Desc:

HUC Eight Digit Code: 18070203

Drainage Area:
Drainage Area Unit:
Contrib Drainage Area:
Contrib Drainage Area

Unit:

Horizontal Accuracy: 1

Horizontal Accuracy Unit: seconds

Horizontal Collection

Mthd:

Horiz Coord Refer

System:

Vertical Measure:
Vertical Measure Unit:
Vertical Accuracy:
Vertical Accuracy Unit:
Vertical Collection Mthd:

Vert Coord Refer System:

Formation Type:

Aquifer Name: California Coastal Basin aquifers

Well Depth Unit: ft
Country Code: US
Provider Name: NWIS

County: SAN BERNARDINO

Latitude: 34.0480668 Longitude: -117.7011667

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
3	ENE	0.73	3,865.88	880.91	FED USGS
Organiz Identifier:	USGS	S-CA	Formation Type:		
Organiz Name:	USGS Cente	S California Water Science	Aquifer Name:	California Coastal Bas	sin aquifers
Well Depth:	463	•	Well Depth Unit:	ft	
Well Hole Depth:	463		Country Code:	US	

Provider Name:

NWIS

Order No: 20160720091p

ft

Interpolated from map

NAD83

W Hole Depth Unit:

SAN BERNARDINO Construction Date: County:

Aquifer Type: Latitude: 34.046678 Source Map Scale: 24000 Longitude: -117.6908886

Monitoring Loc Identifier: USGS-340248117412401 Monitoring Loc Name: 001S008W35C001S

Monitoring Loc Type: Well

Monitoring Loc Desc:

HUC Eight Digit Code: 18070203

Drainage Area: Drainage Area Unit: Contrib Drainage Area: Contrib Drainage Area

Unit:

Horizontal Accuracy:

Horizontal Accuracy Unit: seconds

Horizontal Collection

Mthd:

Horiz Coord Refer

System:

Vertical Measure: Vertical Measure Unit: Vertical Accuracy: Vertical Accuracy Unit:

Vertical Collection Mthd: Vert Coord Refer System:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
4	ENE	0.74	3,918.61	886.74	FED USGS

Organiz Identifier: USGS-CA

Interpolated from map

NAD83

Organiz Name: USGS California Water Science

Center

Well Depth: 404 404 Well Hole Depth: W Hole Depth Unit: ft

Construction Date:

Aquifer Type:

Source Map Scale: 24000

Monitoring Loc Identifier: USGS-340251117412501 Monitoring Loc Name: 001S008W35C004S

Monitoring Loc Type: Well

Monitoring Loc Desc:

HUC Eight Digit Code: 18070203

Drainage Area: Drainage Area Unit: Contrib Drainage Area: Contrib Drainage Area

Formation Type:

Aquifer Name: California Coastal Basin aquifers

Order No: 20160720091p

Well Depth Unit: ft Country Code: US Provider Name: **NWIS**

County: SAN BERNARDINO

Latitude: 34.0475113 Longitude: -117.6911664

Unit:

Horizontal Accuracy: 1

seconds Horizontal Accuracy Unit:

Horizontal Collection

Mthd:

Interpolated from map

Horiz Coord Refer System:

NAD83

Vertical Measure: Vertical Measure Unit: Vertical Accuracy:

Vertical Accuracy Unit: Vertical Collection Mthd:

Vert Coord Refer System:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
5	ENE	0.75	3,948.81	882.19	FED USGS

Organiz Identifier: **USGS-CA**

Organiz Name: USGS California Water Science

Center

Well Depth: 1150 Well Hole Depth: 1150 W Hole Depth Unit: ft

Construction Date:

Aquifer Type:

24000 Source Map Scale:

Monitoring Loc Identifier: USGS-340250117412401 Monitoring Loc Name: 001S008W35C005S

Well

Monitoring Loc Type:

Monitoring Loc Desc:

18070203 **HUC Eight Digit Code:**

Drainage Area: Drainage Area Unit: Contrib Drainage Area: Contrib Drainage Area

Unit:

1 Horizontal Accuracy:

Horizontal Accuracy Unit: seconds

Horizontal Collection

Mthd:

NAD83 Horiz Coord Refer

System:

Vertical Measure:

Vertical Measure Unit: Vertical Accuracy:

Vertical Accuracy Unit:

Vertical Collection Mthd:

Vert Coord Refer System:

Formation Type:

Aquifer Name: California Coastal Basin aquifers

Order No: 20160720091p

Well Depth Unit: ft Country Code: US Provider Name: **NWIS**

County: SAN BERNARDINO

Latitude: 34.0472336 Longitude: -117.6908886

Interpolated from map

Oil and Gas Wells

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
1	WSW	0.14	714.68	829.96	OGW
All Well Key:	9127	9	Lat27:	0.0000000000	
API No:	0710	0017	Long27:	0.0000000000	
Well No:	1		Lat83:	34.04095500000	
Well Status:	В		Long83:	-117.70788700000	
Well Symbol:	AP		Source83:	HUD	
Well Type:	OG		County APIC:	071	
Release Date:			County Name:	San Bernardino	
Spud Date:			Confidenti:		
ABD Date:			Field Code:	000	
Comp Date:			Field Name:	Any Field	
District:	1		Area Code:	00	
Geo District:	0		Area Name:	Any Area	
Operator Code:	0054	0	Township Se:	34	
Operator Name:	В&С	Development Co.	Township:	01S	
Operator St:	1		Range:	W80	
Directiona:	N		Base Meridi:	SB	
Redrill:			Object ID:	31026	
Lease Name:	Bruce	e			
Source83 Desc:	Head	s Up Digitized - Coordin	ates generated from scanne	d, geo-referenced, static scale, My	lar maps
Well Stat Desc:	Burie	d			
Well Sym Desc:	AP				
Well Type Desc:	Oil &	Gas			

Order No: 20160720091p

Radon Information

This section lists any relevant radon information found for the target property.

Federal EPA Radon Zone for SAN BERNARDINO County: 2

- Zone 1: Counties with predicted average indoor radon screening levels greater than 4 pCi/L
- Zone 2: Counties with predicted average indoor radon screening levels from 2 to 4 pCi/L
- Zone 3: Counties with predicted average indoor radon screening levels less than 2 pCi/L

Federal Area Radon Information for SAN BERNARDINO County

 No Measures/Homes:
 17

 Geometric Mean:
 0.5

 Arithmetic Mean:
 0.7

 Median:
 0.7

 Standard Deviation:
 1

 Maximum:
 2.9

 % >4 pCi/L:
 0

 % >20 pCi/L:
 0

Notes on Data Table: TABLE 1. Screening indoor

radon data from the EPA/State Residential Radon Survey of California conducted during 1989-90. Data represent 2-7

day charcoal canister

measurements from the lowest level of each home tested.

Order No: 20160720091p

Federal Sources

FEMA National Flood Hazard Layer

FEMA FLOOD

The National Flood Hazard Layer (NFHL) data incorporates Flood Insurance Rate Map (FIRM) databases published by the Federal Emergency Management Agency (FEMA), and any Letters Of Map Revision (LOMRs) that have been issued against those databases since their publication date. The FIRM Database is the digital, geospatial version of the flood hazard information shown on the published paper FIRMs. The FIRM Database depicts flood risk information and supporting data used to develop the risk data. The FIRM Database is derived from Flood Insurance Studies (FISs), previously published FIRMs, flood hazard analyses performed in support of the FISs and FIRMs, and new mapping data, where available.

Indoor Radon Data INDOOR RADON

Indoor radon measurements tracked by the Environmental Protection Agency(EPA) and the State Residential Radon Survey.

Public Water Systems Violations and Enforcement Data

PWSV

List of drinking water violations and enforcement actions from the Safe Drinking Water Information System (SDWIS) made available by the Drinking Water Protection Division of the US EPA's Office of Groundwater and Drinking Water. Enforcement sensitive actions are not included in the data released by the EPA. Address information provided in SWDIS may correspond either with the physical location of the water system, or with a contact address.

RADON ZONE

Areas showing the level of Radon Zones (level 1, 2 or 3) by county. This data is maintained by the Environmental Protection Agency (EPA).

Safe Drinking Water Information System (SDWIS)

SDWIS

The Safe Drinking Water Information System (SDWIS) contains information about public water systems as reported to US Environmental Protection Agency (EPA) by the states. Addresses may correspond with the location of the water system, or with a contact address.

Soil Survey Geographic database

SSURGO

The Soil Survey Geographic database (SSURGO) contains information about soil as collected by the National Cooperative Soil Survey at the Natural Resources Conservation Service (NRCS). Soil maps outline areas called map units. The map units are linked to soil properties in a database. Each map unit may contain one to three major components and some minor components.

U.S. Fish & Wildlife Service Wetland Data

US WETLAND

The U.S. Fish & Wildlife Service Wetland layer represents the approximate location and type of wetlands and deepwater habitats in the United States.

USGS Current Topo US TOPO

US Topo topographic maps are produced by the National Geospatial Program of the U.S. Geological Survey (USGS). The project was launched in late 2009, and the term "US Topo" refers specifically to quadrangle topographic maps published in 2009 and later.

<u>USGS Geology</u> US GEOLOGY

Seamless maps depicting geological information provided by the United States Geological Survey (USGS).

USGS National Water Information System

FED USGS

The U.S. Geological Survey (USGS)'s National Water Information System (NWIS) is the nation's principal repository of water resources data. This database includes comprehensive information of well-construction details, time-series data for gage height, streamflow, groundwater level, and precipitation and water use data.

State Sources

Oil and Gas Wells OGW

A list of Oil and Gas well locations. This is provided by California's Department of Conservation Division of

Appendix

Oil, Gas and Geothermal Resources.

Public Water Supply Wells PWSW

List of community water supply wells in California. This data was made available by California Department of Water Resources, Division of Statewide Integrated Water Management, who indicates that the management of the data in an ongoing project, and some county data is not represented. Location information is provided using the Public Land Survey System (PLSS) and is subject to the accuracy limitations inherent to the PLSS system.

Water Wells WATER WELLS

A list of water wells maintained by the Department of Water Resources (DWR) Water Data Library.

Well Investigation Program Case List

WIP

Order No: 20160720091p

The Well Investigation Program (WIP) was developed by the State Water Resources Control Board (SWRCB) to locate, assess and remediate sources of solvent contamination impacting drinking water wells. This list contains WIP cases (active and historical) for the San Gabriel and San Fernando Valley area and was provided by the Los Angeles Regional Water Quality Control Board.

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Order No: 20160720091p



FIRE INSURANCE MAP RESEARCH RESULTS

Date: 2016-07-22

Order Number:20160720091 4570 Francis Avenue, Chino, CA

ERIS has searched our in-house collection of close to 1 million Fire Insurance Maps for the address at 4570 Francis Avenue, Chino, CA.

Please note that no information was found for your site or adjacent properties.

If you have any questions regarding the enclosed information, please do not hesitate to contact us.

Individual Fire Insurance Maps for the subject property and/or adjacent sites are included with the ERIS environmental database report to be used for research purposes only and cannot be resold for any other commercial uses other than for use in a Phase I environmental assessment.

Address: 38 Lesmill Road Unit 2, Toronto, ON M3B 2T5

Phone: 416-510-5204 Fax: 416-510-5133 info@erisinfo.com www.erisinfo.com



TOPOGRAPHIC MAP RESEARCH RESULTS

Date: 2016-07-21

Project Property: 4570 Francis Avenue, Chino, CA

ERIS Order Number: 20160720091

We have searched USGS collections of current topographic maps and historical topographic maps for the project property. Below is a list of maps found for the project property and adjacent area. Maps are from 7.5 and 15 minute topographic map series, if available.

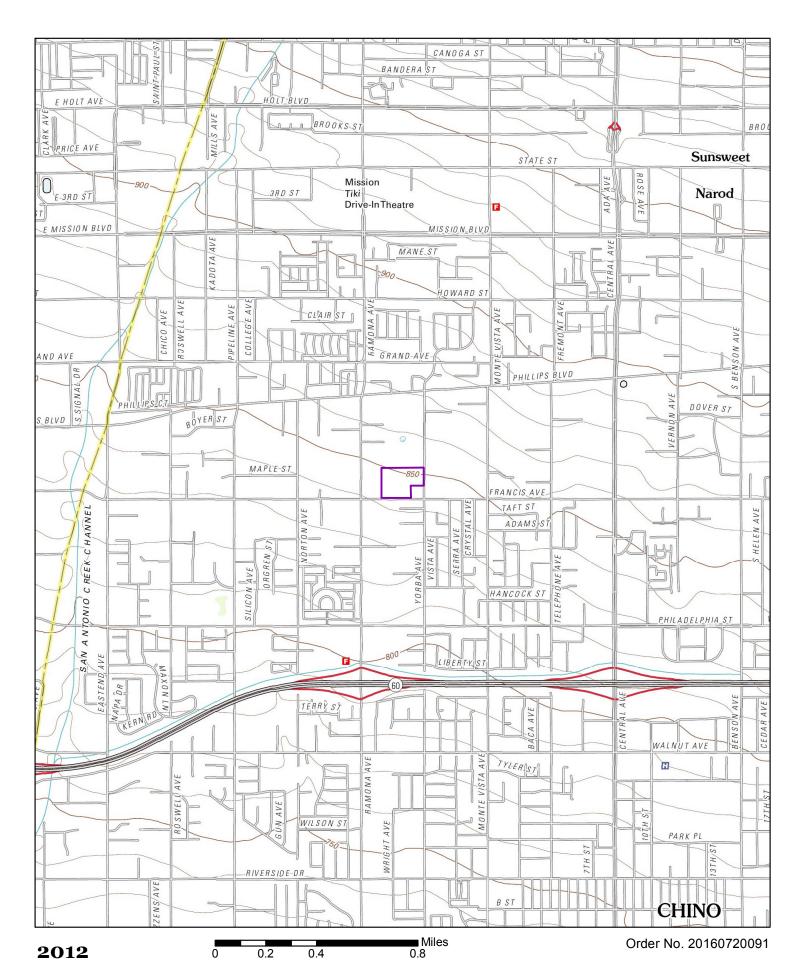
Year	Map Series
2012	7.5
1981	7.5
1973	7.5
1967	7.5
1954	7.5
1942	7.5
1933	7.5
1928	7.5
1954	15
1903	15
1900	15
1897	15

Topographic Maps included in this report are produced by the USGS and are to be used for research purposes including a phase I report. Maps are not to be resold as commercial property.

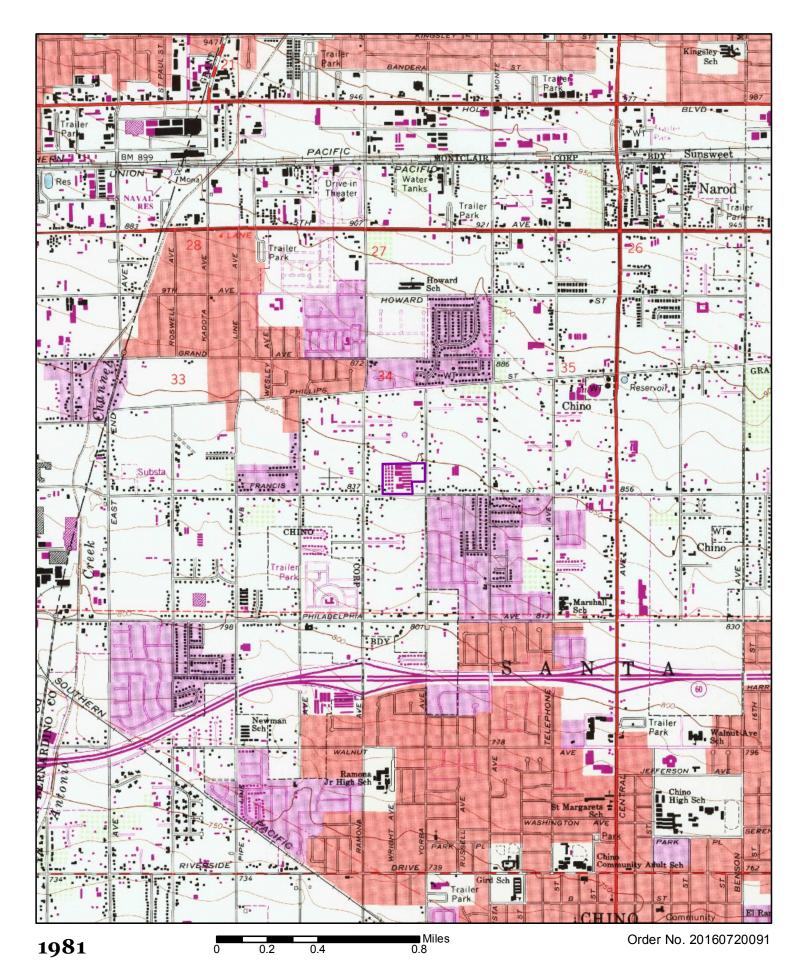
No warranty of Accuracy or Liability for ERIS: The information contained in this report has been produced by EcoLog Environmental Risk Information Services Ltd ("ERIS") using Topographic Maps produced by the USGS. This maps contained herein does not purport to be and does not constitute a guarantee of the accuracy of the information contained herein. Although ERIS has endeavored to present you with information that is accurate, EcoLog ERIS disclaims, any and all liability for any errors, omissions, or inaccuracies in such information and data, whether attributable to inadvertence, negligence or otherwise, and for any consequences arising therefrom. Liability on the part of EcoLog ERIS is limited to the monetary value paid for this report.

Address: 38 Lesmill Road Unit 2, Toronto, ON M3B 2T5

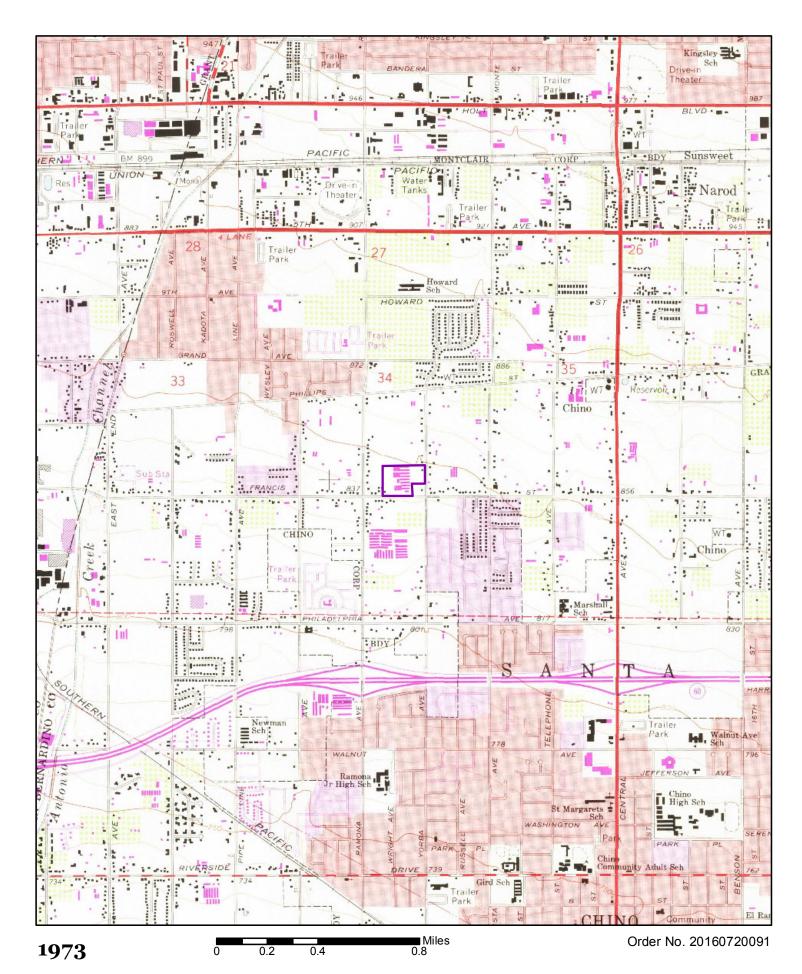
Phone: 416-510-5204 Fax: 416-510-5133 info@erisinfo.com www.erisinfo.com



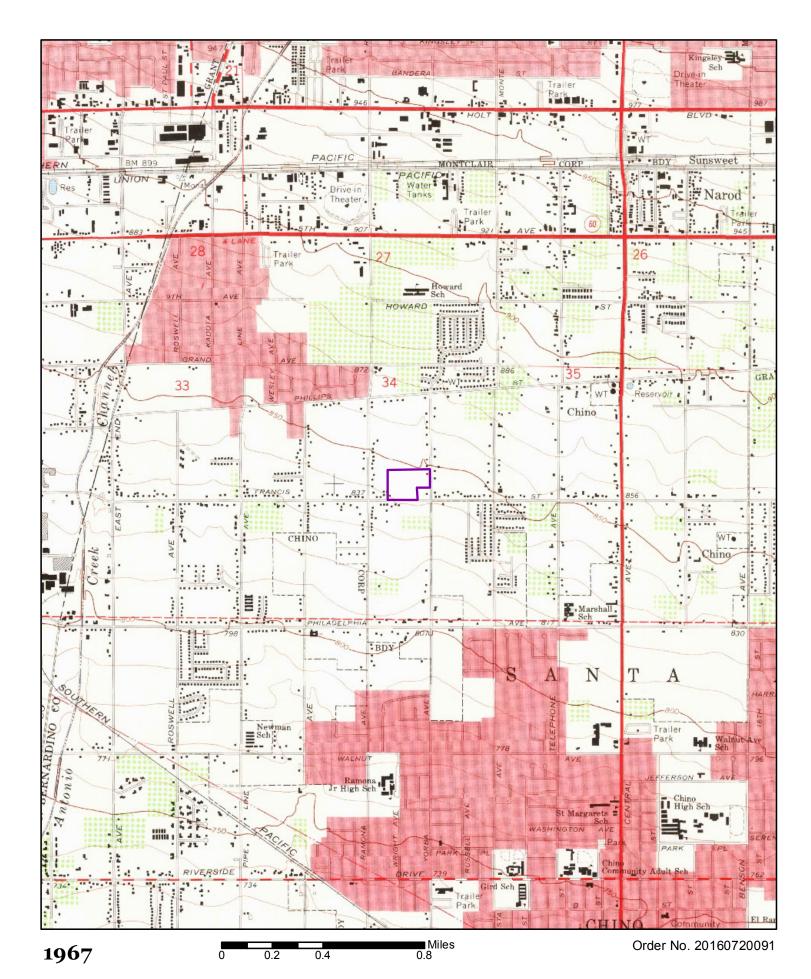




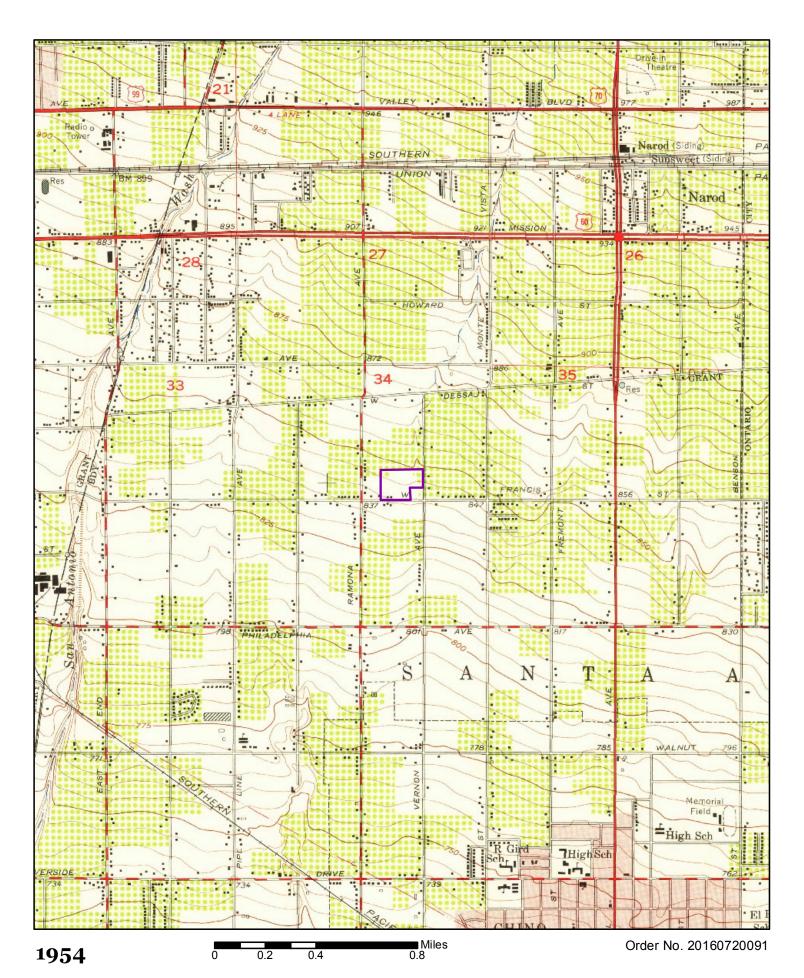




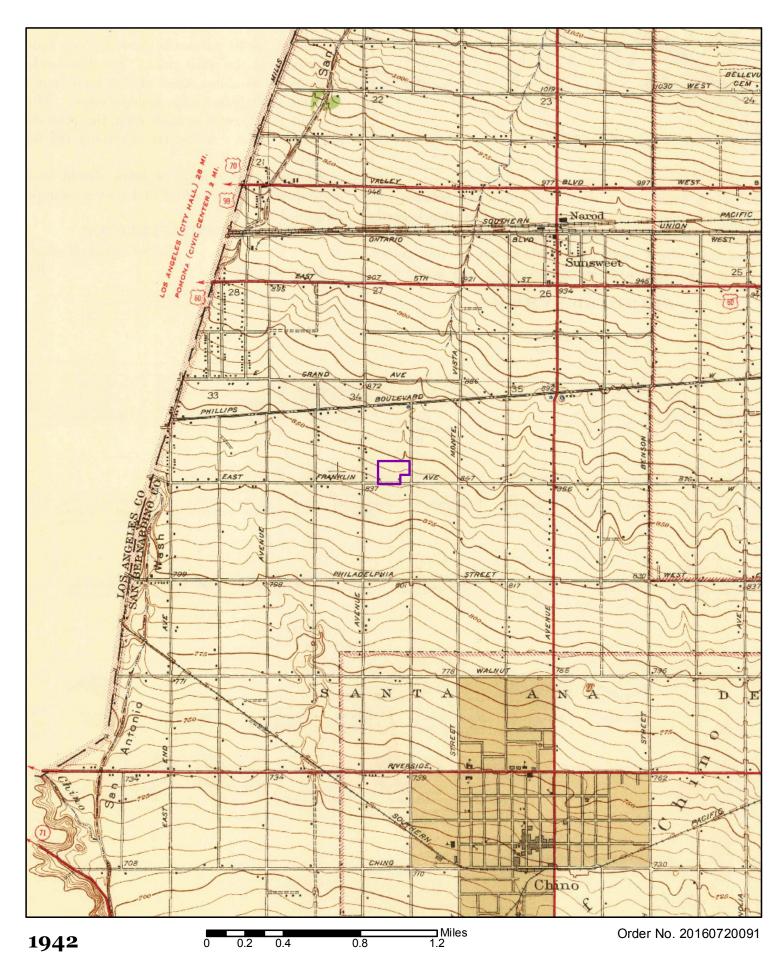






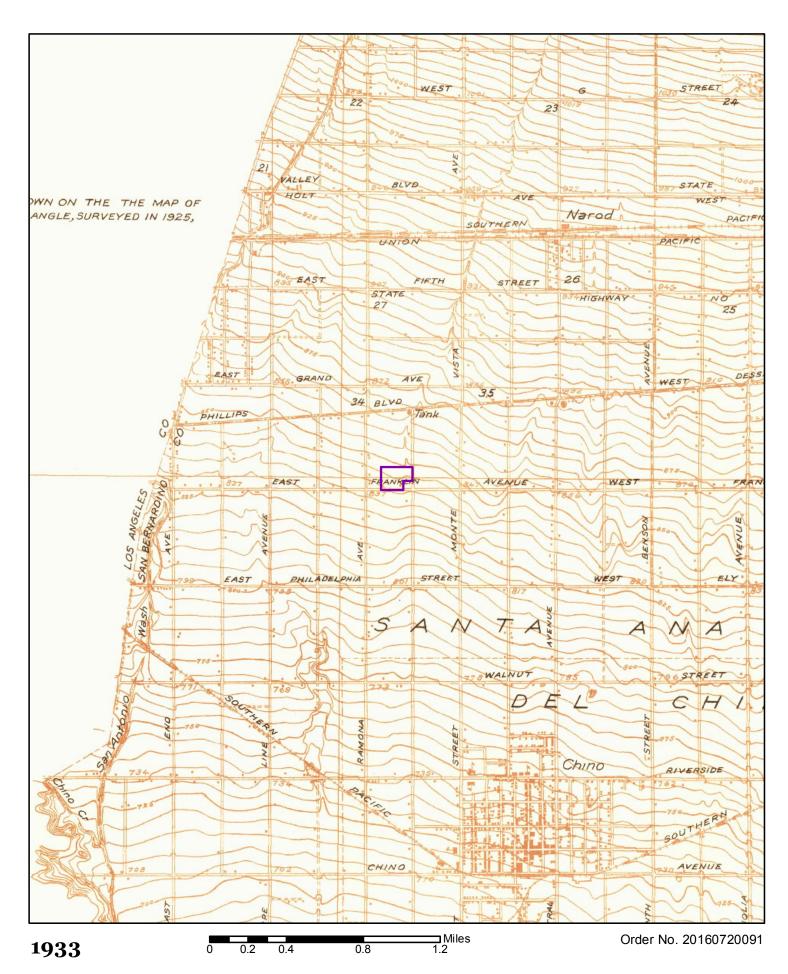




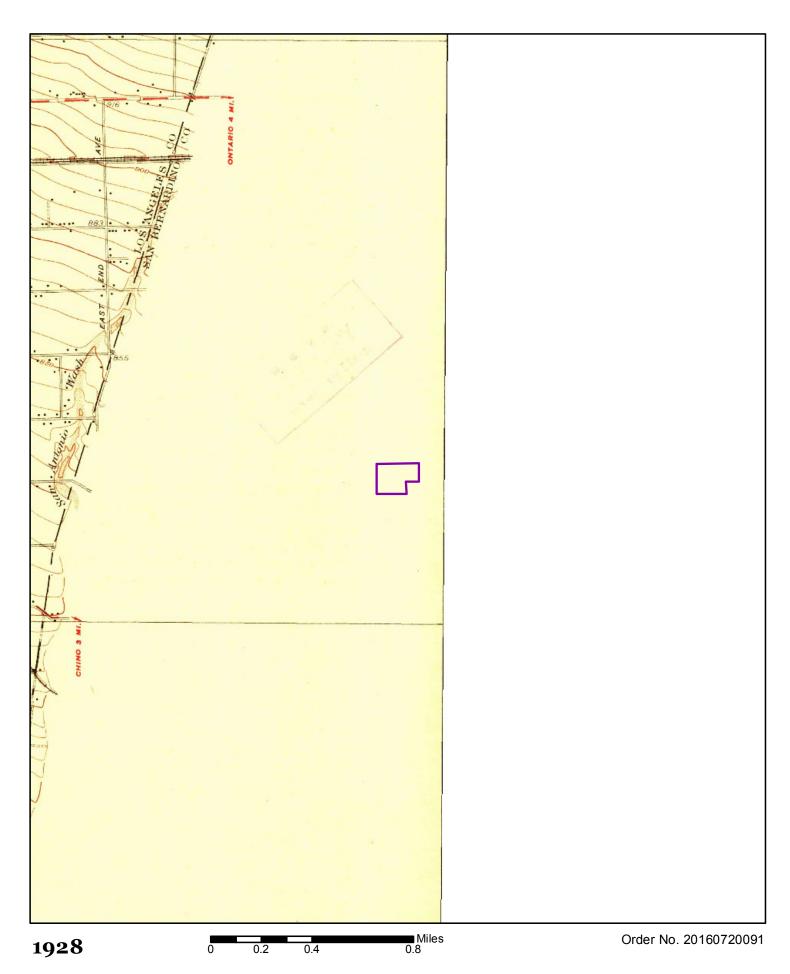


Quadrangle(s): Ontario and Vicinity,CA



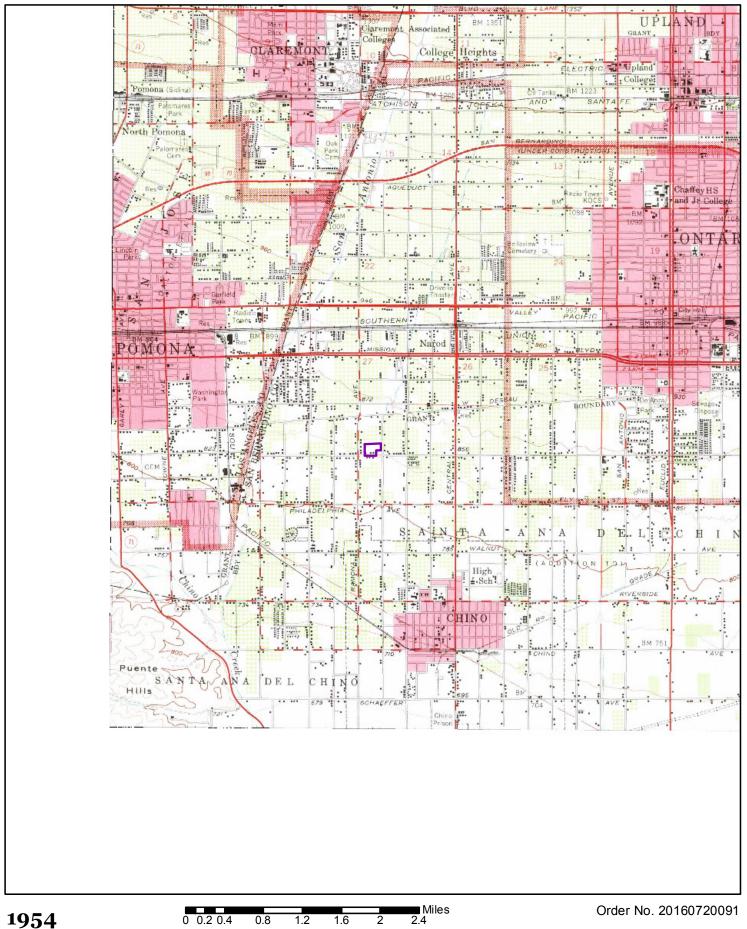


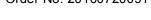




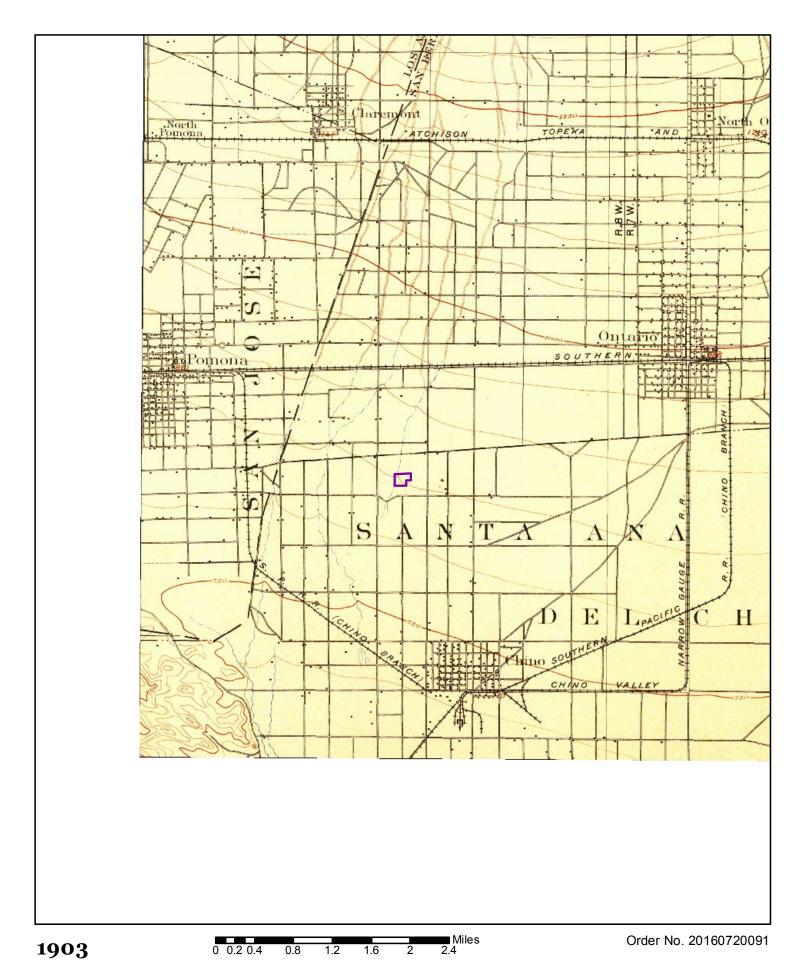
Quadrangle(s): Claremont,CA





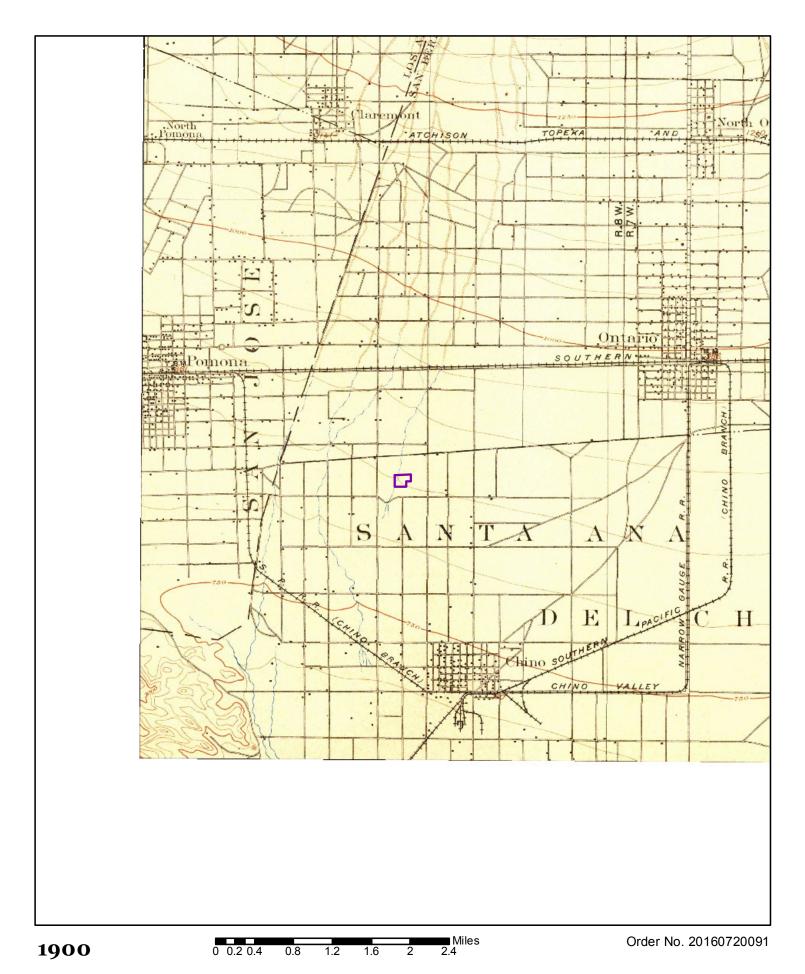






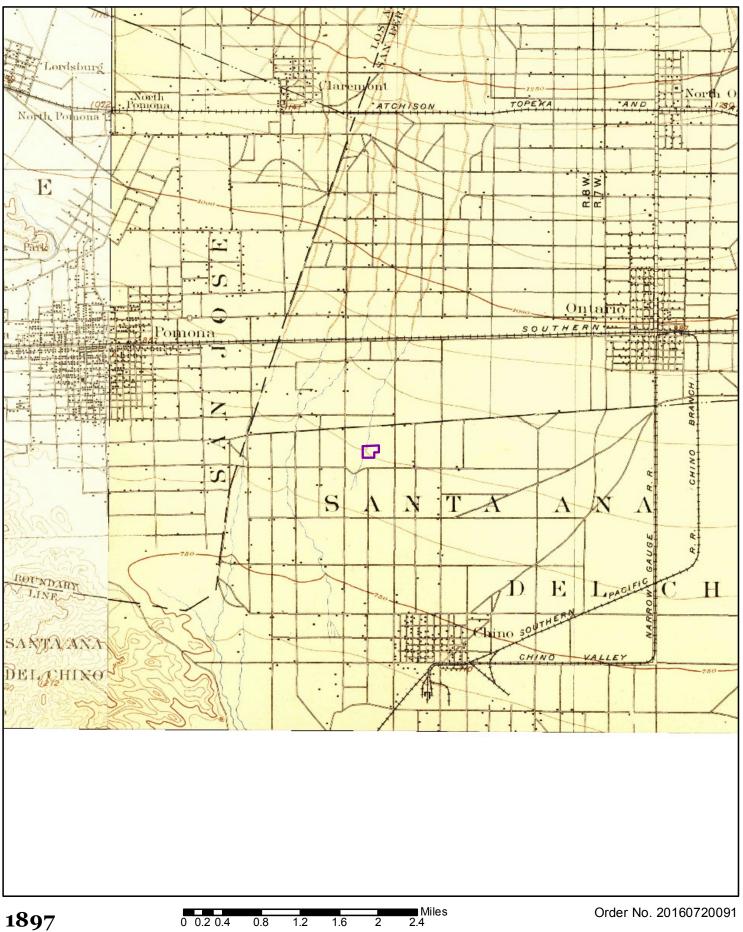
Quadrangle(s): Cucamonga,CA





Quadrangle(s): Cucamonga,CA





1.6

Quadrangle(s): Cucamonga,CA

Source: USGS 15 Minute Topographic Map

Order No. 20160720091



PAGE 5671 STATE WATER RESOURCES CONTROL BOARD 06/01/88 HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SAN BERNARDING COUNTY CONTAINER TYPES: 1,2,3,4,5
(1-FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS) I OWNER YONG SUK BUCKENBERGER CA 91761 2419 GARFIELD PLACE ONTARIO II FACILITY MAILING ADDRESS DEALER/FOREMAN/SUPERVISOR TYPE OF BUSINESS M & M MARKET TOWNSHIP/RANGE/SECTION TELEPHONE NO. OF CONTAINERS 4494 FRANCIS ST CA 91710 4494 FRANCIS ST GASOLINE STATION CHINO CA 91710 CHINO (714) 628-2617 2 CROSS STREET: RAMONA AVE III 24-HR, CONTACT PERSON / TELEPHONE (714) 628-2617 NIGHT: YONG S. BUCKENBERGER (714) 947-2620 DAY: YONG S. BUCKENBERGER ****** OWNER ASSIGNED CONTAINER NUMBER: 1 ****** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000052939001 ******* IV DESCRIPTION : TANK A. CONTAINER TYPE E. REPAIRS : NONE IF YES WHEN : B. MANUFACTURER/YR OF MFG: F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE: C. YEAR INSTALLED G. STORES : PRODUCT 500 H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: UNLEADED D. CAPACITY (GALLONS) IS CONTAINER LOCATED ON A FARM : NO V CONTAINER CONSTRUCTION A. THICKNESS: B. VAULTING: UNKNOWN C. WALLING: UNKNOWN D. MATERIAL : CARBON STEEL E. LINING : UNKNOWN F. WRAPPING : UNKNOWN VI PIPING A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : SUCTION C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR: VII LEAK DETECTION ٥ STOCK INVENTORY COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER 12031

UNLEADED MOTOR VEHICLE FUEL

*** CO4 ***

PAGE 5672 06/01/88 STATE WATER RESOURCES CONTROL BOARD HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SAN BERNARDING COUNTY CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS) ****** OWNER ASSIGNED CONTAINER NUMBER: 2 ****** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000052939002 ******* IV DESCRIPTION E. REPAIRS A. CONTAINER TYPE : TANK : UNKN IF YES WHEN B. MANUFACTURER/YR OF MFG: F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE: C. YEAR INSTALLED : UNK G. STORES : PRODUCT H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: PREMIUM D. CAPACITY (GALLONS) IS CONTAINER LOCATED ON A FARM : NO V CONTAINER CONSTRUCTION A. THICKNESS: B. VAULTING: UNKNOWN C. WALLING: UNKNOWN D. MATERIAL : UNKNOWN E. LINING : UNKNOWN F. WRAPPING : UNKNOWN VI PIPING A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : C. REPAIRS : UNKN IF YES, YEAR OF MOST RECENT REPAIR: VII LEAK DETECTION 0 NONE COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER 12033

PREMIUM MOTOR VEHICLE FUEL

*** DO4 ***

HIG Research Summary

Site Location Borstein Phase I ESA 4570 Francis Avenue Chino, CA

Conducted For ERIS 38 Lesmill Road, Unit #2 Toronto, ON HIG Project # 1636128

Date Created 07/25/2016



Information Gatherers

This Research Summary identifies the products and services provided by Historical Information Gatherers, Inc. (HIG) for the above referenced site location. All products are provided as PDFs unless otherwise noted.

City Directory Pages/Abstracts

Research Methodology: A search was conducted for city directories that include coverage of the site area using HIG's City Directory Collection and other sources, if needed. Directories for the following years were identified for the site area. A comma between date ranges indicates a gap of 10 years or more in available city directories:

San Bernardino 1986-2011

Riverside-San Bernardino 1976-1981

Pomona 1972

The above listed directories were reviewed at approximate 5 year intervals to determine if the street(s) specified in the order were included in the directories and had listings for the site area. HIG attempted to identify former street names and aliases and if identified, these were also included in the review.

Research Results: When City Directory Pages are provided, the publication name and date are shown at the top of each page. When a City Directory abstract is provided, the first page of the abstract includes the relevant publication information. The years of coverage identified for each street and any identified historical street names are as follows:

Francis Avenue (1972-2011) Yorba Avenue (1972-2011)

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(infogroup°

Research Summary for City Directory Abstract

Site Location Borstein Phase I ESA 4570 Francis Avenue Chino, CA HIG Project # 1636128 Date Created 07/25/2016



Information Gatherers

Conducted For ERIS 38 Lesmill Road, Unit #2 Toronto, ON

HIG has produced a city directory abstract for one or more streets associated with the site location indicated above. The publications used to create the CD Abstract are listed below.

The information below is taken directly from the city directory books. The following are definitions as they are found in the Haines books:

XXXX = is no phone, no people or non-published phone.

600 XXXX = Correct address only. No other information.

X Streetname = intersecting cross street

Publication year, publisher and title

2011 Haines San Bernardino County

2006 Haines San Bernardino

2001 Haines San Bernardino

1996 Haines San Bernardino

1991 Haines San Bernardino

1986 Haines San Bernardino

1981 Haines Riverside - San Bernardino

1976 Haines Riverside - San Bernardino

1972 General Telephone Company Pomona

Abstract Section 1- This section includes the city directory data sorted by address.

1010 5		
4310 Francis Avenue 2011	BAILEY Dale	
2006	BAILEY Dale BAILEY Dale	
2006	BAILEY Dale BAILEY Dale	
1996	ROSS Lois	
1991	ROSS LOIS	
1986	ROSS LOIS	
1981	ROSS LOIS	
1976	HAASE MICHAEL E	
4313 Francis Avenue		
2011	KESER Raymond	
2006	KESER Raymond	
2001	KESER Raymond	
2001	KESER Sandy	
1996	KESER Raymond	
1991	KESER Raymond	
1986	KESER RAYMOND	
1981	KESER RAYMOND	
1976	KESER RAYMOND	
1972	KESER RAYMOND	
4330 Francis Avenue		
2011	XXXX	
2006	SANCHEZ Jorge	
2001	PFEIFFER John	
1996	PFEIFFER John	
1991	PFEIFFER John	
1986	PFEIFFER JOHN	
1981	PFEIFFER JOHN	
1976	PFEIFFER JOHN	
4339 Francis Avenue		
2011	FRENCH H	
2011	FRENCH Ronald	
2006	FRENCH Ronald	
2001	FRENCH Ronald	
1996	FRENCH Ronald	

1991 **FRENCH Ronald** 1986 FRENCH RONALD 1981 **CLAY STEVE** 4340 Francis Avenue 2011 XXXX 2006 XXXX 2001 **ROBERT Betty** 1996 XXXX 1991 FITZGERALD Mathew **COLLINS TODD** 1986 1981 XXXX LOWE E E 1976 1972 LOWE E E 4357 Francis Avenue 2001 XXXX 1996 XXXX 1991 KAHLER Marvin R XXXX 1986 1981 BAXTER C M DVM 1981 **BROWN STEPHEN** 4378 Francis Avenue **TOWNSEND Elvin** 1991 1991 TOWNSEND Gladys E 1986 TOWNSEND ELVIN 1986 TOWNSEND GLADYS E 1981 TOWNSEND ELVIN 1976 TOWNSEND ELVIN 1972 TOWNSEND ELVIN 4386 Francis Avenue 2001 XXXX 1996 XXXX 1991 XXXX 1986 XXXX4394 Francis Avenue 2011 WEBBER K

WEBBER K

2001	WEBBER K
2001	WEBBER William
1996	WEBBER K
1991	WEBBER K
1986	TOWNSEND R O
1981	TOWNSEND R O
1976	TOWNSEND R O
1972	TOWNSEND R O
4405 Francis Avenue	
2011	HEINSSEN David
2006	HEINSSEN David
2001	HEINSSEN David
1996	HEINSSEN Karl
1991	HEINSSEN Karl
1986	HEINSSEN KARL
1981	HEINSSEN KARL
1976	HEINSSEN KARL
1972	HEINSSEN K
4406 Francis Avenue	
2011	GARCIA Jose
2006	ELIAS Urbano
2006	GARCIA Jose
2006	RUIZ Oscaldo
2001	RUIZ Oscaldo
1996	RUIZ Juan
1991	XXXX
1986	LOPEZ OLIVIA
1981	LOPEZ OLIVIA
1976	GOYENECHE STEVE
1972	GOYENECHE STEVE
4420 Francis Avenue	
2011	BANDA Ruben
2006	BANDA Ruben
2001	FELTY Aaron
1996	CONKLE Geo F
1996	J&J GUEST HOME
4425 Francis Avenue	

2011	LEDESMA Alejandra
2011	PLASCENCIA Marco
2006	DELEON D
2006	LEDEZMA Alejandra
2006	PLASCENCIA Marco
2001	GOMEZ Emelia R
2001	MARTINEZ Patron
2001	PLASCENCIA Marco
1996	SIABA Jose
1972	HEIGLE HENRY
4436 Francis Avenue	
2011	PRECIADO Gregorio
2011	SANTOS Patricia
2006	PRECIADO Gregorio
2001	PRECIADO Gregorio
1996	PRECIADO Gregorio
1991	PRECIADO Gregorio
1986	PRECIADO GREGORIO
1981	PRECIADO GREGORIO
1976	PRECIADO GREGORIO
1972	PRECIADO GREGORIO
4445 Francis Avenue	
2011	SCHALLER Scott
2011	TORRES Albert
2006	SCHALLER Scott
2001	FRANCO Hector
2001	TWEEDIE Zena
1991	XXXX
1986	XXXX
1981	HEINLEIN RAY
1976	HEINLEIN RAY
4446 Francis Avenue	
2011	RIVERA Jose
2006	RIVERA Jose
2001	RIVERA Jose
1996	HURTADO Victor
4458 Francis Avenue	

2006 XXXX 2001 **POTTER William** 1996 XXXX XXXX 1991 1986 POTTER BILL 1981 MAHON MICHAEL P 1981 WADE N 4462 Francis Avenue XXXX 2011 2006 XXXX 4463 Francis Avenue 2011 **GUTIERREZ D** 2011 **GUTIERREZ L** 2006 **GUITERREZ Daniel** 2001 **VRONO** Michaela 2001 WILBANKS Rhonda 1996 WILBANKS Rhonda 4472 Francis Avenue 2011 LAWRENCE Jason 2006 LAWRENCE Jason 1981 **EGGERS LEE** 4480 Francis Avenue 2011 XXXX 2006 LAWRENCE Frieda 2001 LAWRENCE Frieda 1996 XXXX XXXX 1991 XXXX 1986 1981 XXXX **TURPIN WM** 1976 1972 **TURPIN WILLIAM** 4483 Francis Avenue 2011 APODACA Gerald 2011 VALDIVIA Esperanza 2006 APODACA LEGAL SERVICES

SANCHEZ Rafael

1996 **OUIMET John** 1991 XXXX **ROBERTSON CLARENCE** 1986 1981 ROBERTSON CLARENCE 4494 Francis Avenue 2011 M & M MARKET 2006 M & M MARKET 2001 M&M MARKET M&M MARKET 1996 M&M MARKET 1991 1986 M&M MARKET **A&B MARKET** 1981 1976 A&B MKT 1976 ANTILL LEE ROY C 1972 A & B MARKET 4494.5 Francis Avenue 1972 REPAIR SHOP THE 4523 Francis Avenue 2011 XXXX 2006 XXXX 2001 **AFRICA Ronald** 1996 **AFRICA Ronald** 1981 **DENNIS LLOYD** 1976 ALLEN D B 1972 ALLEN D B 4524 Francis Avenue 2011 **BADIOS Richard** 2006 **BADIOS Richard** 2001 **BADIOS Richard BADIOS Richard** 1996 1986 **GEURTS JOHN** 1981 XXXX 1976 **SOARES DENNIS** 4534 Francis Avenue 2011 LOPEZ Alba 2006 LOPEZ Alba

2001	LOPEZ Jose
4534.5 Francis Avenue	
1981	HERBERT ELIZABETH
1976	PRIEST RAYMOND
4543 Francis Avenue	
2011	HARRIS Camille
2006	HARRIS Camille
2001	HARRIS Camille
1996	HARRIS Camille
1991	HARRIS Camille
1986	HARRIS CAMILLE
1981	HARRIS CAMILLE MRS
1976	HARRIS CAMILLE MRS
1972	HARRIS MRS CAMILLE
4549 Francis Avenue	
2011	MCFARLAND Steven
2006	MCFARLAND Steven
2001	MCFARLAND Steven
1996	XXXX
1991	COMBS Fred
1986	XXXX
1981	ASHLEY CHARLIE
1976	CONN ETHEL
4553 Francis Avenue	
2011	PEREZ Francisco
2006	XXXX
2001	LEWIS Ellen
1996	XXXX
1991	XXXX
1986	XXXX
1981	XXXX
4557 Francis Avenue	
2011	XXXX
2006	XXXX
2001	XXXX

XXXX

1991 XXXX 1986 **LEWIS MILTON** 4559 Francis Avenue 2011 XXXX 2006 XXXX 2001 LEWIS Ellen 1996 XXXX XXXX 1991 1986 XXXX 1981 XXXX 4562 Francis Avenue 2011 **VELASQUEZ Albert** 2006 **VELASQUEZ Albert** 2001 VALASQUEZ Albert 1996 SOLTERO Steven 1972 DIAS DAVID A 1972 ZENTLER FRED 4570 Francis Avenue MUNZER William 2011 2006 XXXX 2001 LEE Chin T 1996 **GIFT&CRFT EXCLLNCE** 1996 **MULATO Jose Luis** 1996 N A P S PALLETS 1991 A M PALLETS 1991 **GIFT&CRFT EXCLLNCE** 1991 **MULATO Jose Luis** TIMAKAS ALEXANDER 1986 1981 XXXX 1976 AMER REX FUR CORP 4573 Francis Avenue 2011 **HEHN Kim** 2006 **HEHN Kim** 2001 **HEHN Kim** 1996 **HEHN Kim**

CARPETER CARL C

1981	CARPENTER CARL C
1976	CARPENTER CARL C
4585 Francis Avenue	
2011	XXXX
2001	CORSON Julia
1996	CORSON Julia
4593 Francis Avenue	
2011	QUACH Steve
2006	MONTANO Guillermo
2001	HERNANDEZ Anita
4664 Francis Avenue	
2011	NAVA Joaquin
2006	NAVA Joaquin
2001	NAVA Joaquin
2001	SALCEDO Eloisa
1996	DELEON Veronica
1996	NAVA Joaquin
1986	JOHNSON D L
1981	JOHNSON D L
1976	ESQUIVIAS MEL
1972	ZENTLER W
4725 Francis Avenue	
2011	BRESCIANI Nikole
2006	BRESCIANI Adam
2001	NELMS Harold
2001	NELMS John
1996	NELMS John
1991	NELMS John
1986	NELMS JOHN
1981	SMITH DONALD
4736 Francis Avenue	
2011	GONZALES David
2006	GONZALES David
2001	GONZALES David
1996	XXXX
1991	XXXX

1986 XXXX 1981 XXXX **GONZALES DAVID** 1976 1972 **GONZALES DAVID** 4739 Francis Avenue 2011 **BURTON K** 2011 LANGFIELD K 2006 **BURTON Karen** 2001 **BURTON Karen** 1996 **BURTON Karen** 1991 XXXX XXXX 1986 1981 XXXX 1976 CAREY ORA GRACE 1972 CAREY ORA GRACE 4740 Francis Avenue 2011 XXXX 2001 WILSON Bridget 1996 XXXX REY Erens M 1991 1986 PIERCE KERRY DYKSTRA GARY 1981 4744 Francis Avenue XXXX 2011 2006 XXXX XXXX 2001 XXXX 1996 1991 XXXX 1986 XXXX1981 **POLSON MARLA** 1972 HAMILTON RICHARD 4746 Francis Avenue 2011 **GOMEZ Carlos** 2006 XXXX **NEGRETE** Marie 2001 4758 Francis Avenue

2011	ESPINOZA Leticia
2011	MARQUEZ Gilbert
2006	ESPINOZA Leticia
2006	MARQUEZ Gilbert
2001	MARIN Enoch
2001	MARQUEZ Gilbert
1996	ROGERS Dale
1991	XXXX
1986	GERMAN DAVID
1981	ROMAINE ORIGINALS
4759 Francis Avenue	
2011	PATTERSON Susie
2006	PATTERSON Susie
2001	PATTERSON Donald
1996	PATTERSON Donald
1981	WALL RICHARD
4770 Francis Avenue	
2011	AYALA Esther
2006	AYALA Hector
2006	AYALA Pedro
2001	AYALA Juana
2001	AYALA Pedro
1996	GARCIA Juan
1986	CHAVEZ MARIA
1981	CHAVEZ MARIA
4782 Francis Avenue	
2011	GOSE James
2011	MACIEL Dean
2011	SANTOS Thomas
2006	XXXX
2001	XXXX
1996	MICHL Mark
1991	MICHL Mark
1986	MICHL MARK
1981	MICHL CHAS M
1976	MICHL CHAS M
1972	MICHL CHARLES M

4798 Francis Avenue	
2011	XXXX
2006	HERNADEZ Micheal
2001	HERNANDEZ Ramon
1996	MICHL Frank
1991	MICHL Frank
1986	MICHL FRANK
1981	MICHL FRANK
1976	MICHL FRANK
1972	MICHL FRANK
4808 Francis Avenue	
2011	XXXX
2001	COKELEY Don
2001	COKELEY Margaret
1996	COKELEY Don
1996	COKELEY Margaret
1991	COKELEY Don
1991	COKELEY Margaret
1986	ADAY ARLY S
1981	ADAY ARLY S
1976	ADAY ARLY S
1972	ADAY A S
4812 Francis Avenue	
2011	JIMENEZ Genaro
2006	JIMENEZ Genaro
2001	COKELEY Donald
1981	XXXX
1976	OLIVER J
1972	ALLEN MAGDALEN
4824 Francis Avenue	
2011	ALVARADO Carlos
2006	CHALUPNIK Edw
2001	CHALUPNIK Edw
1996	CHALUPNIK Edw
1991	CHALUPNIK Edw
4842 Francis Avenue	
2011	BROWN Rosemary

2006	BROWN Rosemary
2001	BROWN Joel A
2001	BROWN R G
1996	BROWN Joel A
1996	BROWN R G
1991	BROWN Joel A
1991	BROWN R G
1986	BROWN JOEL A
1976	WARREN JOHN R
1972	WARREN JOHN
4852 Francis Avenue	
2011	DEBIE Cornelius
2006	DEBIE Cornelius
2001	DEBIE Cornelius
1996	DEBIE C J
1991	DEBIE C J
1986	DEBIE C J
1981	DEBIE C J
4866 Francis Avenue	
2011	MURPHY Douglas
2006	MURPHY Douglas
2001	MURPHY Douglas
1996	PIPERSKY Emil
1991	PIPERSKY Emil
1986	PIPERSKY EMIL
1981	PIPERSKY EMIL
1976	PIPERSKY EMIL
1972	PIPERSKY EMIL
4892 Francis Avenue	
2011	ERBSTOESSER Chas 909
2011	FRANCISCO Cody
2011	MORITZ Stacey
2006	ERBSTOESSER Chas
2001	ERBSTOESSER Chas
1996	ERBSTOESSER Chas
1991	ERBSTOESSER Chas
1981	NAGEL LINDA

1976 CHIREMPES RAY1972 CHIREMPES RAY

Abstract Section 2: This section includes the city directory data sorted by the year the city directory was published.

2011	
	X NORTON AVE
4310	BAILEY Dale
4313	KESER Raymond
4330	XXXX
4339	FRENCH H
4339	FRENCH Ronald
4340	XXXX
	X FRANCIS WAY
	X CONCORD CT
4394	WEBBER K
4405	HEINSSEN David
4406	GARCIA Jose
4420	BANDA Ruben
4425	LEDESMA Alejandra
4425	PLASCENCIA Marco
4436	PRECIADO Gregorio
4436	SANTOS Patricia
4445	SCHALLER Scott
4445	TORRES Albert
4446	RIVERA Jose
4462	XXXX
4463	GUTIERREZ D
4463	GUTIERREZ L
4472	LAWRENCE Jason
4480	XXXX
4483	APODACA Gerald
4483	VALDIVIA Esperanza
4494	M & M MARKET
	X RAMONA AVE
4523	XXXX
4524	BADIOS Richard

4534	LOPEZ Alba
4543	HARRIS Camille
4549	MCFARLAND Steven
4553	PEREZ Francisco
4557	XXXX
4559	XXXX
4562	VELASQUEZ Albert
4570	MUNZER William
4573	HEHN Kim
4585	XXXX
4593	QUACH Steve
4664	NAVA Joaquin
	X YORBA AVE
4725	BRESCIANI Nikole
4736	GONZALES David
4739	BURTON K
4739	LANGFIELD K
4740	XXXX
4744	XXXX
4746	GOMEZ Carlos
4758	ESPINOZA Leticia
4758	MARQUEZ Gilbert
4759	PATTERSON Susie
4770	AYALA Esther
	X SERRA AVE
4782	GOSE James
4782	MACIEL Dean
4782	SANTOS Thomas
4798	XXXX
	X CARLISLE AVE
4808	XXXX
4812	JIMENEZ Genaro
4824	ALVARADO Carlos
4842	BROWN Rosemary
	X CRYSTAL AVE
4852	DEBIE Cornelius
4866	MURPHY Douglas

4892	ERBSTOESSER Chas 909
4892	FRANCISCO Cody
4892	MORITZ Stacey
	X MONTE VISTA AVE
2006	
	X NORTON AVE
4310	BAILEY Dale
4313	KESER Raymond
4330	SANCHEZ Jorge
4339	FRENCH Ronald
4340	XXXX
	X FRANCIS WAY
	X CONDCORD CT
4394	WEBBER K
4405	HEINSSEN David
4406	ELIAS Urbano
4406	GARCIA Jose
4406	RUIZ Oscaldo
4420	BANDA Ruben
4425	DELEON D
4425	LEDEZMA Alejandra
4425	PLASCENCIA Marco
4436	PRECIADO Gregorio
4445	SCHALLER Scott
4446	RIVERA Jose
4458	XXXX
4462	XXXX
4463	GUITERREZ Daniel
4472	LAWRENCE Jason
4480	LAWRENCE Frieda
4483	APODACA LEGAL SERVICES
4494	M & M MARKET
	X RAMONA AVE
4523	XXXX

BADIOS Richard

HARRIS Camille

LOPEZ Alba

4524

4534

4549	MCFARLAND Steven	
4553	XXXX	
4557	XXXX	
4559	XXXX	
4562	VELASQUEZ Albert	
4570	XXXX	
4573	HEHN Kim	
4593	MONTANO Guillermo	
4664	NAVA Joaquin	
	X CARLISLE AVE	
	X YORBA AVE	
4725	BRESCIANI Adam	
4736	GONZALES David	
4739	BURTON Karen	
4744	XXXX	
4746	XXXX	
4758	ESPINOZA Leticia	
4758	MARQUEZ Gilbert	
4759	PATTERSON Susie	
4770	AYALA Hector	
4770	AYALA Pedro	
	X SERRA AVE	
4782	XXXX	
4798	HERNADEZ Micheal	
4812	JIMENEZ Genaro	
4824	CHALUPNIK Edw	
4842	BROWN Rosemary	
	X CRYSTAL AVE	
4852	DEBIE Cornelius	
4866	MURPHY Douglas	
4892	ERBSTOESSER Chas	
	X MONTE VISTA AVE	
2001		
	X NORTON AV	
4310	BAILEY Dale	
4313	KESER Raymond	
4313	KESER Sandy	

4330	PFEIFFER John
4339	FRENCH Ronald
4340	ROBERT Betty
4357	XXXX
	X FRANCIS WAY
	X CONCORD CT
4386	XXXX
4394	WEBBER K
4394	WEBBER William
4405	HEINSSEN David
4406	RUIZ Oscaldo
4420	FELTY Aaron
4425	GOMEZ Emelia R
4425	MARTINEZ Patron
4425	PLASCENCIA Marco
4436	PRECIADO Gregorio
4445	FRANCO Hector
4445	TWEEDIE Zena
4446	RIVERA Jose
4458	POTTER William
4463	VRONO Michaela
4463	WILBANKS Rhonda
4480	LAWRENCE Frieda
4483	SANCHEZ Rafael
4494	M&M MARKET
	X RAMONA AV
4523	AFRICA Ronald
4524	BADIOS Richard
4534	LOPEZ Jose
4543	HARRIS Camille
4549	MCFARLAND Steven
4553	LEWIS Ellen
4557	XXXX
4559	LEWIS Ellen
4562	VALASQUEZ Albert
4570	LEE Chin T
4573	HEHN Kim

4585	CORSON Julia
4593	HERNANDEZ Anita
4664	NAVA Joaquin
4664	SALCEDO Eloisa
	X YORBA AV
4725	NELMS Harold
4725	NELMS John
4736	GONZALES David
4739	BURTON Karen
4740	WILSON Bridget
4744	XXXX
4746	NEGRETE Marie
4758	MARIN Enoch
4758	MARQUEZ Gilbert
4759	PATTERSON Donald
4770	AYALA Juana
4770	AYALA Pedro
	X SERRA AV
4782	XXXX
4798	HERNANDEZ Ramon
4808	COKELEY Don
4808	COKELEY Margaret
4812	COKELEY Donald
	X CARLISLE AV
4824	CHALUPNIK Edw
4842	BROWN Joel A
4842	BROWN R G
	X CRYSTAL AV
4852	DEBIE Cornelius
4866	MURPHY Douglas
4892	ERBSTOESSER Chas
	X MONTE VISTA AV
1996	
4310	ROSS Lois
4313	KESER Raymond
4330	PFEIFFER John
4339	FRENCH Ronald

4340	XXXX
4357	XXXX
4386	XXXX
4394	WEBBER K
4405	HEINSSEN Karl
4406	RUIZ Juan
4420	CONKLE Geo F
4420	J&J GUEST HOME
4425	SIABA Jose
4436	PRECIADO Gregorio
4446	HURTADO Victor
4458	XXXX
4463	WILBANKS Rhonda
4480	XXXX
4483	OUIMET John
4494	M&M MARKET
4523	AFRICA Ronald
4524	BADIOS Richard
4543	HARRIS Camille
4549	XXXX
4553	XXXX
4557	XXXX
4559	XXXX
4562	SOLTERO Steven
4570	GIFT&CRFT EXCLLNCE
4570	MULATO Jose Luis
4570	N A P S PALLETS
4573	HEHN Kim
4585	CORSON Julia
4664	DELEON Veronica
4664	NAVA Joaquin
4725	NELMS John
4736	XXXX
4739	BURTON Karen
4740	XXXX
4744	XXXX
4758	ROGERS Dale

4759	PATTERSON Donald
4770	GARCIA Juan
4782	MICHL Mark
4798	MICHL Frank
4808	COKELEY Don
4808	COKELEY Margaret
4824	CHALUPNIK Edw
4842	BROWN Joel A
4842	BROWN R G
4852	DEBIE C J
4866	PIPERSKY Emil
4892	ERBSTOESSER Chas
1991	
4310	ROSS Lois
4313	KESER Raymond
4330	PFEIFFER John
4339	FRENCH Ronald
4340	FITZGERALD Mathew
4357	KAHLER Marvin R
4378	TOWNSEND Elvin
4378	TOWNSEND Gladys E
4386	XXXX
4394	WEBBER K
4405	HEINSSEN Karl
4406	XXXX
4436	PRECIADO Gregorio
4445	XXXX
4458	XXXX
4480	XXXX
4483	XXXX
4494	M&M MARKET
4543	HARRIS Camille
4549	COMBS Fred
4553	XXXX
4557	XXXX
4559	XXXX
4570	A M PALLETS

4570	GIFT&CRFT EXCLLNCE	
4570	MULATO Jose Luis	
4725	NELMS John	
4736	XXXX	
4739	XXXX	
4740	REY Erens M	
4744	XXXX	
4758	XXXX	
4782	MICHL Mark	
4798	MICHL Frank	
4808	COKELEY Don	
4808	COKELEY Margaret	
4824	CHALUPNIK Edw	
4842	BROWN Joel A	
4842	BROWN R G	
4852	DEBIE C J	
4866	PIPERSKY Emil	
4892	ERBSTOESSER Chas	
1986		
4310	ROSS LOIS	
4313	KESER RAYMOND	
4330	PFEIFFER JOHN	
4339	FRENCH RONALD	
4340	COLLINS TODD	
4357	XXXX	
4378	TOWNSEND ELVIN	
4378	TOWNSEND GLADYS E	
4386	XXXX	
4394	TOWNSEND R O	
4405	HEINSSEN KARL	
4406	LOPEZ OLIVIA	
4436	PRECIADO GREGORIO	
4445	XXXX	
4458	POTTER BILL	
4480	XXXX	
4483	ROBERTSON CLARENCE	
4494	M&M MARKET	

4524	GEURTS JOHN	
4543	HARRIS CAMILLE	
4549	XXXX	
4553	XXXX	
4557	LEWIS MILTON	
4559	XXXX	
4570	TIMAKAS ALEXANDER	
4573	CARPETER CARL C	
4664	JOHNSON D L	
4725	NELMS JOHN	
4736	XXXX	
4739	XXXX	
4740	PIERCE KERRY	
4744	XXXX	
4758	GERMAN DAVID	
4770	CHAVEZ MARIA	
4782	MICHL MARK	
4798	MICHL FRANK	
4808	ADAY ARLY S	
4842	BROWN JOEL A	
4852	DEBIE C J	
4866	PIPERSKY EMIL	
1981		
4310	ROSS LOIS	
4313	KESER RAYMOND	
4330	PFEIFFER JOHN	
4339	CLAY STEVE	
4340	XXXX	
4357	BAXTER C M DVM	
4357	BROWN STEPHEN	
4378	TOWNSEND ELVIN	
4394	TOWNSEND R O	
4405	HEINSSEN KARL	
4406	LOPEZ OLIVIA	
4436	PRECIADO GREGORIO	
4445	HEINLEIN RAY	
4458	MAHON MICHAEL P	

	4458	WADE N
	4472	EGGERS LEE
	4480	XXXX
	4483	ROBERTSON CLARENCE
	4494	A&B MARKET
	4523	DENNIS LLOYD
	4524	XXXX
	4534.5	HERBERT ELIZABETH
	4543	HARRIS CAMILLE MRS
	4549	ASHLEY CHARLIE
	4553	XXXX
	4559	XXXX
	4570	XXXX
	4573	CARPENTER CARL C
	4664	JOHNSON D L
	4725	SMITH DONALD
	4736	XXXX
	4739	XXXX
	4740	DYKSTRA GARY
	4744	POLSON MARLA
	4758	ROMAINE ORIGINALS
	4759	WALL RICHARD
	4770	CHAVEZ MARIA
	4782	MICHL CHAS M
	4798	MICHL FRANK
	4808	ADAY ARLY S
	4812	XXXX
	4852	DEBIE C J
	4866	PIPERSKY EMIL
	4892	NAGEL LINDA
19	976	
	4310	HAASE MICHAEL E
	4313	KESER RAYMOND
	4330	PFEIFFER JOHN
	4340	LOWE E E
	4378	TOWNSEND ELVIN
	4394	TOWNSEND R O

4405	HEINSSEN KARL
4406	GOYENECHE STEVE
4436	PRECIADO GREGORIO
4445	HEINLEIN RAY
4480	TURPIN WM
4494	A&B MKT
4494	ANTILL LEE ROY C
4523	ALLEN D B
4524	SOARES DENNIS
4534.5	PRIEST RAYMOND
4543	HARRIS CAMILLE MRS
4549	CONN ETHEL
4570	AMER REX FUR CORP
4573	CARPENTER CARL C
4664	ESQUIVIAS MEL
4736	GONZALES DAVID
4739	CAREY ORA GRACE
4782	MICHL CHAS M
4798	MICHL FRANK
4808	ADAY ARLY S
4812	OLIVER J
4842	WARREN JOHN R
4866	PIPERSKY EMIL
4892	CHIREMPES RAY
1972	
4313	KESER RAYMOND
4340	LOWE E E
4378	TOWNSEND ELVIN
4394	TOWNSEND R O
4405	HEINSSEN K
4406	GOYENECHE STEVE
4425	HEIGLE HENRY
4436	PRECIADO GREGORIO
4480	TURPIN WILLIAM
4494	A & B MARKET
4494.5	REPAIR SHOP THE
4523	ALLEN D B

4543	HARRIS MRS CAMILLE
4562	DIAS DAVID A
4562	ZENTLER FRED
4664	ZENTLER W
4736	GONZALES DAVID
4739	CAREY ORA GRACE
4744	HAMILTON RICHARD
4782	MICHL CHARLES M
4798	MICHL FRANK
4808	ADAY A S
4812	ALLEN MAGDALEN
4842	WARREN JOHN
4866	PIPERSKY EMIL
4892	CHIREMPES RAY

Research Summary for City Directory Abstract

Site Location Borstein Phase I ESA 4570 Francis Avenue Chino, CA

HIG Project # 1636128 **Date Created** 07/25/2016



Gatherers

Conducted For ERIS 38 Lesmill Road, Unit #2 Toronto, ON

HIG has produced a city directory abstract for one or more streets associated with the site location indicated above. The publications used to create the CD Abstract are listed below.

The information below is taken directly from the city directory books. The following are definitions as they are found in the Haines books:

XXXX = is no phone, no people or non-published phone.

600 XXXX = Correct address only. No other information.

X Streetname = intersecting cross street

Publication year, publisher and title

2011 Haines San Bernardino County

2006 Haines San Bernardino

2001 Haines San Bernardino

1996 Haines San Bernardino

1991 Haines San Bernardino

1986 Haines San Bernardino

1981 Haines Riverside - San Bernardino

1976 Haines Riverside - San Bernardino

1972 General Telephone Company Pomona

Abstract Section 1- This section includes the city directory data sorted by address.

11393 Yorba Avenue		
2011	JACE GUEST HOME	
2011	YAN Cecile	
2006	JACE GUEST HOME	
2006	YAN Jean	
2001	JACE GUEST HOME	
2001	YAN Jean	
1996	JACE GUEST HOME	
1991	JACE GUEST HOME	
11411 Yorba Avenue	e	
2011	FORSCHLER Howard A	
2006	FORSCHLER Howard A	
2001	FORSCHLER Howard A	
1996	FORSCHLER Howard A	
1991	FORSCHLER Howard A	
1986	FORSCHLER HOWARD A	
1981	FORSCHLER HOWARD A	
1976	FORSCHLER H A	
1972	FORSCHLER HOWARD A	
11419 Yorba Avenue	9	
2011	BUNDALIAN-ST Marcia	
2011	STEPHEN Anthony	
2006	STEPHEN Anthony	
2001	STEPHEN Anthony	
1996	STEPHEN Anthony	
1991	STEPHEN Anthony	
1986	STEPHEN ANTHONY P	
1981	STEPHEN ANTHONY P	
1976	STEPEN ANTHONY P	
11420 Yorba Avenue	e	
2011	XXXX	
2001	SAULNIER James	
1996	XXXX	
1991	XXXX	
1986	xxxx	

1981	XXXX
11424 Yorba Avenue	
2011	MARIN Ruben
2006	PRUETT Cassa
2001	PRUETT Cassa
1996	PRUETT Cassa
1991	PRUETT Cassa
1986	PRUETT CASSA
1981	PRUETT CASSA
1976	PRUETT CASSA
1972	PRUETT CASSA
11430 Yorba Avenue	
2001	S&R NURSERY
1996	S&R NURSERY
1991	NATURES OWN GREENHS
11444 Yorba Avenue	
2011	BUENROSTRO Martin
2011	OWENS Cindy
2006	BUENROSTRO Martin
2001	BUENROSTRO Martin
1996	MORENO Marcelino
1976	PRUETT MICHAEL N
1972	PRUETT M N
11448 Yorba Avenue	
2011	XXXX
2006	XXXX
2001	WEDELL James
1996	CORDASCO Pat
1996	CORDASCO Suzie
11450 Yorba Avenue	
2011	KAAN Linda
1976	DELGADO VICENTE
1972	DELGADO VICENTE
11456 Yorba Avenue	
2011	XXXX

WELDELL Jim

2001 XXXX 1996 XXXX **DELGADO Erasto Cera** 1991 1986 **DELGADO ERASTO CERA** 1981 **TELFORD CHARLES** 1972 **WRIGHT BILL** 11470 Yorba Avenue 2011 XXXX XXXX 2006 2001 WEDELL Jim 1996 XXXX 1991 **SLONE Denver** 1986 SLONE DENVER 1981 **GULIZIA SANDRA** 1981 SLONE DENVER 1972 KINSLOW M D 11475 Yorba Avenue LEE Chin Te 2011 2006 LEE Chin Te 2001 LEE Chin Te 11494 Yorba Avenue **CORONADO Steve** 2011 2011 CRISTOFOL Kathryn 2006 **CRUSTOFOL Dora** 2001 **CRISTOFOL Dora CRISTOFOL** Dora 1996 1991 XXXX CORONADO JULIAN A 1981 1976 ROSS BEN N 1972 ROSS B N 11511 Yorba Avenue 2011 XXXX 2006 CLAY C 2006 **TAMANG Abel** CLAY C 2001 2001 **COLLINS** George

1996 CLAY C 1996 **CALLINS Carol** CLAY C 1991 CLAY C 1986 11522 Yorba Avenue 2011 **CHEN Charles** 2006 TSAI Ching-san 2001 **TSAI Ching** 1996 XXXX 1986 PHILLIPS HAY CO 1981 **HEIM JOE** 1981 PHILIPS RAY 1976 PHILLIPS RAY 11529 Yorba Avenue 2011 **TAMANG Abel** 2011 TAMANG ELECTRIC 2006 TAMANG ELECTRIC 2001 LIN Meiling 2001 WANG Jung 1996 **COREY Barbara** 1991 XXXX XXXX 1986 1981 MARLEY IND SALES 1981 MARLEY SHERRY 11535 Yorba Avenue 2011 XXXX 1986 OSHEA L 1981 OSHEA L 11545 Yorba Avenue 2011 **TAMANG Abel** 2006 **TAMANG Abel** 2001 **ALDERSON Jim** 2001 STOWE Jefferson 2001 WRIGHT Judy 1996 LOPEZ Ramon

STOWE Jeff

1996	WRIGHT Judy
1991	STOWE Jeff
1991	WRIGHT Judy
1986	WRIGHT JUDY
1981	CLARK CAROL
1981	KENNEDY M
1976	CUNNINGHAM J E
1976	KENNEDY M
1972	CUNNINGHAM J E
11576 Yorba Avenue	
2011	CHEN Shun-hsiang
2006	CHEN Shun-hsiang
2001	CHEN Shun
1996	XXXX
1991	MORAN Arthur
1986	MORAN ARTHUR H
1981	MORAN ARTHUR H
1976	MORAN ARTHUR H
1972	MORAN ARTHUR H
11580 Yorba Avenue	
2011	LEE Vicki
2006	CHEN Petty
2001	CHEN Petty
2001	CHEN Shun H
1996	XXXX
1991	
1001	XXXX
1986	XXXX XXXX
1986	XXXX
1986 1981	XXXX
1986 1981 11588 Yorba Avenue	XXXX XXXX
1986 1981 11588 Yorba Avenue 2011	XXXX XXXX BARBOSA Mario
1986 1981 11588 Yorba Avenue 2011 2006	XXXX XXXX BARBOSA Mario BARBOSA Mario
1986 1981 11588 Yorba Avenue 2011 2006 2001	XXXX XXXX BARBOSA Mario BARBOSA Mario BARBOSA Mario
1986 1981 11588 Yorba Avenue 2011 2006 2001 1981	XXXX XXXX BARBOSA Mario BARBOSA Mario BARBOSA Mario MCCLANAHAN T W
1986 1981 11588 Yorba Avenue 2011 2006 2001 1981	XXXX XXXX BARBOSA Mario BARBOSA Mario BARBOSA Mario MCCLANAHAN T W WILSON KEN

2011 KING Otis 2006 KING Otis 2001 KING Joan 2001 KING Otis 1981 **DOUGLASS GORDON** 1981 TAYLOR PATRICIA 11589.5 Yorba Avenue 1986 PETERSON CRAIG 11591 Yorba Avenue 2011 JOHNSON Maryann 2006 JOHNSON Maryann 11617 Yorba Avenue 2011 **CROWDER Steve** 2006 **CROWDER Steve** 2001 **CROWDER Steve** 1996 **CROWDER Steve** 1972 **ROSS MARY S** 11627 Yorba Avenue 2011 **DIX Jaysen** 2011 **JONES Thomas** JONES Thomas 2006 2001 **JONES Thomas** 1996 XXXX 1991 ALEXANDRE Tom 1981 SASSEN RONALD L 11639 Yorba Avenue 2011 **REYES Raul** 2006 **REYES Raul** 2001 XXXX 1991 **ALVARADO Angel** 1986 RASPA ROSSANA 1976 **UTTZ PHILLIP** 1972 SIFUENTES E A 11639.5 Yorba Avenue 1991 ALVARADO Odilia M

RUTHWELL BROOKE

1976	JONES RONALD F E
11647 Yorba Avenue	
2011	DELGADDO Ernestina
2006	DELGADDO Ernestina
2001	AVILA Tiotonio
1981	WALLACE BILL
1976	NAGY SIGMUND
11647.5 Yorba Avenue	
1991	GORDILLO Julio R
1986	ALEXANDRE TOM
11667 Yorba Avenue	
1981	NAGY SIGMUND
1972	BURREX PROPERTIES
11667.5 Yorba Avenue	
2001	BAXTER Susan
1986	TURNURE JOHN G
1981	TURNURE JOHN G
1972	MONTI CARMINE
11669 Yorba Avenue	
2011	REYNOLDS B
2011	TUCKER Rebekah
2006	REYNOLDS B
1981	OROSCO PHILIP
1972	MCCOY NATH
11669.5 Yorba Avenue	
1991	STORY Eva
1986	STORY EVA
1981	HARTWIG BROOK
11711 Yorba Avenue	
2011	GRIMES Robt
2006	GRIMES Robt
2001	GRIMES Robt
1996	GRIMES Robt
1991	GRIMES Robt
1986	GRIMES ROBT
1981	GRIMES ROBT

11723 Yorba Avenue	
2011	FOWLER Kevin
2006	FOWLER Kevin
2001	FOWLER Kevin
1996	FOWLER Kevin
1991	XXXX
1986	XXXX
1981	XXXX
11735 Yorba Avenue	
2011	FLORES Ralph
2006	FLORES Yolanda
11747 Yorba Avenue	
2011	MCCLELLAN Charles
2006	MCCLELLAN Charles
2001	MCCLELLAN Charles
1996	MCCLELLAN Charles
1991	XXXX
1986	CRAIG CONRAD M
1981	CRAIG CONRAD M
11759 Yorba Avenue	
2011	LOPEZ Lawrence
2006	LOPEZ Lawrence
2001	LOPEZ Lawrence
1996	LOPEZ Lawrence
1986	SIDDONS ALAN
1981	SIDDONS ALAN
11761 Yorba Avenue	
2011	ALBERTO Zori
2011	MAPARA Cassim
2006	ALBERTO Zorid
2006	MAPARA Cassim
2001	MAPARA Cassim
1996	JACKSON Lee
1991	MAPARA Cassim
1986	OCHOA JIM
1981	OCHOA JIM
11773 Yorba Avenue	

2011	CRUZ Nadine
2011	VILLA Richard
2006	CRUZ Nadine
2006	VILLA Richard
2001	CRUZ Nadine
1996	HEARN Carol
1986	STEVENS ED
1981	STEVENS ED
11785 Yorba Avenue	
2011	NIELSON Malene
2011	WORLEY Alison
2006	NIELSON Malene
2001	NIELSON Malene
1996	NIELSON Donald
1991	NIELSON Donald
1986	NIELSON DONALD
1981	ADAMS PHILLIP
11797 Yorba Avenue	
2011	PITTS Robert
2006	PITTS Robert
2001	PITTS Robert
1996	PITTS Robert
1991	XXXX
1986	ROCHFORD STEPHEN
1981	ROCHFORD STEPEN

Abstract Section 2: This section includes the city directory data sorted by the year the city directory was published.

2011		
	X GREENWOOD WAY	
11393	JACE GUEST HOME	
11393	YAN Cecile	
11411	FORSCHLER Howard A	
11419	BUNDALIAN-ST Marcia	
11419	STEPHEN Anthony	
11420	XXXX	
11424	MARIN Ruben	

	X ORANGE BLOSSOM LN
11444	BUENROSTRO Martin
11444	OWENS Cindy
11448	XXXX
11450	KAAN Linda
11456	XXXX
11470	XXXX
11475	LEE Chin Te
11494	CORONADO Steve
11494	CRISTOFOL Kathryn
11511	XXXX
11522	CHEN Charles
11529	TAMANG Abel
11529	TAMANG ELECTRIC
11535	XXXX
11545	TAMANG Abel
11576	CHEN Shun-hsiang
11580	LEE Vicki
11588	BARBOSA Mario
11589	KING Otis
11591	JOHNSON Maryann
11617	CROWDER Steve
11627	DIX Jaysen
11627	JONES Thomas
11639	REYES Raul
11647	DELGADDO Ernestina
11669	REYNOLDS B
11669	TUCKER Rebekah
	X FRANCIS AVE
11711	GRIMES Robt
11723	FOWLER Kevin
	X LA CAUSEY CT
11735	FLORES Ralph
11747	MCCLELLAN Charles
11759	LOPEZ Lawrence
11761	ALBERTO Zori
11761	MAPARA Cassim

	X LA MASITA CT
11773	CRUZ Nadine
11773	VILLA Richard
11785	NIELSON Malene
11785	WORLEY Alison
11797	PITTS Robert
	X WALDEN ST
2006	
2000	X GREENWOOD WAY
11393	JACE GUEST HOME
11393	YAN Jean
11411	FORSCHLER Howard A
11419	STEPHEN Anthony
11424	PRUETT Cassa
	X ORANGE BLOSSOM LN
11444	BUENROSTRO Martin
11448	XXXX
11456	WELDELL Jim
11470	XXXX
11475	LEE Chin Te
11494	CRUSTOFOL Dora
11511	CLAY C
11511	TAMANG Abel
11522	TSAI Ching-san
11529	TAMANG ELECTRIC
11545	TAMANG Abel
11576	CHEN Shun-hsiang
11580	CHEN Petty
11588	BARBOSA Mario
11589	KING Otis
11591	JOHNSON Maryann
11617	CROWDER Steve
11627	JONES Thomas
11639	REYES Raul
11647	DELGADDO Ernestina
11669	REYNOLDS B
	X FRANCIS AVE

11711	GRIMES Robt	
11723	FOWLER Kevin	
	X LA CAUSEY CT	
11735	FLORES Yolanda	
11747	MCCLELLAN Charles	
11759	LOPEZ Lawrence	
11761	ALBERTO Zorid	
11761	MAPARA Cassim	
	X LA MASITA CT	
11773	CRUZ Nadine	
11773	VILLA Richard	
11785	NIELSON Malene	
11797	PITTS Robert	
	X WALDEN ST	
2001		
11393	JACE GUEST HOME	
11393	YAN Jean	
	X ORANGE BLOSSOM LN	
	X GREENWOOD WAY	
	X PHILLIPS BLVD	
11411	FORSCHLER Howard A	
11419	STEPHEN Anthony	
11420	SAULNIER James	
11424	PRUETT Cassa	
11430	S&R NURSERY	
11444	BUENROSTRO Martin	
11448	WEDELL James	
11456	XXXX	
11470	WEDELL Jim	
11475	LEE Chin Te	
11494	CRISTOFOL Dora	
	X ELM	
11511	CLAY C	
11511	COLLINS George	
11522	TSAI Ching	
11529	LIN Meiling	
11529	WANG Jung	

11545	ALDERSON Jim	
11545	STOWE Jefferson	
11545	WRIGHT Judy	
11576	CHEN Shun	
11580	CHEN Petty	
11580	CHEN Shun H	
11588	BARBOSA Mario	
11589	KING Joan	
11589	KING Otis	
11617	CROWDER Steve	
11627	JONES Thomas	
11639	XXXX	
11647	AVILA Tiotonio	
11667.5	BAXTER Susan	
	X FRANCIS AV	
11711	GRIMES Robt	
11723	FOWLER Kevin	
	X LACAUSEY CT	
11747	MCCLELLAN Charles	
11759	LOPEZ Lawrence	
11761	MAPARA Cassim	
11773	CRUZ Nadine	
11785	NIELSON Malene	
11797	PITTS Robert	
	X WALDEN	
1996		
11393	JACE GUEST HOME	
11411	FORSCHLER Howard A	
11419	STEPHEN Anthony	
11420	XXXX	
11424	PRUETT Cassa	
11430	S&R NURSERY	
11444	MORENO Marcelino	
11448	CORDASCO Pat	
11448	CORDASCO Suzie	
11456	XXXX	
11470	XXXX	

11494	CRISTOFOL Dora
11511	CLAY C
11511	CALLINS Carol
11522	XXXX
11529	COREY Barbara
11545	LOPEZ Ramon
11545	STOWE Jeff
11545	WRIGHT Judy
11576	XXXX
11580	XXXX
11617	CROWDER Steve
11627	XXXX
11711	GRIMES Robt
11723	FOWLER Kevin
11747	MCCLELLAN Charles
11759	LOPEZ Lawrence
11761	JACKSON Lee
11773	HEARN Carol
11785	NIELSON Donald
11797	PITTS Robert
1991	
1331	
11393	JACE GUEST HOME
	JACE GUEST HOME FORSCHLER Howard A
11393	
11393 11411	FORSCHLER Howard A
11393 11411 11419	FORSCHLER Howard A STEPHEN Anthony
11393 11411 11419 11420	FORSCHLER Howard A STEPHEN Anthony XXXX
11393 11411 11419 11420 11424	FORSCHLER Howard A STEPHEN Anthony XXXX PRUETT Cassa
11393 11411 11419 11420 11424 11430	FORSCHLER Howard A STEPHEN Anthony XXXX PRUETT Cassa NATURES OWN GREENHS
11393 11411 11419 11420 11424 11430 11456	FORSCHLER Howard A STEPHEN Anthony XXXX PRUETT Cassa NATURES OWN GREENHS DELGADO Erasto Cera
11393 11411 11419 11420 11424 11430 11456 11470	FORSCHLER Howard A STEPHEN Anthony XXXX PRUETT Cassa NATURES OWN GREENHS DELGADO Erasto Cera SLONE Denver
11393 11411 11419 11420 11424 11430 11456 11470 11494	FORSCHLER Howard A STEPHEN Anthony XXXX PRUETT Cassa NATURES OWN GREENHS DELGADO Erasto Cera SLONE Denver XXXX
11393 11411 11419 11420 11424 11430 11456 11470 11494 11511	FORSCHLER Howard A STEPHEN Anthony XXXX PRUETT Cassa NATURES OWN GREENHS DELGADO Erasto Cera SLONE Denver XXXX CLAY C
11393 11411 11419 11420 11424 11430 11456 11470 11494 11511 11529	FORSCHLER Howard A STEPHEN Anthony XXXX PRUETT Cassa NATURES OWN GREENHS DELGADO Erasto Cera SLONE Denver XXXX CLAY C XXXX
11393 11411 11419 11420 11424 11430 11456 11470 11494 11511 11529 11545	FORSCHLER Howard A STEPHEN Anthony XXXX PRUETT Cassa NATURES OWN GREENHS DELGADO Erasto Cera SLONE Denver XXXX CLAY C XXXX STOWE Jeff
11393 11411 11419 11420 11424 11430 11456 11470 11494 11511 11529 11545 11545	FORSCHLER Howard A STEPHEN Anthony XXXX PRUETT Cassa NATURES OWN GREENHS DELGADO Erasto Cera SLONE Denver XXXX CLAY C XXXX STOWE Jeff WRIGHT Judy
11393 11411 11419 11420 11424 11430 11456 11470 11494 11511 11529 11545 11545 11576	FORSCHLER Howard A STEPHEN Anthony XXXX PRUETT Cassa NATURES OWN GREENHS DELGADO Erasto Cera SLONE Denver XXXX CLAY C XXXX STOWE Jeff WRIGHT Judy MORAN Arthur

11639	ALVARADO Angel
11639.5	ALVARADO Odilia M
11647.5	GORDILLO Julio R
11669.5	STORY Eva
11711	GRIMES Robt
11723	XXXX
11747	XXXX
11761	MAPARA Cassim
11785	NIELSON Donald
11797	XXXX
1986	
11411	FORSCHLER HOWARD A
11419	STEPHEN ANTHONY P
11420	XXXX
11424	PRUETT CASSA
11456	DELGADO ERASTO CERA
11470	SLONE DENVER
11511	CLAY C
11522	PHILLIPS HAY CO
11529	XXXX
11535	OSHEA L
11545	WRIGHT JUDY
11576	MORAN ARTHUR H
11580	XXXX
11589.5	PETERSON CRAIG
11639	RASPA ROSSANA
11639.5	RUTHWELL BROOKE
11647.5	ALEXANDRE TOM
11667.5	TURNURE JOHN G
11669.5	STORY EVA
11711	GRIMES ROBT
11723	XXXX
11747	CRAIG CONRAD M
11759	SIDDONS ALAN
11761	OCHOA JIM
11773	STEVENS ED
11785	NIELSON DONALD

1981	
11411	FORSCHLER HOWARD A
11419	STEPHEN ANTHONY P
11420	XXXX
11424	PRUETT CASSA
11456	TELFORD CHARLES
11470	GULIZIA SANDRA
11470	SLONE DENVER
11494	CORONADO JULIAN A
11522	HEIM JOE
11522	PHILIPS RAY
11529	MARLEY IND SALES
11529	MARLEY SHERRY
11535	OSHEA L
11545 #B	CLARK CAROL
11545 #B	KENNEDY M
11576	MORAN ARTHUR H
11580	XXXX
11588	MCCLANAHAN T W
11588	WILSON KEN
11589	DOUGLASS GORDON
11589	TAYLOR PATRICIA
11627	SASSEN RONALD L
11647	WALLACE BILL
11667	NAGY SIGMUND
11667.5	TURNURE JOHN G
11669	OROSCO PHILIP
11669.5	HARTWIG BROOK
11711	GRIMES ROBT
11723	XXXX
11747	CRAIG CONRAD M
11759	SIDDONS ALAN
11761	OCHOA JIM
11773	STEVENS ED
11785	ADAMS PHILLIP
11797	ROCHFORD STEPEN

1076	
1976 11411	FORSCHLER H A
11419	STEPEN ANTHONY P
11424	PRUETT CASSA
11444	PRUETT MICHAEL N
11450	DELGADO VICENTE
	ROSS BEN N
11494	
11522	PHILLIPS RAY
11545	CUNNINGHAM J E
11545 #B	KENNEDY M
11576	MORAN ARTHUR H
11588	HARRIS M
11588	MCCLANAHAN T W
11639	UTTZ PHILLIP
11639.5	JONES RONALD F E
11647	NAGY SIGMUND
1972	
11411	FORSCHLER HOWARD A
11424	PRUETT CASSA
11444	PRUETT M N
11450	DELGADO VICENTE
11456	WRIGHT BILL
11470	KINSLOW M D
11494	ROSS B N
11545	CUNNINGHAM J E
11576	MORAN ARTHUR H
11617	ROSS MARY S
11639	SIFUENTES E A
11667	BURREX PROPERTIES
11667.5	MONTI CARMINE
11669	MCCOY NATH







Project Property: Borstein Phase I ESA

4570 Francis Avenue

Chino CA

Project No: 1125388

Report Type: Database Report

Order No: 20160720091

Requested by: Tetra Tech

Date Completed: July 21, 2016

Ecolog ERIS Ltd.

Environmental Risk Information

Service Ltd. (ERIS)

A division of Glacier Media Inc.

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Executive Summary

Property Information:

Project Property: Borstein Phase I ESA

4570 Francis Avenue Chino CA

Project No: 1125388

Coordinates:

Latitude: 34.041736 Longitude: -117.704227 UTM Northing: 3,767,007.18

UTM Easting: 3,767,007.18
UTM Easting: 434,997.39
UTM Zone: UTM Zone 11S

Elevation: 838 FT

Order Information:

Order No: 20160720091

Date Requested: July 20, 2016

Requested by: Tetra Tech

Report Type: Database Report

Ancillary Products:

Aerial Photographs Historical Aerials
City Directory Search 2 Street Search

Fire Insurance Maps

US Fire Insurance Maps

Physical Setting Report (PSR) PSR

Topographic Maps

Topographic Maps

Executive Summary: Report Summary

Database		Searched	Search Radius	Project Property	Within 0.12mi	0.12mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
Sta	andard Environmental Records			. reperty	V	0.20			
Fee	deral								
	NPL	Υ	1	0	0	0	0	0	0
	PROPOSED NPL	Υ	1	0	0	0	0	0	0
	DELETED NPL	Υ	.5	0	0	0	0	-	0
	SEMS	Υ	.5	0	0	0	0	-	0
	SEMS ARCHIVE	Υ	.5	0	0	0	0	-	0
	CERCLIS	Υ	.5	0	0	0	0	-	0
	CERCLIS NFRAP	Υ	.5	0	0	0	0	-	0
	CERCLIS LIENS	Υ	PO	0	-	-	-	-	0
	RCRA CORRACTS	Υ	1	0	0	0	0	0	0
	RCRA TSD	Υ	.5	0	0	0	0	-	0
		Y	.25	0	0	0	-	-	0
	RCRA LQG	Y	.25	0	0	0	_	-	0
	RCRA SQG	Y	.25	0	0	0	_	-	0
	RCRA CESQG	Y						_	
	RCRA NON GEN		.25	0	0	0	-	-	0
	FED ENG	Y	.5	0	0	0	0	-	0
	FED INST	Υ	.5	0	0	0	0	-	0
	ERNS 1982 TO 1986	Y	PO	0	-	-	-	-	0
	ERNS 1987 TO 1989	Υ	PO	0	-	-	-	-	0
	ERNS	Υ	PO	0	-	-	-	-	0
	FED BROWNFIELDS	Υ	.5	0	0	0	0	-	0
Sta	ate								
	RESPONSE	Υ	1	0	0	0	0	0	0
	ENVIROSTOR	Y	1	0	0	0	0	1	1
	SWF/LF	Y	.5	0	0	0	0	-	0
	HWP	Y	1	0	0	0	0	0	0
	LDS	Υ	.5	0	0	0	0	-	0
	LUST	Υ	.5	0	0	0	0	-	0
	DLST	Y	.5	0	0	0	0	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.12mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
UST	Υ	.25	0	0	0	-	-	0
AST	Υ	.25	0	0	0	-	-	0
DELISTED TNK	Y	.25	0	0	0	-	-	0
UST CLOSURE	Y	.25	0	0	0	-	-	0
HHSS	Y	.25	0	1	0	-	-	1
LUR	Y	.5	0	0	0	0	-	0
HLUR	Y	.5	0	0	0	0	-	0
DEED	Y	.5	0	0	0	0	-	0
VCP	Y	.5	0	0	0	0	-	0
CLEANUP SITES	Y	.5	0	0	0	0	-	0
Tribal								
INDIAN LUST	Υ	.5	0	0	0	0	-	0
INDIAN UST	Υ	.25	0	0	0	-	-	0
DELISTED ILST	Y	.5	0	0	0	0	-	0
DELISTED IUST	Υ	.25	0	0	0	-	-	0
County								
ALAMEDA LOP	Y	.5	0	0	0	0	-	0
ALAMEDA UST	Y	.25	0	0	0	-	-	0
AMADOR CUPA	Y	.25	0	0	0	-	-	0
BUTTE CUPA	Y	.25	0	0	0	-	-	0
CALAVERAS CUPA	Y	.25	0	0	0	-	-	0
CALAVERAS LF	Y	.5	0	0	0	0	-	0
CALAVERAS LUST	Y	.5	0	0	0	0	-	0
COLUSA CUPA	Y	.25	0	0	0	-	-	0
CONTRACO CUPA	Y	.25	0	0	0	-	-	0
DELNORTE CUPA	Y	.25	0	0	0	-	-	0
ELDORADO CUPA	Y	.25	0	0	0	-	-	0
FRESNO CUPA	Y	.25	0	0	0	-	-	0
HUMBOLDT CUPA	Y	.25	0	0	0	-	-	0
IMPERIAL CUPA	Y	.25	0	0	0	-	-	0
INYO CUPA	Υ	.25	0	0	0	-	-	0
KERN CUPA	Υ	.25	0	0	0	-	-	0
KERN UST	Υ	.25	0	0	0	-	-	0
KINGS CUPA	Y	.25	0	0	0	-	-	0
LAKE CUPA	Y	.25	0	0	0	-	-	0
ELSEGUNDO UST	Y	.25	0	0	0	-	-	0
TORRANCE UST	Y	.25	0	0	0	-	-	0
LA HMS	Y	.25	0	0	0	-	-	0
LA LONGB UST	Y	.25	0	0	0	-	-	0
LA SWF	Υ	.5	0	0	0	0	-	0

Database		Searched	Search Radius	Project Property	Within 0.12mi	0.12mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
MAD	DERA CUPA	Υ	.25	0	0	0	-	-	0
MAR	RIN CUPA	Υ	.25	0	0	0	-	-	0
MER	RCED CUPA	Υ	.25	0	0	0	-	-	0
MON	NO CUPA	Υ	.25	0	0	0	-	-	0
MON	NTEREY CUPA	Υ	.25	0	0	0	-	-	0
NAP	A UST	Υ	.25	0	0	0	-	-	0
NEV	'ADA CUPA	Y	.25	0	0	0	-	-	0
ORA	ANGE AST	Υ	.25	0	0	0	-	-	0
ORA	NIGE UST	Y	.25	0	0	0	-	-	0
PLA	CER CUPA	Y	.25	0	0	0	-	-	0
RIVE	ERSIDE LOP	Y	.5	0	0	0	0	-	0
RIVE	ERSIDE UST	Υ	.25	0	0	0	-	-	0
SAC	RAMENTO HAZ	Y	.5	0	0	0	0	-	0
SAC	RAMENTO TOX	Y	.5	0	0	0	0	-	0
SAN	IBERN CUPA	Υ	.25	0	1	0	-	-	1
SAN	IDIEGO HAZ	Υ	.25	0	0	0	-	-	0
SAN	IDIEGO SAM	Υ	.5	0	0	0	0	-	0
SAN	IDIEGO SWF	Υ	.5	0	0	0	0	-	0
SAN	IFRAN AST	Υ	.25	0	0	0	-	-	0
SAN	IFRAN CUPA	Υ	.25	0	0	0	-	-	0
SAN	IFRAN LOP	Υ	.5	0	0	0	0	-	0
SAN	IFRAN UST	Υ	.25	0	0	0	-	-	0
SAN	IJOAQUIN AST	Υ	.25	0	0	0	-	-	0
SAN	IJOAQUIN UST	Υ	.25	0	0	0	-	-	0
SAN	IJOAQUIN HW	Υ	.5	0	0	0	0	-	0
SAN	IMATEO CUPA	Υ	.25	0	0	0	-	-	0
SAN	IMATEO LOP	Υ	.5	0	0	0	0	-	0
SAN	ITACLARA CUPA	Υ	.25	0	0	0	-	-	0
SAN	ITACLARA LO	Υ	.5	0	0	0	0	-	0
SAN	ITACRUZ CUPA	Υ	.25	0	0	0	-	-	0
SAN	ILUISOB CUPA	Υ	.25	0	0	0	-	-	0
SHA	STA CUPA	Y	.25	0	0	0	-	-	0
SOL	ANO CUPA	Υ	.25	0	0	0	-	-	0
SOL	ANO LOP	Υ	.5	0	0	0	0	-	0
SOL	ANO UST	Υ	.25	0	0	0	-	-	0
SON	IOMA CUPA	Υ	.25	0	0	0	-	-	0
SON	IOMA LOP	Υ	.5	0	0	0	0	-	0
SON	IOMA PETAL	Υ	.25	0	0	0	-	-	0
SUT	TER CUPA	Υ	.25	0	0	0	-	-	0
TUO	DLUMNE CUPA	Υ	.25	0	0	0	-	-	0
VEN	ITURA CUPA	Y	.25	0	0	0	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.12mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
OXNARD CUPA	Y	.25	0	0	0	-	-	0
VENTURA INUST	Υ	.25	0	0	0	-	-	0
VENTURA HLUFT	Υ	.5	0	0	0	0	-	0
YOLO UST	Υ	.25	0	0	0	-	-	0
YUBA CUPA	Υ	.25	0	0	0	-	-	0
BKRSFIELD CUPA	Υ	.25	0	0	0	-	-	0
SANTACLARA GIL	Υ	.25	0	0	0	-	-	0
ALPINE CUPA	Υ	.25	0	0	0	-	-	0
GLENN CUPA	Υ	.25	0	0	0	-	-	0
LASSEN CUPA	Υ	.25	0	0	0	-	-	0
MARIPOSA CUPA	Υ	.25	0	0	0	-	-	0
PLUMAS CUPA	Υ	.25	0	0	0	-	-	0
SISKIYOU CUPA	Υ	.25	0	0	0	-	-	0
STANISLAUS CUPA	Υ	.25	0	0	0	-	-	0
TRINITY CUPA	Υ	.25	0	0	0	-	-	0
TULARE CUPA	Υ	.25	0	0	0	-	-	0
Additional Engineering December								
Additional Environmental Records								
Federal								
FINDS/FRS	Υ	PO	0	-	-	-	-	0
TRIS	Υ	PO	0	-	-	-	-	0
HMIRS	Υ	.125	0	0	-	-	-	0
NCDL	Υ	PO	0	-	-	-	-	0
ODI	Υ	.5	0	0	0	0	-	0
IODI	Υ	.5	0	0	0	0	-	0
TSCA	Υ	.125	0	0	-	-	-	0
HIST TSCA	Υ	.125	0	0	-	-	-	0
FTTS ADMIN	Υ	PO	0	-	-	-	-	0
FTTS INSP	Υ	PO	0	-	-	-	-	0
PRP	Υ	PO	0	-	-	-	-	0
SCRD DRYCLEANER	Υ	.5	0	0	0	0	-	0
ICIS	Υ	PO	0	-	-	-	-	0
FED DRYCLEANERS	Υ	.25	0	0	0	-	-	0
FUDS	Υ	1	0	0	0	0	0	0
MLTS	Υ	PO	0	-	-	-	-	0
HIST MLTS	Υ	PO	0	-	-	-	-	0
State								
	Y	.25	0	0	0	_	-	0
DRYCLEANERS	Y	.20	0	0	0	0	0	0
INSP COMP ENF	Y	.125	0	0	-	-	-	
CDL	Y	. 125	0	0	0	0	0	0
SCH	7	1	U	U	U	U	U	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.12mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
CHMIRS	Y	PO	0	-	-	-	-	0
SWAT	Y	.5	0	0	0	0	-	0
HAZNET	Y	PO	0	1	-	-	-	1
CDO/CAO	Y	.5	0	0	0	0	-	0
HIST CHMIRS	Y	PO	0	-	-	-	-	0
HIST MANIFEST	Υ	PO	0	-	-	-	-	0
Tribal	No Tri	ibal additio	onal environ	mental red	ord source	s available	for this Stat	te.
County								
LA SML	Y	.5	0	0	0	0	-	0
RIVERSIDE HZH	Υ	.125	0	0	-	-	-	0
RIVERSIDE HWG	Y	.125	0	0	-	-	-	0
SANJOAQUIN HM	Υ	.125	0	0	-	-	-	0
VENTURA HAZR	Υ	.5	0	0	0	0	-	0
HW INACTIVE	Υ	.5	0	0	0	0	-	0
DELISTED COUNTY	Υ	.25	0	0	0	-	-	0
	Total:		0	3	0	0	1	4

^{*} PO – Property Only
* 'Property and adjoining properties' database search radii are set at 0.25 miles.

Executive Summary: Site Report Summary - Project Property

Map DB Company/Site Name Address Dir/Dist mi Elev Page Key diff ft Number

No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist mi	Elev Diff ft	Page Number
1	HAZNET	OTIS KING	11589 YORBA AVE CHINO CA 91710	NE/0.02	7	<u>16</u>
<u>2</u>	SANBERN CUPA	HOLT GARDEN CENTER	11602 RAMONA AVE CHINO CA 91710	WNW/0.08	0	<u>16</u>
<u>3</u>	HHSS	M AND M MARKET	4494 FRANCIS ST CHINO CA 91710	WSW/0.09	-6	<u>17</u>
<u>4</u>	ENVIROSTOR	CHINO EARLY EDUCATION CENTER	4562 AND 4578 PHILADELPHIA STREET CHINO CA 91710	S/0.50	-38	<u>17</u>

Executive Summary: Summary by Data Source

Standard

State

ENVIROSTOR - EnviroStor Database

A search of the ENVIROSTOR database, dated Apr 28, 2016 has found that there are 1 ENVIROSTOR site(s) within approximately 1.00 miles of the project property.

Equal/Higher Elevation	<u>Address</u>	<u>Direction</u>	Distance mi	Map Key
Lower Elevation	Address	<u>Direction</u>	Distance mi	<u>Map Key</u>
CHINO EARLY EDUCATION CENTER	4562 AND 4578 PHILADELPHIA STREET CHINO CA 91710	S	0.50	<u>4</u>

HHSS - Historical Hazardous Substance Storage Information Database

A search of the HHSS database, dated Aug 27, 2015 has found that there are 1 HHSS site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	<u>Address</u>	<u>Direction</u>	Distance mi	<u>Map Key</u>
Lower Elevation	Address	Direction	Distance mi	Map Kev
Lower Lievation	Addie55	Direction	Distance iiii	<u>wap ney</u>
M AND M MARKET	4494 FRANCIS ST CHINO CA 91710	WSW	0.09	<u>3</u>

County

SANBERN CUPA - San Bernardino County CUPA List

A search of the SANBERN CUPA database, dated Apr 13, 2016 has found that there are 1 SANBERN CUPA site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	<u>Address</u>	<u>Direction</u>	<u>Distance mi</u>	<u>Map Key</u>
-------------------------------	----------------	------------------	--------------------	----------------

Lower Elevation	<u>Address</u>	Direction	<u>Distance mi</u>	<u>Map Key</u>
HOLT GARDEN CENTER	11602 RAMONA AVE CHINO CA 91710	WNW	0.08	<u>2</u>

Non Standard

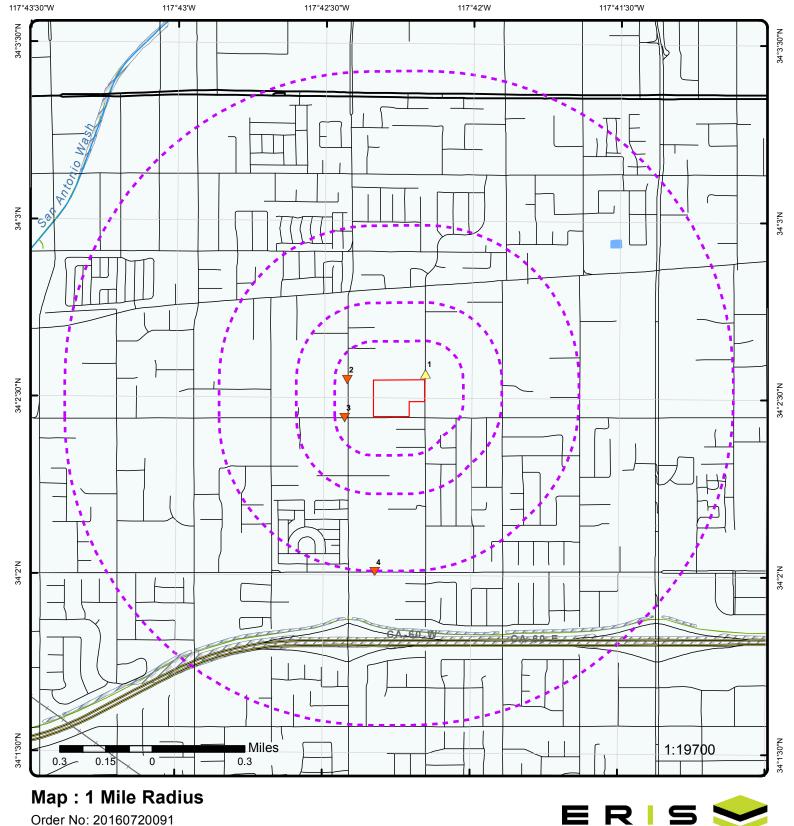
State

HAZNET - Hazardous Waste Manifest Data

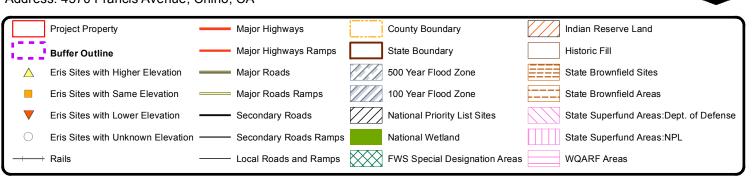
A search of the HAZNET database, dated Oct 2,2015 has found that there are 1 HAZNET site(s) within approximately 0.02 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance mi</u>	<u>Map Key</u>
OTIS KING	11589 YORBA AVE CHINO CA 91710	NE	0.02	1

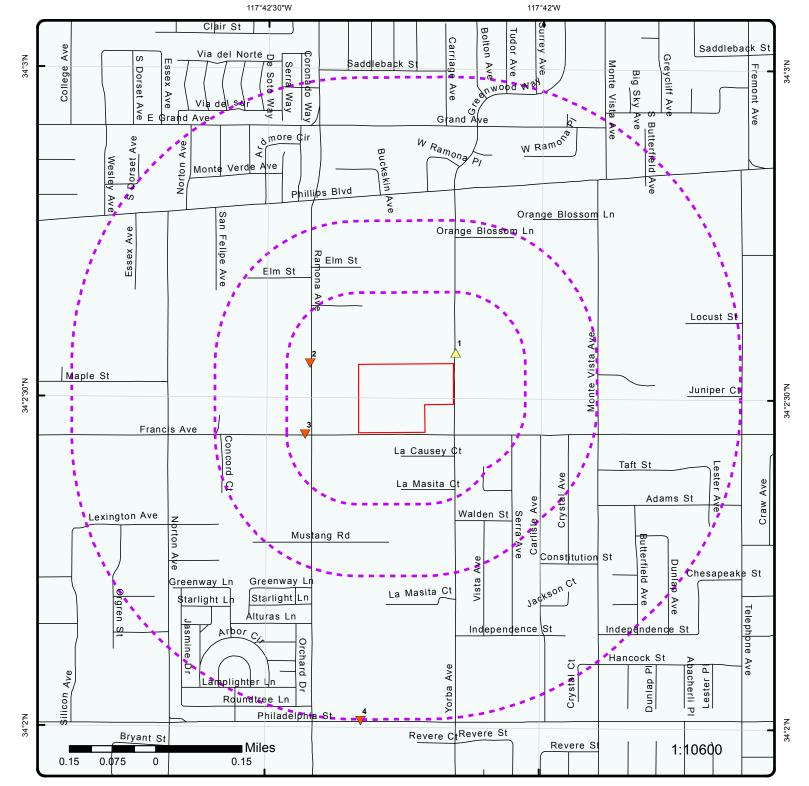
Lower Elevation	<u>Address</u>	Direction	Distance mi	Map Key
------------------------	----------------	------------------	--------------------	---------



Address: 4570 Francis Avenue, Chino, CA



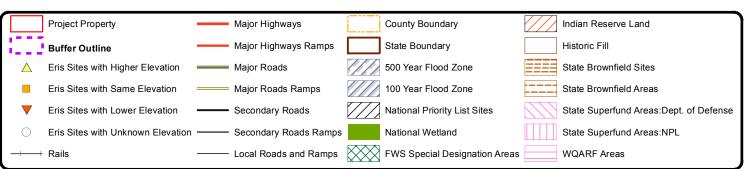
© Ecolog ERIS Ltd Source: © 2012 ESRI

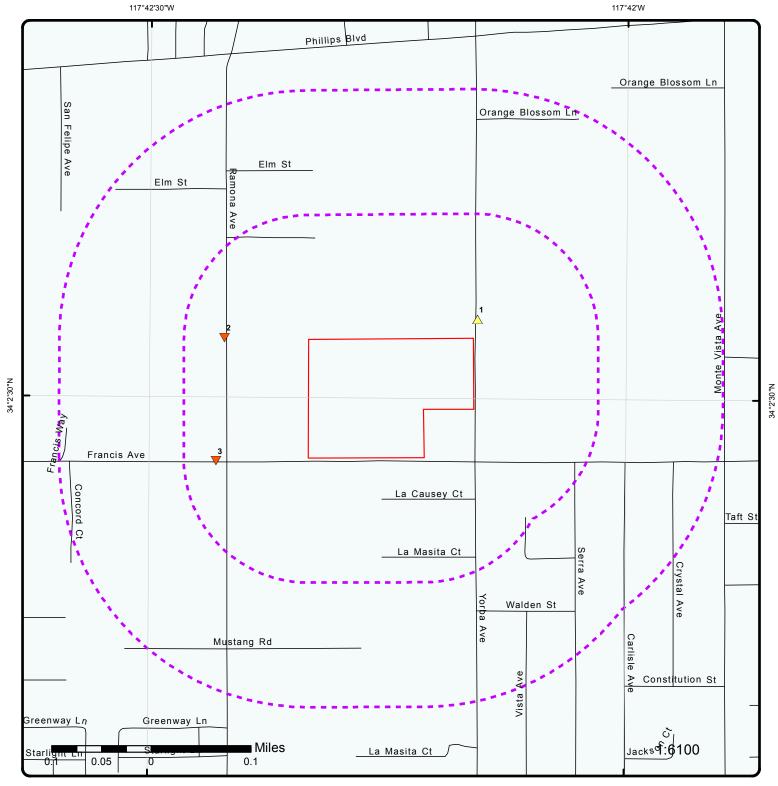


Map: 0.5 Mile Radius

Order No: 20160720091

Address: 4570 Francis Avenue, Chino, CA





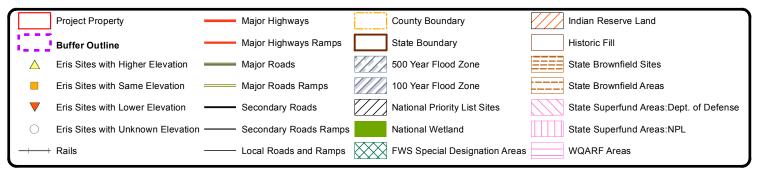
Map: 0.25 Mile Radius

Order No: 20160720091

Address: 4570 Francis Avenue, Chino, CA







Source: © 2012 ESRI © Ecolog ERIS Ltd

117°42'30"W



Aerial Order No: 20160720091

Address: 4570 Francis Avenue, Chino, CA

Detail Report

Мар Кеу	Number of Records	Direction/ Distance mi	Elevation ft	Site		DB
1	1 of 1	NE/0.02	844.86	OTIS KING 11589 YORBA AVE CHINO CA 91710		HAZNET
SIC Code: NAICS Code EPA ID: Create Date Fac Act Ind Inact Date: File Source County Code County Nat Mail Name Mailing Ad	Ce: 2. d: N 8. e: F de: 3 me: S : dr1: 1	AC002686816 /24/2012 o /23/2012 ille Sent By Department 6 an Bernardino		Mailing City: Mailing State: Mailing Zip: Region Code: Owner Name: Owner Addr 1: Owner Addr 2: Owner City: Owner State: Owner Zip: Owner Fax:	CHINO CA 91710 4 OTIS KING 11589 YORBA AVE CHINO CA 91710 9096286603	

Contact Information

Contact Name: OTIS KING
Street Address 1: 11589 YORBA AVE

Street Address 2:

 City:
 CHINO

 State:
 CA

 Zip:
 91710

 Phone:
 9096286603

Tanner Information

16

Generator EPA ID: CAC002686816

Generator County Code: 36

Generator County:San BernardinoTSD EPA ID:CAD028409019

TSD County Code: 19

TSD County: Los Angeles

State Waste Code: 352

State Waste Code Desc.: Other organic solids

Method Code: H141

Method Description: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY

(H010-H129) OR (H131-H135)

Tons: 0.01 **Year:** 2012

2 1 of 1 WNW/0.08 837.83 HOLT GARDEN CENTER SANBERN
11602 RAMONA AVE CUPA
CHINO CA 91710

Order No: 20160720091

Facility ID:FA0011729Owner Info:PARK, MICHAELMailing Care of:MICHAEL PARK

Map Key Number of Direction/ Elevation Site DB Records Distance mi ft

--- Details ---

Status: INACTIVE Permit ID: PT0020340

Permit Desc: HAZMAT HANDLER 0-10 EMPLOYEES

Program Element Code: 4221 **To:** 8/31/13

3 1 of 1 WSW/0.09 831.54 M AND M MARKET HHSS 4494 FRANCIS ST

CHINO CA 91710

County: San Bernardino

Pdf File Url: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002aac6.pdf

4 1 of 1 S/0.50 800.32 CHINO EARLY EDUCATION CENTER ENVIROSTOR

4562 AND 4578 PHILADELPHIA

Order No: 20160720091

STREET CHINO CA 91710

Estor/EPA ID: 36880003 **Site Code:** 404608

Cleanup Status: CERTIFIED AS OF 8/13/2008

Site Type: SCHOOL Potential Media Affected: SOIL

Past Uses Caused Contam: RESIDENTIAL AREA

APN: 1013-421-09, 1013-421-10, 1013-421-11, 1013-421-12, 101342109, 101342110, 101342111,

101342112

National Priorities List: NO

Cleab up Oversight Agenci: DTSC - SITE CLEANUP PROGRAM - LEAD

Special Program: VOLUNTARY CLEANUP PROGRAM

Funding: SCHOOL DISTRICT

Acres: 4.5 ACRES

School District: SAN BERNARDINO COUNTY OFF OF EDUCATION SCHOOL DISTRICT

 Assembly District:
 52

 Senate District:
 20

 Zip:
 91710

Potential Contaminants:

ARSENIC LEAD

Site History:

The approximately 4.5-acre Site is surrounded by residential properties and a nursery. A central portion of the Site is used for miscellaneous storage and the remainder of the Site is vacant. The Site has been historically utilized for agricultural purposes. The Southern Portion of the Site has two single family residential structures, a former stable building, a round concrete storage building and a swimming pool.

Preliminary Endangerment Assessment (PEA) (2005):

Thirteen (13) soil samples for metals (from the past use of pesticides)

Thirty five (35) soil samples for lead (from the past use of lead based paint)

Fourteen (14) soil samples for organo chloro pesticides (from the past use of pesticides)

Total Eight (8) samples for Total Petroleum Hydrocarbons (TPHs), Volatile Organic Compounds (VOCs) and Polyaromatic Hydrocarbons (PAHs) (from the onsite septic systems and oil sprays)

Supplemental Site Investigation (SSI) (2006):

Forty Five (45) step out soil samples around the structures for lead Three Hundred Ninety One (391) step out soil samples for Arsenic

DΒ Elevation Site Map Key Number of Direction/ Records Distance mi

Major Findings

Elevated Levels of Arsenic and Lead Present at the Site

A Draft Removal Action Plan (RAW) was reviewed with extended public comment period. Based on the RAW the the contamination that is on the small portion of the site, will be cleaned under DTSC oversight and Site will be safe for the County to construct. The school will be construuted after the contamination is removed from the site.

DTSC briefed Board Members of the School District on July 2, 2007.

Public comment period is exteneded to August 2007 and a public meeting was held on August 21, 2007.

DTSC approved the RAW on October 25, 2007.

The contaminated soil is removed in February 2008. DTSC reviewed and approved the Removal Action Completion Report and closed out the Site in August 2008.

Facility Information

SCHOOL CLEANUP Program Type:

CERTIFIED Status:

Summary Link: http://www.envirostor.dtsc.ca.gov/public/profile_report.asp?qlobal_id=36880003

Completed Activities

Doc Link: http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=36880003&enforce

ment id=6012435

Area Name:

Sub Area:

Document Type: Certification Date Completed: 7/11/2008

Comments:

Activity Type: Completed Activities

Doc Link: http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=36880003&doc_id

=6017532

Area Name: Sub Area:

Removal Action Completion Report **Document Type:**

5/15/2008 Date Completed:

Accepted as Final. Comments: Completed Activities Activity Type:

Doc Link: http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=36880003&enforce

ment_id=6010583

Area Name:

Sub Area:

Document Type: CEQA - Notice of Exemption

Date Completed: 10/31/2007

Comments: DTSC filed Notice of Exemption pursuant to California Environmental Quality Act.

Activity Type: Completed Activities

Doc Link: http://www.envirostor.dtsc.ca.gov/public/final documents2.asp?global id=36880003&doc id

=6014001

Area Name: Sub Area:

Removal Action Workplan **Document Type:**

Date Completed: 10/25/2007

DTSC concurred with the adequacy of the Draft RAW pending public comments. Comments:

Activity Type: Completed Activities

Doc Link: http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=36880003&enforce

Number of Direction/ Elevation Site DB Map Key

Records Distance mi

Area Name:

Sub Area: School Cleanup Agreement Document Type:

4/6/2007 Date Completed:

Comments: Signed Agreement sent overnight mail to District.

ment_id=6010769

Activity Type: Completed Activities

Doc Link: http://www.envirostor.dtsc.ca.gov/public/final documents2.asp?global id=36880003&doc id

=6015205

Area Name:

Sub Area:

Document Type: 4.15 Request Date Completed: 4/5/2007

DTSC approved based on the furure draft RAW Approval Comments:

Activity Type: Completed Activities

Doc Link: http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=36880003&doc_id

=6010839

Area Name:

Sub Area:

Document Type: Supplemental Site Investigation Report

Date Completed: 9/8/2006

Comments: DTSC issued Further Action determination based on a Supplemental Site Investigation

Report. A removal action for Arsenic and Lead is required.

Activity Type: Completed Activities

Doc Link: http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=36880003&doc_id

=6008961

Area Name:

Sub Area:

Supplemental Site Investigation Workplan **Document Type:**

3/20/2006 Date Completed: Approved for SSI Comments:

Completed Activities Activity Type:

Doc Link: http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=36880003&doc_id

=6007676

Area Name:

Sub Area:

Document Type: Preliminary Endangerment Assessment Report

10/26/2005 Date Completed:

Completed with SSI/RAW for Arsenic/Lead Comments:

Activity Type: Completed Activities

Doc Link: Area Name: Sub Area:

Site Inspections/Visit (Non LUR) **Document Type:**

Date Completed: 5/27/2005

Comments:

Activity Type: Completed Activities

Doc Link: Area Name:

Sub Area:

Document Type: Site Inspections/Visit (Non LUR)

Date Completed: 5/23/2005

Comments:

Completed Activities Activity Type:

Map Key Number of Direction/ Elevation Site DB Records Distance mi ft

Doc Link: http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=36880003&doc_id

=6005101

Area Name: Sub Area:

Document Type: Preliminary Endangerment Assessment Workplan

Date Completed: 5/12/2005

Comments:

Activity Type: Completed Activities

Doc Link: http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=36880003&enforce

ment_id=6005097

Area Name:

Sub Area:

Document Type: Environmental Oversight Agreement

Date Completed: 3/7/2005

Comments: DTSC entered into an Environmental Oversight Agreement (Docket Number HSA-A 04/05-

133) with the San Bernardino County Superintendent of Schools to provide oversight for a

Preliminary Endangerment Assessment for the proposed Chino Early Education Center.

Activity Type: Completed Activities

Unplottable Summary

Total: 0 Unplottable sites

DB Company Name/Site Address City

Zip

Order No: 20160720091

ERIS ID

Unplottable Report

Appendix: Database Descriptions

Ecolog Environmental Risk Information Services Ltd (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ERIS updates databases as set out in ASTM Standard E1527-13, Section 8.1.8 Sources of Standard Source Information:

"Government information from nongovernmental sources may be considered current if the source updates the information at least every 90 days, or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public."

Standard Environmental Record Sources

Federal

NPL NPL

National Priorities List (Superfund)-NPL: EPA's (United States Environmental Protection Agency) list of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. The NPL, which EPA is required to update at least once a year, is based primarily on the score a site receives from EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action.

Government Publication Date: Feb 11, 2016

National Priority List - Proposed:

PROPOSED NPL

Includes sites proposed (by the EPA, the state, or concerned citizens) for addition to the NPL due to contamination by hazardous waste and identified by the Environmental Protection Agency (EPA) as a candidate for cleanup because it poses a risk to human health and/or the environment.

Government Publication Date: Feb 11, 2016

Deleted NPL:

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Government Publication Date: Feb 11, 2016

SEMS List 8R Active Site Inventory:

SEMS

The Superfund Program has deployed the Superfund Enterprise Management System (SEMS), which integrates multiple legacy systems into a comprehensive tracking and reporting tool. This inventory contains active sites evaluated by the Superfund program that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted.

Government Publication Date: Mar 07, 2016

SEMS List 8R Archive Sites:

SEMS ARCHIVE

Order No: 20160720091

The Superfund Enterprise Management System (SEMS) Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time.

<u>Comprehensive Environmental Response, Compensation and Liability Information System - CERCLIS:</u>

CERCLIS

Superfund is a program administered by the United States Environmental Protection Agency (EPA) to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The EPA administers the Superfund program in cooperation with individual states and tribal governments; this database is made available by the EPA.

Government Publication Date: Oct 25, 2013

CERCLIS - No Further Remedial Action Planned:

CERCLIS NFRAP

An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. The Archive designation means that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Government Publication Date: Oct 25, 2013

<u>CERCLIS Liens:</u> CERCLIS LIENS

A Federal Superfund lien exists at any property where EPA has incurred Superfund costs to address contamination ("Superfund site") and has provided notice of liability to the property owner. A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Jan 30, 2014

RCRA CORRACTS-Corrective Action:

RCRA CORRACTS

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

Government Publication Date: Mar 14, 2016

RCRA non-CORRACTS TSD Facilities:

RCRA TSD

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. This database includes Non-Corrective Action sites listed as treatment, storage and/or disposal facilities of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Government Publication Date: Mar 14, 2016

RCRA Generator List:

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste.

Government Publication Date: Mar 14, 2016

RCRA Small Quantity Generators List:

RCRA SQG

RCRA Info is the EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.

Government Publication Date: Mar 14, 2016

RCRA Conditionally Exempt Small Quantity Generators List:

RCRA CESQG

RCRA NON GEN

RCRA Info is the EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Conditionally Exempt Small Quantity Generators (CESQG) generate 100 kilograms or less per month of hazardous waste or one kilogram or less per month of acutely hazardous waste.

Government Publication Date: Mar 14, 2016

RCRA Non-Generators:

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste. *Government Publication Date: Mar 14, 2016*

Federal Engineering Controls-ECs:

FED ENG

Engineering controls (ECs) encompass a variety of engineered and constructed physical barriers (e.g., soil capping, subsurface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Jul 30, 2014

Federal Institutional Controls- ICs:

FED INST

Institutional controls are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is EPA's (United States Environmental Protection Agency) expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable, ICs play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site.

Government Publication Date: Jul 30, 2014

Emergency Response Notification System:

ERNS 1982 TO 1986

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1982-1986

Emergency Response Notification System:

ERNS 1987 TO 1989

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1987-1989

Emergency Response Notification System:

ERNS

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Oct 7, 2015

The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database:

FED BROWNFIELDS

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Apr 05, 2016

State

State Response Sites:

A list of identified confirmed release sites where the Department of Toxic Substances Control (DTSC) is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk. This database is state equivalent NPL.

Government Publication Date: Jun 30, 2016

EnviroStor Database: ENVIROSTOR

The EnviroStor Data Management System is made available by the Department of Toxic Substances Control (DTSC). Includes Corrective Action sites, Tiered Permit sites, Historical Sites and Evaluation/Investigation sites. This database is state equivalent CERCLIS.

Government Publication Date: Apr 28, 2016

Solid Waste Information System (SWIS):

SWF/LF

The Solid Waste Information System (SWIS) database made available by the Department of Resources Recycling and Recovery (CalRecycle) contains information on solid waste facilities, operations, and disposal sites throughout the State of California. The types of facilities found in this database include landfills, transfer stations, material recovery facilities, composting sites, transformation facilities, waste tire sites, and closed disposal sites.

Government Publication Date: Apr 28, 2016

EnviroStor Hazardous Waste Facilities:

HWP

A list of hazardous waste facilities including permitted, post-closure and historical facilities found in the Department of Toxic Substances Control (DTSC) EnviroStor database.

Government Publication Date: Apr 21, 2016

<u>Land Disposal Sites:</u>

Land Disposal Sites in GeoTracker, the State Water Resources Control Board (SWRCB)'s data management system. The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units. Waste management units include waste piles, surface impoundments, and landfills.

Government Publication Date: Apr 25, 2016

Leaking Underground Fuel Tank Reports:

LUS

List of Leaking Underground Storage Tanks within the Cleanup Sites data in GeoTracker database. GeoTracker is the State Water Resources Control Board's (SWRCB) data management system for managing sites that impact groundwater, especially those that require groundwater cleanup (Underground Storage Tanks, Department of Defense and Site Cleanup Program) as well as permitted facilities such as operating Underground Storage Tanks. The Leak Prevention Program that overlooks LUST sites is the SWRCB in California's Environmental Protection Agency.

Delisted Leaking Storage Tanks:

DLST

This database contains a list of leaking storage tank sites that were removed from the GeoTracker is the State Water Resources Control Board's (SWRCB) data management system.

Government Publication Date: Jun 06, 2016

Permitted Underground Storage Tank (UST) in GeoTracker:

UST

List of Permitted Underground Storage Tank (UST) sites made available by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency (EPA).

Government Publication Date: Mar 28, 2016

Aboveground Storage Tanks:

AST

A statewide list from 2009 of aboveground storage tanks (ASTs) made available by the Cal FIRE Office of the State Fire Marshal (OSFM). This list is no longer maintained or updated by the Cal FIRE OSFM.

Government Publication Date: Aug 31, 2009

Delisted Storage Tanks:

DELISTED TNK

This database contains a list of storage tank sites that were removed by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency (EPA) and the Cal FIRE Office of State Fire Marshal (OSFM). Government Publication Date: Mar 28, 2016

Proposed Closure of Underground Storage Tank Cases:

UST CLOSURE

List of UST cases that are being considered for closure by either the California Environmental Protection Agency, State Water Resources Control Board or the Executive Director that have been posted for a 60-day public comment period. Government Publication Date: Feb 26, 2016

Historical Hazardous Substance Storage Information Database:

HHSS

The Historical Hazardous Substance Storage database contains information collected in the 1980s from facilities that stored hazardous substances. The information was originally collected on paper forms, was later transferred to microfiche, and recently indexed as a searchable database. When using this database, please be aware that it is based upon self-reported information submitted by facilities which has not been independently verified. It is unlikely that every facility responded to the survey and the database should not be expected to be a complete inventory of all facilities that were operating at that time. This database is maintained by the California State Water Resources Control Board's (SWRCB) Geotracker.

Government Publication Date: Aug 27, 2015

<u>Site Mitigation and Brownfields Reuse Program Facility Sites with Land Use</u> Restrictions:

LUR

The Department of Toxic Substances Control (DTSC) Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents land use restrictions that are active. Some sites have multiple land use restrictions.

Government Publication Date: Mar 4, 2016

<u>Hazardous Waste Management Program Facility Sites with Deed / Land Use</u> Restrictions:

HLUR

The Department of Toxic Substances Control (DTSC) Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Government Publication Date: Mar 29, 2016

Deed Restrictions and Land Use Restrictions:

DEED

List of Deed Restrictions, Land Use Restrictions and Covenants in GeoTracker made available by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency. A deed restriction (land use covenant) may be required to facilitate the remediation of past environmental contamination and to protect human health and the environment by reducing the risk of exposure to residual hazardous materials.

Government Publication Date: Mar 29, 2016

Voluntary Cleanup Program:

VCP

List of sites in the Voluntary Cleanup Program made available by the Department of Toxic Substances and Control (DTSC). The Voluntary Cleanup Program was designed to respond to lower priority sites. Under the Voluntary Cleanup Program, DTSC enters site-specific agreements with project proponents for DTSC oversight of site assessment, investigation, and/or removal or remediation activities, and the project proponents agree to pay DTSC's reasonable costs for those services.

Government Publication Date: Apr 7, 2016

GeoTracker Cleanup Sites Data:

CLEANUP SITES

A list of cleanup sites in the state of California made available by The State Water Resources Control Board (SWRCB) of the California Environmental Protection Agency (EPA). SWRCB tracks leaking underground storage tank cleanups as well as other water board cleanups.

Government Publication Date: Jun 06, 2016

Tribal

Leaking Underground Storage Tanks (LUSTs) on Indian Lands:

INDIAN LUST

LUSTs on Tribal/Indian Lands in Region 9, which includes California.

Government Publication Date: Jan 31, 2016

<u>Underground Storage Tanks (USTs) on Indian Lands:</u>

INDIAN UST

USTs on Tribal/Indian Lands in Region 9, which includes California.

Government Publication Date: Jan 31, 2016

Delisted Tribal Leaking Storage Tanks:

DELISTED ILST

Underground Storage Tank facilities which have been removed from the Regional Tribal UST lists made available by the EPA.

Government Publication Date: Jan 31, 2016

Delisted Tribal Underground Storage Tanks:

DELISTED IUST

Underground Storage Tank facilities which have been removed from the Regional Tribal UST lists made available by the EPA.

Government Publication Date: Jan 31, 2016

County

Alameda County LOP Sites List:

ALAMEDA LOP

Order No: 20160720091

A list of Leaking Underground Storage Tanks (LUST) facilities in Alameda County. This list is made available by Alameda County Department of Environmental Health (ACEH). ACEH implements a Local Oversight Program (LOP) under contract with the State Water Resources Control Board to provide regulatory oversight of the investigation and cleanup of soil and groundwater contamination from leaking petroleum USTs.

Government Publication Date: Apr 6, 2016

Alameda County UST List:

ALAMEDA UST

A list of all registered Underground Storage Tanks (USTs) in the County of Alameda. The list is made available by Alameda County Department of Environmental Health.

Government Publication Date: Apr 6, 2016

Amador County CUPA List:

AMADOR CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Amador County. This list is made available by Amador County Environmental Health Department which is the CUPA for Amador County and administers a consolidated hazardous materials program.

Government Publication Date: Mar 21, 2016

Butte County CUPA List:

BUTTE CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Butte County. This list is made available by Butte County Public Health Department, Environmental Health Division which was certified by the California Environmental Protection Agency as the CUPA for Butte County.

Government Publication Date: Mar 22, 2016

Calaveras County CUPA Facilities List:

CALAVERAS CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in the County of Calaveras. This list is made available by Calaveras County Environmental Health Department which has been certified by CalEPA to implement the Unified program as a CUPA.

Government Publication Date: Mar 15, 2016

Calaveras County Landfills List:

CALAVERAS LF

A list of landfills in Calaveras County. This list is made available by Calaveras County Environmental Health Department which has been designated as the CUPA for the County.

Government Publication Date: Mar 15, 2016

Calaveras County UST Remediation Sites:

CALAVERAS LUST

A list of Leaking Underground Storage Tank (LUST) facilities in Calaveras County. This list is made available by Calaveras County Environmental Health Department. Local Implementing Agency (LIA) provides oversight of site remediation with soil contamination while CalEPA - California Regional Water Quality Control Board - Central Valley Region oversees remediation of sites with groundwater contamination.

Government Publication Date: Mar 15, 2016

Colusa County CUPA List:

COLUSA CUPA

A list of facilities associated with Business Plan and Hazardous Generator programs in the County of Colusa. This list is made available by Colusa County Environmental Health which was certified by the California Environmental Protection Agency as Certified Unified Program Agency for Colusa County.

Government Publication Date: Jan 26, 2016

Contra Costa County CUPA List:

CONTRACO CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in the County of Contra Costa. This list is made available by Contra Costa County which has been certified by CalEPA to implement the Unified program as a CUPA.

Government Publication Date: Apr 27, 2016

Del Norte County CUPA Facility List:

DELNORTE CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Del Norte County. This list is made available by Del Norte County Environmental Health Division which is the designated CUPA for the county. *Government Publication Date: Jan 22, 2016*

El Dorado County CUPA Facility List:

ELDORADO CUPA

Order No: 20160720091

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in El Dorado County. This list is made available by El Dorado County Department of Environmental Management - Hazardous Waste Division which is approved by CalEPA as CUPA for El Dorado County.

Government Publication Date: May 24, 2016

Fresno County CUPA/Solid Waste Programs Resource List:

FRESNO CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Fresno County. This list is made available by Fresno County Department of Environmental Health Division which is approved by Cal-EPA as CUPA for the County.

Government Publication Date: Apr 04, 2016

Humboldt County CUPA Facility List:

HUMBOLDT CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Humboldt County. This list is made available by Humboldt County Division of Environmental Health which is approved by the State Secretary for Environmental Protection as CUPA for the County.

Government Publication Date: May 11, 2016

Imperial County CUPA Facility List:

IMPERIAL CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Imperial County. This list is made available by the California Department of Toxic Substances Control (DTSC) which is appointed as CUPA for Imperial County.

Government Publication Date: Apr 28, 2016

Inyo County CUPA Facility List:

INYO CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in the County of Inyo. This list is made available by the Inyo County Environmental Health Services Department which has been certified by CalEPA to implement the Unified program as a CUPA.

Government Publication Date: Apr 06, 2016

Kern County CUPA List:

KERN CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in the County of Kern. This list is made available by Kern County Environmental Health Services Department which has been certified by CalEPA to implement the Unified program as a CUPA for Kern County.

Government Publication Date: May 20, 2016

Kern County UST List:

KERN UST

A list of all registered and inactive Underground Storage Tanks in the County of Kern. The list is made available by Kern County Environmental Health Division.

Government Publication Date: May 17, 2016

Kings County CUPA Facility List:

KINGS CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Kings County. This list is made available by Kings County Department of Public Health which is appointed as CUPA for the county.

Government Publication Date: Apr 30, 2016

Lake County CUPA Facility List:

LAKE CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Lake County. This list is made available by Lake County Division of Environmental Health which is CUPA for the entire county.

Government Publication Date: Apr 28, 2016

Los Angeles County - El Segundo City Underground Storage Tanks List:

ELSEGUNDO UST

A list of all registered Underground Storage Tanks (USTs) in the City of El Segundo of Los Angeles County. The list is made available by El Segundo City Fire Department.

Government Publication Date: Mar 11, 2016

Los Angeles County - Torrance City Underground Storage Tanks:

TORRANCE UST

Order No: 20160720091

A list of registered Underground Storage Tank (UST) sites in Torrance City of Los Angeles County. This list is made available by Torrance City Office of Clerk.

Government Publication Date: Mar 29, 2016

Los Angeles County HMS List:

LA HMS

This list contains sites that have or had permits for Industrial Waste, Underground Storage Tanks, or Storm water in the County of Los Angeles. This list is made available by the County of Los Angeles Department of Public Works.

Government Publication Date: May 17, 2016

Los Angeles County Long Beach UST List:

LA LONGB UST

A list of all registered active Underground Storage Tanks in the City of Long Beach of Los Angeles County. The list is made available by Long Beach Certified Unified Program Agency.

Government Publication Date: Jan 6, 2016

Los Angeles County Solid Waste Sites:

LA SWF

List of permitted solid waste facilities, closed landfills, historical dumpsites and other solid waste sites in Los Angeles County, made available by the Department of Public Works in Los Angeles County.

Government Publication Date: Apr 20, 2016

Madera County CUPA Facility List:

MADERA CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Madera County. This list is made available by Madera County Environmental Health Department which is CUPA for the entire county.

Government Publication Date: Jun 16, 2016

Marin County CUPA List:

MARIN CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in the County of Marin. This list is made available by Marin County which has been certified by CalEPA to implement the Unified program as a CUPA. *Government Publication Date: Apr 22, 2016*

Merced County CUPA Facilities List:

MERCED CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in the County of Merced. This list is made available by Merced County which has been certified by CalEPA to implement the Unified program as a CUPA for the entire county.

Government Publication Date: Apr 19, 2016

Mono County CUPA Facility List:

MONO CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Mono County. This list is made available by Mono County Environmental Health Department which has been certified by CalEPA to implement the Unified program as a CUPA for the entire county.

Government Publication Date: Apr 7, 2016

Monterey County CUPA Facility List:

MONTEREY CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Monterey County. This list is made available by Monterey County Hazardous Materials Management Services which is designated as the CUPA in Monterey County.

Government Publication Date: Feb 25m 2016

Napa County UST List:

NAPA UST

A list of all registered active Underground Storage Tanks (USTs) in the County of Napa. This list is made available by Napa County Environmental Health Division.

Government Publication Date: Mar 09, 2016

Nevada County CUPA Facility List:

NEVADA CUPA

Order No: 20160720091

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Nevada County. This list is made available by Nevada County Department of Environmental Health which is the CUPA for all cities and unincorporated areas within Nevada County.

Government Publication Date: Apr 18, 2016

Orange County Aboveground Petroleum Storage Tank Listing:

ORANGE AST

A list of Aboveground Petroleum Storage Tank (APST) facilities inspected by Orange County Certified Unified Program Agency (CUPA) Under the Aboveground Petroleum Storage Act (APSA). This list is made available by the Environmental Health Division of Orange County Health Care Agency.

Government Publication Date: Apr 01, 2016

Orange County Underground Storage Tanks Listing:

ORANGE UST

A list of registered Underground Storage Tank (UST) sites in Orange County. This list is made available by Orange County Health Care Agency (OCHCA), Environmental Health Division which oversees the underground storage tank inspection program in most of the cities of Orange County, with the exception of Anaheim, Fullerton, and Orange.

Government Publication Date: Apr 01, 2016

Placer County CUPA Facilities List:

PLACER CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Placer County. This list is made available by Placer County Environmental Health which is designated CUPA for all areas of the county except for the City of Roseville.

Government Publication Date: Apr 19, 2016

Riverside County Local Oversight Program List:

RIVERSIDE LOP

A list of Leaking Underground Storage Tank (LUST) facilities in Riverside County. This list is made available by Riverside County Department of Environmental Health. Environmental Cleanup Program provides oversight of assessments and cleanups at properties that have been, or may have been, contaminated with hazardous substances from LUSTs or releases associated with other commercial/industrial use.

Government Publication Date: May 18, 2016

Riverside County Underground Storage Tanks List:

RIVERSIDE UST

A list of registered Underground Storage Tank (UST) sites in Riverside County. This list is made available by Riverside County Department of Environmental Health. The Hazardous Materials Management Branch (HMMB) regulates and oversees the inspections of constructions, repairs, upgrades, system operation and removal of UST systems.

Government Publication Date: Feb 17, 2016

Sacramento County Master Hazardous Materials Facility List:

SACRAMENTO HAZ

A list of Hazardous Materials Facilities in Sacramento County. This list is made available by Sacramento County Environmental Management Department which has been designated as the Certified Unified Program Agency (CUPA) for the County.

Government Publication Date: May 02, 2016

Sacramento Toxic Site Cleanup List:

SACRAMENTO TOX

Sacramento County Environmental Management Department (EMD)'s Toxic Site Cleanup List includes sites where unauthorized releases of potentially hazardous materials have occurred. The EMD's Site Assessment & Mitigation Program, also referred to as Toxic Site Cleanup Program, provides mandated regulatory oversight of the assessment and remediation of properties on which there has been a release of hazardous materials to soil and/or groundwater.

Government Publication Date: May 2, 2016

San Bernardino County CUPA List:

SANBERN CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in San Bernardino County. This list is made available by San Bernardino County Fire Department which is the CUPA for all areas of the County except the city of Victorville.

Government Publication Date: Apr 13, 2016

San Diego County Hazardous Materials Management Division Database:

SANDIEGO HAZ

Order No: 20160720091

A list of facilities with Unified Program Facility Permit in San Diego County. This list has been made available by County of San Diego Environmental Health.

Government Publication Date: Apr 20, 2016

San Diego County Site Assessment and Mitigation Investigation Sites:

SANDIEGO SAM

List of sites which have undergone a Site Assessment and Mitigation investigation. This list is made available by the County of San Diego Department of Environmental Health.

Government Publication Date: Apr 20, 2016

San Diego County Solid Waste Facility List:

SANDIEGO SWF

A list of open and closed Solid Waste Facilities in the County of San Diego. The list is made available by San Diego County Department of Environmental Health.

Government Publication Date: Feb 10, 2016

San Francisco County Aboveground Storage Tanks List:

SANFRAN AST

A list of Aboveground Storage Tanks (ASTs) facilities inspected by San Francisco Department of Public Health's (SFDPH) Hazardous Materials and Waste Program. Aboveground storage containers or tanks include oil-filled equipment (such as hydraulic systems/reservoirs and heat transfer systems) which have a petroleum storage capacity of 55 gallons or greater. *Government Publication Date: Mar 12, 2016*

San Francisco County CUPA Facilities List:

SANFRAN CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in San Francisco County. This list is made available by San Francisco County Hazardous Materials and Waste Program which is the CUPA for all areas of the County.

Government Publication Date: Mar 12, 2016

San Francisco County LOP Sites:

SANFRAN LOP

A list of Underground Storage Tank (UST) release sites in the County of San Francisco. This list is made available by San Francisco County Department of Public Health Environmental Health Protection Branch.

Government Publication Date: May 25, 2016

San Francisco County UST List:

SANFRAN UST

A list of all registered Underground Storage Tanks (USTs) in the County of San Francisco. This ist is made available by San Francisco County Environmental Health Division. The Hazardous Materials and Waste Program provides regulatory oversight for the construction, operation, repair and removal of USTs in San Francisco.

Government Publication Date: Mar 12, 2016

San Joaquin County Aboveground Tank List:

SANJOAQUIN AST

A list of Aboveground Storage Tanks (ASTs) inspected by San Joaquin County Environmental Health Department (SJCEHD) under Aboveground Petroleum Storage Act (APSA).

Government Publication Date: May 04, 2016

San Joaquin County UST List:

SANJOAQUIN UST

A list of all registered Underground Storage Tanks in the County of San Joaquin. The list is made available by San Joaquin County Environmental Health Division.

Government Publication Date: May 04, 2016

San Joaquin Hazardous Waste Facilities:

SANJOAQUIN HW

A list of Hazardous Waste Facilities in San Joaquin County. This list is made available by San Joaquin County Environmental Health Department which has been designated as the CUPA for the County.

Government Publication Date: May 04, 2016

San Mateo County CUPA Facilities List:

SANMATEO CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in San Mateo County. This list is made available by San Mateo County Environmental Health Department which has been designated as the CUPA for the County.

Government Publication Date: May 2, 2016

San Mateo County LOP List:

SANMATEO LOP

A list of Leaking Underground Storage Tank (LUST) facilities in San Mateo County. This list is made available by San Mateo County Environmental Health Services Division.

Government Publication Date: May 10, 2016

Santa Clara County CUPA Facilities List:

SANTACLARA CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Santa Clara County. This list is made available by Santa Clara County Department of Environmental health (DEH). DEH's Hazardous Materials Compliance Division (HMCD) is CUPA for the county with jurisdiction within the Cities of Los Altos Hills, Monte Sereno, and Saratoga; and in all unincorporated areas of Santa Clara County, including Moffett Field, San Martin, and Stanford. *Government Publication Date: Mar 3, 2016*

Santa Clara Local Oversight Program Listing:

SANTACLARA LO

A list of Leaking Underground Storage Tanks (LUST) facilities in Santa Clara County Provided by Santa Clara Department of Environmental Health (DEH). Since July 1, 2004 the DEH has served as the oversight agency for investigations and clean-up of petroleum releases from underground storage tanks through implementation of the Local Oversight Program (LOP) contract with the State Water Resources Control Board.

Government Publication Date: Apr 20, 2016

Santa Cruz County CUPA Facility List:

SANTACRUZ CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Santa Cruz County. This list is made available by Santa Cruz County Environmental Health Services (EHS) Division which has been designated as the CUPA for the County.

Government Publication Date: Apr 20, 2016

San Luis Obispo County CUPA Facilities List:

SANLUISOB CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in San Luis Obispo County. This list is made available by County of San Luis Obispo Environmental Health Services Division which has been designated as the CUPA for the County.

Government Publication Date: Apr 21, 2016

Shasta County CUPA Facility List:

SHASTA CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Shasta County. This list is made available by Shasta County Environmental Health Division which has been designated as the CUPA for Shasta County by CalEPA.

Government Publication Date: May 19, 2016

Solano County CUPA List:

SOLANO CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in the County of Solano. This list is made available by Solano County Environmental Health Division which has been certified by CalEPA to implement the Unified program as a CUPA.

Government Publication Date: Apr 28, 2016

Solano County Local Oversight Program List:

SOLANO LOP

A list of Leaking Underground Storage Tank (LUST) facilities in the Solano County. This list is made available by the Solano County Environmental Health Services. Since April 1993, the State Water Resources Control Board has contracted with the County of Solano to provide regulatory oversight for the cleanup of LUSTs under Local Oversight Program (LOP) contract.

Government Publication Date: Apr 28, 2016

Solano County Underground Storage Tanks List:

SOLANO UST

A list of all registered Underground Storage Tanks (USTs) in the County of Solano. The list is made available by Solano County Environmental Health Services Division. There are an estimated 190 facilities throughout the county that are subject to the regulatory requirements of the UST program.

Government Publication Date: Apr 28, 2016

Sonoma County CUPA Facilities List:

SONOMA CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Sonoma County. This list is made available by Sonoma County Hazardous Materials (HazMat) Division which has been designated as the CUPA for the County.

Government Publication Date: Apr 05, 2016

Sonoma County LOP Site List:

SONOMA LOP

A list of Leaking Underground Storage Tank (LUST) facilities in Sonoma County. This list is made available by Sonoma County Department of Health Services. Sonoma County Local Oversight Program (LOP) oversees the investigation and cleanup of fuel releases from underground storage tanks in all areas of the County with the exception of the Cities of Santa Rosa and Healdsburg.

Government Publication Date: Apr 01, 2016

Sonoma County Petaluma City CUPA Facilities:

SONOMA PETAL

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Petaluma City. This list is made available by Petaluma Fire Prevention Bureau which is the CUPA for Petaluma City in Sonoma County.

Government Publication Date: Feb 18, 2016

Sutter County CUPA List:

SUTTER CUPA

A list of facilities associated with Aboveground Petroleum Storage Tank (APSA) regulation, Hazardous Materials Business Plan (HMBP) Program and Underground Storage Tank (UST) regulation of Certified Unified Program Agency (CUPA) programs in Sutter County. This list is made available by Sutter County Enviornmental Health Division which has been designated as the CUPA for the County.

Government Publication Date: Apr 20, 2016

Tuolumne County CUPA Facility List:

TUOLUMNE CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Tuolumne County. This list is made available by Tuolumne County Environmental Health which is the CUPA for all areas of the County.

Government Publication Date: May 2, 2016

Ventura County CUPA Facilities List:

VENTURA CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Ventura County. This list is made available by Ventura County Environmental health Division.

Government Publication Date: Mar 28, 2016

Ventura County City of Oxnard CUPA Facility List:

OXNARD CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Oxnard City. This list is made available by Oxnard City Fire Department which is the CUPA for Oxnard City in Ventura County.

Government Publication Date: May 04, 2016

Ventura County Inactive Underground Storage Tanks Sites:

VENTURA INUST

A list of inactive Underground Storage Tank (UST) sites in Ventura County. This list is made available by Ventura County Environmental Health Division.

Government Publication Date: Apr 20, 2016

Ventura County Leaking Underground Fuel Tanks - Historic:

VENTURA HLUFT

Order No: 20160720091

A historical list of cleanup oversight of the Leaking Underground Fuel Tank (LUFT) program provided by Ventura County Environmental Health Division. All new and existing underground fuel storage tank releases are now referred to the Los Angeles Regional Water Quality Control Board.

Government Publication Date: May 31, 2008

Yolo County UST List:

YOLO UST

A list of registered Underground Storage Tank (UST) sites in Yolo County. This list is made available by Yolo County Environmental Health Department which regulates the construction, operation, repair and removal of USTs throughout Yolo County.

Government Publication Date: Apr 20, 2016

Yuba County CUPA Facilities List:

YUBA CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Yuba County. This list is made available by Yuba County Environmental Health Division which is the CUPA for all areas of the County.

Government Publication Date: May 20, 2016

City of Bakersfield CUPA List:

BKRSFIELD CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in the City of Bakersfield. This list is made available by the City of Bakersfield Fire Department.

Government Publication Date: Mar 07, 2016

Gilroy City CUPA Facilities List:

SANTACLARA GIL

The Gilroy City Fire Marshal's office maintains a list of CUPA Facilities located in Gilroy City.

Government Publication Date: Apr 26, 2016

Alpine County CUPA List:

ALPINE CUPA

The Alpine County Health Department has been certified by Cal / EPA to implement the Unified program and maintains a list of Certified Unified Program Agency (CUPA) facilities.

Government Publication Date: Feb 24, 2015

Glenn County CUPA List:

GLENN CUPA

The Glenn County Air Pollution Control District is the Administering Agency and the Certified Unified Program Agency (CUPA) for Glenn County with responsibility for regulating hazardous materials handlers, hazardous waste generators, underground storage tank facilities, above ground storage tanks, and stationary sources handling regulated substances. *Government Publication Date: May 02, 2016*

Lassen County CUPA List:

LASSEN CUPA

The Environmental Health Program of Lassen County tracks Certified Unified Program Agencies (CUPA) facilities.

Government Publication Date: May 9, 2016

Mariposa County CUPA List:

MARIPOSA CUPA

Mariposa County Health Department, Environmental Health Services, is certified by Cal-EPA as the Certified Unified Program Agency (CUPA) that administers specific hazardous materials/hazardous waste programs.

Government Publication Date: Apr 8, 2016

Plumas County CUPA List:

PLUMAS CUPA

In Plumas County, the Environmental Health Department is the designated Certified Unified Program Agency (CUPA) that consolidates and coordinates administrative activities such as permits, inspections, and enforcement. CUPA Programs include Hazardous Materials Business Plan (HMBP), Underground Storage Tanks (USTs), Above Ground Storage Tanks (AGTs), Hazardous Waste Generators (HWG) and CAL-ARP.

Government Publication Date: Apr 14, 2016

Siskiyou County CUPA List:

SISKIYOU CUPA

The Hazardous Materials Management Group of Siskiyou County's Environmental Health Division Certified Unified Program Agency (CUPA) regulates underground tanks, hazardous materials (including but not limited to: hazardous substances, hazardous waste, and any material which a handler or the CUPA has reasonable basis for believing that it would be injurious to the health and safety of persons or harmful to the environment if released into the workplace or the environment.

Government Publication Date: May 18, 2016

Stanislaus County CUPA List:

STANISLAUS CUPA

Order No: 20160720091

The Environmental Resources Department of Stanislaus County maintains a list of Certified Unified Program Agency (CUPA) facilities.

Government Publication Date: May 10, 2016

Trinity County CUPA List:

On January 1, 2005, the Department of Toxic Substances Control (DTSC) was authorized by the California Environmental Protection Agency (Cal/EPA) as the Trinity County Certified Unified Program Agency (CUPA). This CUPA list was made available by the DTSC.

Government Publication Date: Apr 15, 2016

Tulare County CUPA List:

TULARE CUPA

The Certified Unified Program Agency (CUPA) unifies and consolidates under one roof the various requirements for businesses handling hazardous materials, generating or treating hazardous wastes, or operating aboveground or underground storage tanks. CUPA thereby enhances consistency, reduces duplication, and simplifies compliance for the regulated public. The Tulare County Environmental Health Division was certified as a CUPA in December, 1996. *Government Publication Date: Jul 07*, 2016

Additional Environmental Record Sources

Federal

Facility Registry Service/Facility Index:

FINDS/FRS

The US Environmental Protection Agency (EPA)'s Facility Registry System (FRS) is a centrally managed database that identifies facilities, sites or places subject to environmental regulations or of environmental interest. FRS creates high-quality, accurate, and authoritative facility identification records through rigorous verification and management procedures that incorporate information from program national systems, state master facility records, data collected from EPA's Central Data Exchange registrations and data management personnel.

Government Publication Date: Mar 9, 2016

Toxics Release Inventory (TRI) Program:

TRIS

The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment.

Government Publication Date: Dec 31, 2014

Hazardous Materials Information Reporting System:

HMIRS

US DOT - Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) Incidents Reports Database taken from Hazmat Intelligence Portal, U.S. Department of Transportation.

Government Publication Date: May 10, 2016

National Clandestine Drug Labs:

NCDL

The U.S. Department of Justice ("the Department") provides this data as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy.

Government Publication Date: May 17, 2016

Inventory of Open Dumps, June 1985:

OD

Order No: 20160720091

The Resource Conservation and Recovery Act (RCRA of the Act) provides for publication of an inventory of open dumps. The Act defines "open dumps" as facilities which do not comply with EPA's "Criteria for Classification of Solid Waste Disposal Facilities and Practices" (40 CFR 257).

Government Publication Date: Jun 1985

EPA Report on the Status of Open Dumps on Indian Lands:

IODI

Public Law 103-399, The Indian Lands Open Dump Cleanup Act of 1994, enacted October 22, 1994, identified ongressional concerns that solid waste open dump sites located on American Indian or Alaska Native (Al/AN) lands threaten the health and safety of residents of those lands and contiguous areas. The purpose of the Act is to identify the location of open dumps on Indian lands, assess the relative health and environment hazards posed by those sites, and provide financial and technical assistance to Indian tribal governments to close such dumps in compliance with Federal standards and regulations or standards promulgated by Indian Tribal governments or Alaska Native entities.

Government Publication Date: Dec 31, 1998

Toxic Substances Control Act:

TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The CDR enables EPA to collect and publish information on the manufacturing, processing, and use of commercial chemical substances and mixtures (referred to hereafter as chemical substances) on the TSCA Chemical Substance Inventory (TSCA Inventory). This includes current information on chemical substance production volumes, manufacturing sites, and how the chemical substances are used. This information helps the Agency determine whether people or the environment are potentially exposed to reported chemical substances. EPA publishes submitted CDR data that is not Confidential Business Information (CBI).

Government Publication Date: Jun 30, 2014

<u>HIST TSCA:</u>

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The 2006 IUR data summary report includes information about chemicals manufactured or imported in quantities of 25,000 pounds or more at a single site during calendar year 2005. In addition to the basic manufacturing information collected in previous reporting cycles, the 2006 cycle is the first time EPA collected information to characterize exposure during manufacturing, processing and use of organic chemicals. The 2006 cycle also is the first time manufacturers of inorganic chemicals were required to report basic manufacturing information.

Government Publication Date: 2006

FTTS Administrative Case Listing:

FTTS ADMIN

An administrative case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

FTTS Inspection Case Listing:

FTTS INSP

An inspection case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

Potentially Responsible Parties List:

PRP

Order No: 20160720091

Early in the cleanup process, the Environmental Protection Agency (EPA) conducts a search to find the potentially responsible parties (PRPs). EPA looks for evidence to determine liability by matching wastes found at the site with parties that may have contributed wastes to the site.

Government Publication Date: Nov 12, 2013

State Coalition for Remediation of Drycleaners Listing:

SCRD DRYCLEANER

The State Coalition for Remediation of Drycleaners (SCRD) was established in 1998, with support from the U.S. Environmental Protection Agency (EPA) Office of Superfund Remediation and Technology Innovation. It is comprised of states with established drycleaner remediation programs. Coalition members are states with mandated programs and funding for drycleaner site remediation. Coalition members are states with mandated programs and funding for drycleaner site remediation. Current members are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Government Publication Date: May 09, 2016

Integrated Compliance Information System (ICIS):

ICIS

The Integrated Compliance Information System (ICIS) is a system that provides information for the Federal Enforcement and Compliance (FE&C) and the National Pollutant Discharge Elimination System (NPDES) programs. The FE&C component supports the Environmental Protection Agency's (EPA) Civil Enforcement and Compliance program activities. These activities include Compliance Assistance, Compliance Monitoring and Enforcement. The NPDES program supports tracking of NPDES permits, limits, discharge monitoring data and other program reports.

Government Publication Date: Dec 17, 2015

Drycleaner Facilities:

FED DRYCLEANERS

A list of drycleaner facilities from the Integrated Compliance Information System (ICIS). The Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments. *Government Publication Date: May 20, 2016*

Formerly Used Defense Sites:

FUDS

Formerly Used Defense Sites (FUDS) are properties that were formerly owned by, leased to, or otherwise possessed by and under the jurisdiction of the Secretary of Defense prior to October 1986, where the Department of Defense (DoD) is responsible for an environmental restoration. This list is published by the U.S. Army Corps of Engineers.

Government Publication Date: Dec 31, 2013

Material Licensing Tracking System (MLTS):

MLTS

A list of sites that store radioactive material subject to the Nuclear Regulatory Commission (NRC) licensing requirements. This list is maintained by the NRC.

Government Publication Date: Dec 11, 2015

Historic Material Licensing Tracking System (MLTS) sites:

HIST MLTS

A historic list of sites that have inactive licenses and/or removed from the Material Licensing Tracking System (MLTS). In some cases, a site is removed from the MLTS when the state becomes an "Agreement State". An Agreement State is a State that has signed an agreement with the Nuclear Regulatory Commission (NRC) authorizing the State to regulate certain uses of radioactive materials within the State.

Government Publication Date: Jan 31, 2010

State

<u>Drycleaner Facilities:</u>

DRYCLEANERS

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial, linen supply, commercial laundry, dry cleaning and pressing machines - Coin Operated Laundry and Dry Cleaning. This is provided by the Department of Toxic Substance Control.

Government Publication Date: May 20, 2016

EnviroStor Inspection, Compliance, and Enforcement:

INSP COMP ENF

A list of permitted facilities with inspections and enforcements tracked in the Department of Toxic Substance Control (DTSC) EnviroStor.

Government Publication Date: Mar 14, 2016

Clandestine Drug Lab Sites:

CDL

The Department of Toxic Substances Control (DTSC) maintains a listing of drug lab sites. DTSC is responsible for removal and disposal of hazardous substances discovered by law enforcement officials while investigating illegal/clandestine drug laboratories.

Government Publication Date: Dec 31, 2015

School Property Evaluation Program Sites:

SCH

A list of sites registered with The Department of Toxic Substances Control (DTSC) School Property Evaluation and Cleanup (SPEC) Division. SPEC is responsible for assessing, investigating and cleaning up proposed school sites. The Division ensures that selected properties are free of contamination or, if the properties were previously contaminated, that they have been cleaned up to a level that protects the students and staff who will occupy the new school.

Government Publication Date: Apr 07, 2016

California Hazardous Material Incident Report System (CHMIRS):

CHMIRS

A list of reported hazardous material incidents, spills, and releases from the California Hazardous Material Incident Report System (CHMIRS). This list has been made available by the California Office of Emergency Services (OES).

Government Publication Date: Mar 08, 2016

Sites Listed in the Solid Waste Assessment Test (SWAT) Program Report:

SWAT

In a 1993 Memorandum of Understanding, the State Water Resources Control Board (SWRCB) agreed to submit a comprehensive report on the Solid Waste Assessment Test (SWAT) Program to the California Integrated Waste Management Board (CIWMB). This report summarizes the work completed to date on the SWAT Program, and addresses both the impacts that leakage from solid waste disposal sites (SWDS) may have upon waters of the State and the actions taken to address such leakage.

Government Publication Date: Dec 31, 1995

Hazardous Waste Manifest Data:

HAZNET

A list of hazardous waste manifests received each year by Department of Toxic Substances Control (DTSC). The volume of manifests is typically 900,000 - 1,000,000 annually, representing approximately 450,000 - 500,000 shipments.

Government Publication Date: Oct 2,2015

Cease and Desist Orders and Cleanup and Abatement Orders:

CDO/CAO

The California Environment Protection Agency "Cortese List" of active Cease and Desist Orders (CDO) and Cleanup and Abatement Orders (CAO). This list contains many CDOs and CAOs that do NOT concern the discharge of wastes that are hazardous materials. Many of the listed orders concern, as examples, discharges of domestic sewage, food processing wastes, or sediment that do not contain hazardous materials, but the Water Boards' database does not distinguish between these types of orders.

Government Publication Date: Feb 28, 2012

Historical California Hazardous Material Incident Report System (CHMIRS):

HIST CHMIRS

A list of reported hazardous material incidents, spills, and releases from the California Hazardous Material Incident Report System (CHMIRS) prior to 1993. This list has been made available by the California Office of Emergency Services (OES). *Government Publication Date: Jan 1, 1993*

Historical Hazardous Waste Manifest Data:

HIST MANIFEST

Order No: 20160720091

A list of historic hazardous waste manifests received by the Department of Toxic Substances Control (DTSC) from year the 1980 to 1992. The volume of manifests is typically 900,000 - 1,000,000 annually, representing approximately 450,000 - 500,000 shipments.

Government Publication Date: Dec 31, 1992

Tribal

No Tribal additional environmental record sources available for this State.

County

Los Angeles County Site Mitigation List:

LA SML

A Site Mitigation List in the County of Los Angeles. The list is made available by Los Angeles County Fire Department. Site mitigation is handled by the Site Mitigation Unit (SMU) which facilitates completion of site clean-up projects of contaminated sites in an expeditious manner in all cities of the Los Angeles County except El Segundo, Glendale, Long Beach, Santa Fe Springs, and Vernon.

Government Publication Date: Jun 23, 2015

Riverside County Disclosure Facility List:

RIVERSIDE HZH

A list of facilities disclosed to Riverside County Department of Environmental Health (DEH). This list is made available by Riverside County DEH which has been designated as the CUPA for the County. A business is required to establish and submit a Business Plan if the facility handles hazardous material equal to or greater than 55 gallons, 500 pounds or 200 cubic feet at any time during the year.

Government Publication Date: Feb 17, 2016

Riverside County Hazardous Waste Generator Sites List:

RIVERSIDE HWG

A list of Hazardous Waste Generator Sites in the County of Riverside. This list is made available by Riverside County Department of Environmental Health which has been designated as the CUPA for the County.

Government Publication Date: Feb 17, 2016

San Joaquin County Hazardous Materials Facilities List:

SANJOAQUIN HM

A list of Hazardous Materials Facilities in San Joaquin County. This list is made available by San Joaquin County Environmental Health Department which has been designated as the CUPA for the County.

Government Publication Date: May 04, 2016

Ventura County Hazardous Material Release (Prop 65) Sites:

VENTURA HAZR

A historic list of hazardous material releases from the Hazardous Material Release Report collected by the Environmental Health Division of Ventura County. As per the department this report contains records from 1987 to 2014.

Government Publication Date: 1987 - 2014

Ventura County Inactive Hazardous Waste Sites:

HW INACTIVE

A list of Inactive Hazardous Waste Sites in Ventura County collected by Ventura County's Environmental Health Division. *Government Publication Date: Jun 26, 2015*

Delisted County Records:

DELISTED COUNTY

Order No: 20160720091

Records removed from county or CUPA databases. Records may be removed from the county lists made available by the respective county departments because they are inactive, or because they have been deemed to be below reportable thresholds.

Government Publication Date: Jul 07, 2016

Definitions

<u>Database Descriptions:</u> This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

<u>Detail Report</u>. This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

<u>Distance:</u> The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries". All values are an approximation.

<u>Direction:</u> The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

<u>Elevation:</u> The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

<u>Map Key:</u> The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Order No: 20160720091

<u>Unplottables:</u> These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and were included as reference.



ERIS Information Inc. 266 Elmwood Avenue Box 930 Buffalo, NY 14222

Toll Free: 1-866-517-5204 Email: info@erisinfo.com

Invoice

Sold To: Tetra Tech Customer No: TETRATECH-CA3

17885 von karman ave ste 500 Invoice Number: 20160720091

 Irvine CA
 P.O. Number:
 1125388

 92614 USA
 Invoice Date:
 7/25/2016

TIN: 47-4776828

TERMS: NET 30 Days

Attn: Tomo Demers

Description/Comment	Amount
Package: Database + FIM + Aerial + CD (2 Str) + Topo + PSR	
Database Report	290.00
Aerial Photographs - Historical Aerials	0.00
Topographic Maps	0.00
City Directory Search - 2 Street Search	0.00
US Fire Insurance Maps	0.00
PSR	0.00

ERIS ORDER NO: 20160720091

SITE NAME: Borstein Phase I ESA

ADDRESS: 4570 Francis Avenue Chino CA US

Subtotal before taxes: 290.00 USD

Taxes: 0.00 Total: 290.00

Tax Total: 0.00

Amount due: 290.00 USD

Payment received: 0.00

Please print and return this email with your payment.

Billing Inquiries: Donna Carrick (416) 510-6857

dcarrick@glacierbizinfo.com

PAGE 5671 STATE WATER RESOURCES CONTROL BOARD 06/01/88 HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SAN BERNARDING COUNTY CONTAINER TYPES: 1,2,3,4,5
(1-FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS) I OWNER YONG SUK BUCKENBERGER CA 91761 2419 GARFIELD PLACE ONTARIO II FACILITY MAILING ADDRESS DEALER/FOREMAN/SUPERVISOR TYPE OF BUSINESS M & M MARKET TOWNSHIP/RANGE/SECTION TELEPHONE NO. OF CONTAINERS 4494 FRANCIS ST CA 91710 4494 FRANCIS ST GASOLINE STATION CHINO CA 91710 CHINO (714) 628-2617 2 CROSS STREET: RAMONA AVE III 24-HR, CONTACT PERSON / TELEPHONE (714) 628-2617 NIGHT: YONG S. BUCKENBERGER (714) 947-2620 DAY: YONG S. BUCKENBERGER ****** OWNER ASSIGNED CONTAINER NUMBER: 1 ****** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000052939001 ******* IV DESCRIPTION : TANK A. CONTAINER TYPE E. REPAIRS : NONE IF YES WHEN : B. MANUFACTURER/YR OF MFG: F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE: C. YEAR INSTALLED G. STORES : PRODUCT 500 H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: UNLEADED D. CAPACITY (GALLONS) IS CONTAINER LOCATED ON A FARM : NO V CONTAINER CONSTRUCTION A. THICKNESS: B. VAULTING: UNKNOWN C. WALLING: UNKNOWN D. MATERIAL : CARBON STEEL E. LINING : UNKNOWN F. WRAPPING : UNKNOWN VI PIPING A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : SUCTION C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR: VII LEAK DETECTION 0 STOCK INVENTORY COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER 12031

UNLEADED MOTOR VEHICLE FUEL

*** CO4 ***

PAGE 5672 06/01/88 STATE WATER RESOURCES CONTROL BOARD HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SAN BERNARDING COUNTY CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS) ****** OWNER ASSIGNED CONTAINER NUMBER: 2 ****** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000052939002 ******* IV DESCRIPTION E. REPAIRS A. CONTAINER TYPE : TANK : UNKN IF YES WHEN B. MANUFACTURER/YR OF MFG: F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE: C. YEAR INSTALLED : UNK G. STORES : PRODUCT H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: PREMIUM D. CAPACITY (GALLONS) IS CONTAINER LOCATED ON A FARM : NO V CONTAINER CONSTRUCTION A. THICKNESS: B. VAULTING: UNKNOWN C. WALLING: UNKNOWN D. MATERIAL : UNKNOWN E. LINING : UNKNOWN F. WRAPPING : UNKNOWN VI PIPING A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : C. REPAIRS : UNKN IF YES, YEAR OF MOST RECENT REPAIR: VII LEAK DETECTION 0 NONE COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER 12033

PREMIUM MOTOR VEHICLE FUEL

*** DO4 ***







Project Property: Borstein Phase I ESA

4570 Francis Avenue

Chino CA

Project No: 1125388

Report Type: Database Report

Order No: 20160720091

Requested by: Tetra Tech

Date Completed: July 20, 2016

Ecolog ERIS Ltd.

Environmental Risk Information

Service Ltd. (ERIS)

A division of Glacier Media Inc.

P: 1.866.517.5204 E: info@erisinfo.com

www.erisinfo.com

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Executive Summary

Property Information:

Borstein Phase I ESA **Project Property:**

4570 Francis Avenue Chino CA

Project No: 1125388

Coordinates:

Latitude: 34.041736 Longitude: -117.704227

UTM Northing: 3,767,007.18 **UTM Easting:** 434,997.39 **UTM Zone:** UTM Zone 11S

838 FT **Elevation:**

Order Information:

20160720091 Order No: July 20, 2016 **Date Requested:** Requested by: Tetra Tech **Report Type:** Database Report

Ancillary Products:

Aerial Photographs Historical Aerials 2 Street Search **City Directory Search**

Fire Insurance Maps US Fire Insurance Maps

PSR **Physical Setting Report (PSR)**

Topographic Map Topographic Maps

Executive Summary: Report Summary

Dat	abase	Searched	Search Radius	Project Property	Within 0.12mi	0.12mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
<u>Sta</u>	ndard Environmental Records			,					
Fed	deral								
	NPL	Υ	1	0	0	0	0	0	0
	PROPOSED NPL	Υ	1	0	0	0	0	0	0
	DELETED NPL	Υ	.5	0	0	0	0	·	o
	SEMS	Υ	.5	0	0	0	0	(-)	0
	SEMS ARCHIVE	Υ	.5	0	0	0	o		0
	CERCLIS	Υ	.5	0	0	0	0		0
	CERCLIS NFRAP	Υ	.5	0	0	0	0	-	0
	CERCLIS LIENS	Υ	PO	0	-		-	-	0
	RCRA CORRACTS	Υ	1	0	0	0	0	0	0
	RCRA TSD	Υ	.5	0	0	o	0	-	0
	RCRA LQG	Υ	.25	0	0	0	-	-	0
	RCRA SQG	Υ	.25	0	0	0	-	-	0
	RCRA CESQG	Υ	.25	0	0	0	-	-	0
	RCRA NON GEN	Y	.25	0	0	0	-	-	0
	FED ENG	Υ	.5	0	0	0	0	-	0
	FED INST	CY	.5	0	0	0	0	-	0
	ERNS 1982 TO 1986	Y	PO	0	-	-	-	-	0
	ERNS 1987 TO 1989	Y	PO	0	-	-	-	-	0
	ERNS	Υ	PO	0	-	-	-	-	0
	FED BROWNFIELDS	Υ	.5	0	0	0	0	-	0
	148								
Sta	te	Y	1	0	0	0	0	0	
	RESPONSE	Y	1	0	0	0	0	1	0 1
	ENVIROSTOR	Y	.5	0	0	0	0	, -	
	SWF/LF	Y	.0	0	0	0	0	0	0
	HWP	Y	.5	0	0	0	0	-	0
	LDS	Y	.5 .5	0	0	0	0	-	0
	LUST								0
	DLST	Υ	.5	0	0	0	0	-	0

Datab	ase	Searched	Search Radius	Project Property	Within 0.12mi	0.12mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
ı	UST	Y	.25	0	0	0	-	-	0
,	AST	Υ	.25	0	0	0	-	-	0
ı	DELISTED TNK	Υ	.25	0	0	0	-	-	0
ı	UST CLOSURE	Y	.25	0	0	0	-	-	0
ı	HHSS	Y	.25	0	1	0	-	-	1
ı	LUR	Y	.5	0	0	0	0	-	0
ı	HLUR	Y	.5	0	0	0	0	-	0
ı	DEED	Υ	.5	0	0	0	0	-	0
•	VCP	Υ	.5	0	0	0	0		0
(CLEANUP SITES	Υ	.5	0	0	0	0	-	0
Triba	I								
	NDIAN LUST	Υ	.5	0	0	0	0		0
	INDIAN UST	Υ	.25	0	0	0	J.K		0
	DELISTED ILST	Y	.5	0	0	0	0	-	0
	DELISTED IUST	Y	.25	0	0	0	-	-	0
	DELIGIED 1031								
Coun	ity					13			
	ALAMEDA LOP	Υ	.5	0	0	0	0	-	0
	ALAMEDA UST	Υ	.25	0	0	0	-	-	0
	AMADOR CUPA	Y	.25	0	0	0	-	-	0
	BUTTE CUPA	Y	.25	0	0	0	-	-	0
	CALAVERAS CUPA	Y	.25	0	0	0	-	-	0
	CALAVERAS LF	Y	.5	0	0	0	0	-	0
	CALAVERAS LUST	Y	.5	0	0	0	0	-	0
	COLUSA CUPA	Y	.25	0	0	0	-	-	0
	CONTRACO CUPA	Y	.25	0	0	0	-	-	0
	DELNORTE CUPA	Y	.25	0	0	0	-	-	0
	ELDORADO CUPA	Y	.25	0	0	0	-	-	0
	FRESNO CUPA	Y	.25	0	0	0	-	-	0
	HUMBOLDT CUPA	Υ	.25	0	0	0	-	-	0
	IMPERIAL CUPA	Υ	.25	0	0	0	-	-	0
	INYO CUPA	Υ	.25	0	0	0	-	-	0
	KERN CUPA	Υ	.25	0	0	0	-	-	0
	KERN UST	Υ	.25	0	0	0	-	-	0
	KINGS CUPA	Υ	.25	0	0	0	-	-	0
	LAKE CUPA	Υ	.25	0	0	0	-	-	0
	ELSEGUNDO UST	Υ	.25	0	0	0	-	-	0
	TORRANCE UST	Y	.25	0	0	0	-	-	0
	LA HMS	Y	.25	0	0	0	-	-	0
	LA LONGB UST	Y	.25	0	0	0	-	-	0
	LA SWF	Υ	.5	0	0	0	0	-	0
	- **								

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.12mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
MADERA CUPA	Υ	.25	0	0	0	-	-	0
MARIN CUPA	Υ	.25	0	0	0	-	-	0
MERCED CUPA	Υ	.25	0	0	0	-	-	0
MONO CUPA	Υ	.25	0	0	0	-	-	0
MONTEREY CUPA	Υ	.25	0	0	0	-	-	0
NAPA UST	Υ	.25	0	0	0	-	-	0
NEVADA CUPA	Υ	.25	0	0	0	-	-	0
ORANGE AST	Υ	.25	0	0	0	-	-	0
ORANGE UST	Υ	.25	0	0	0	-	-	0
PLACER CUPA	Υ	.25	0	0	0	-	-	0
RIVERSIDE LOP	Υ	.5	0	0	0	0		0
RIVERSIDE UST	Υ	.25	0	0	0	-		0
SACRAMENTO HAZ	Υ	.5	0	0	0	0	-	0
SACRAMENTO TOX	Υ	.5	0	0	0	0	-	0
SANBERN CUPA	Υ	.25	0	1	0		-	1
SANDIEGO HAZ	Υ	.25	0	0	0	-	-	0
SANDIEGO SAM	Υ	.5	0	0	0	0	-	0
SANDIEGO SWF	Υ	.5	0	0	0	0	-	0
SANFRAN AST	Υ	.25	0	0	0	-	-	0
SANFRAN CUPA	Υ	.25	0	0	0	-	-	0
SANFRAN LOP	Υ	.5	0	0	0	0	-	0
SANFRAN UST	Υ	.25	0	0	0	-	-	0
SANJOAQUIN AST	Υ	.25	0	0	0	-	-	0
SANJOAQUIN UST	Y	.25	0	0	0	-	-	0
SANJOAQUIN HW	Y	.5	0	0	0	0	-	0
SANMATEO CUPA	Y	.25	0	0	0	-	-	0
SANMATEO LOP	Y	.5	0	0	0	0	-	0
SANTACLARA CUPA	Y	.25	0	0	0	-	-	0
SANTACLARA LO	Υ	.5	0	0	0	0	-	0
SANTACRUZ CUPA	Y	.25	0	0	0	-	-	0
SANLUISOB CUPA	Y	.25	0	0	0	-	-	0
SHASTA CUPA	Υ	.25	0	0	0	-	-	0
SOLANO CUPA	Υ	.25	0	0	0	-	-	0
SOLANO LOP	Υ	.5	0	0	0	0	-	0
SOLANO UST	Υ	.25	0	0	0	-	-	0
SONOMA CUPA	Υ	.25	0	0	0	-	-	0
SONOMA LOP	Υ	.5	0	0	0	0	-	0
SONOMA PETAL	Υ	.25	0	0	0	-	-	0
SUTTER CUPA	Y	.25	0	0	0	-	-	0
TUOLUMNE CUPA	Υ	.25	0	0	0	-	-	0
VENTURA CUPA	Υ	.25	0	0	0	-	-	0

Databas	e	Searched	Search Radius	Project Property	Within 0.12mi	0.12mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
OX	(NARD CUPA	Υ	.25	0	0	0	-	-	0
VE	NTURA INUST	Υ	.25	0	0	0	-	-	0
VE	NTURA HLUFT	Y	.5	0	0	0	0	-	0
YC	DLO UST	Y	.25	0	0	0	-	-	0
YU	JBA CUPA	Y	.25	0	0	0	-	-	0
ВК	RSFIELD CUPA	Y	.25	0	0	0	-	-	0
SA	NTACLARA GIL	Υ	.25	0	0	0	-	-	0
AL	PINE CUPA	Υ	.25	0	0	0	-	-	0
GL	ENN CUPA	Y	.25	0	0	0	-		0
LA	SSEN CUPA	Y	.25	0	0	0	-	- (0
MA	ARIPOSA CUPA	Υ	.25	0	0	0	-		0
	UMAS CUPA	Υ	.25	0	0	0	-		0
SIS	SKIYOU CUPA	Υ	.25	0	0	0	_ (/	-	0
	ANISLAUS CUPA	Y	.25	0	0	0) . <	-	0
	INITY CUPA	Y	.25	0	0	0	-	-	0
	ILARE CUPA	Υ	.25	0	0	0	-	-	0
Additio	nal Environmental Records					71.			
Federal				\					
FIN	DS/FRS	Y	PO	0		-	-	-	0
TRI	S	Υ	PO	0		-	-	-	0
	IRS	Υ	.125	0	О	-	-	-	0
NCI		Υ	PO	0	-	-	-	-	0
OD		Υ	.5	0	0	0	0	-	0
IOD		Y	.5	0	0	0	0	-	0
TSO		Y	.125	0	0	-	-	-	0
	ST TSCA	Y	.125	0	0	-	-	-	0
	rs admin	Y	PO	0	-	-	-	-	0
	TS INSP	Y	PO	0	-	-	-	-	0
PRI		Y	PO	0	-	-	-	-	0
	RD DRYCLEANER	Υ	.5	0	0	0	0	-	0
		Υ	PO	0	-	-	-	-	0
ICIS	D DRYCLEANERS	Υ	.25	0	0	0	-	-	0
		Υ	1	0	0	0	0	0	0
FUI	4	Υ	PO	0	-	-	-	-	0
ML ⁻		Υ	PO	0	-	-	-	-	0
HIS	T MLTS								O
State									
DR'	YCLEANERS	Y	.25	0	0	0	-	-	0
	SP COMP ENF	Υ	1	0	0	0	0	0	0
CDI		Υ	.125	0	0	-	-	-	0
		Y	1	0	0	0	0	0	0
SCI	"								

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.12mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
CHMIRS	Y	PO	0	-	-	-	-	0
SWAT	Υ	.5	0	0	0	0	-	0
HAZNET	Υ	PO	0	1	-	-	-	1
CDO/CAO	Υ	.5	0	0	0	0	-	0
HIST CHMIRS	Y	PO	0	-	-	-	-	0
HIST MANIFEST	Υ	PO	0	-	-	-	-	0
Tribal	No Tri	bal additic	onal environ	mental red	ord source	s available	for this Stat	e.
County								
LA SML	Υ	.5	0	0	0	0	·	o
RIVERSIDE HZH	Y	.125	0	0	-	-	-	0
RIVERSIDE HWG	Y	.125	0	0	-	-(0
SANJOAQUIN HM	Y	.125	0	0	-	7 · K	-	0
VENTURA HAZR	Y	.5	0	0	0	0	-	0
HW INACTIVE	Y	.5	0	0	0	0	-	0
DELISTED COUNTY	Y	.25	0	0	0	_	-	0

Total:

^{*} PO - Property Only

^{* &#}x27;Property and adjoining properties' database search radii are set at 0.25 miles.

Executive Summary: Site Report Summary - Project Property

Map DB Company/Site Name Address Dir/Dist mi Elev Page Key diff ft Number

No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist mi	Elev Diff ft	Page Number
1	HAZNET	OTIS KING	11589 YORBA AVE CHINO CA 91710	NE/0.02	7	<u>16</u>
<u>2</u>	SANBERN CUPA	HOLT GARDEN CENTER	11602 RAMONA AVE CHINO CA 91710	WNW/0.08	0	<u>16</u>
<u>3</u>	HHSS	M AND M MARKET	4494 FRANCIS ST CHINO CA 91710	WSW/0.09	-6	<u>16</u>
<u>4</u>	ENVIROSTOR	CHINO EARLY EDUCATION CENTER	4562 AND 4578 PHILADELPHIA STREET CHINO CA 91710	S/0.50	-38	<u>16</u>

Executive Summary: Summary by Data Source

Standard

State

ENVIROSTOR - EnviroStor Database

A search of the ENVIROSTOR database, dated Apr 28, 2016 has found that there are 1 ENVIROSTOR site(s) within approximately 1.00 miles of the project property.

Equal/Higher Elevation	<u>Address</u>	Direction	<u>Distance mi</u>	Map Key
Lawar Flavation	Address	Divoction	Oleven and	Man Kay
Lower Elevation	<u>Address</u>	<u>Direction</u>	<u>Distance mi</u>	<u>Map Key</u>
CHINO EARLY EDUCATION CENTER	4562 AND 4578 PHILADELPHIA STREET CHINO CA 91710	S	0.50	<u>4</u>

HHSS - Historical Hazardous Substance Storage Information Database

A search of the HHSS database, dated Aug 27, 2015 has found that there are 1 HHSS site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	<u>Address</u>	Direction	<u>Distance mi</u>	Map Key
Lower Elevation	Address	Direction	Distance mi	Map Key
M AND M MARKET	4494 FRANCIS ST CHINO CA 91710	WSW	0.09	<u>3</u>

County

SANBERN CUPA - San Bernardino County CUPA List

A search of the SANBERN CUPA database, dated Apr 13, 2016 has found that there are 1 SANBERN CUPA site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	<u>Address</u>	<u>Direction</u>	<u>Distance mi</u>	<u>Map Key</u>
-------------------------------	----------------	------------------	--------------------	----------------

Lower Elevation

<u>Address</u>

<u>Dire</u>

Direction

WNW

Distance mi

Map Key

HOLT GARDEN CENTER

11602 RAMONA AVE CHINO CA 91710 0.08

2

Non Standard

State

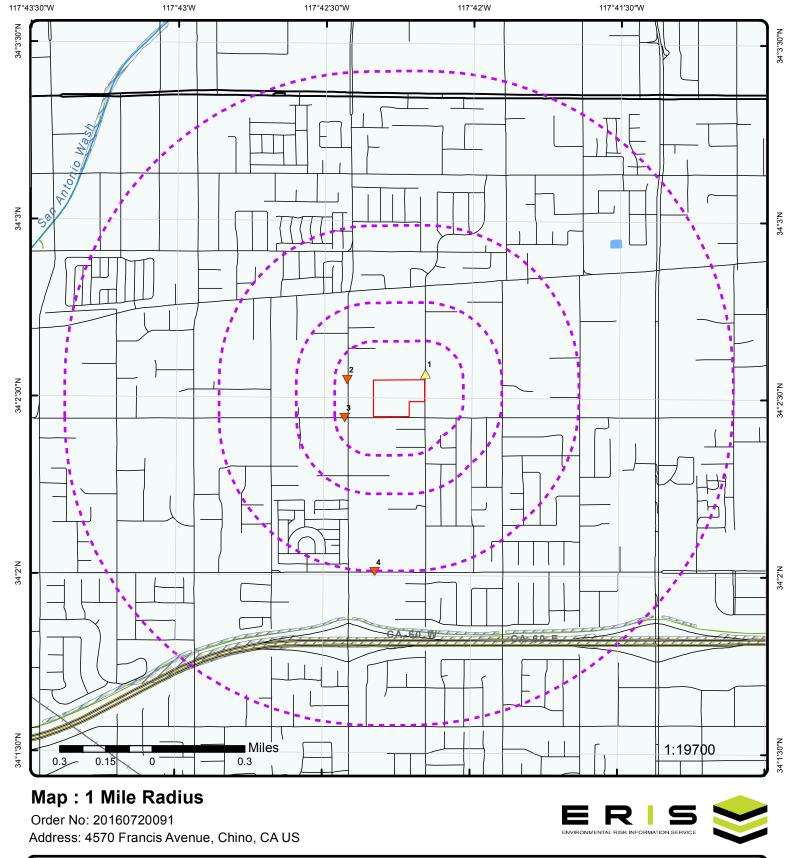
HAZNET - Hazardous Waste Manifest Data

A search of the HAZNET database, dated Oct 2,2015 has found that there are 1 HAZNET site(s) within approximately 0.02 miles of the project property.

Equal/Higher Elevation	<u>Address</u>	Direction	<u>Distance mi</u>	<u>Map Key</u>
OTIS KING	11589 YORBA AVE	NE	0.02	<u>1</u>

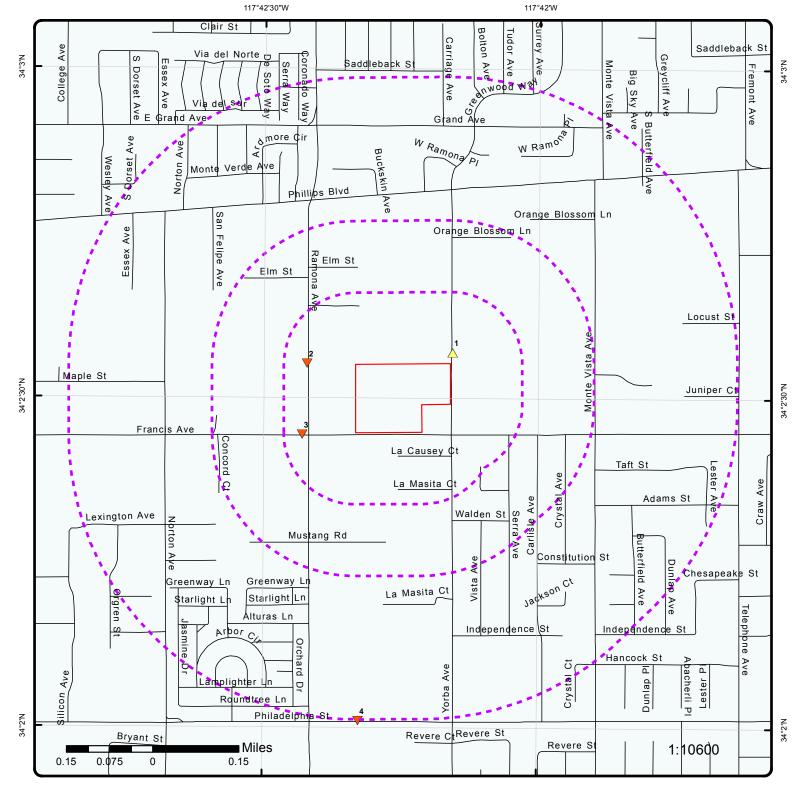
<u>Lower Elevation</u> <u>Address</u> <u>Direction</u> <u>Distance mi</u> <u>Map Key</u>

This is an Express Preview Report - Details will be provided in the Final ERIS Report.



Project Property Indian Reserve Land Major Highways **County Boundary** Major Highways Ramps State Boundary Historic Fill **Buffer Outline** 500 Year Flood Zone State Brownfield Sites Eris Sites with Higher Elevation Major Roads 100 Year Flood Zone Eris Sites with Same Elevation Major Roads Ramps State Brownfield Areas Eris Sites with Lower Elevation Secondary Roads National Priority List Sites State Superfund Areas:Dept. of Defense Eris Sites with Unknown Elevation Secondary Roads Ramps National Wetland State Superfund Areas:NPL WQARF Areas Local Roads and Ramps FWS Special Designation Areas Rails

Source: © 2012 ESRI © Ecolog ERIS Ltd



Map: 0.5 Mile Radius

Order No: 20160720091

Project Property

Buffer Outline

Address: 4570 Francis Avenue, Chino, CA US



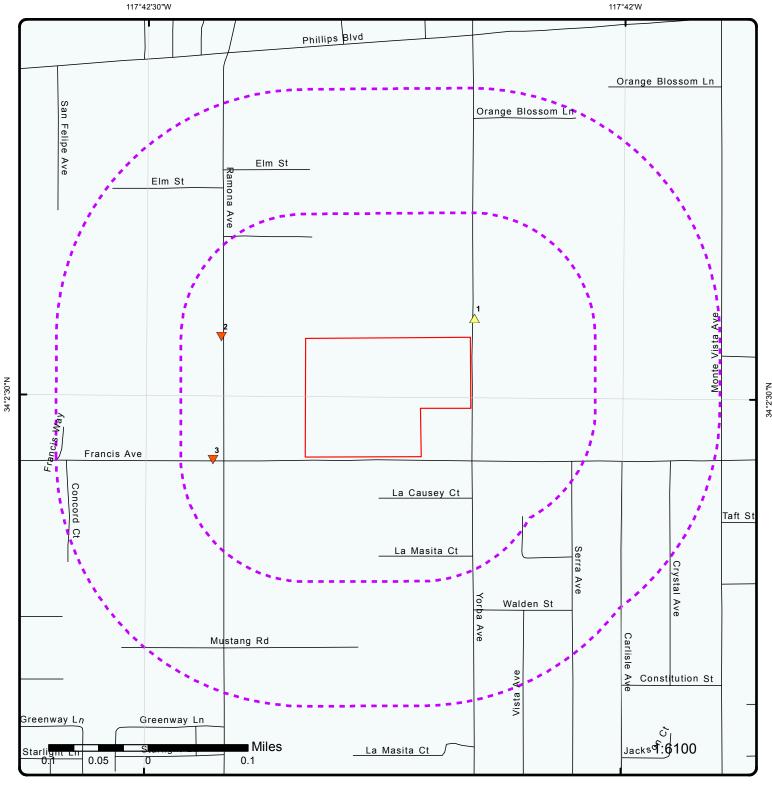


County Boundary

State Boundary

Major Highways

Major Highways Ramps



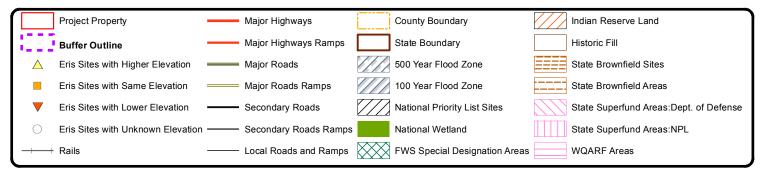
Map: 0.25 Mile Radius

Order No: 20160720091

Address: 4570 Francis Avenue, Chino, CA US







Source: © 2012 ESRI © Ecolog ERIS Ltd

117°42'30"W 117°42'W

Aerial Order No: 20160720091

Address: 4570 Francis Avenue, Chino, CA US

Detail Report

Мар Кеу	Number of Records	Direction/ Distance mi	Elevation ft	Site	DB
1	1 of 1	NE/0.02	844.86	OTIS KING 11589 YORBA AVE CHINO CA 91710	HAZNET
<u>2</u>	1 of 1	WNW/0.08	837.83	HOLT GARDEN CENTER 11602 RAMONA AVE CHINO CA 91710	SANBERN CUPA
3	1 of 1	WSW/0.09	831.54	M AND M MARKET 4494 FRANCIS ST CHINO CA 91710	HHSS
4	1 of 1	S/0.50	800.32	CHINO EARLY EDUCATION CENTER 4562 AND 4578 PHILADELPHIA STREET CHINO CA 91710	ENVIROSTOR

Order No: 20160720091

This is an Express Preview Report - Details will be provided in the Final ERIS Report.

Unplottable Summary

Total: 0 Unplottable sites

DB Company Name/Site Address City Zip ERIS ID Name

This is an Express Preview Report - Unplottables will be provided in the Final ERIS Report.

Unplottable Report

This is an Express Preview Report - Unplottables will be provided in the Final ERIS Report.



Order No: 20160720091

Appendix: Database Descriptions

Ecolog Environmental Risk Information Services Ltd (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ERIS updates databases as set out in ASTM Standard E1527-13, Section 8.1.8 Sources of Standard Source Information:

"Government information from nongovernmental sources may be considered current if the source updates the information at least every 90 days, or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public."

Standard Environmental Record Sources

Federal

NPL NPL

National Priorities List (Superfund)-NPL: EPA's (United States Environmental Protection Agency) list of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. The NPL, which EPA is required to update at least once a year, is based primarily on the score a site receives from EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action.

Government Publication Date: Feb 11, 2016

National Priority List - Proposed:

PROPOSED NPL

Includes sites proposed (by the EPA, the state, or concerned citizens) for addition to the NPL due to contamination by hazardous waste and identified by the Environmental Protection Agency (EPA) as a candidate for cleanup because it poses a risk to human health and/or the environment.

Government Publication Date: Feb 11, 2016

Deleted NPL:

DELETED NPL

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Government Publication Date: Feb 11, 2016

SEMS List 8R Active Site Inventory:

SEMS

The Superfund Program has deployed the Superfund Enterprise Management System (SEMS), which integrates multiple legacy systems into a comprehensive tracking and reporting tool. This inventory contains active sites evaluated by the Superfund program that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted.

Government Publication Date: Mar 07, 2016

SEMS List 8R Archive Sites:

SEMS ARCHIVE

Order No: 20160720091

The Superfund Enterprise Management System (SEMS) Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time.

<u>Comprehensive Environmental Response, Compensation and Liability Information System - CERCLIS:</u>

CERCLIS

Superfund is a program administered by the United States Environmental Protection Agency (EPA) to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The EPA administers the Superfund program in cooperation with individual states and tribal governments; this database is made available by the EPA.

Government Publication Date: Oct 25, 2013

CERCLIS - No Further Remedial Action Planned:

CERCLIS NFRAP

An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. The Archive designation means that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Government Publication Date: Oct 25, 2013

<u>CERCLIS Liens:</u> CERCLIS LIENS

A Federal Superfund lien exists at any property where EPA has incurred Superfund costs to address contamination ("Superfund site") and has provided notice of liability to the property owner. A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Jan 30, 2014

RCRA CORRACTS-Corrective Action:

RCRA CORRACTS

Order No: 20160720091

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

Government Publication Date: Mar 14, 2016

RCRA non-CORRACTS TSD Facilities:

RCRA TSD

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. This database includes Non-Corrective Action sites listed as treatment, storage and/or disposal facilities of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Government Publication Date: Mar 14, 2016

RCRA Generator List:

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste.

Government Publication Date: Mar 14, 2016

RCRA Small Quantity Generators List:

RCRA SQG

RCRA Info is the EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.

Government Publication Date: Mar 14, 2016

RCRA Conditionally Exempt Small Quantity Generators List:

RCRA CESQG

RCRA Info is the EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Conditionally Exempt Small Quantity Generators (CESQG) generate 100 kilograms or less per month of hazardous waste or one kilogram or less per month of acutely hazardous waste.

Government Publication Date: Mar 14, 2016

RCRA Non-Generators:

RCRA NON GEN

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste. *Government Publication Date: Mar 14, 2016*

Federal Engineering Controls-ECs:

FED ENG

Engineering controls (ECs) encompass a variety of engineered and constructed physical barriers (e.g., soil capping, subsurface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Jul 30, 2014

Federal Institutional Controls- ICs:

FED INST

Institutional controls are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is EPA's (United States Environmental Protection Agency) expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable, ICs play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site.

Government Publication Date: Jul 30, 2014

Emergency Response Notification System:

ERNS 1982 TO 1986

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1982-1986

Emergency Response Notification System:

ERNS 1987 TO 1989

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1987-1989

Emergency Response Notification System:

ERNS

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Oct 7, 2015

<u>The Assessment, Cleanup and Redevelopment Exchange System (ACRES)</u> Brownfield Database:

FED BROWNFIELDS

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Apr 05, 2016

State

State Response Sites:

A list of identified confirmed release sites where the Department of Toxic Substances Control (DTSC) is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk. This database is state equivalent NPL.

Government Publication Date: Feb 03, 2016

EnviroStor Database:

The EnviroStor Data Management System is made available by the Department of Toxic Substances Control (DTSC). Includes Corrective Action sites, Tiered Permit sites, Historical Sites and Evaluation/Investigation sites. This database is state equivalent CERCLIS.

Government Publication Date: Apr 28, 2016

Solid Waste Information System (SWIS):

SWF/LF

The Solid Waste Information System (SWIS) database made available by the Department of Resources Recycling and Recovery (CalRecycle) contains information on solid waste facilities, operations, and disposal sites throughout the State of California. The types of facilities found in this database include landfills, transfer stations, material recovery facilities, composting sites, transformation facilities, waste tire sites, and closed disposal sites.

Government Publication Date: Apr 28, 2016

EnviroStor Hazardous Waste Facilities:

HWP

A list of hazardous waste facilities including permitted, post-closure and historical facilities found in the Department of Toxic Substances Control (DTSC) EnviroStor database.

Government Publication Date: Apr 21, 2016

LDS LDS

Land Disposal Sites in GeoTracker, the State Water Resources Control Board (SWRCB)'s data management system. The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units. Waste management units include waste piles, surface impoundments, and landfills.

Government Publication Date: Apr 25, 2016

Leaking Underground Fuel Tank Reports:

LUST

Order No: 20160720091

List of Leaking Underground Storage Tanks within the Cleanup Sites data in GeoTracker database. GeoTracker is the State Water Resources Control Board's (SWRCB) data management system for managing sites that impact groundwater, especially those that require groundwater cleanup (Underground Storage Tanks, Department of Defense and Site Cleanup Program) as well as permitted facilities such as operating Underground Storage Tanks. The Leak Prevention Program that overlooks LUST sites is the SWRCB in California's Environmental Protection Agency.

Delisted Leaking Storage Tanks:

DLST

This database contains a list of leaking storage tank sites that were removed from the GeoTracker is the State Water Resources Control Board's (SWRCB) data management system.

Government Publication Date: Jun 06, 2016

Permitted Underground Storage Tank (UST) in GeoTracker:

UST

List of Permitted Underground Storage Tank (UST) sites made available by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency (EPA).

Government Publication Date: Mar 28, 2016

Aboveground Storage Tanks:

A statewide list from 2009 of aboveground storage tanks (ASTs) made available by the Cal FIRE Office of the State Fire Marshal (OSFM). This list is no longer maintained or updated by the Cal FIRE OSFM.

Government Publication Date: Aug 31, 2009

Delisted Storage Tanks:

DELISTED TNK

This database contains a list of storage tank sites that were removed by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency (EPA) and the Cal FIRE Office of State Fire Marshal (OSFM). Government Publication Date: Mar 28, 2016

Proposed Closure of Underground Storage Tank Cases:

UST CLOSURE

List of UST cases that are being considered for closure by either the California Environmental Protection Agency, State Water Resources Control Board or the Executive Director that have been posted for a 60-day public comment period. Government Publication Date: Feb 26, 2016

Historical Hazardous Substance Storage Information Database:

HHSS

The Historical Hazardous Substance Storage database contains information collected in the 1980s from facilities that stored hazardous substances. The information was originally collected on paper forms, was later transferred to microfiche, and recently indexed as a searchable database. When using this database, please be aware that it is based upon selfreported information submitted by facilities which has not been independently verified. It is unlikely that every facility responded to the survey and the database should not be expected to be a complete inventory of all facilities that were operating at that time. This database is maintained by the California State Water Resources Control Board's (SWRCB) Geotracker.

Government Publication Date: Aug 27, 2015

Site Mitigation and Brownfields Reuse Program Facility Sites with Land Use Restrictions:

LUR

The Department of Toxic Substances Control (DTSC) Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents land use restrictions that are active. Some sites have multiple land use restrictions.

Government Publication Date: Mar 4, 2016

Hazardous Waste Management Program Facility Sites with Deed / Land Use

HLUR

The Department of Toxic Substances Control (DTSC) Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Government Publication Date: Mar 29, 2016

Deed Restrictions and Land Use Restrictions:

DEED

List of Deed Restrictions, Land Use Restrictions and Covenants in GeoTracker made available by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency. A deed restriction (land use covenant) may be required to facilitate the remediation of past environmental contamination and to protect human health and the environment by reducing the risk of exposure to residual hazardous materials.

Government Publication Date: Mar 29, 2016

Voluntary Cleanup Program:

VCP

List of sites in the Voluntary Cleanup Program made available by the Department of Toxic Substances and Control (DTSC). The Voluntary Cleanup Program was designed to respond to lower priority sites. Under the Voluntary Cleanup Program, DTSC enters site-specific agreements with project proponents for DTSC oversight of site assessment, investigation, and/or removal or remediation activities, and the project proponents agree to pay DTSC's reasonable costs for those services.

Government Publication Date: Apr 7, 2016

GeoTracker Cleanup Sites Data:

CLEANUP SITES

A list of cleanup sites in the state of California made available by The State Water Resources Control Board (SWRCB) of the California Environmental Protection Agency (EPA). SWRCB tracks leaking underground storage tank cleanups as well as other water board cleanups.

Government Publication Date: Jun 06, 2016

Tribal

Leaking Underground Storage Tanks (LUSTs) on Indian Lands:

INDIAN LUST

LUSTs on Tribal/Indian Lands in Region 9, which includes California.

Government Publication Date: Jan 31, 2016

<u>Underground Storage Tanks (USTs) on Indian Lands:</u>

INDIAN UST

USTs on Tribal/Indian Lands in Region 9, which includes California.

Government Publication Date: Jan 31, 2016

Delisted Tribal Leaking Storage Tanks:

DELISTED ILST

Underground Storage Tank facilities which have been removed from the Regional Tribal UST lists made available by the EPA.

Government Publication Date: Jan 31, 2016

Delisted Tribal Underground Storage Tanks:

DELISTED IUST

Underground Storage Tank facilities which have been removed from the Regional Tribal UST lists made available by the EPA.

Government Publication Date: Jan 31, 2016

County

Alameda County LOP Sites List:

ALAMEDA LOP

Order No: 20160720091

A list of Leaking Underground Storage Tanks (LUST) facilities in Alameda County. This list is made available by Alameda County Department of Environmental Health (ACEH). ACEH implements a Local Oversight Program (LOP) under contract with the State Water Resources Control Board to provide regulatory oversight of the investigation and cleanup of soil and groundwater contamination from leaking petroleum USTs.

Government Publication Date: Apr 6, 2016

Alameda County UST List:

ALAMEDA UST

A list of all registered Underground Storage Tanks (USTs) in the County of Alameda. The list is made available by Alameda County Department of Environmental Health.

Government Publication Date: Apr 6, 2016

Amador County CUPA List:

AMADOR CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Amador County. This list is made available by Amador County Environmental Health Department which is the CUPA for Amador County and administers a consolidated hazardous materials program.

Government Publication Date: Mar 21, 2016

Butte County CUPA List:

BUTTE CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Butte County. This list is made available by Butte County Public Health Department, Environmental Health Division which was certified by the California Environmental Protection Agency as the CUPA for Butte County.

Government Publication Date: Mar 22, 2016

Calaveras County CUPA Facilities List:

CALAVERAS CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in the County of Calaveras. This list is made available by Calaveras County Environmental Health Department which has been certified by CalEPA to implement the Unified program as a CUPA.

Government Publication Date: Mar 15, 2016

Calaveras County Landfills List:

CALAVERAS LF

A list of landfills in Calaveras County. This list is made available by Calaveras County Environmental Health Department which has been designated as the CUPA for the County.

Government Publication Date: Mar 15, 2016

Calaveras County UST Remediation Sites:

CALAVERAS LUST

A list of Leaking Underground Storage Tank (LUST) facilities in Calaveras County. This list is made available by Calaveras County Environmental Health Department. Local Implementing Agency (LIA) provides oversight of site remediation with soil contamination while CalEPA - California Regional Water Quality Control Board - Central Valley Region oversees remediation of sites with groundwater contamination.

Government Publication Date: Mar 15, 2016

Colusa County CUPA List:

COLUSA CUPA

A list of facilities associated with Business Plan and Hazardous Generator programs in the County of Colusa. This list is made available by Colusa County Environmental Health which was certified by the California Environmental Protection Agency as Certified Unified Program Agency for Colusa County.

Government Publication Date: Jan 26, 2016

Contra Costa County CUPA List:

CONTRACO CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in the County of Contra Costa. This list is made available by Contra Costa County which has been certified by CalEPA to implement the Unified program as a CUPA.

Government Publication Date: Apr 27, 2016

Del Norte County CUPA Facility List:

DELNORTE CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Del Norte County. This list is made available by Del Norte County Environmental Health Division which is the designated CUPA for the county. *Government Publication Date: Jan 22, 2016*

El Dorado County CUPA Facility List:

ELDORADO CUPA

Order No: 20160720091

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in El Dorado County. This list is made available by El Dorado County Department of Environmental Management - Hazardous Waste Division which is approved by CalEPA as CUPA for El Dorado County.

Government Publication Date: May 24, 2016

Fresno County CUPA/Solid Waste Programs Resource List:

FRESNO CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Fresno County. This list is made available by Fresno County Department of Environmental Health Division which is approved by Cal-EPA as CUPA for the County.

Government Publication Date: Apr 04, 2016

Humboldt County CUPA Facility List:

HUMBOLDT CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Humboldt County. This list is made available by Humboldt County Division of Environmental Health which is approved by the State Secretary for Environmental Protection as CUPA for the County.

Government Publication Date: May 11, 2016

Imperial County CUPA Facility List:

IMPERIAL CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Imperial County. This list is made available by the California Department of Toxic Substances Control (DTSC) which is appointed as CUPA for Imperial County.

Government Publication Date: Apr 28, 2016

Inyo County CUPA Facility List:

INYO CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in the County of Inyo. This list is made available by the Inyo County Environmental Health Services Department which has been certified by CalEPA to implement the Unified program as a CUPA.

Government Publication Date: Apr 06, 2016

Kern County CUPA List:

KERN CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in the County of Kern. This list is made available by Kern County Environmental Health Services Department which has been certified by CalEPA to implement the Unified program as a CUPA for Kern County.

Government Publication Date: May 20, 2016

Kern County UST List:

KERN UST

A list of all registered and inactive Underground Storage Tanks in the County of Kern. The list is made available by Kern County Environmental Health Division.

Government Publication Date: May 17, 2016

Kings County CUPA Facility List:

KINGS CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Kings County. This list is made available by Kings County Department of Public Health which is appointed as CUPA for the county.

Government Publication Date: Jan 31, 2016

Lake County CUPA Facility List:

LAKE CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Lake County. This list is made available by Lake County Division of Environmental Health which is CUPA for the entire county.

Government Publication Date: Apr 28, 2016

Los Angeles County - El Segundo City Underground Storage Tanks List:

ELSEGUNDO UST

A list of all registered Underground Storage Tanks (USTs) in the City of El Segundo of Los Angeles County. The list is made available by El Segundo City Fire Department.

Government Publication Date: Mar 11, 2016

Los Angeles County - Torrance City Underground Storage Tanks:

TORRANCE UST

Order No: 20160720091

A list of registered Underground Storage Tank (UST) sites in Torrance City of Los Angeles County. This list is made available by Torrance City Office of Clerk.

Government Publication Date: Mar 29, 2016

Los Angeles County HMS List:

LA HMS

This list contains sites that have or had permits for Industrial Waste, Underground Storage Tanks, or Storm water in the County of Los Angeles. This list is made available by the County of Los Angeles Department of Public Works.

Government Publication Date: Feb 9, 2016

Los Angeles County Long Beach UST List:

LA LONGB UST

A list of all registered active Underground Storage Tanks in the City of Long Beach of Los Angeles County. The list is made available by Long Beach Certified Unified Program Agency.

Government Publication Date: Jan 6, 2016

Los Angeles County Solid Waste Sites:

LA SWF

List of permitted solid waste facilities, closed landfills, historical dumpsites and other solid waste sites in Los Angeles County, made available by the Department of Public Works in Los Angeles County.

Government Publication Date: Apr 20, 2016

Madera County CUPA Facility List:

MADERA CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Madera County. This list is made available by Madera County Environmental Health Department which is CUPA for the entire county.

Government Publication Date: Jun 16, 2016

Marin County CUPA List:

MARIN CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in the County of Marin. This list is made available by Marin County which has been certified by CalEPA to implement the Unified program as a CUPA. *Government Publication Date: Jan 19, 2016*

Merced County CUPA Facilities List:

MERCED CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in the County of Merced. This list is made available by Merced County which has been certified by CalEPA to implement the Unified program as a CUPA for the entire county.

Government Publication Date: Apr 19, 2016

Mono County CUPA Facility List:

MONO CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Mono County. This list is made available by Mono County Environmental Health Department which has been certified by CalEPA to implement the Unified program as a CUPA for the entire county.

Government Publication Date: Apr 7, 2016

Monterey County CUPA Facility List:

MONTEREY CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Monterey County. This list is made available by Monterey County Hazardous Materials Management Services which is designated as the CUPA in Monterey County.

Government Publication Date: Feb 25m 2016

Napa County UST List:

NAPA UST

A list of all registered active Underground Storage Tanks (USTs) in the County of Napa. This list is made available by Napa County Environmental Health Division.

Government Publication Date: Mar 09, 2016

Nevada County CUPA Facility List:

NEVADA CUPA

Order No: 20160720091

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Nevada County. This list is made available by Nevada County Department of Environmental Health which is the CUPA for all cities and unincorporated areas within Nevada County.

Government Publication Date: Apr 18, 2016

Orange County Aboveground Petroleum Storage Tank Listing:

ORANGE AST

A list of Aboveground Petroleum Storage Tank (APST) facilities inspected by Orange County Certified Unified Program Agency (CUPA) Under the Aboveground Petroleum Storage Act (APSA). This list is made available by the Environmental Health Division of Orange County Health Care Agency.

Government Publication Date: Apr 01, 2016

Orange County Underground Storage Tanks Listing:

ORANGE UST

A list of registered Underground Storage Tank (UST) sites in Orange County. This list is made available by Orange County Health Care Agency (OCHCA), Environmental Health Division which oversees the underground storage tank inspection program in most of the cities of Orange County, with the exception of Anaheim, Fullerton, and Orange.

Government Publication Date: Apr 01, 2016

Placer County CUPA Facilities List:

PLACER CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Placer County. This list is made available by Placer County Environmental Health which is designated CUPA for all areas of the county except for the City of Roseville.

Government Publication Date: Apr 19, 2016

Riverside County Local Oversight Program List:

RIVERSIDE LOP

A list of Leaking Underground Storage Tank (LUST) facilities in Riverside County. This list is made available by Riverside County Department of Environmental Health. Environmental Cleanup Program provides oversight of assessments and cleanups at properties that have been, or may have been, contaminated with hazardous substances from LUSTs or releases associated with other commercial/industrial use.

Government Publication Date: May 18, 2016

Riverside County Underground Storage Tanks List:

RIVERSIDE UST

A list of registered Underground Storage Tank (UST) sites in Riverside County. This list is made available by Riverside County Department of Environmental Health. The Hazardous Materials Management Branch (HMMB) regulates and oversees the inspections of constructions, repairs, upgrades, system operation and removal of UST systems.

Government Publication Date: Feb 17, 2016

Sacramento County Master Hazardous Materials Facility List:

SACRAMENTO HAZ

A list of Hazardous Materials Facilities in Sacramento County. This list is made available by Sacramento County Environmental Management Department which has been designated as the Certified Unified Program Agency (CUPA) for the County.

Government Publication Date: May 02, 2016

Sacramento Toxic Site Cleanup List:

SACRAMENTO TOX

Sacramento County Environmental Management Department (EMD)'s Toxic Site Cleanup List includes sites where unauthorized releases of potentially hazardous materials have occurred. The EMD's Site Assessment & Mitigation Program, also referred to as Toxic Site Cleanup Program, provides mandated regulatory oversight of the assessment and remediation of properties on which there has been a release of hazardous materials to soil and/or groundwater.

Government Publication Date: May 2, 2016

San Bernardino County CUPA List:

SANBERN CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in San Bernardino County. This list is made available by San Bernardino County Fire Department which is the CUPA for all areas of the County except the city of Victorville.

Government Publication Date: Apr 13, 2016

San Diego County Hazardous Materials Management Division Database:

SANDIEGO HAZ

Order No: 20160720091

A list of facilities with Unified Program Facility Permit in San Diego County. This list has been made available by County of San Diego Environmental Health.

Government Publication Date: Apr 20, 2016

San Diego County Site Assessment and Mitigation Investigation Sites:

SANDIEGO SAM

List of sites which have undergone a Site Assessment and Mitigation investigation. This list is made available by the County of San Diego Department of Environmental Health.

Government Publication Date: Apr 20, 2016

San Diego County Solid Waste Facility List:

SANDIEGO SWF

A list of open and closed Solid Waste Facilities in the County of San Diego. The list is made available by San Diego County Department of Environmental Health.

Government Publication Date: Feb 10, 2016

San Francisco County Aboveground Storage Tanks List:

SANFRAN AST

A list of Aboveground Storage Tanks (ASTs) facilities inspected by San Francisco Department of Public Health's (SFDPH) Hazardous Materials and Waste Program. Aboveground storage containers or tanks include oil-filled equipment (such as hydraulic systems/reservoirs and heat transfer systems) which have a petroleum storage capacity of 55 gallons or greater. *Government Publication Date: Mar 12, 2016*

San Francisco County CUPA Facilities List:

SANFRAN CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in San Francisco County. This list is made available by San Francisco County Hazardous Materials and Waste Program which is the CUPA for all areas of the County.

Government Publication Date: Mar 12, 2016

San Francisco County LOP Sites:

SANFRAN LOP

A list of Underground Storage Tank (UST) release sites in the County of San Francisco. This list is made available by San Francisco County Department of Public Health Environmental Health Protection Branch.

Government Publication Date: May 25, 2016

San Francisco County UST List:

SANFRAN UST

A list of all registered Underground Storage Tanks (USTs) in the County of San Francisco. This ist is made available by San Francisco County Environmental Health Division. The Hazardous Materials and Waste Program provides regulatory oversight for the construction, operation, repair and removal of USTs in San Francisco.

Government Publication Date: Mar 12, 2016

San Joaquin County Aboveground Tank List:

SANJOAQUIN AST

A list of Aboveground Storage Tanks (ASTs) inspected by San Joaquin County Environmental Health Department (SJCEHD) under Aboveground Petroleum Storage Act (APSA).

Government Publication Date: May 04, 2016

San Joaquin County UST List:

SANJOAQUIN UST

A list of all registered Underground Storage Tanks in the County of San Joaquin. The list is made available by San Joaquin County Environmental Health Division.

Government Publication Date: May 04, 2016

San Joaquin Hazardous Waste Facilities:

SANJOAQUIN HW

A list of Hazardous Waste Facilities in San Joaquin County. This list is made available by San Joaquin County Environmental Health Department which has been designated as the CUPA for the County.

Government Publication Date: May 04, 2016

San Mateo County CUPA Facilities List:

SANMATEO CUPA

Order No: 20160720091

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in San Mateo County. This list is made available by San Mateo County Environmental Health Department which has been designated as the CUPA for the County.

Government Publication Date: May 2, 2016

San Mateo County LOP List:

SANMATEO LOP

A list of Leaking Underground Storage Tank (LUST) facilities in San Mateo County. This list is made available by San Mateo County Environmental Health Services Division.

Government Publication Date: May 10, 2016

Santa Clara County CUPA Facilities List:

SANTACLARA CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Santa Clara County. This list is made available by Santa Clara County Department of Environmental health (DEH). DEH's Hazardous Materials Compliance Division (HMCD) is CUPA for the county with jurisdiction within the Cities of Los Altos Hills, Monte Sereno, and Saratoga; and in all unincorporated areas of Santa Clara County, including Moffett Field, San Martin, and Stanford. *Government Publication Date: Mar 3, 2016*

Santa Clara Local Oversight Program Listing:

SANTACLARA LO

A list of Leaking Underground Storage Tanks (LUST) facilities in Santa Clara County Provided by Santa Clara Department of Environmental Health (DEH). Since July 1, 2004 the DEH has served as the oversight agency for investigations and clean-up of petroleum releases from underground storage tanks through implementation of the Local Oversight Program (LOP) contract with the State Water Resources Control Board.

Government Publication Date: Apr 20, 2016

Santa Cruz County CUPA Facility List:

SANTACRUZ CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Santa Cruz County. This list is made available by Santa Cruz County Environmental Health Services (EHS) Division which has been designated as the CUPA for the County.

Government Publication Date: Apr 20, 2016

San Luis Obispo County CUPA Facilities List:

SANLUISOB CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in San Luis Obispo County. This list is made available by County of San Luis Obispo Environmental Health Services Division which has been designated as the CUPA for the County.

Government Publication Date: Apr 21, 2016

Shasta County CUPA Facility List:

SHASTA CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Shasta County. This list is made available by Shasta County Environmental Health Division which has been designated as the CUPA for Shasta County by CalEPA.

Government Publication Date: Feb 16, 2016

Solano County CUPA List:

SOLANO CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in the County of Solano. This list is made available by Solano County Environmental Health Division which has been certified by CalEPA to implement the Unified program as a CUPA.

Government Publication Date: Apr 28, 2016

Solano County Local Oversight Program List:

SOLANO LOP

A list of Leaking Underground Storage Tank (LUST) facilities in the Solano County. This list is made available by the Solano County Environmental Health Services. Since April 1993, the State Water Resources Control Board has contracted with the County of Solano to provide regulatory oversight for the cleanup of LUSTs under Local Oversight Program (LOP) contract.

Government Publication Date: Apr 28, 2016

Solano County Underground Storage Tanks List:

SOLANO UST

Order No: 20160720091

A list of all registered Underground Storage Tanks (USTs) in the County of Solano. The list is made available by Solano County Environmental Health Services Division. There are an estimated 190 facilities throughout the county that are subject to the regulatory requirements of the UST program.

Government Publication Date: Apr 28, 2016

Sonoma County CUPA Facilities List:

SONOMA CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Sonoma County. This list is made available by Sonoma County Hazardous Materials (HazMat) Division which has been designated as the CUPA for the County.

Government Publication Date: Apr 05, 2016

Sonoma County LOP Site List:

SONOMA LOP

A list of Leaking Underground Storage Tank (LUST) facilities in Sonoma County. This list is made available by Sonoma County Department of Health Services. Sonoma County Local Oversight Program (LOP) oversees the investigation and cleanup of fuel releases from underground storage tanks in all areas of the County with the exception of the Cities of Santa Rosa and Healdsburg.

Government Publication Date: Apr 01, 2016

Sonoma County Petaluma City CUPA Facilities:

SONOMA PETAL

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Petaluma City. This list is made available by Petaluma Fire Prevention Bureau which is the CUPA for Petaluma City in Sonoma County.

Government Publication Date: Feb 18, 2016

Sutter County CUPA List:

SUTTER CUPA

A list of facilities associated with Aboveground Petroleum Storage Tank (APSA) regulation, Hazardous Materials Business Plan (HMBP) Program and Underground Storage Tank (UST) regulation of Certified Unified Program Agency (CUPA) programs in Sutter County. This list is made available by Sutter County Environmental Health Division which has been designated as the CUPA for the County.

Government Publication Date: Apr 20, 2016

Tuolumne County CUPA Facility List:

TUOLUMNE CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Tuolumne County. This list is made available by Tuolumne County Environmental Health which is the CUPA for all areas of the County.

Government Publication Date: May 2, 2016

Ventura County CUPA Facilities List:

VENTURA CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Ventura County. This list is made available by Ventura County Environmental health Division.

Government Publication Date: Mar 28, 2016

Ventura County City of Oxnard CUPA Facility List:

OXNARD CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Oxnard City. This list is made available by Oxnard City Fire Department which is the CUPA for Oxnard City in Ventura County.

Government Publication Date: May 04, 2016

Ventura County Inactive Underground Storage Tanks Sites:

VENTURA INUST

A list of inactive Underground Storage Tank (UST) sites in Ventura County. This list is made available by Ventura County Environmental Health Division.

Government Publication Date: Apr 20, 2016

Ventura County Leaking Underground Fuel Tanks - Historic:

VENTURA HLUFT

Order No: 20160720091

A historical list of cleanup oversight of the Leaking Underground Fuel Tank (LUFT) program provided by Ventura County Environmental Health Division. All new and existing underground fuel storage tank releases are now referred to the Los Angeles Regional Water Quality Control Board.

Government Publication Date: May 31, 2008

Yolo County UST List:

YOLO UST

A list of registered Underground Storage Tank (UST) sites in Yolo County. This list is made available by Yolo County Environmental Health Department which regulates the construction, operation, repair and removal of USTs throughout Yolo County.

Government Publication Date: Apr 20, 2016

Yuba County CUPA Facilities List:

YUBA CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in Yuba County. This list is made available by Yuba County Environmental Health Division which is the CUPA for all areas of the County.

Government Publication Date: May 20, 2016

City of Bakersfield CUPA List:

BKRSFIELD CUPA

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in the City of Bakersfield. This list is made available by the City of Bakersfield Fire Department.

Government Publication Date: Mar 07, 2016

Gilroy City CUPA Facilities List:

SANTACLARA GIL

The Gilroy City Fire Marshal's office maintains a list of CUPA Facilities located in Gilroy City.

Government Publication Date: Apr 26, 2016

Alpine County CUPA List:

ALPINE CUPA

The Alpine County Health Department has been certified by Cal / EPA to implement the Unified program and maintains a list of Certified Unified Program Agency (CUPA) facilities.

Government Publication Date: Feb 24, 2015

Glenn County CUPA List:

GLENN CUPA

The Glenn County Air Pollution Control District is the Administering Agency and the Certified Unified Program Agency (CUPA) for Glenn County with responsibility for regulating hazardous materials handlers, hazardous waste generators, underground storage tank facilities, above ground storage tanks, and stationary sources handling regulated substances. *Government Publication Date: May 02, 2016*

Lassen County CUPA List:

LASSEN CUPA

The Environmental Health Program of Lassen County tracks Certified Unified Program Agencies (CUPA) facilities.

Government Publication Date: May 9, 2016

Mariposa County CUPA List:

MARIPOSA CUPA

Mariposa County Health Department, Environmental Health Services, is certified by Cal-EPA as the Certified Unified Program Agency (CUPA) that administers specific hazardous materials/hazardous waste programs.

Government Publication Date: Apr 8, 2016

Plumas County CUPA List:

PLUMAS CUPA

In Plumas County, the Environmental Health Department is the designated Certified Unified Program Agency (CUPA) that consolidates and coordinates administrative activities such as permits, inspections, and enforcement. CUPA Programs include Hazardous Materials Business Plan (HMBP), Underground Storage Tanks (USTs), Above Ground Storage Tanks (AGTs), Hazardous Waste Generators (HWG) and CAL-ARP.

Government Publication Date: Apr 14, 2016

Siskiyou County CUPA List:

SISKIYOU CUPA

The Hazardous Materials Management Group of Siskiyou County's Environmental Health Division Certified Unified Program Agency (CUPA) regulates underground tanks, hazardous materials (including but not limited to: hazardous substances, hazardous waste, and any material which a handler or the CUPA has reasonable basis for believing that it would be injurious to the health and safety of persons or harmful to the environment if released into the workplace or the environment.

Government Publication Date: May 18, 2016

Stanislaus County CUPA List:

STANISLAUS CUPA

Order No: 20160720091

The Environmental Resources Department of Stanislaus County maintains a list of Certified Unified Program Agency (CUPA) facilities.

Government Publication Date: May 10, 2016

Trinity County CUPA List:

On January 1, 2005, the Department of Toxic Substances Control (DTSC) was authorized by the California Environmental Protection Agency (Cal/EPA) as the Trinity County Certified Unified Program Agency (CUPA). This CUPA list was made available by the DTSC.

Government Publication Date: Apr 15, 2016

Tulare County CUPA List:

TULARE CUPA

TRINITY CUPA

The Certified Unified Program Agency (CUPA) unifies and consolidates under one roof the various requirements for businesses handling hazardous materials, generating or treating hazardous wastes, or operating aboveground or underground storage tanks. CUPA thereby enhances consistency, reduces duplication, and simplifies compliance for the regulated public. The Tulare County Environmental Health Division was certified as a CUPA in December, 1996.

Government Publication Date: Dec 3, 2015

Additional Environmental Record Sources

Federal

Facility Registry Service/Facility Index:

FINDS/FRS

The US Environmental Protection Agency (EPA)'s Facility Registry System (FRS) is a centrally managed database that identifies facilities, sites or places subject to environmental regulations or of environmental interest. FRS creates high-quality, accurate, and authoritative facility identification records through rigorous verification and management procedures that incorporate information from program national systems, state master facility records, data collected from EPA's Central Data Exchange registrations and data management personnel.

Government Publication Date: Mar 9, 2016

Toxics Release Inventory (TRI) Program:

TRIS

The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment.

Government Publication Date: Dec 31, 2014

Hazardous Materials Information Reporting System:

HMIRS

US DOT - Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) Incidents Reports Database taken from Hazmat Intelligence Portal, U.S. Department of Transportation.

Government Publication Date: May 10, 2016

National Clandestine Drug Labs:

NCDL

The U.S. Department of Justice ("the Department") provides this data as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy.

Government Publication Date: May 17, 2016

Inventory of Open Dumps, June 1985:

OD

Order No: 20160720091

The Resource Conservation and Recovery Act (RCRA of the Act) provides for publication of an inventory of open dumps. The Act defines "open dumps" as facilities which do not comply with EPA's "Criteria for Classification of Solid Waste Disposal Facilities and Practices" (40 CFR 257).

Government Publication Date: Jun 1985

EPA Report on the Status of Open Dumps on Indian Lands:

IODI

Public Law 103-399, The Indian Lands Open Dump Cleanup Act of 1994, enacted October 22, 1994, identified ongressional concerns that solid waste open dump sites located on American Indian or Alaska Native (Al/AN) lands threaten the health and safety of residents of those lands and contiguous areas. The purpose of the Act is to identify the location of open dumps on Indian lands, assess the relative health and environment hazards posed by those sites, and provide financial and technical assistance to Indian tribal governments to close such dumps in compliance with Federal standards and regulations or standards promulgated by Indian Tribal governments or Alaska Native entities.

Government Publication Date: Dec 31, 1998

Toxic Substances Control Act:

TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The CDR enables EPA to collect and publish information on the manufacturing, processing, and use of commercial chemical substances and mixtures (referred to hereafter as chemical substances) on the TSCA Chemical Substance Inventory (TSCA Inventory). This includes current information on chemical substance production volumes, manufacturing sites, and how the chemical substances are used. This information helps the Agency determine whether people or the environment are potentially exposed to reported chemical substances. EPA publishes submitted CDR data that is not Confidential Business Information (CBI).

Government Publication Date: Jun 30, 2014

HIST TSCA:

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The 2006 IUR data summary report includes information about chemicals manufactured or imported in quantities of 25,000 pounds or more at a single site during calendar year 2005. In addition to the basic manufacturing information collected in previous reporting cycles, the 2006 cycle is the first time EPA collected information to characterize exposure during manufacturing, processing and use of organic chemicals. The 2006 cycle also is the first time manufacturers of inorganic chemicals were required to report basic manufacturing information.

Government Publication Date: 2006

FTTS Administrative Case Listing:

FTTS ADMIN

An administrative case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

FTTS Inspection Case Listing:

FTTS INSP

An inspection case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

Potentially Responsible Parties List:

PRP

Order No: 20160720091

Early in the cleanup process, the Environmental Protection Agency (EPA) conducts a search to find the potentially responsible parties (PRPs). EPA looks for evidence to determine liability by matching wastes found at the site with parties that may have contributed wastes to the site.

Government Publication Date: Nov 12, 2013

State Coalition for Remediation of Drycleaners Listing:

SCRD DRYCLEANER

The State Coalition for Remediation of Drycleaners (SCRD) was established in 1998, with support from the U.S. Environmental Protection Agency (EPA) Office of Superfund Remediation and Technology Innovation. It is comprised of states with established drycleaner remediation programs. Coalition members are states with mandated programs and funding for drycleaner site remediation. Coalition members are states with mandated programs and funding for drycleaner site remediation. Current members are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Government Publication Date: May 09, 2016

Integrated Compliance Information System (ICIS):

ICIS

The Integrated Compliance Information System (ICIS) is a system that provides information for the Federal Enforcement and Compliance (FE&C) and the National Pollutant Discharge Elimination System (NPDES) programs. The FE&C component supports the Environmental Protection Agency's (EPA) Civil Enforcement and Compliance program activities. These activities include Compliance Assistance, Compliance Monitoring and Enforcement. The NPDES program supports tracking of NPDES permits, limits, discharge monitoring data and other program reports.

Government Publication Date: Dec 17, 2015

Drycleaner Facilities:

FED DRYCLEANERS

A list of drycleaner facilities from the Integrated Compliance Information System (ICIS). The Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments. *Government Publication Date: May 20, 2016*

Formerly Used Defense Sites:

FUDS

Formerly Used Defense Sites (FUDS) are properties that were formerly owned by, leased to, or otherwise possessed by and under the jurisdiction of the Secretary of Defense prior to October 1986, where the Department of Defense (DoD) is responsible for an environmental restoration. This list is published by the U.S. Army Corps of Engineers.

Government Publication Date: Dec 31, 2013

Material Licensing Tracking System (MLTS):

MLTS

A list of sites that store radioactive material subject to the Nuclear Regulatory Commission (NRC) licensing requirements. This list is maintained by the NRC.

Government Publication Date: Dec 11, 2015

Historic Material Licensing Tracking System (MLTS) sites:

HIST MLTS

A historic list of sites that have inactive licenses and/or removed from the Material Licensing Tracking System (MLTS). In some cases, a site is removed from the MLTS when the state becomes an "Agreement State". An Agreement State is a State that has signed an agreement with the Nuclear Regulatory Commission (NRC) authorizing the State to regulate certain uses of radioactive materials within the State.

Government Publication Date: Jan 31, 2010

State

<u>Drycleaner Facilities:</u>

DRYCLEANERS

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial, linen supply, commercial laundry, dry cleaning and pressing machines - Coin Operated Laundry and Dry Cleaning. This is provided by the Department of Toxic Substance Control.

Government Publication Date: May 20, 2016

EnviroStor Inspection, Compliance, and Enforcement:

INSP COMP ENF

Order No: 20160720091

A list of permitted facilities with inspections and enforcements tracked in the Department of Toxic Substance Control (DTSC) EnviroStor.

Government Publication Date: Mar 14, 2016

Clandestine Drug Lab Sites:

CDL

The Department of Toxic Substances Control (DTSC) maintains a listing of drug lab sites. DTSC is responsible for removal and disposal of hazardous substances discovered by law enforcement officials while investigating illegal/clandestine drug laboratories.

Government Publication Date: Dec 31, 2015

School Property Evaluation Program Sites:

SCH

A list of sites registered with The Department of Toxic Substances Control (DTSC) School Property Evaluation and Cleanup (SPEC) Division. SPEC is responsible for assessing, investigating and cleaning up proposed school sites. The Division ensures that selected properties are free of contamination or, if the properties were previously contaminated, that they have been cleaned up to a level that protects the students and staff who will occupy the new school.

Government Publication Date: Apr 07, 2016

California Hazardous Material Incident Report System (CHMIRS):

CHMIRS

A list of reported hazardous material incidents, spills, and releases from the California Hazardous Material Incident Report System (CHMIRS). This list has been made available by the California Office of Emergency Services (OES).

Government Publication Date: Mar 08, 2016

Sites Listed in the Solid Waste Assessment Test (SWAT) Program Report:

SWAT

In a 1993 Memorandum of Understanding, the State Water Resources Control Board (SWRCB) agreed to submit a comprehensive report on the Solid Waste Assessment Test (SWAT) Program to the California Integrated Waste Management Board (CIWMB). This report summarizes the work completed to date on the SWAT Program, and addresses both the impacts that leakage from solid waste disposal sites (SWDS) may have upon waters of the State and the actions taken to address such leakage.

Government Publication Date: Dec 31, 1995

Hazardous Waste Manifest Data:

HAZNET

A list of hazardous waste manifests received each year by Department of Toxic Substances Control (DTSC). The volume of manifests is typically 900,000 - 1,000,000 annually, representing approximately 450,000 - 500,000 shipments. Government Publication Date: Oct 2,2015

Cease and Desist Orders and Cleanup and Abatement Orders:

CDO/CAO

The California Environment Protection Agency "Cortese List" of active Cease and Desist Orders (CDO) and Cleanup and Abatement Orders (CAO). This list contains many CDOs and CAOs that do NOT concern the discharge of wastes that are hazardous materials. Many of the listed orders concern, as examples, discharges of domestic sewage, food processing wastes, or sediment that do not contain hazardous materials, but the Water Boards' database does not distinguish between these types of orders.

Government Publication Date: Feb 28, 2012

Historical California Hazardous Material Incident Report System (CHMIRS):

HIST CHMIRS

A list of reported hazardous material incidents, spills, and releases from the California Hazardous Material Incident Report System (CHMIRS) prior to 1993. This list has been made available by the California Office of Emergency Services (OES). Government Publication Date: Jan 1, 1993

Historical Hazardous Waste Manifest Data:

HIST MANIFEST

Order No: 20160720091

A list of historic hazardous waste manifests received by the Department of Toxic Substances Control (DTSC) from year the 1980 to 1992. The volume of manifests is typically 900,000 - 1,000,000 annually, representing approximately 450,000 - 500,000 shipments.

Government Publication Date: Dec 31, 1992

Tribal

No Tribal additional environmental record sources available for this State.

County

Los Angeles County Site Mitigation List:

LA SML

A Site Mitigation List in the County of Los Angeles. The list is made available by Los Angeles County Fire Department. Site mitigation is handled by the Site Mitigation Unit (SMU) which facilitates completion of site clean-up projects of contaminated sites in an expeditious manner in all cities of the Los Angeles County except El Segundo, Glendale, Long Beach, Santa Fe Springs, and Vernon.

Government Publication Date: Jun 23, 2015

Riverside County Disclosure Facility List:

RIVERSIDE HZH

A list of facilities disclosed to Riverside County Department of Environmental Health (DEH). This list is made available by Riverside County DEH which has been designated as the CUPA for the County. A business is required to establish and submit a Business Plan if the facility handles hazardous material equal to or greater than 55 gallons, 500 pounds or 200 cubic feet at any time during the year.

Government Publication Date: Feb 17, 2016

Riverside County Hazardous Waste Generator Sites List:

RIVERSIDE HWG

A list of Hazardous Waste Generator Sites in the County of Riverside. This list is made available by Riverside County Department of Environmental Health which has been designated as the CUPA for the County.

Government Publication Date: Feb 17, 2016

San Joaquin County Hazardous Materials Facilities List:

SANJOAQUIN HM

A list of Hazardous Materials Facilities in San Joaquin County. This list is made available by San Joaquin County Environmental Health Department which has been designated as the CUPA for the County.

Government Publication Date: May 04, 2016

Ventura County Hazardous Material Release (Prop 65) Sites:

VENTURA HAZR

A historic list of hazardous material releases from the Hazardous Material Release Report collected by the Environmental Health Division of Ventura County. As per the department this report contains records from 1987 to 2014.

Government Publication Date: 1987 - 2014

Ventura County Inactive Hazardous Waste Sites:

HW INACTIVE

A list of Inactive Hazardous Waste Sites in Ventura County collected by Ventura County's Environmental Health Division. *Government Publication Date: Jun 26, 2015*

Delisted County Records:

DELISTED COUNTY

Order No: 20160720091

Records removed from county or CUPA databases. Records may be removed from the county lists made available by the respective county departments because they are inactive, or because they have been deemed to be below reportable thresholds.

Government Publication Date: May 24, 2016

Definitions

<u>Database Descriptions:</u> This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

<u>Detail Report</u>. This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

<u>Distance:</u> The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries". All values are an approximation.

<u>Direction:</u> The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

<u>Map Key:</u> The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Order No: 20160720091

<u>Unplottables:</u> These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and were included as reference.



Physical Setting Report - PSR

Order No: 20160720091p

Property Information

Order Number: 20160720091p

Project Number: 1125388

Project Property: Borstein Phase I ESA

4570 Francis Avenue Chino CA

Coordinates:

Latitude: 34.041736 Longitude: -117.704227

UTM Northing: 3767007.18089 Meters
UTM Easting: 434997.38695 Meters
UTM Zone: UTM Zone 11S

Elevation: 837.92 ft

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Hvdrologic Information	4
Topographic InformationHydrologic InformationGeologic Information	7
Soil Information	9
Wells and Additional Sources	12
Summary	
Detail Report	14
Radon Information	18
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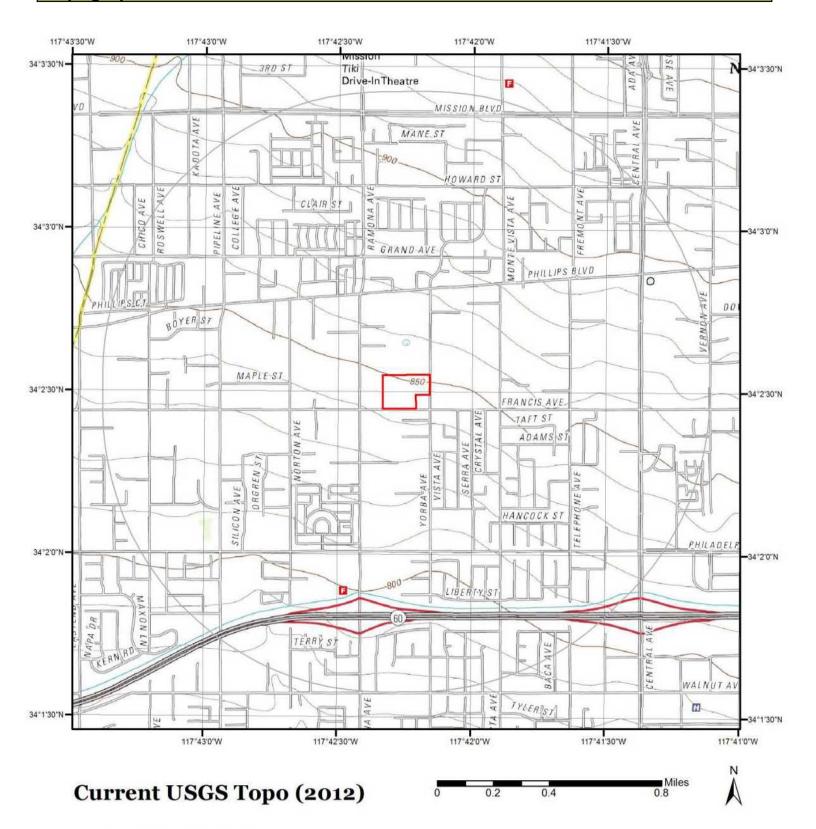
The ERIS *Physical Setting Report - PSR* provides comprehensive information about the physical setting around a site and includes a complete overview of topography and surface topology, in addition to hydrologic, geologic and soil characteristics. The location and detailed attributes of oil and gas wells, water wells, public water systems and radon are also included for review.

The compilation of both physical characteristics of a site and additional attribute data is useful in assessing the impact of migration of contaminants and subsequent impact on soils and groundwater.

Disclaimer

This Report does not provide a full environmental evaluation for the site or adjacent properties. Please see the terms and disclaimer at the end of the Report for greater detail.

Topographic Information



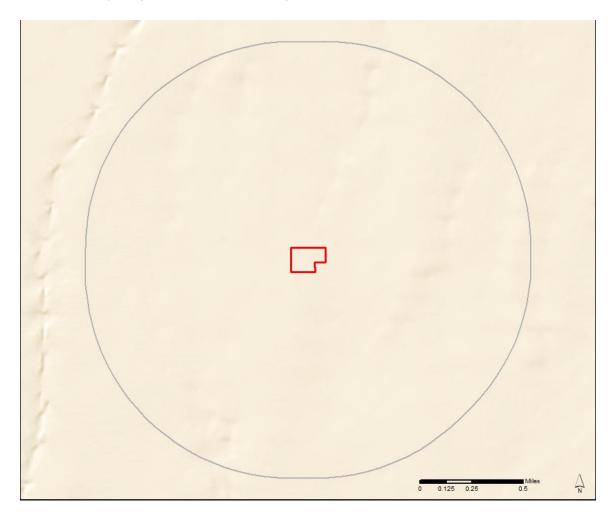
Quadrangle(s): Ontario,CA

Source: USGS 7.5 Minute Topographic Map



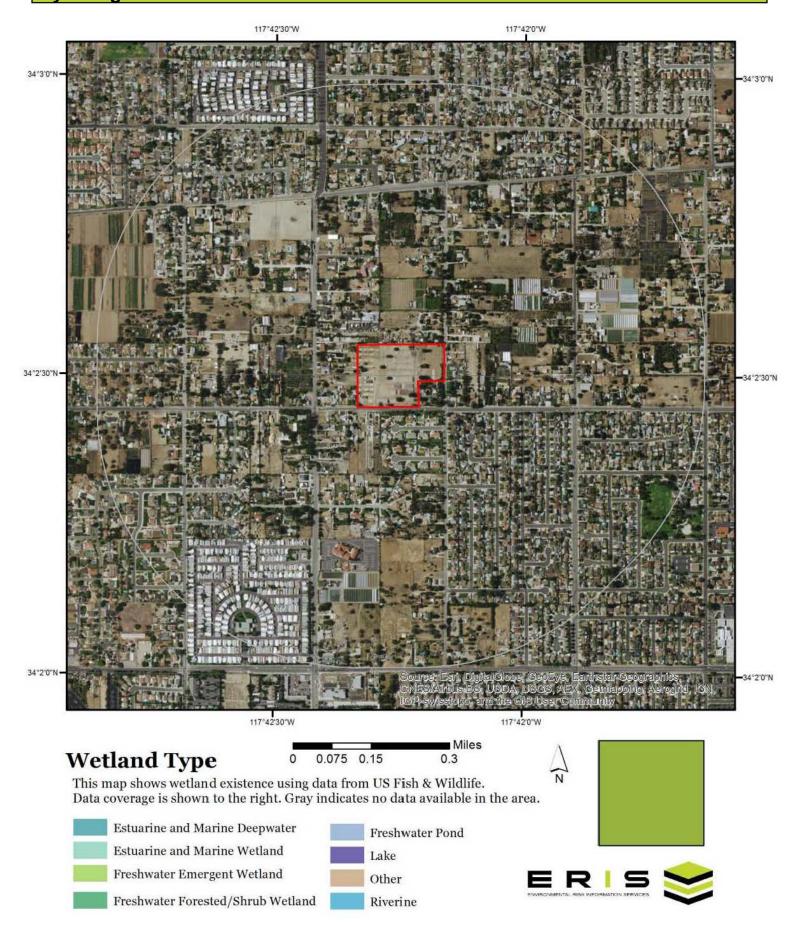
Topographic Information

The previous page shows a topographic map, seamlessly merged from USGS 7.5 min current topographic maps. Below is a shaded relief map to show surrounding topography in further detail using USGS data.

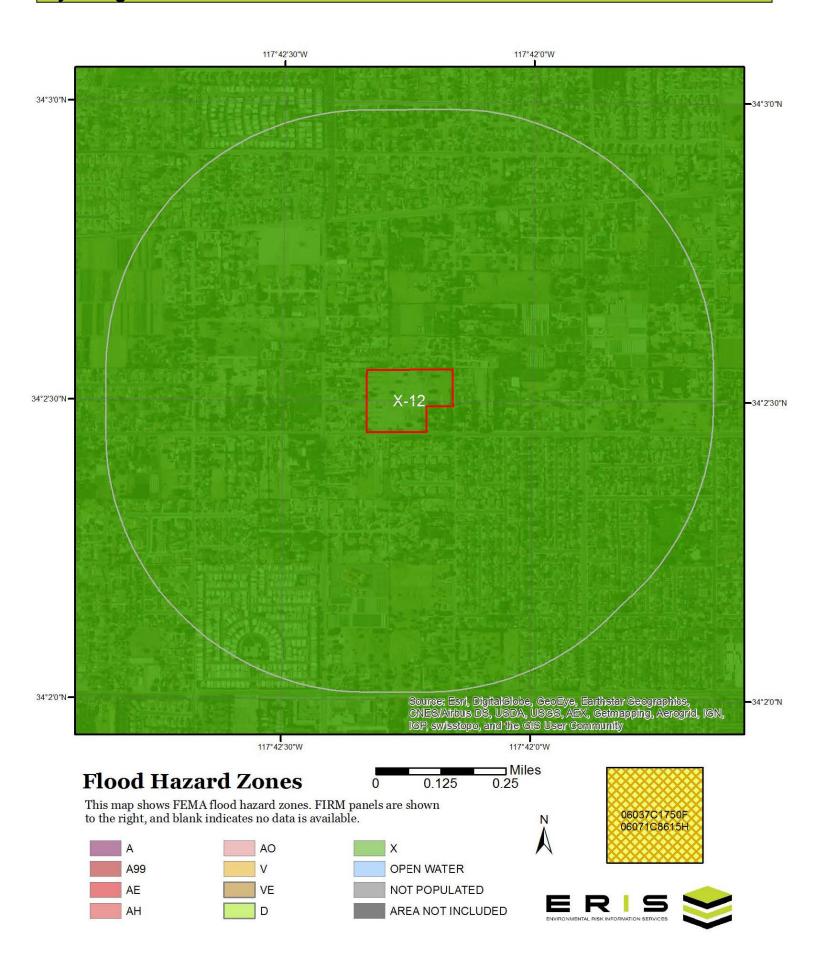


Order No: 20160720091p

Hydrologic Information



Hydrologic Information



Hydrologic Information

The Wetland Type map shows wetland existence overlaid on an aerial imagery. The Flood Hazard Zones map shows FEMA flood hazard zones overlaid on an aerial imagery. Relevant FIRM panels and detailed zone information is provided below.

Available FIRM Panels in area:

06071C8615H(effective:2008-08-28) 06037C1750F(effective:2008-09-26)

Order No: 20160720091p

Flood Zone X-12

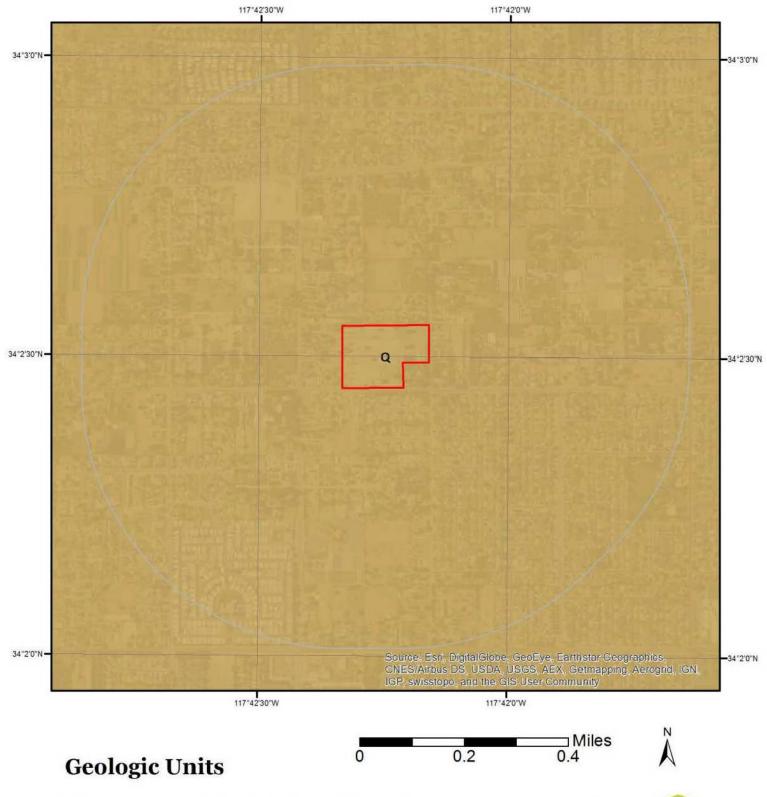
Zone:

Χ

Zone subtye:

AREA OF MINIMAL FLOOD HAZARD

Geologic Information



This maps shows geologic units in the area. Please refer to the report for detailed descriptions.





Geologic Information

The previous page shows USGS geology information. Detailed information about each unit is provided below.

Geologic Unit Q

Unit Name: Quaternary alluvium and marine deposits

Unit Age: Pliocene to Holocene

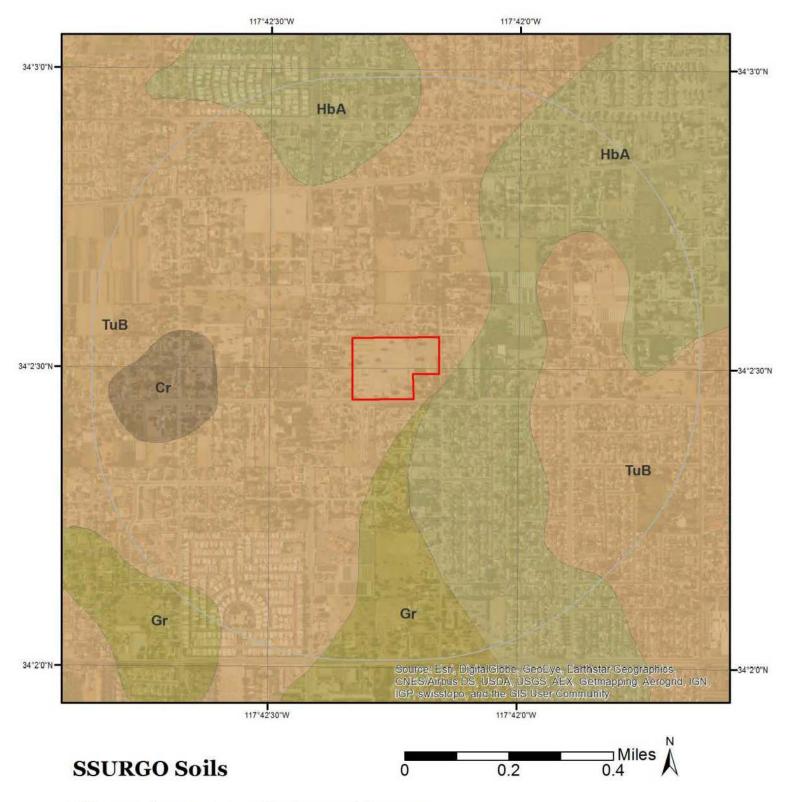
Primary Rock Type: alluvium
Secondary Rock Type: terrace

Unit Description: Alluvium, lake, playa, and terrace deposits; unconsolidated and semi-

consolidated. Mostly nonmarine, but includes marine deposits near the coast.

Order No: 20160720091p

Soil Information



This maps shows SSURGO soil units around the target property. Please refer to the report for detailed soil descriptions.



Soil Information

The previous page shows a soil map using SSURGO data from USDA Natural Resources Conservation Service. Detailed information about each unit is provided below.

Map Unit Cr

Map Unit Name: Cieneba-Rock outcrop complex

Bedrock Depth - Min: 36cm
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Somewhat excessively drained

Hydrologic Group - Dominant: D - Soils in this group have high runoff potential when thoroughly wet. Water

movement through the soil is restricted or very restricted.

Major components are printed below

Cieneba(60%)

horizon H1(0cm to 20cm)

Sandy loam

horizon H2(20cm to 36cm)

Sandy loam

horizon H3(36cm to 46cm) Weathered bedrock

Map Unit Gr

Map Unit Name: Grangeville fine sandy loam

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Somewhat poorly drained

Hydrologic Group - Dominant: A - Soils in this group have low runoff potential when thoroughly wet. Water is

transmitted freely through the soil.

Major components are printed below

Grangeville(85%)

horizon H1(0cm to 30cm) Fine sandy loam horizon H2(30cm to 152cm) Fine sandy loam

horizon H2(30cm to 152cm)

Loam

horizon H2(30cm to 152cm)

Sandy loam

Map Unit HbA

Map Unit Name: Hanford sandy loam, 0 to 2 percent slopes

Bedrock Depth - Min: null Watertable Depth - Annual Min: null

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: A - Soils in this group have low runoff potential when thoroughly wet. Water is

transmitted freely through the soil.

Order No: 20160720091p

Major components are printed below

Hanford(85%)

horizon H1(0cm to 30cm) Sandy loam

horizon H2(30cm to 152cm)

Coarse sandy loam

horizon H2(30cm to 152cm)

Fine sandy loam

horizon H2(30cm to 152cm)

Sandy loam

Soil Information

Map Unit TuB

Map Unit Name: Tujunga loamy sand, 0 to 5 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Somewhat excessively drained

Hydrologic Group - Dominant: A - Soils in this group have low runoff potential when thoroughly wet. Water is

transmitted freely through the soil.

Major components are printed below

Tujunga(85%)

horizon A(0cm to 15cm)

Loamy sand
horizon C1(15cm to 46cm)

Loamy sand
horizon C2(46cm to 152cm)

Loamy sand

Tujunga(85%)

horizon A(0cm to 15cm)

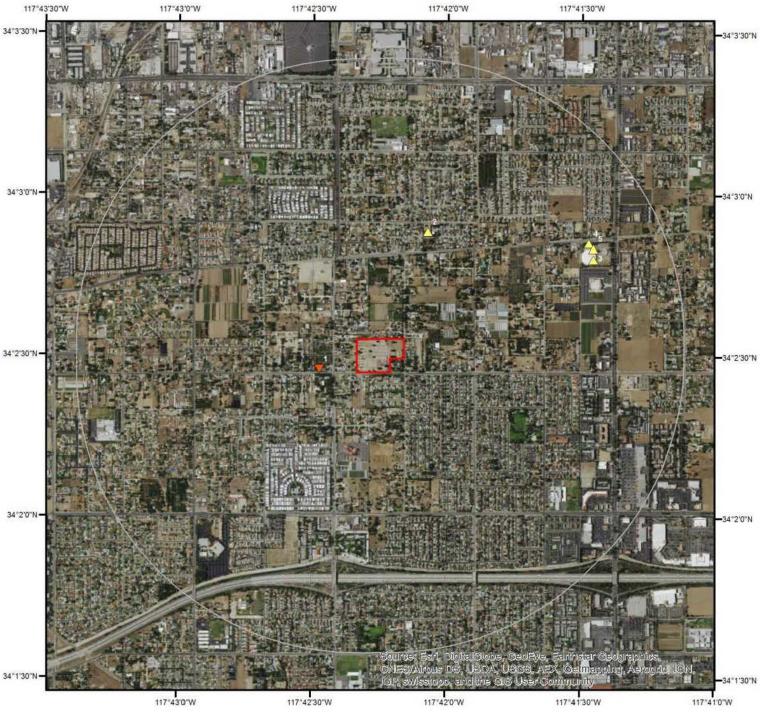
horizon C1(15cm to 46cm)

horizon C2(46cm to 152cm)

Loamy sand

Loamy sand

Wells and Additional Sources



Wells & Additional Sources

Miles 0 0.15 0.3 0.6

- △ Sites with Higher Elevation
- Sites with Same Elevation
- ▼ Sites with Lower Elevation
- Sites with Unknown Elevation



Wells and Additional Sources Summary

Federal Sources

Map Key ID Distance (ft) Direction

No records found

Safe Drinking Water Information System (SDWIS)

Map Key ID Distance (ft) Direction

No records found

USGS National Water Information System

Map Key	Monitoring Loc Identifier	Distance (ft)	Direction	
2	USGS-340253117420101	2.057.33	NNE	
3	USGS-340248117412401	3,865.88	ENE	
4	USGS-340251117412501	3,918.61	ENE	
5	USGS-340250117412401	3,948.81	ENE	

State Sources

Oil and Gas Wells

Map Key	All Well Key	Distance (ft)	Direction
1	91279	714.68	WSW

Public Water Supply Wells

Map Key ID Distance (ft) Direction

No records found

Water Wells

Map Key ID Distance (ft) Direction

No records found

Well Investigation Program Case List

Map Key ID Distance (ft) Direction

No records found

Wells and Additional Sources Detail Report

USGS National Water Information System

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
2	NNE	0.39	2,057.33	873.70	FED USGS

Organiz Identifier: USGS-CA

Organiz Name: USGS California Water Science

Center

Well Depth: 1000

Well Hole Depth: W Hole Depth Unit:

Construction Date:

Aquifer Type:

Source Map Scale: 24000

Monitoring Loc Identifier: USGS-340253117420101
Monitoring Loc Name: 001S008W34A001S

Monitoring Loc Type: Well

Monitoring Loc Desc:

HUC Eight Digit Code: 18070203

Drainage Area:
Drainage Area Unit:
Contrib Drainage Area:
Contrib Drainage Area

Unit:

Horizontal Accuracy: 1

Horizontal Accuracy Unit: seconds

Horizontal Collection

Mthd:

Horiz Coord Refer

System:

Vertical Measure:
Vertical Measure Unit:
Vertical Accuracy:
Vertical Accuracy Unit:
Vertical Collection Mthd:

Vert Coord Refer System:

Formation Type:

Aquifer Name: California Coastal Basin aquifers

Well Depth Unit: ft
Country Code: US
Provider Name: NWIS

County: SAN BERNARDINO

Latitude: 34.0480668 Longitude: -117.7011667

Map Key	Direction	n Distance (mi)	Distance (ft)	Elevation (ft)	DB
3	ENE	0.73	3,865.88	880.91	FED USGS
Organiz Identifier: USGS-CA		Formation Type:			
Organiz Name: USGS California Water Science Center		Aquifer Name:	California Coastal Basin aquifers		
		-		_	

Well Depth:463Well Depth Unit:ftWell Hole Depth:463Country Code:USW Hole Depth Unit:ftProvider Name:NWIS

Interpolated from map

NAD83

Wells and Additional Sources Detail Report

SAN BERNARDINO Construction Date: County:

Aquifer Type: Latitude: 34.046678 Source Map Scale: 24000 Longitude: -117.6908886

Monitoring Loc Identifier: USGS-340248117412401 001S008W35C001S Monitoring Loc Name:

Monitoring Loc Type: Well

Monitoring Loc Desc:

HUC Eight Digit Code: 18070203

Drainage Area: Drainage Area Unit: Contrib Drainage Area: Contrib Drainage Area

Unit:

Horizontal Accuracy:

Horizontal Accuracy Unit: seconds

Horizontal Collection

Horiz Coord Refer

Mthd:

Interpolated from map

NAD83

System:

Vertical Measure: Vertical Measure Unit: Vertical Accuracy: Vertical Accuracy Unit: Vertical Collection Mthd:

Vert Coord Refer System:

Elevation (ft) Map Key Direction Distance (mi) Distance (ft) DB 4 **ENE** 0.74 3,918.61 886.74 **FED USGS**

USGS-CA Organiz Identifier:

Organiz Name: USGS California Water Science

Center

Well Depth: 404 404 Well Hole Depth: W Hole Depth Unit: ft

Construction Date: Aquifer Type:

Source Map Scale: 24000

Monitoring Loc Identifier: USGS-340251117412501 Monitoring Loc Name: 001S008W35C004S

Monitoring Loc Type: Well

Monitoring Loc Desc:

HUC Eight Digit Code: 18070203

Drainage Area: Drainage Area Unit: Contrib Drainage Area: Contrib Drainage Area

Formation Type:

Aquifer Name: California Coastal Basin aquifers

Order No: 20160720091p

Well Depth Unit: ft Country Code: US Provider Name: **NWIS**

County: SAN BERNARDINO

Latitude: 34.0475113 Longitude: -117.6911664

Wells and Additional Sources Detail Report

NAD83

Unit:

Horizontal Accuracy: 1

Horizontal Accuracy Unit: seconds

Horizontal Collection

Mthd:

Interpolated from map

Horiz Coord Refer

System: Vertical Measure: Vertical Measure Unit: Vertical Accuracy:

Vertical Accuracy Unit: Vertical Collection Mthd:

Vert Coord Refer System:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
5	ENE	0.75	3,948.81	882.19	FED USGS

Organiz Identifier: USGS-CA

Organiz Name: USGS California Water Science

Center

Well Depth: 1150
Well Hole Depth: 1150
W Hole Depth Unit: ft

Construction Date:

Aquifer Type:

Source Map Scale: 24000

Monitoring Loc Identifier: USGS-340250117412401
Monitoring Loc Name: 001S008W35C005S

Well

Monitoring Loc Type:

Monitoring Loc Desc:

HUC Eight Digit Code: 18070203

Drainage Area:
Drainage Area Unit:
Contrib Drainage Area:
Contrib Drainage Area

Unit:

Horizontal Accuracy: 1

Horizontal Accuracy Unit: seconds

Horizontal Collection

Mthd:

Horiz Coord Refer NAD83

System:

Vertical Measure: Vertical Measure Unit:

Vertical Accuracy:
Vertical Accuracy Unit:

Vertical Collection Mthd:

Vert Coord Refer System:

Formation Type:

Aquifer Name: California Coastal Basin aquifers

Order No: 20160720091p

Well Depth Unit: ft
Country Code: US
Provider Name: NWIS

County: SAN BERNARDINO

Latitude: 34.0472336 Longitude: -117.6908886

Interpolated from map

Wells and Additional Sources Detail Report

Oil and Gas Wells

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
1	WSW	0.14	714.68	829.96	OGW
All Well Key:	9127	9	Lat27:	0.0000000000	
API No:	0710	0017	Long27:	0.0000000000	
Well No:	1		Lat83:	34.04095500000	
Well Status:	В		Long83:	-117.70788700000	
Well Symbol:	AP		Source83:	HUD	
Well Type:	OG		County APIC:	071	
Release Date:			County Name:	San Bernardino	
Spud Date:			Confidenti:		
ABD Date:			Field Code:	000	
Comp Date:			Field Name:	Any Field	
District:	1		Area Code:	00	
Geo District:	0		Area Name:	Any Area	
Operator Code:	0054	0	Township Se:	34	
Operator Name:	В&С	Development Co.	Township:	01S	
Operator St:	1		Range:	08W	
Directiona:	N		Base Meridi:	SB	
Redrill:			Object ID:	31026	
Lease Name:	Bruce	e			
Source83 Desc:	Head	s Up Digitized - Coordin	ates generated from scanne	d, geo-referenced, static scale, M	ylar maps
Well Stat Desc:	Burie	d			
Well Sym Desc:	AP				
Well Type Desc:	Oil &	Gas			

Order No: 20160720091p

Radon Information

This section lists any relevant radon information found for the target property.

Federal EPA Radon Zone for SAN BERNARDINO County: 2

- Zone 1: Counties with predicted average indoor radon screening levels greater than 4 pCi/L
- Zone 2: Counties with predicted average indoor radon screening levels from 2 to 4 pCi/L
- Zone 3: Counties with predicted average indoor radon screening levels less than 2 pCi/L

Federal Area Radon Information for SAN BERNARDINO County

No Measures/Homes: 17 Geometric Mean: 0.5 Arithmetic Mean: 0.7 Median: 0.7 Standard Deviation: Maximum: 2.9 % >4 pCi/L: 0 % >20 pCi/L: 0

TABLE 1. Screening indoor Notes on Data Table:

radon data from the EPA/State Residential Radon Survey of California conducted during 1989-90. Data represent 2-7

day charcoal canister

measurements from the lowest level of each home tested.

Order No: 20160720091p

Federal Sources

FEMA National Flood Hazard Layer

FEMA FLOOD

The National Flood Hazard Layer (NFHL) data incorporates Flood Insurance Rate Map (FIRM) databases published by the Federal Emergency Management Agency (FEMA), and any Letters Of Map Revision (LOMRs) that have been issued against those databases since their publication date. The FIRM Database is the digital, geospatial version of the flood hazard information shown on the published paper FIRMs. The FIRM Database depicts flood risk information and supporting data used to develop the risk data. The FIRM Database is derived from Flood Insurance Studies (FISs), previously published FIRMs, flood hazard analyses performed in support of the FISs and FIRMs, and new mapping data, where available.

Indoor Radon Data INDOOR RADON

Indoor radon measurements tracked by the Environmental Protection Agency(EPA) and the State Residential Radon Survey.

Public Water Systems Violations and Enforcement Data

PWSV

List of drinking water violations and enforcement actions from the Safe Drinking Water Information System (SDWIS) made available by the Drinking Water Protection Division of the US EPA's Office of Groundwater and Drinking Water. Enforcement sensitive actions are not included in the data released by the EPA. Address information provided in SWDIS may correspond either with the physical location of the water system, or with a contact address.

RADON ZONE

Areas showing the level of Radon Zones (level 1, 2 or 3) by county. This data is maintained by the Environmental Protection Agency (EPA).

Safe Drinking Water Information System (SDWIS)

SDWIS

The Safe Drinking Water Information System (SDWIS) contains information about public water systems as reported to US Environmental Protection Agency (EPA) by the states. Addresses may correspond with the location of the water system, or with a contact address.

Soil Survey Geographic database

SSURGO

The Soil Survey Geographic database (SSURGO) contains information about soil as collected by the National Cooperative Soil Survey at the Natural Resources Conservation Service (NRCS). Soil maps outline areas called map units. The map units are linked to soil properties in a database. Each map unit may contain one to three major components and some minor components.

U.S. Fish & Wildlife Service Wetland Data

US WETLAND

The U.S. Fish & Wildlife Service Wetland layer represents the approximate location and type of wetlands and deepwater habitats in the United States.

USGS Current Topo US TOPO

US Topo topographic maps are produced by the National Geospatial Program of the U.S. Geological Survey (USGS). The project was launched in late 2009, and the term "US Topo" refers specifically to quadrangle topographic maps published in 2009 and later.

<u>USGS Geology</u> US GEOLOGY

Seamless maps depicting geological information provided by the United States Geological Survey (USGS).

USGS National Water Information System

FED USGS

The U.S. Geological Survey (USGS)'s National Water Information System (NWIS) is the nation's principal repository of water resources data. This database includes comprehensive information of well-construction details, time-series data for gage height, streamflow, groundwater level, and precipitation and water use data.

State Sources

Oil and Gas Wells OGW

A list of Oil and Gas well locations. This is provided by California's Department of Conservation Division of

Appendix

Oil, Gas and Geothermal Resources.

Public Water Supply Wells PWSW

List of community water supply wells in California. This data was made available by California Department of Water Resources, Division of Statewide Integrated Water Management, who indicates that the management of the data in an ongoing project, and some county data is not represented. Location information is provided using the Public Land Survey System (PLSS) and is subject to the accuracy limitations inherent to the PLSS system.

Water Wells WATER WELLS

A list of water wells maintained by the Department of Water Resources (DWR) Water Data Library.

Well Investigation Program Case List

WIP

Order No: 20160720091p

The Well Investigation Program (WIP) was developed by the State Water Resources Control Board (SWRCB) to locate, assess and remediate sources of solvent contamination impacting drinking water wells. This list contains WIP cases (active and historical) for the San Gabriel and San Fernando Valley area and was provided by the Los Angeles Regional Water Quality Control Board.

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Order No: 20160720091p



FIRE INSURANCE MAP RESEARCH RESULTS

Date: 2016-07-22

Order Number:20160720091 4570 Francis Avenue, Chino, CA

ERIS has searched our in-house collection of close to 1 million Fire Insurance Maps for the address at 4570 Francis Avenue, Chino, CA.

Please note that no information was found for your site or adjacent properties.

If you have any questions regarding the enclosed information, please do not hesitate to contact us.

Individual Fire Insurance Maps for the subject property and/or adjacent sites are included with the ERIS environmental database report to be used for research purposes only and cannot be resold for any other commercial uses other than for use in a Phase I environmental assessment.

Address: 38 Lesmill Road Unit 2, Toronto, ON M3B 2T5

Phone: 416-510-5204 Fax: 416-510-5133 info@erisinfo.com www.erisinfo.com



TOPOGRAPHIC MAP RESEARCH RESULTS

Date: 2016-07-21

Project Property: 4570 Francis Avenue, Chino, CA

ERIS Order Number: 20160720091

We have searched USGS collections of current topographic maps and historical topographic maps for the project property. Below is a list of maps found for the project property and adjacent area. Maps are from 7.5 and 15 minute topographic map series, if available.

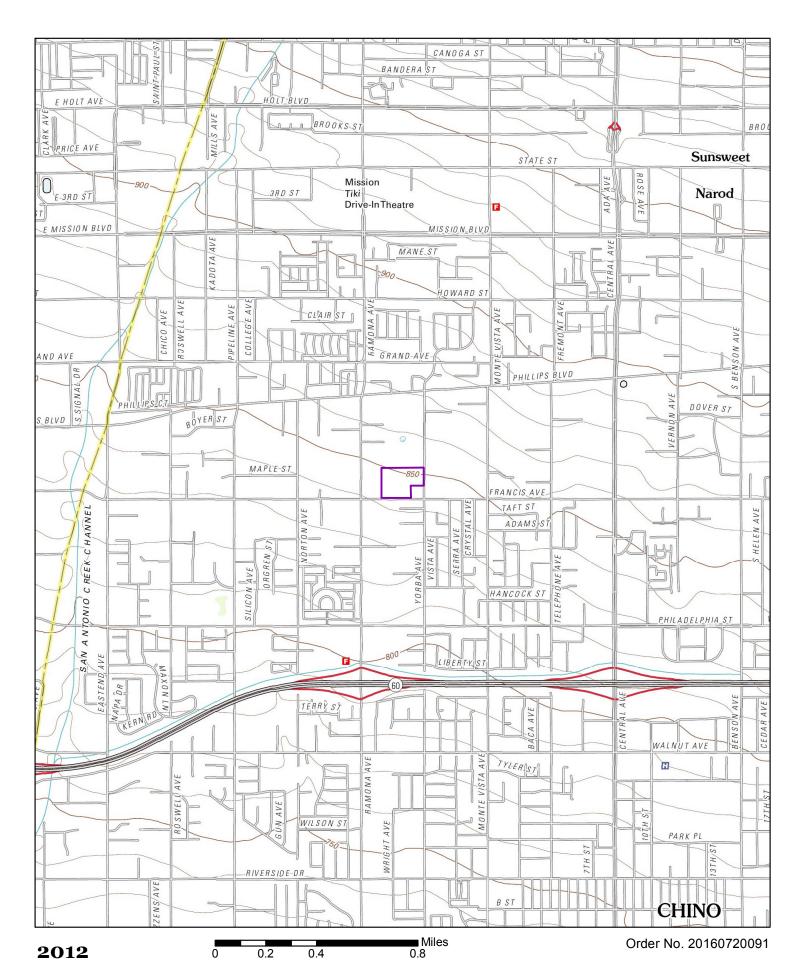
Year	Map Series
2012	7.5
1981	7.5
1973	7.5
1967	7.5
1954	7.5
1942	7.5
1933	7.5
1928	7.5
1954	15
1903	15
1900	15
1897	15

Topographic Maps included in this report are produced by the USGS and are to be used for research purposes including a phase I report. Maps are not to be resold as commercial property.

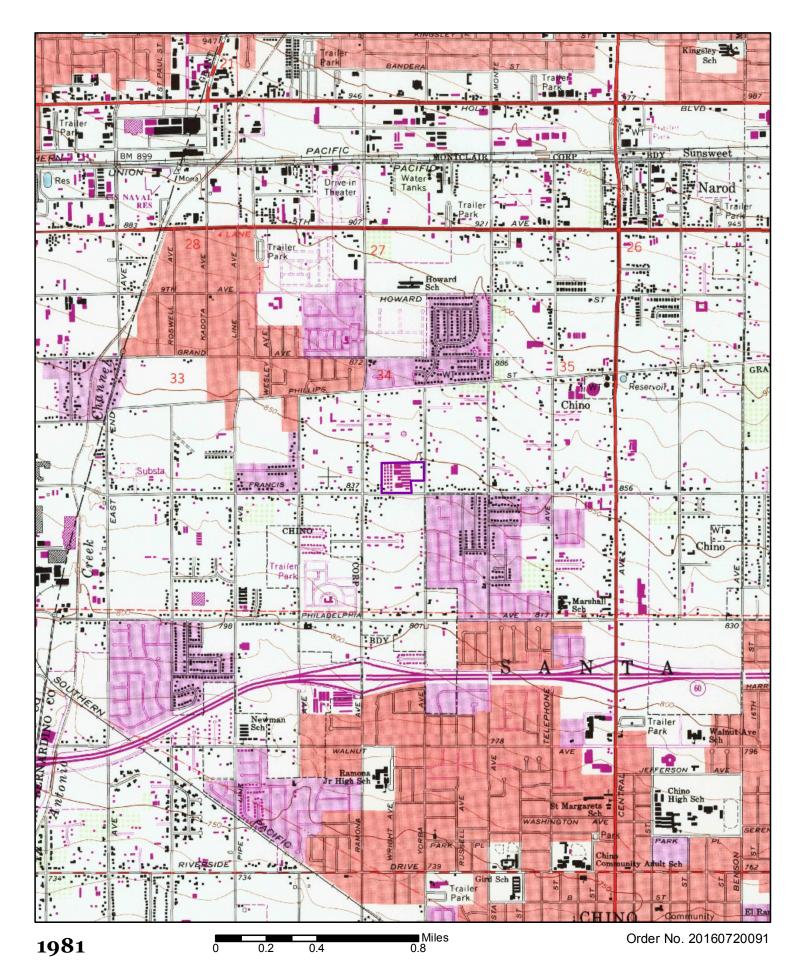
No warranty of Accuracy or Liability for ERIS: The information contained in this report has been produced by EcoLog Environmental Risk Information Services Ltd ("ERIS") using Topographic Maps produced by the USGS. This maps contained herein does not purport to be and does not constitute a guarantee of the accuracy of the information contained herein. Although ERIS has endeavored to present you with information that is accurate, EcoLog ERIS disclaims, any and all liability for any errors, omissions, or inaccuracies in such information and data, whether attributable to inadvertence, negligence or otherwise, and for any consequences arising therefrom. Liability on the part of EcoLog ERIS is limited to the monetary value paid for this report.

Address: 38 Lesmill Road Unit 2, Toronto, ON M3B 2T5

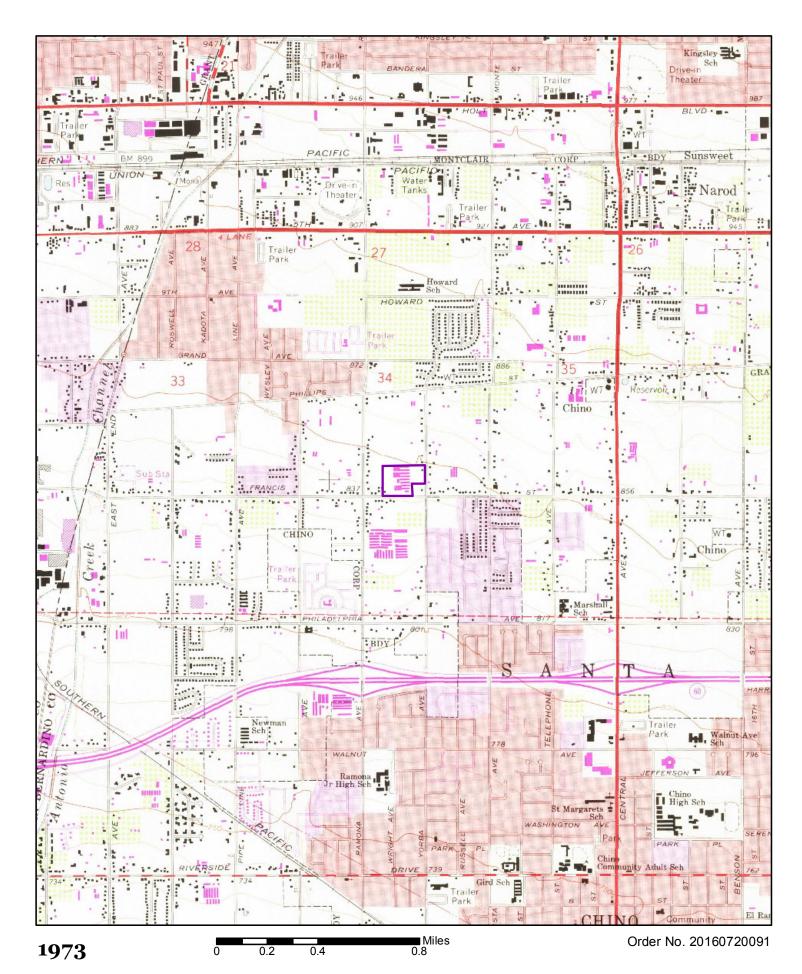
Phone: 416-510-5204 Fax: 416-510-5133 info@erisinfo.com www.erisinfo.com



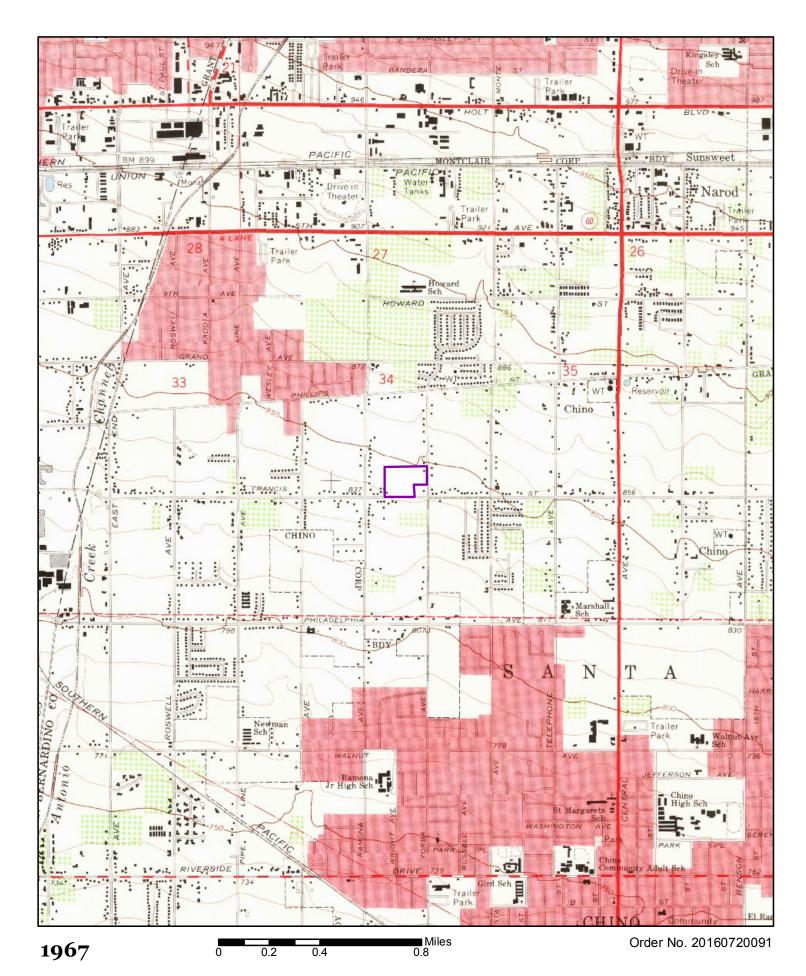




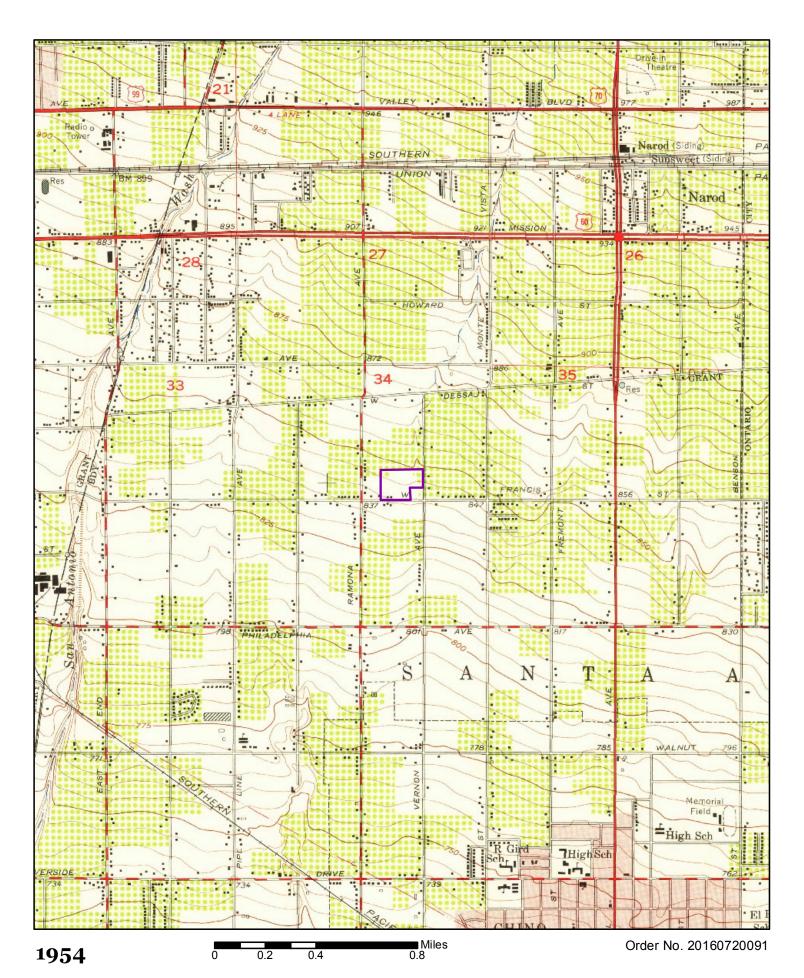




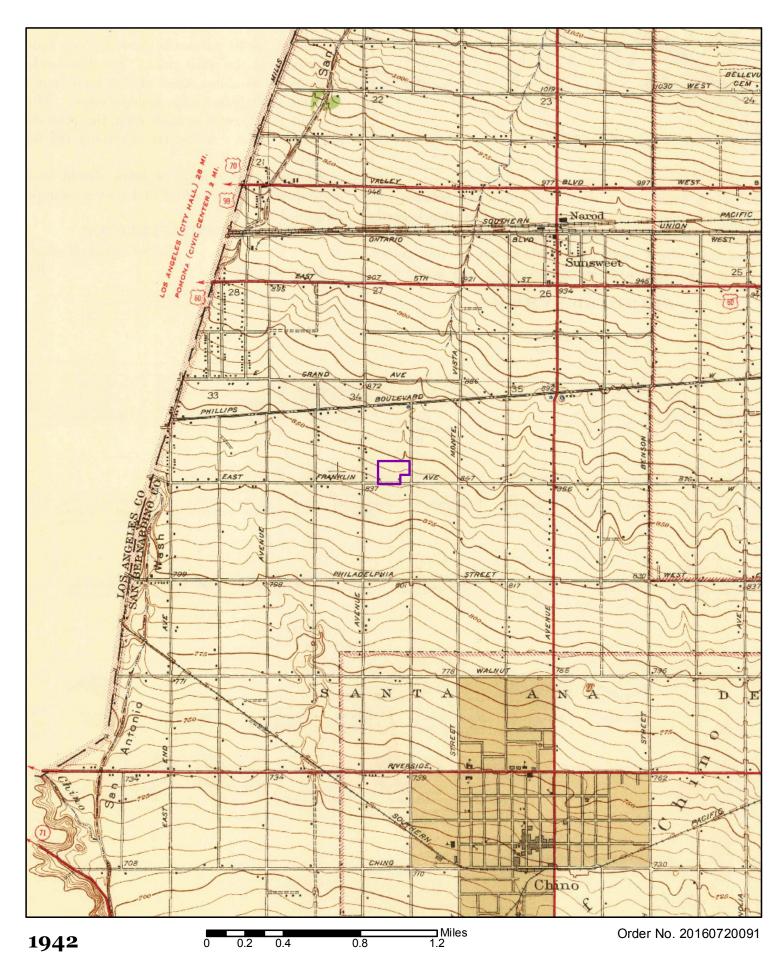






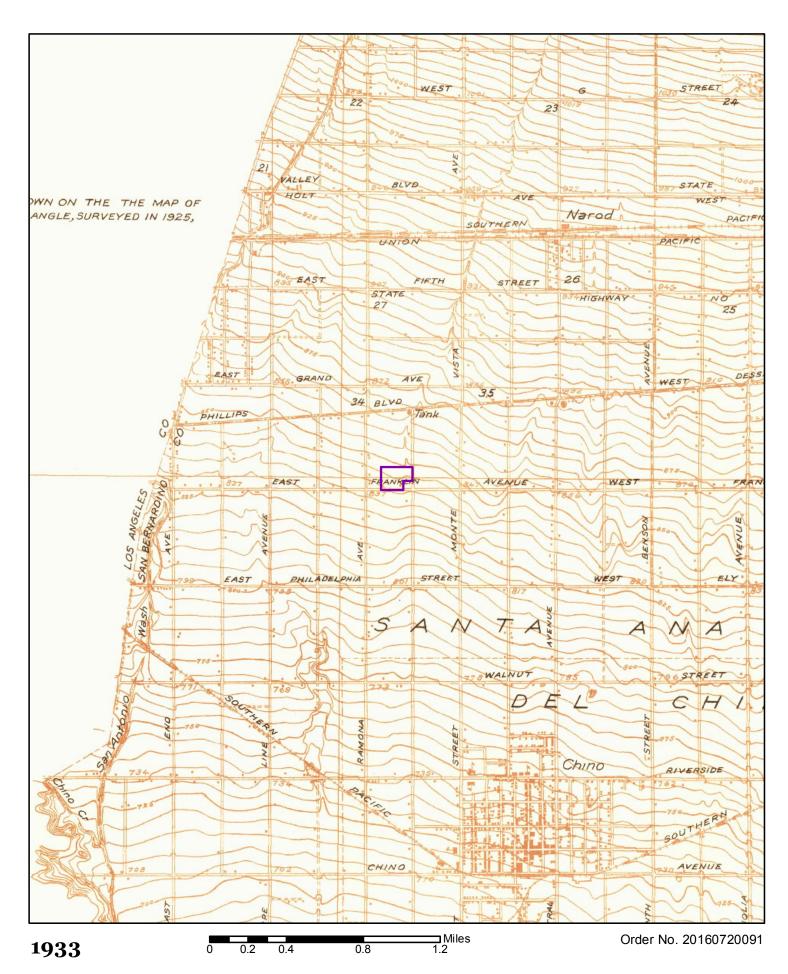




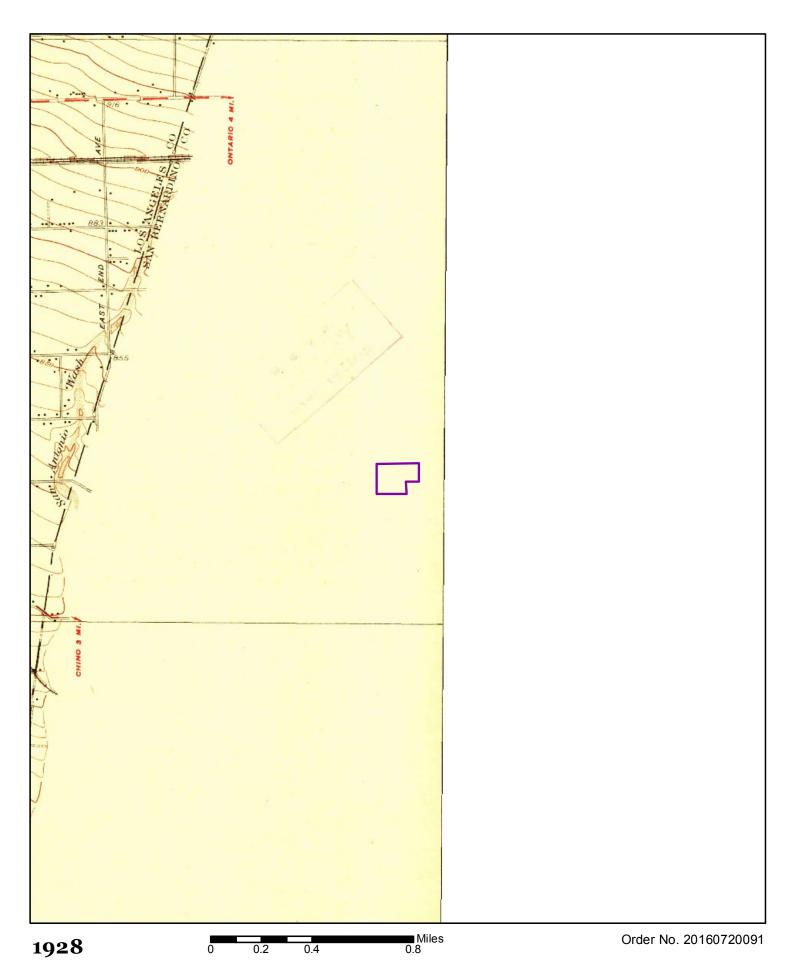


Quadrangle(s): Ontario and Vicinity,CA



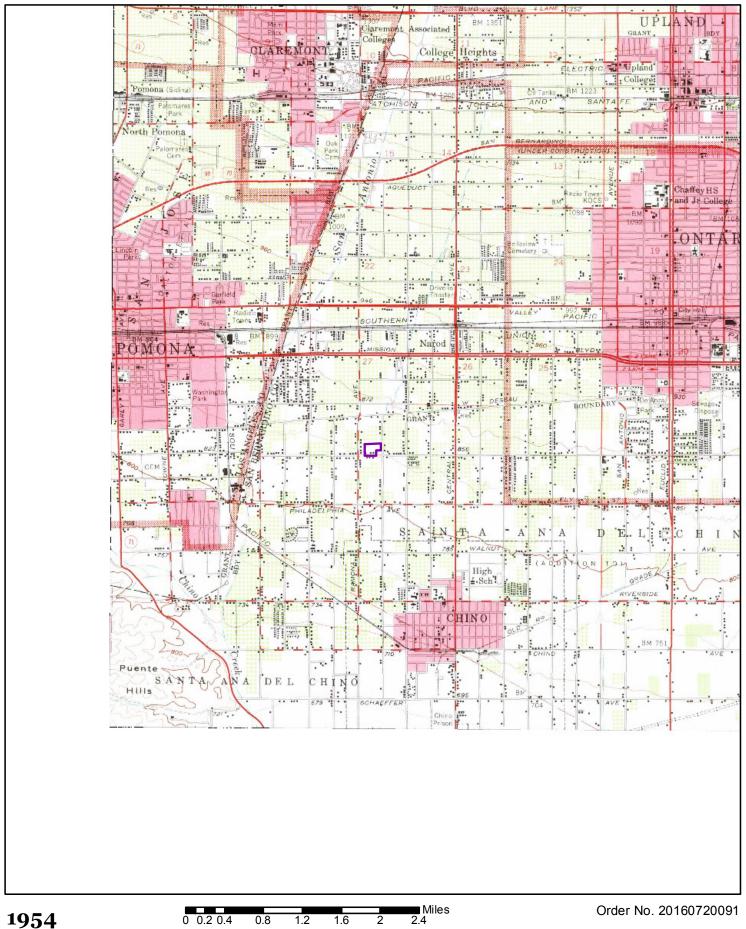






Quadrangle(s): Claremont,CA



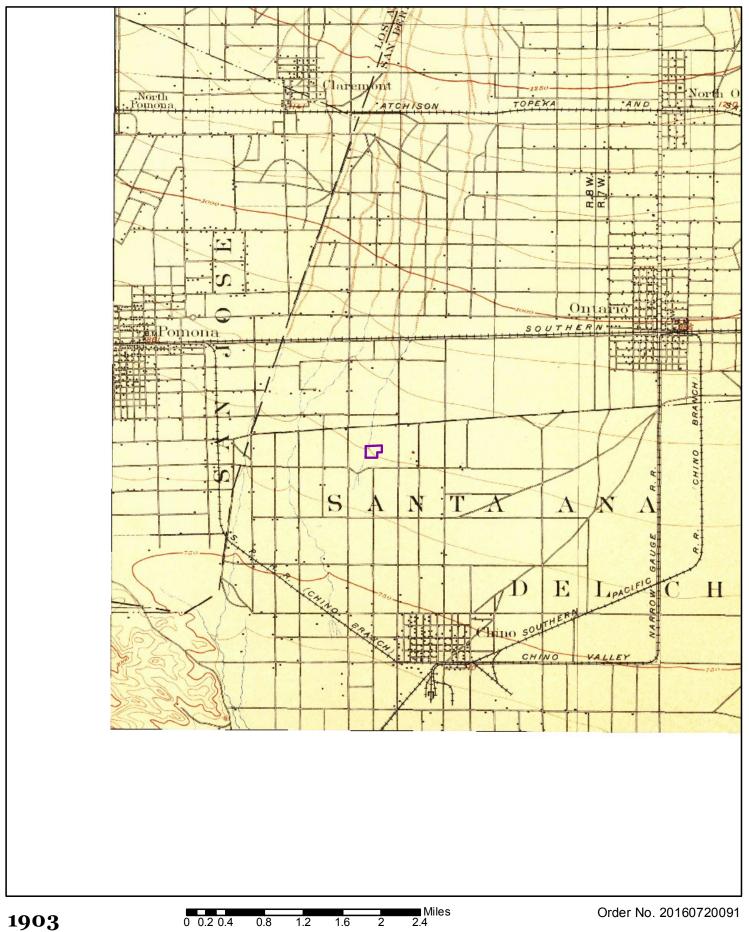


Source: USGS 15 Minute Topographic Map

0.8

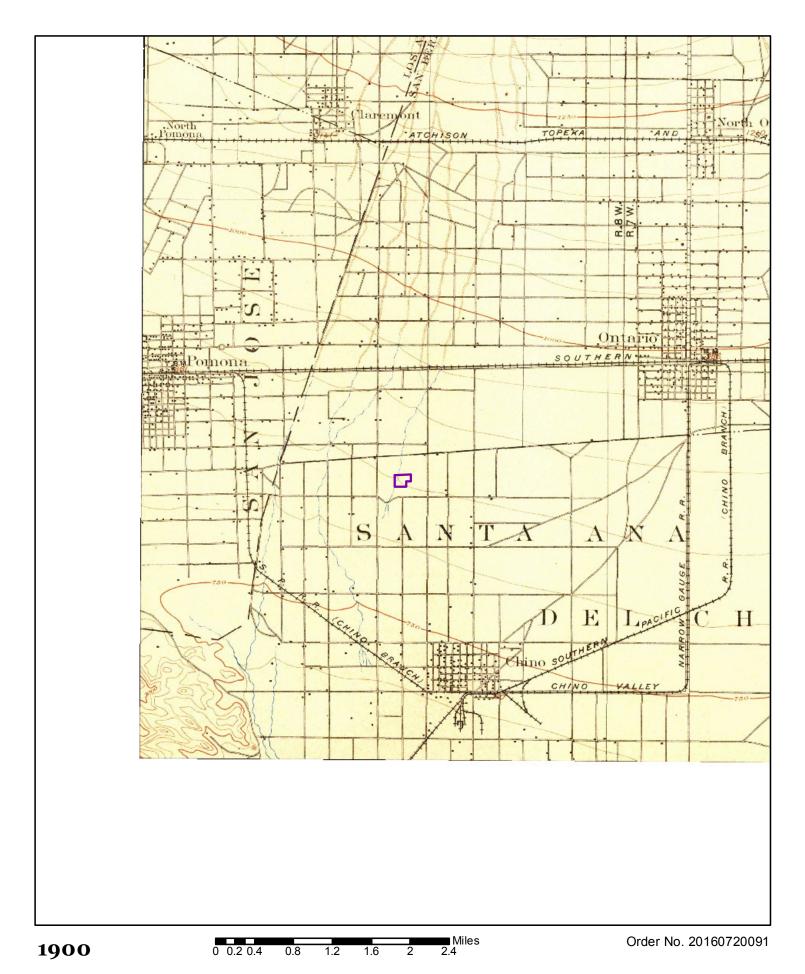
1.6





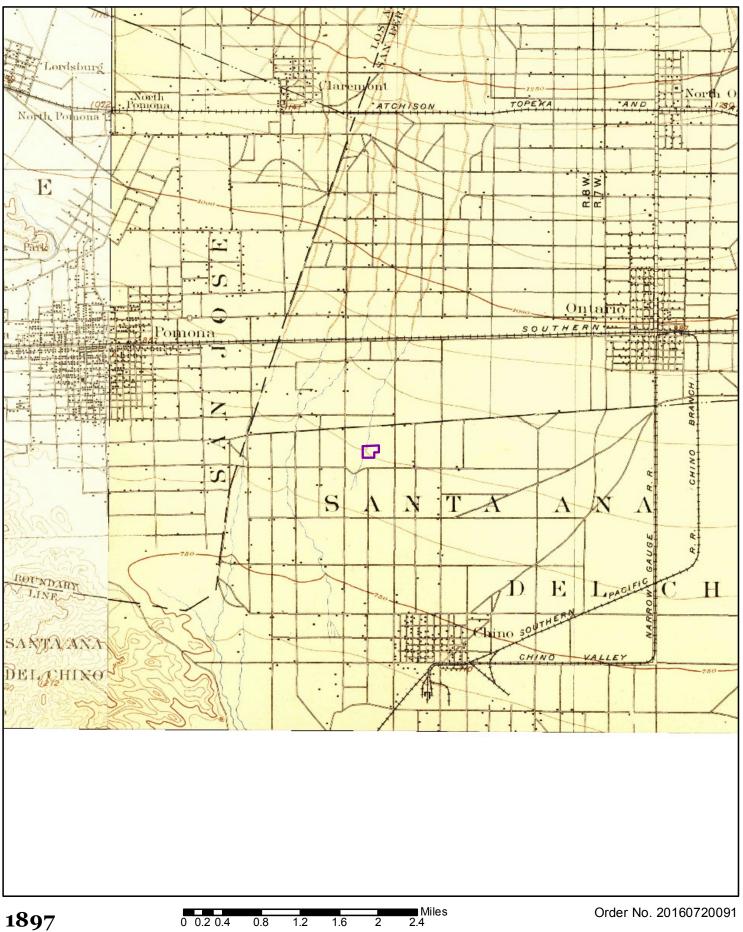
Quadrangle(s): Cucamonga,CA





Quadrangle(s): Cucamonga,CA





1.6

Quadrangle(s): Cucamonga,CA

Source: USGS 15 Minute Topographic Map



Order No. 20160720091

APPENDIX C – REGULATORY DOCUMENTATION



July 20, 2016

City of Chino 13220 Central Avenue Chino, CA 91710

Phone: (909) 334-3250

Re: Request to Review Public Records

To whom it may concern:

We are representing a client with interests in a property located in Chino, CA. We are preparing a Phase I ESA and request relevant environmental documents and permits that include: Building Permits, Site Inspection Records/Notice of Violations, Underground Storage Tanks, Hazardous Materials, Wastewater Discharge Permits, Solid Waste Disposal Permits, Well Installation information for the following property address:

• 4570 Francis Avenue, Chino, CA 91710

Please contact me if there are any or no records found. If there are any questions regarding this request, please call me directly at 805.551.8174. Thank you for your time and help.

Sincerely, Tetra Tech, Inc.

Tomoki Demers

Yomo Tros

Tomo.demers@tetratech.com

805.551.8174



Date: July 20, 2016

Santa Ana Regional Water Quality Control Board Attention: File Review Request 3737 Main Street, Suite 500 Riverside, California 92501-3348

Phone (951) 782-4499 Fax (951) 781-6288

E-mail: FileReview8@waterboards.ca.gov **Re**: Request to Review Public Records

We are representing a client with interests in a property located in City of Lake Forest (Foothill Ranch), California. We are pulling together a Phase I ESA and request relevant environmental documents and permits for the following property:

• 4570 Francis Avenue, Chino, CA 91710

The types of records we are concerned with pertain to underground storage tanks (USTs), hazardous materials, and spills, leaks, investigation and cleanup activities. We are also interested in any environmental liens, use limitations, or other institutional controls (i.e., deed restrictions, restrictive covenants, restrictive easements, or restrictive zoning). Lastly, we are also interested in records pertaining to any engineering controls at the Site, such as capping, slurry walls, or point of use water treatment.

Please contact me to let me know if any such records exist for the property. If there are any questions regarding this request, please call me directly at (949) 809-5037, or by replying to this email. Thank you for your time and assistance on this matter.

Sincerely, Tetra Tech, Inc.

Tomo Demers tomo.demers@tetratech.com 949.809.5037

Jomo Trot



Public Health Environmental Health Services www.SBCounty.gov www.SBCounty.gov/dph/dehs

REQUEST TO INSPECT/REPRODUCE PUBLIC RECORDS

Return to any of the following offices:

385 N. Arrowhead Ave. 2nd Floor, San Bernardino 92415-0160 15900 Smoke Tree St., Ste. 131, Hesperia 92345 8575 Haven Ave., Ste. 130, Rancho Cucamonga 91730

TO BE COMPLETED BY REQUESTER					
INFORMATION FOR RECORDS REQUESTED					
Facility Name: (Business or Apartment Complex name)					
Location Address:	City:	State	:	Zip:	
Case/File Number: (If known)	Inspector: (If known)				
Indicate time frame of information		ar or date of inspe	ection)		
From: To: From:	To:	From:	То):	
Specific information requested: (File, inspection report, complaint, etc.) NOTE: EACH REQUESTER AND/OR FILE MUST HAV PLEASE CALL (800) 442-2283.	'E A SEPARATE FORM	1 COMPLETED. FO	OR A L	IST REQUEST,	
	FEES				
Copy Fee: \$.10 Per Page					
Certified Copies: Additional \$.22 Per Page	TED INICODMATIO	,•			
	TER INFORMATIO	N			
Requester Name: (Include affiliation, i.e. business name, law office, owner, private citizen	, employee, etc.)				
Requester Address:	City:	State	:	Zip:	
E-mail Address: (Preferred method of delivery)		,			
Phone Number: (To notify when copies/files are ready)					
OFFICE USE ONLY					
PROGRAM	DATE				
PAID\$	# PGS				
RECEIPT #	REC'D BY				

Page 1 of 1 Rev. 093015

Demers, Tomo

From: Edwards, Mary@Waterboards <Mary.Edwards@waterboards.ca.gov> on behalf of WB-

RB8-FileReview8 < FileReview8@waterboards.ca.gov >

Sent: Thursday, July 21, 2016 3:56 PM

To: Demers, Tomo

Subject: RE: Request for Records: 4570 Francis Ave, Chino, CA

Hi Tomo,

I show no records for the address listed below. If you have any questions you can call me at 951 782 4499.

Thanks, Mary

From: Demers, Tomo [mailto:Tomo.Demers@tetratech.com]

Sent: Wednesday, July 20, 2016 3:47 PM

To: WB-RB8-FileReview8

Subject: Request for Records: 4570 Francis Ave, Chino, CA

Hello,

We would like to request any relevant environmental documents and permits you may have for the following property:

4570 Francis Avenue, Chino, CA 91710

Please find the formal request attached for the address. Feel free to contact me regarding any clarification you may need on the request.

Best Regards,

Tomo Demers | Environmental Scientist/Planner
Direct +1 (949) 809-5037 | Cell +1 (805) 551-8174 | Fax +1 (949) 809-5004 | Tomo.Demers@tetratech.com

Tetra Tech | Complex World, Clear Solutions™

17885 Von Karman Ave., Suite 500, Irvine, CA 92614-6213 | tetratech.com

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Lagade, Joel

From: Claborn, Amy <Amy.Claborn@lus.sbcounty.gov>

Sent: Thursday, July 21, 2016 9:43 AM

To: Demers, Tomo

Subject: 4570 FRANCIS AVE CHINO OUTSIDE 91710

Importance: High

Hello,

You may go to the below link and make the payment of \$10 for permit research to be completed on the above property, once payment is received it may take a <u>minimum of 10 business day. However, due to abundance of requests it will take approx. 30 business days minimum.</u> Please reference this number when making the payment: M201600506 (Place in Project Name, Project Number, and Comments boxes) – Please respond to this email once payment is made. Once the research is complete, an email will be sent to you with the results.

http://cms.sbcounty.gov/lus/Payments.aspx

PLEASE BE SURE TO CLICK THE "PAY NOW" BUTTON ONLY ONCE AS THE CARD WILL BE CHARGED EACH TIME YOU CLICK "PAY NOW"

Please take a moment to complete our 1 Minute Satisfaction Survey https://www.surveymonkey.com/r/LUS Email

Amy C. Claborn
Land Use Technician
Land Use Services Department
Phone: 909-387-8311
Fax: 909-387-3223
385 N. Arrowhead Ave. 1st Floor
San Bernardino CA 92415-0187



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APPENDIX D – PREVIOUS ENVIRONMENTAL REPORTS



TRANSMITTAL

То:	Stratham Company 2201 DuPont Drive, S Irvine, California 926		0		anuary 10, 2014 et No. 10557.002
Attention:	Mr. Brandon Roth				
Transmitted:	line	The Fo	llowing:	For:	Your Use
X Emai	I		Draft Report Final Report Extra Report Proposal Other	X	As Requested
Subject:	Phase I Environment Parcel Number 1012-				
			By: Brynn I	<u> McCulloc</u>	h
Distribution:	(1) Addressee				

PHASE I ENVIRONMENTAL SITE ASSESSMENT, 4570 FRANCIS AVENUE, ASSESSOR PARCEL NUMBER 1012-211-21, CHINO, CALIFORNIA

Prepared For:

STRATHAM COMPANY

2201 DuPont Drive, Suite 200 Irvine, California 92612

Project No. 10557.002

January 10, 2014





Leighton and Associates, Inc.

January 10, 2014

Project No. 10557.002

To: Stratham Company

2201 DuPont Drive, Suite 200

Irvine, California 92612

Attention: Mr. Brandon Roth

Subject: Phase I Environmental Site Assessment, 4570 Francis Avenue,

Assessor Parcel Number 1012-211-21, Chino, California

Leighton and Associates, Inc. (Leighton) is pleased to present this Phase I Environmental Site Assessment Report for the subject property. Leighton declares that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 Code of Federal Regulations (CFR) 312, and the ASTM International Standard E1527-13.

Leighton has the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. Leighton has developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

If you have questions regarding this report, please contact us. We appreciate the opportunity to be of service.

Respectfully submitted,

LEIGHTON AND ASSOCIATES, INC.

Brynn McCulloch, PG Project Geologist

Distribution: (1) Addressee

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List of Accompanying Illustrations and Appendices

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Figure 2 – Site Plan

Appendix A – References

Appendix B – Site Reconnaissance Photographs

Appendix C – Client Supplied Documentation

Appendix D – Environmental Lien and AUL Search

Appendix E – Environmental Radius Report

Appendix F – Historical Research Documentation

Appendix G – ASFE Geoenvironmental Report



1.0 INTRODUCTION

1.1 Authorization

Leighton and Associates, Inc. (Leighton) performed a Phase I Environmental Site Assessment (ESA) of the property located at 4570 Francis Avenue, Assessor Parcel Number (APN) 1012-211-21, in the City of Chino, San Bernardino County, California (subject site – Figure 1) in accordance with the Stratham Company's authorization.

1.2 Purpose

The purpose of the Phase I ESA was to identify, to the extent feasible and pursuant to the processes prescribed in ASTM International (ASTM) E1527-13, recognized environmental conditions (RECs), historical RECs (HRECs), or controlled RECs (CRECs) in connection with the subject site.

RECs are defined, according to ASTM E1527-13 as "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not RECs."

HRECs are defined, according to ASTM E1527-13 as "a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls."

CRECs are defined, according to ASTM E1527-13 as "a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls." (ASTM E1527-13, 2013).



1.3 Scope of Work

The scope of work was performed in accordance with Leighton's proposal and included the following tasks:

- A reconnaissance-level visit of the subject property for evidence of the release(s) of hazardous materials and petroleum products and to assess the potential for onsite releases of hazardous materials and petroleum products;
- Records review (including review of previous environmental reports, selected governmental databases, and historical review);
- Interviews; and
- Preparation of a report presenting our findings.

1.4 Significant Assumptions

Leighton assumes that the purpose of this Phase I ESA is to provide appropriate inquiry into the previous ownership and use of the subject property so that the Client may qualify for the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) landowner liability protections as defined in CERCLA, 42 USC §9601(35)(B). Leighton also assumes that the information provided by the Client and its agents, regulatory database provider, and regulatory agencies is true and reliable.

1.5 Limitations and Exceptions

Leighton performed the Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-13 of the subject site. Other than the non-scope items shown in Section 1.6 that were not applicable, there were no exceptions to, or deletions from, this practice.

Property specific activities performed by Leighton and information collected regarding these activities are summarized within this report. The findings of this Phase I ESA are presented in Section 7.0. Opinions and conclusions drawn by Leighton, based on the information collected as part of the Phase I ESA, are presented in Sections 8.0 and 9.0, respectively. References are included as Appendix A. Site Photographs are presented in Appendix B. Client supplied



documentation is included as Appendix C. Research of environmental liens is documented in Appendix D. The Environmental Radius Report is included as Appendix E. Regulatory records requests and responses are included as Appendix F. Historical documentation is provided in Appendix G.

This Phase I ESA was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions.

The observations and conclusions presented in this report are professional opinions based on the scope of activities, work schedule, and information obtained through the Phase I ESA described herein. Opinions presented herein apply to property conditions existing at the time of our study and cannot necessarily be taken to apply to property conditions or changes that we are not aware of or have not had the opportunity to evaluate. It must be recognized that conclusions drawn from these data are limited to the amount, type, distribution, and integrity of the information collected at the time of the investigation, the methods utilized to collect and evaluate the data, and that a full and complete determination of environmental risks cannot be made. Although Leighton has taken steps to obtain true copies of available information, we make no representation or warranty with respect to the accuracy or completeness of this information.

This practice does not address whether requirements in addition to all appropriate inquiry have been met in order to qualify for the landowner liability protections including the continuing obligation not to impede the integrity and effectiveness of activity and use limitations, or the duty to take reasonable steps to prevent releases, or the duty to comply with legally required release reporting obligations. Users should also be aware that there are likely to be other legal obligations with regard to hazardous substances or petroleum products discovered on the subject site that are not addressed in this practice and that may pose risks of civil and/or criminal sanctions for non-compliance.

1.6 Special Terms and Conditions

The scope of work for this Phase I ESA did not include non-scope items such as testing of electrical equipment for the presence of polychlorinated biphenyls (PCBs) or collection of other environmental samples, such as, water, building



materials, paint or other media; assessment of natural hazards such as naturally occurring asbestos, radon gas, methane gas, or mold; assessment of the potential presence of radionuclides, biological agents, or lead in drinking water; assessment of indoor air quality (such as vapor intrusion assessment); or assessment of nonchemical hazards such as the potential for damage from earthquakes or floods, or the presence of endangered species or wildlife habitats. This Phase I ESA also did not include an extensive assessment of the environmental compliance status of the subject site or of businesses operating at the subject site, or a health-based risk assessment.

1.7 User Reliance

This report is for the exclusive use of the Stratham Company. Use of this report by another party shall be at such party's sole risk.

1.8 Important Information about Geoenvironmental Reports

Stratham Company is referred to Appendix G regarding important information provided by the Associated Soil and Foundation Engineers (ASFE) on geoenvironmental studies and reports.



2.0 SITE DESCRIPTION

2.1 Location and Legal Description

The subject site is located north of Francis Street and east of Yorba Avenue at the address of 4570 Francis Avenue in the City of Chino, San Bernardino County, California (Figure 1). The San Bernardino County Assessor's office designates the subject site with Assessor Parcel Number (APN) 1013-211-21. A legal description of the subject site is included in the Environmental Lien Search Report provided by EDR (Appendix D). One additional address of 4568 was found to be associated with the subject site.

2.2 Subject Site and Vicinity General Characteristics

The subject site vicinity is comprised mostly of residential properties with a few small scale agricultural and livestock operations.

2.3 Current Use of the Subject Site

The subject site currently consists of approximately 10.67 acres and is utilized at grazing land for a neighboring goat farm. The subject site is roughly broken up into thirds, with the western third occupied by numerous small rectangular concrete pads and one maintenance shed used for the storage of materials associated with the goats currently grazing the subject site. The middle third is occupied by numerous elongated concrete slabs and a few animals pens associated with the former rabbit farm located on this portion of the subject site, bee hives, and one small empty maintenance shed. The eastern third of the subject site is vacant land (Photos 1 through 4, Appendix B).

2.4 Descriptions of Structures, Roads and Other Improvements on the Subject Site

One single-story maintenance shed used for the storage of materials associated with the goats currently grazing the subject site is located in the western portion of the subject site. One fuel underground storage tank and a sump system are located in the western portion of the subject site, adjacent to the maintenance shed. One, single-story, small empty maintenance shed is located in the southern, central portion of the subject site. Numerous concrete slabs are located throughout the western and central portions of the subject site and are



associated with former residences and a rabbit farm located on the subject site. Access to the subject site is provided through two gates; one located along Francis Avenue and the other located along Yorba Avenue.

The following utilities provide service to the subject site:

Natural Gas: Sempra Energy Source of Potable Water: City of Chino

Electric: Southern California Edison
Sewage Disposal: Inland Empire Utilities Agency

Solid Waste Disposal: City of Chino Heating and/or Cooling System: Gas/Electric

2.5 Current Uses of Adjoining Properties

The subject property is bordered by residential properties and small scale agricultural and livestock operations to the west and north; Yorba Avenue, followed by residential properties to the east; and Francis Avenue, followed by residential properties to the south.



3.0 USER PROVIDED INFORMATION

The user of this Phase I ESA is identified as the Stratham Company. As a part of the ASTM E1527-13 process, Mr. Brandon Roth, a Project Manager at Stratham Company, completed a questionnaire on the subject site. A copy of this questionnaire is provided in Appendix C.

3.1 Title Records

A preliminary title report was not provided by the Stratham Company.

3.2 Environmental Liens or Activity and Use Limitations

Mr. Roth indicated that he was not aware of environmental liens or activity and use limitations filed or recorded for the subject site.

Leighton reviewed the Environmental Lien and AUL Search report prepared by Environmental Data Resources, Inc. (EDR®) on December 18, 2013. According to the report, no environmental liens or activity and use limitations were found for the subject site. A copy of the Environmental Lien and AUL Search report is provided in Appendix D.

3.3 Specialized Knowledge

Mr. Roth indicated that he does not have specialized knowledge or experience related to the subject site.

3.4 Commonly Known or Reasonably Ascertainable Information

Mr. Roth indicated that he was not aware of commonly known or reasonably ascertainable information related to the subject site.

3.5 Valuation Reduction for Environmental Issues

Mr. Roth indicated that the purchase price being paid for the subject site reasonably reflects the fair market value.

3.6 Owner, Property Manager, and Occupant Information



According to the Environmental Lien and AUL Search report, the current owner of the subject site is William J. Munzer since November 2002. See Section 6.0 for additional information.

3.7 **Reason for Performing Phase I ESA**

According to Mr. Roth, the reason for requesting this Phase I ESA was for due diligence related to purchase of the subject site.

3.8 Other

Mr. Roth did not provide further information concerning the subject site.



4.0 RECORDS REVIEW

4.1 Physical Setting Source(s)

Leighton reviewed pertinent maps and readily available literature for information on the physiography and hydrogeology of the subject site. A summary of this information is presented in the following subsections.

4.1.1 Topography

The subject site is located in Section 34, Township 1 South, Range 8 West of the San Bernardino Baseline and Meridian. The subject site is depicted on the United States Geological Survey (USGS) Ontario 7.5-Minute Topographic Quadrangle, 1967 photorevised 1981. The elevation of the subject site is approximately 845 feet above mean sea level. In general, the surrounding area slopes to the south-southwest, towards Chino Creek, a tributary of the Santa Ana River.

4.1.2 Surface Water

Surface water was not observed at the subject site during the site reconnaissance. The San Antonio Channel is located 1.08 miles west of the subject site, Chino Creek is located approximately 2.32 miles southwest of the subject site, and the Santa Ana River is located approximately 10 miles south of the subject site.

4.1.3 Geology and Soils

The subject site is located within the Chino Basin in the northern portion of the Peninsular Range Geomorphic Province of California. Major structural features surrounding this region include the Cucamonga fault and the San Gabriel Mountains to the north, the Chino fault and Puente/Chino Hills to the west, and the San Jacinto fault to the east. This is an area of large-scale crustal disturbance as the relatively northwestward-moving Peninsular Range Province collides with the Transverse Range Province (San Gabriel and San Bernardino Mountains) to the north. Several active or potentially active faults have been mapped in the region and are believed to accommodate compression associated with this collision. The



subject site is underlain by younger alluvial soil deposits eroded from the mountains surrounding the basin and deposited in the site vicinity.

The subject site is underlain by Quaternary alluvial fan deposits (USGS, 2003). The alluvial soil encountered within our soil borings generally consisted of sand and sandy silt with some interbedded layers of discontinuous clay. The soil was generally moist and medium dense.

4.1.4 Hydrogeology

The subject site is located in the Upper Santa Ana Valley Groundwater Basin, Chino sub-basin. The basin is bounded to the north by the Redhill-Sierra Madre fault, to the northeast by the Rialto-Colton Fault, to the east by impermeable rocks of the Jurupa Mountains, on the south and southwest by the impermeable rocks of the Puente Hills and the Chino fault (SWRCB, 2003). The surface of the basin is drained by San Antonio Creek which in turn flows to the Santa Ana River.

Groundwater flow in the vicinity of the subject site is estimated to be to the southwest toward the Prado Wetlands and out of the basin along the Santa Ana River (Chino Basin Watermaster, 2003). Depth to groundwater is anticipated to be a depth greater than 200 feet bgs (Chino Basin Watermaster, 2003). Groundwater in the vicinity of the subject site is part of the Chino North Groundwater Management Zone. Beneficial use includes municipal, agricultural, industrial, and process (SARWQCB, 1995).

4.1.5 Oil and Gas Fields

Leighton reviewed the California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR), Online Mapping System, on December 31, 2013. Evidence of oil wells or oil field-related facilities was not indicated on the subject site and adjacent properties.

4.2 Standard Environmental Record Sources

A search of selected government databases was conducted by Leighton using the EDR[®] Radius Report, dated December 14, 2013. Details of the database search



along with descriptions of each database researched are provided in the EDR[®] Radius Report (Appendix E). The report meets the government records search requirements of ASTM E1527-05 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. The database listings were reviewed within the specified radii established by the ASTM E1527-05.

4.2.1 Subject Site

The subject site was not identified in the EDR® database report.

4.2.2 Offsite

The database search results for offsite properties, including those found within the "orphaned" unmapped listings, with potential to adversely impact the subject site are listed in the table below:





Table 1 - Databases Searched

Database	Search Distance (radius)	Properties of Potential Concern
Federal NPL List	1.0-mile	No
Delisted NPL List	1.0-mile	No
Federal CERCLIS List	0.5-mile	No
CERCLIS – No Further Action	0.5-mile	No
CORRACTS	1.0-mile	No
Federal RCRA TSDF List	0.5-mile	No
RCRA Generators List	0.25-mile	No
US ENG Controls List	0.5-miles	No
US INST Controls List	0.5-mile	No
US Brownfields	0.5-mile	No
Historic CAL-Sites	1.0-mile	No
SWRCY	0.5-mile	No
Envirostor	1.0-mile	Yes (2)
SCH	0.25-mile	No
SWL Facilities	0.5-mile	No
LUST Facilities	0.5-mile	No
CAL FID UST	0.25-mile	Yes (1)
SLIC	0.5-mile	No
UST	0.25-mile	No
Historical UST	0.25-mile	Yes (1)
AST	0.25-mile	No
SWEEPS UST	0.25-mile	Yes (1)
DEED	0.5-mile	No
VCP	0.5-mile	No
Drycleaners	0.25-mile	No
Indian RESERV	1.0-mile	No
Indian LUST	0.5-mile	No
Indian UST	0.25-mile	No
Manufactured Gas Plants	1.0-mile	No
EDR Historical Auto Stations	0.25-mile	Yes (1)
EDR Historical Cleaners	0.25-mile	No

See EDR® Radius Report (Appendix E) for list of acronyms and data sources



Review of the environmental database report indicates that a very few facilities of potential environmental concern are located in the subject site vicinity.

Information in the environmental database report was reviewed for facilities of potential environmental concern to the subject site. The State Water Resources Control Board (SWRCB) Geotracker website and the Department of Toxic Substance Control (DTSC) Envirostor website were used to supplement the information in the database report.

The listings in the database report were reviewed and not interpreted to represent an adverse effect to the subject site at the time of this report preparation based on one or more of the following:

- Nature of the database listing and not appearing on a database that reports unauthorized releases of hazardous substances;
- Reported regulatory agency status (example Case Closed);
- Reported nature of the case (soil contamination only);
- Distance of the facility to the subject site; and/or
- Location of the facility with respect to anticipated groundwater flow direction.

4.2.3 Vapor Encroachment

Leighton reviewed the Vapor Encroachment Screen (VES) produced using EDR®'s Vapor Encroachment Worksheet application that gathers regulatory database information from the accompanying Radius Report and allows the user to integrate groundwater information, regional geology, and other information to evaluate the concern for potential vapor encroachment from onsite activities and from adjacent properties. The VES application was designed by EDR® to assist parties seeking to meet the search requirements of the ASTM Standard Practice for Assessment of Vapor Encroachment into Structures on Property Involved in Real Estate Transactions (E2600-10), also referred to as the Tier 1 VES, as defined by ASTM E2600-10



Using the VES application, the onsite database listings and off-site listings near the subject site found that vapor encroachment is not a REC. A copy of the VES report has been included as Appendix E.

4.3 Additional Environmental Record Sources

4.3.1 Regulatory Agency Contacts

Leighton requested regulatory records from the following agencies for the subject site addresses.

<u>Department of Toxic Substances Control (DTSC)</u>

On December 17, 2013, file review requests were forwarded to the DTSC Cypress Office and Chatsworth Office via facsimile. On December 23, 2013, the DTSC Cypress Office and DTSC Chatsworth office responded via mail that there are no records for the subject site.

Santa Ana Regional Water Quality Control Board

On December 17, 2013, a file review request was forwarded to the Santa Ana Regional Water Quality Control Board (SARWQCB). On December 18, 2013, Leighton received a response from SARWQCB stating that no records were found for the subject site.

San Bernardino County Fire Department Hazardous Materials Division

On December 17, 2013, a file review request was forwarded to the San Bernardino County Fire Department Hazardous Materials Division (SBCFD). A response from the SBCFD has not yet been received.

National Pipeline Mapping Viewer

The California Office of the State Fire Marshal has recently ceased responding to requests for information concerning pipelines on or adjacent to private properties. The OSFM stated that the US Department of Transportation National Pipeline Mapping System (NPMS) should be consulted for hazardous pipeline location inquiries. On December 30,



2013, Leighton reviewed the NPMS for hazardous pipelines on or adjacent to the subject property. No hazardous materials or petroleum pipelines were identified on or adjacent to the subject site.

Radon

The State of California conducts ongoing radon surveys in the state. The results of the most recent survey (CDPH, 2010) indicate that for the 14 samples collected from zip code 91710, none were found to contain radon concentrations greater than the U. S. EPA radon action level of 4 picocuries per liter of air.

4.3.2 Other Reports

Leighton was not provided with previous environmental reports for the subject site.

4.4 Historical Use Information on the Subject Site

Leighton reviewed selected historical information on the subject site. These references were reviewed for evidence of activities which would suggest the potential presence of hazardous substances at the subject site and to evaluate the potential for the subject site to be impacted by offsite sources of contamination. The following paragraphs are a chronological summary of the review.

4.4.1 Aerial Photographs

Historical aerial photographs were reviewed for information regarding past uses of the subject site. Aerial photographs were reviewed for the following years: 1938, 1948, 1953, 1964, 1972, 1977, 1989, 1994, 2005, 2009, 2010, and 2012. References are provided in Appendix A and copies of the aerial photographs are included in Appendix F.

In the **1938** aerial photograph, the western third of the subject site appears to be occupied by approximately sixteen (16) small rectangular structures, possibly used for residential purposes. The middle third of the subject site is occupied by what appears to be a residence in the southern portion and



dry farming land. The eastern third of the subject site is occupied by a residence in the northern portion and an orchard. A creek appears to transect the eastern portion of the subject site from north to south. Orchards are observed to the north of the subject site. Orchards, dry farming land, and a few residences are observed to the west of the subject site. Yorba Avenue is observed to the east of the subject site, followed by orchards. Francis Avenue is observed to the south of the subject site, followed by dry farming land and several livestock holding pens.

In the **1948** aerial photograph, land use in the western third of the subject site remains unchanged with the exception of twelve (12) additional structures. Land use changes in the middle third of the subject site are not observed with the exception of four (4) elongated rectangular structures or building slabs in the western portion. Land use changes are not observed in the eastern third of the subject site. Land use changes were not observed on the surrounding properties.

In the 1953 aerial photograph, land use in the western third of the subject site remains unchanged with the exception of two (2) additional structures in the southern portion. The middle third of the subject site is developed with three (3) large, square structures and two (2) small, rectangular structures in the western portion. The residence observed in the 1938 and 1948 aerial photographs is still present in the southeast portion and a dirt road connects the residence to the new structures in the western portion. The eastern third of the subject site is occupied by the residence observed in the 1938 and 1948 aerial photographs; however, the orchards appear to be diminishing as fewer trees are observed in the 1953 aerial photograph. Land use changes were not observed on the surrounding properties to the west and north of the subject site. What appears to be residential properties and some orchards are observed to the east of the subject site, across Yorba Avenue. Residential properties, dry farming land, and possibly fallow land are observed to the south of the subject site, across Francis Avenue.

In the **1964** aerial photograph, land use changes are not observed in the western third of the subject site. Numerous elongated, rectangular structures are observed in the middle third of the subject site. These structures are possibly related to a former rabbit farm that occupied the



subject site. The eastern third of the subject site is occupied by a residence in the north and one elongated structure in the south. Land use changes are not observed on the surrounding properties to the north, west, and south of the subject site. Residential structures are observed to the east of the subject site.

In the **1972** aerial photograph, significant land use changes were not observed on the subject site and surrounding properties.

In the 1977 aerial photograph, significant land use changes were not observed on the subject site with the exception of a majority of the structures located on the western third of the subject site appear to be demolished down to the building slab and the structures located on the eastern third of the subject site are no longer present. Residential land combined with small plots of agricultural land and livestock pens are observed on the surrounding properties to the west and north of the subject site. Vacant land and residential land are observed to the south of the subject site, across Francis Avenue. Land use changes are not observed on the surrounding properties to the east of the subject site.

In the **1989** aerial photograph, significant land use changes were not observed on the subject site and surrounding properties with the exception of a new residential tract to the south of the subject site, across Francis Avenue.

In the **1994** aerial photograph, a majority of the onsite structures in the western and middle thirds of the subject site appear to be demolished down to the building slabs. The eastern third of the subject is vacant land. Significant land use changes were not observed on the surrounding properties.

In the **2005** aerial photograph, the subject site and surrounding properties are observed to be in their present-day configuration. One structure, the present-day maintenance shed, is located in the western portion of the subject site and one small shed and a few elongated structures used to house rabbits are located in the middle portion of the subject site.



In the **2009** aerial photograph, significant land use changes were not observed on the subject site and surrounding properties.

In the **2010** aerial photograph, significant land use changes were not observed on the subject site and surrounding properties.

In the **2012** aerial photograph, significant land use changes were not observed on the subject site and surrounding properties.

4.4.2 Historical Topographic Maps

Historical topographic maps were reviewed for information regarding past subject property uses. Topographic map coverage of the site vicinity is provided by the United States Geological Survey (USGS) Ontario and Vicinity, CA Topographic Quadrangle (1942), and Ontario, CA Topographic Quadrangle (1954, 1967, 1973, and 1981). References are provided in Appendix A and copies of the maps have been provided in Appendix F.

1942: No structures, tanks, or wells are depicted on the subject property. Small structures are depicted on the properties adjacent to the subject property.

1954: Two structures are depicted on the subject property. Land use of subject property and majority of surrounding properties are depicted as agricultural production (orchard). Small structures and agricultural production are depicted on the surrounding adjacent properties. A reservoir is depicted north of the subject property, just south of Philips Avenue.

1967: Subject property is no longer depicted as agricultural land. No further structural development on subject property. The surrounding properties do not appear to have changed significantly. Two large water tanks are depicted southwest of the intersection of Central Avenue and Phillips Avenue.



1973: Several large structures are depicted clustered together on subject property in southwest quarter. Additional structures are depicted on the property adjacent to the west.

1981: No further structural developments are depicted on the subject property or surrounding properties. To the northwest a large water tank has been added.

4.4.3 Fire Insurance Maps

Fire insurance maps, or Sanborn® maps, are detailed city plans showing building footprints, construction details, use of structure, street address, etc. The maps were designed to assist fire insurance agents in determining the degree of hazard associated with a particular property. Sanborn Maps were produced from approximately 1867 to the present for commercial, industrial, and residential sections of approximately 12,000 cities and towns in the United States.

According to the report by EDR[®], there is no Sanborn Fire Insurance Map coverage for the subject property. A copy of this report is provided in Appendix F.

4.4.4 Historical City Directories

EDR® provided the City Directory Abstract on December 18, 2013. City Directories were reviewed for 1922 to 2013. The City directory Abstract is included in Appendix F. The following are the listings for the subject site addresses:

	<u>Year</u>	<u>Address</u>	<u>Listing</u>
	1975	4570 Francis Avenue	American Rex Fur Corp
۹	1990	4570 Francis Avenue	A M Pallets
			Gifts and Crafts of Mulato Jose Luis
	1996	4570 Francis Avenue	Naps Pallets
	2003	4570 Francis Avenue	LEE Chin Te



4.4.5 Building Department, Zoning and/or Land Use Records

On December 17, 2013, Leighton sent a request to review building permits for the subject site addresses of 4568 and 4570 Francis Avenue to the County of San Bernardino Land Use Services Department. A response has not yet been received.

4.4.6 Other Historical Sources

Other historical sources were not reviewed as a part of this Phase I ESA.

4.4.7 Summary of Historical Land Use

Based on historical records, land usage is summarized as follows:

Time Period	Land Usage	Reference
Prior to 1938	Unknown	None Available
At least 1938 to approximately 1960	Residential and agricultural land/orchards.	Aerial Photographs Topographic Maps
Approximately 1960 to 1997	Possible residential (west), a rabbit farm - American Rex Fur Corporation (central), and Residential from 1960 to 1977 (east)	Aerial Photographs Topographic Maps City Directories Online Resources
1997 to 2002	Rabbit farm	Aerial Photographs Topographic Maps City Directories Online Resources
2002 to present	Vacant land used for goat grazing	Aerial Photographs Owner Interview Site Reconnaissance



5.0 SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

On December 13, 2013, a representative of Leighton conducted a reconnaissance–level assessment of the subject site. The site reconnaissance consisted of the observation and documentation of existing subject site conditions and nature of the neighboring property development within 0.25-miles of the subject site. Photographs of the subject site are presented in Appendix B and their view directions are noted on Figure 2. Items noted during the site reconnaissance are also depicted on Figure 2.

5.2 General Site Setting

The subject site vicinity is comprised mostly of residential properties with a few small scale agricultural and livestock operations.

The subject site currently consists of approximately 10.67 acres and is utilized at grazing land for a neighboring goat farm. The subject site is roughly broken up into thirds, with the western third occupied by numerous small rectangular concrete pads and one maintenance shed used for the storage of materials associated with the goats currently grazing the subject site. The middle third is occupied by numerous elongated concrete slabs and a few animals pens associated with the former rabbit farm located on this portion of the subject site, bee hives, and one small empty maintenance shed. The eastern third of the subject site is vacant land.

5.3 Exterior and Interior Observations

5.3.1 Hazardous Substances, Drums, and Other Chemical Containers

Hazardous substances were not observed on the subject site.

One empty 55-gallon steel drum and one empty 1-gallon container of motor oil were observed in the north central portion of the subject site (Photo 5, Appendix B). Stained soil was not observed in the area of the drum and container.

Several 1 to 5-gallon containers of paint were observed within a former livestock shelter located in the north central portion of the subject site



(Photo 6, Appendix B). No leaks or stained soil were observed in the area of the containers.

5.3.2 Storage Tanks

Evidence of a UST was observed in the southwest portion of the subject site (Photo 7, Appendix B).

One empty, approximately 100-gallon poly water tank was observed adjacent to the north of the maintenance shed in the southwest portion of the subject site (Photo 8, Appendix B).

5.3.3 Polychlorinated Biphenyls (PCBs)

One pole-mounted transformer was observed in the central portion of the subject site (Photo 9, Appendix B). A second pole-mounted transformer was observed along Yorba Avenue on the eastern boundary of the subject site. No leaks originating from the transformer or stained soil beneath the transformer were observed.

5.3.4 Waste Disposal

Waste disposal was not observed at the subject site since it is currently unoccupied.

5.3.5 Dumping

Several piles of inert material such as concrete pieces and wood were observed throughout the subject site. Evidence of dumping significant quantities of trash or hazardous materials was not observed at the subject site.

5.3.6 Pits, Ponds, Lagoons, Septic Systems, Wastewater, Drains, Cisterns, and Sumps

Pits, ponds, lagoons, septic systems, wastewater, drains, and cisterns, were not observed on the subject site.



A sump/drainage system was observed along the southern side of the maintenance shed located in the southwest portion of the subject site (Photos 10 and 11, Appendix B).

Additionally, based on the use of the subject site for residential purposes dating back to at least 1938, it is possible that one or more septic tanks is present at the subject site.

5.3.7 Pesticide Use

Pesticides were not observed on the subject property. However, pesticide use may have occurred historically when the subject site was used for agriculture purposes.

5.3.8 Staining, Discolored Soils, Corrosion

Staining, discolored soils, or corrosion were not observed on the subject site.

5.3.9 Stressed Vegetation

Stressed vegetation was not observed on the subject site.

5.3.10 Unusual Odors

Unusual odors were not detected on the subject site.

5.3.11 Onsite Wells

Evidence of onsite wells were not observed on the subject site.



6.0 INTERVIEWS

Leighton conducted interviews with persons having knowledge of current or past subject property usage. Interviews were conducted either orally or in the form of a written questionnaire. Written responses are included as Appendix C.

6.1 Interview with Owner

On December 17, 2013, Mr. Daniel Munzer, Trustee of the William J. Munzer Trust, completed the Phase I ESA Owner/Site Contact Interview Form. According to Mr. Munzer, William J. Munzer took ownership of the subject site in 2002 until his death in 2010, at which point the Trust took ownership. Since 2002, the subject site has remained vacant land, with the exception of one structure located in the southwest portion of the subject site. Mr. Munzer was aware of the fuel UST located in the southwest portion of the subject site. Mr. Munzer was not aware of any other environmental concerns associated with the subject site.

6.2 Interview with Property Manager

Mr. Munzer is the property manager.

6.3 Interviews with Occupants

Mr. George Gonzales of Ranchito Tivo Boer Goats, the current goat farm that utilizes the subject site as grazing land was interviewed on December 13, 2013. According to Mr. Gonzales, a fuel UST is located on the east side of the existing maintenance shed in the southwest portion of the subject site and is no longer in use. Additionally, Mr. Gonzales indicated that all water on the subject site comes from municipal sources and no groundwater wells are located on the subject site.

6.4 Interviews with Local Government Officials

Leighton did not interview employees with local government agencies to request information regarding historic and current uses of the subject property with the exception of those noted in Section 4.3.1.

6.5 Interviews with Others



Leighton did not conduct other interviews for this Phase I ESA with the exception of the User Interview described in Section 3.0.





7.0 FINDINGS

Leighton performed a Phase I ESA of the property located at 4570 Francis Avenue, APN 1013-211-21, City of Chino, San Bernardino County, California in accordance with Stratham Company's authorization.

7.1 Onsite

Historically, the subject site was used for residential and agricultural purposes, mainly orchards and dry farming land, from at least 1938 until approximately 1960. In 1960, the central portion of the subject site was developed as a rabbit farm that operated until approximately 2002. Remnant concrete slabs associated with the rabbit farm are located in the central portion of the subject site. Numerous structures, presumably residences, occupied the western portion of the subject site from at least 1938 until 1997. The structures were demolished circa 1997; however, the concrete slabs associated with these structures are still present onsite. The eastern portion of the subject site was occupied by a residence from at least 1938 until 1977, when it was demolished and has remained vacant land to the present day. After closure of the rabbit farm in 2002, the subject site has been utilized as grazing land for an adjacent goat farm.

Currently, the subject property consists of approximately 10.67 acres and is utilized at grazing land for a neighboring goat farm. The subject site is roughly broken up into thirds, with the western third occupied by numerous small rectangular concrete pads and one maintenance shed used for the storage of materials associated with the goats currently grazing the subject site. The middle third is occupied by numerous elongated concrete slabs and a few animals pens associated with the former rabbit farm located on this portion of the subject site, bee hives, and one small empty maintenance shed. The eastern third of the subject site is vacant land. One fuel underground storage tank and a sump system are located in the western portion of the subject site, adjacent to the maintenance shed. Access to the subject site is provided through two gates; one located along Francis Avenue and the other located along Yorba Avenue.

A search of selected government databases was conducted by Leighton using the EDR Radius Report environmental database report system. Details of the database search along with descriptions of each database researched are provided in the EDR report. The report meets the government records search



requirements of ASTM E1527-13 Standard Practice for Environmental Property Assessments: Phase I and Limited Phase II Environmental Property Assessment Process. The database listings were reviewed within the specified radii established by the ASTM E1527-13. The subject site was not listed in the database report.

7.2 Offsite

Historically, the adjacent properties were used for agricultural purposes, orchards, and residential land. The subject site is currently bordered by residential properties and small scale agricultural and livestock operations to the west and north; Yorba Avenue, followed by residential properties to the east; and Francis Avenue, followed by residential properties to the south.

Surrounding properties with environmental concern were not identified in the EDR report.

7.3 Data Gaps

Data gaps were identified by Leighton:

- Historical records prior to 1938 were not available. It is Leighton's opinion that this data gap is not significant to identifying recognized environmental conditions on the subject site.
- Responses to public record requests have not been received from the San Bernardino County Fire Department and San Bernardino County Land Use Services Department.

It is Leighton's opinion that these data gaps do not impact the conclusions and recommendations regarding the subject site. In the event that they do alter the conclusions and recommendations of this report, the findings will be presented in an addendum letter.



8.0 OPINION

8.1 Onsite

It is Leighton's opinion that the presence of a fuel UST in the southwest portion of the subject site is considered a REC and additional assessment is warranted.

It is Leighton's opinion that because of the historic use of the subject site for agricultural purposes, the potential for impacts from organochlorine pesticides (OCPs) and arsenical pesticides associated with this use is a REC and additional assessment is warranted.

It is Leighton's opinion that the potential for impacts from OCPs and lead in soil associated with the numerous historical buildings located onsite is a REC and additional assessment is warranted.

Although not considered a REC, based on the age of the onsite structures, it is possible that asbestos-containing building materials (ACM) and lead-based paint (LBP) may be present. An asbestos and lead-based paint survey should be completed on the structure prior to any demolition activities.

No CRECs or HRECs were identified for the subject site.

8.2 Offsite

No offsite RECs were identified that would negatively impact the subject site.



9.0 CONCLUSIONS

We have performed a Phase I ESA in conformance with the scope and limitations of ASTM E1527-13 on the property located at 4570 Francis Avenue, APN 1012-211-21, in the City of Chino, San Bernardino County, California. Exceptions to, or deletions from, this practice are described in Section 1.5 of this report.

This assessment has revealed the following RECs in connection with the subject site:

- The presence of a known fuel UST in the southwest portion of the subject site.
- The historical use of the subject site for agricultural purposes.
- The potential for impacts from OCPs and lead in soil based on presence of structures on the subject site dating back to at least 1938.

Based on the findings of this Phase I ESA, Leighton recommends the following:

- Conduct a geophysical survey in the area of the fuel UST and throughout the subjet site to determine the exact location of the UST and approximate size and if other unknown underground objects (USTs, septic tanks, buried trash, etc.) are present at the subject site.
- Conduct soil sampling in the vicinity of the UST to assess potential impacts resulting from the UST. Soil samples should be analyzed for total petroleum hydrocarbons and volatile organic compounds in accordance with EPA SW-846 guidelines.
- Conduct soil sampling throughout the subject site to assess potential impacts resulting from the former use of the subject site for agricultural purposes. Soil samples should be analyzed for OCPs and arsenic in accordance with EPA SW-846 guidelines.
- Conduct soil sampling in the vicinity of the former and current structures to assess
 potential impacts resulting from the application of termiticides and lead-based paint.
 Soil samples should be analyzed for OCPs and lead in accordance with EPA SW846 guidelines.

While not considered a REC, the following environmental concern should be addressed:



 Prior to demolition of the existing onsite structure an asbestos and lead-based paint survey should be conducted by a licensed contractor. If asbestos and/or lead-based paint are identified, the materials should be properly abated in accordance with local and federal guidelines.

In general, observations should be made during future property development for areas of possible contamination such as, but not limited to, the presence of underground facilities, buried debris, waste drums, and tanks, stained soil or odorous soils. Should such materials be encountered, further investigation and analysis may be necessary at that time.





10.0 DEVIATIONS

Leighton did not deviate from or alter the scope of work, as defined in Section 1.3 of this report. Significant data gaps were not identified that affect the ability of Leighton to identify recognized environmental conditions at the subject site.





11.0 ADDITIONAL SERVICES

Leighton did not perform work outside the scope of work as defined in Section 1.3 and 1.6 of this report.





12.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

12.1 Corporate

Leighton is a California corporation, providing geotechnical and environmental consulting services throughout California. We are solely a consulting firm without interests in real property other than our nine offices in Southern California. We provide professional environmental consulting services including application of science and engineering to environmental compliance, hazardous materials/waste assessment and cleanup, and management of hazardous, solid and industrial waste. Phase I Environmental Site Assessments are a part of this practice area and have been conducted by us.

12.2 Individual

The qualifications of the Project Manager and the other Leighton environmental professionals involved in this Phase I ESA meet the Leighton corporate requirements for performing Phase I ESAs as specified by ASTM E1527-13. In addition, Ms. Brynn McCulloch is a California licensed Professional Geologist.

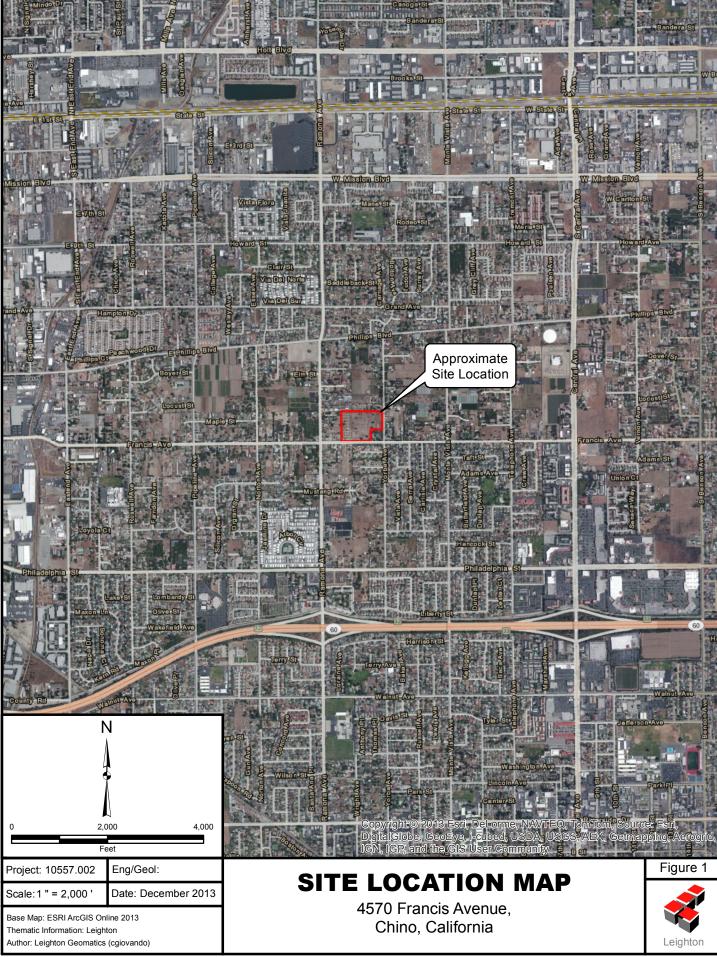
12.3 Environmental Professional Statement

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined by §312.10 of 40 CFR Part 312.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed all the appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Brynn McCulloch, PG Project Geologist

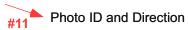








Approximate Site Boundary





Approximate Location of the fuel UST

SITE PLAN

4570 Francis Avenue Chino, California

Project No. Scale Engr./Geol. Drafted By Date

Not to Scale
BFM
MDW
January 2014



Figure No. 2

APPENDIX A

APPENDIX A

References

- ASTM National, 2013, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E1527-13, dated November 6, 2013.
- California Department of Conservation, Division of Oil, Gas, and Geothermal Resources, Online Mapping System (updated October 6, 2010), December 30, 2013.
- California Department of Health Services, California Statewide Radon Survey, dated May 4, 2010,
 - http://www.cdph.ca.gov/HealthInfo/environhealth/Documents/Radon/CaliforniaRadonDatabase.pdf, accessed August 15, 2013.
- California Regional Water Quality Control Board, Santa Ana Region (SARWQCB), 1995, Water Quality Control Plan for the Santa Ana River Basin, dated January 24, 1995, updated February 2008.
- Chino Basin Watermaster, 2003, Groundwater Flow Direction and Relative Velocity in the Chino Basin, http://www.cbwm.org/rep_eng_maps.htm, dated Fall 2003, accessed December 30, 2013.
- EDR® Aerial Photo Decade Package, December 20, 2013.
- EDR® Building Permit Report, December 17, 2013.
- EDR® Certified Sanborn Map Report, December 17, 2013.
- EDR[®] City Directory Abstract, December 18, 2013.
- EDR® Environmental Lien and AUL Search, December 18, 2013.
- EDR® Historical Topographic Map Report, December 13, 2013.
- EDR® Radius Map Report with GeoCheck®, December 18, 2013.
- EDR® Property Tax Map Report, December 17, 2013.



State Water Resources Control Board, Geotracker Online Database, Accessed December 30, 2013.





APPENDIX B

PHOTO NO. 1:

Southwest view of the western portion of the subject site.



PHOTO NO. 2:Eastern view of the central portion of the subject site.



PHOTO NO. 3:

View of the maintenance shed located in the southwest portion of the subject site.



PHOTO NO. 4: *Northwest view of the eastern portion of the subject site.*



PHOTO NO. 5:

View of one, empty, 55-gallon steel drum and one, empty, 1-gallon container of motor oil observed in the north central portion of the subject site.



PHOTO NO. 6:

View of several 1 to 5-gallon containers of paint observed within a former livestock shelter in the north central portion of the subject site.



PHOTO NO. 7:

View of the location of the fuel UST, adjacent to the maintenance shed in the southwest portion of the subject site.



PHOTO NO. 8: View of an empty, approximately 100-gallon poly AST located in the southwest portion of the subject site.



PHOTO NO. 9: *View of the pole-mounted transformer located in the central portion of the subject site.*



PHOTO NO. 10:

View of the sump/drain system located to the south of the maintenance shed in the southwest portion of the subject site.



PHOTO NO. 11:

View of the sump/drain system located to the south of the maintenance shed in the southwest portion of the subject site.



APPENDIX C



Phase I ESA Users Questionnaire

Project Name: Munzer	
Complete and Correct Address(es) of the Propert	y and APN(s):
N/W corner of Francis and Yorba - APN#	1013-211-21
User Company Name:	User Name/Title:
Stratham	Project Manager
User Phone/Email: broth@strathamhomes.c	om
Interviewee Name and Relationship to Project:	
Brandon Roth - Project Manager	
Site Owner: William J Munzer	
Reason Phase I is required:	
due diligence	
Type of property:	
residential	
Type of property transaction (e.g., Sale, purchase	e, exchange):
purchase	
Any scope of services beyond the ASTM Practice	E 1527:
???	
All Parties that will rely on the Phase I report:	
Stratham Company	
Name and Contact Information for Site Contact:	
David Beno 909-947-3387; 909-709-3739	
Any special terms or conditions:	
N/A	
Any other pertinent knowledge or experience wire correspondence concerning the environmental contents.	
N/A	

(1). Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).	
Did a search of recorded land title records (or judicial records where appropriate identify any environment recorded against the property under federal, tribal, state or local law? Yes $ $ No	nental liens filed or
If Yes, Describe:	
(2). Activity and land use limitations (AULs) that are in place on the site or that have been filed registry (40 CFR 312.26).	or recorded in a
Did a search of recorded land title records (or judicial records where appropriate) identify any AULs, s controls, land use restrictions or institutional controls that are in place at the property and/or have bee against the property under federal, tribal, state or local law? Yes V No	
If Yes, Describe:	
(3). Specialized knowledge or experience of the person seeking to qualify for the Landowners Protections (LLP) (40 CFR 312.28).	Liability
Do you have any specialized knowledge or experience related to the property or the property or nearly example, are you involved in the same line of business as the current or former occupants of the property so that you would have specialized knowledge of the chemicals and processes used by this Yes V No	erty or an adjoining
If Yes, Describe:	
(4). Relationship of the purchase price to the fair market value of the property if it were not cor DRF 312.29).	ntaminated (40
Does the purchase price being paid for this property reasonably reflect the fair market value of the pro-	operty?
✓ Yes No	
If you conclude that there is a difference, have you considered whether the lower purchase price is be contamination is known or believed to be present at the property? Yes No	ecause
If Yes, Describe:	
(5). Commonly known or reasonable ascertainable information about the property (40 CFR 312	2.30).
Are you aware of commonly known or <i>reasonably ascertainable</i> information about the property that w <i>environmental professional</i> to identify conditions indicative of releases or threatened releases? For ex	
(a.) Do you know the past uses of the property?	Yes ✓ No
(b.) Do you know of specific chemicals that are present or once were present at the property?	Yes ✓ No
(c.) Do you know of spills or other chemical releases that have taken place at the property?	Yes ✓ No
(d.) Do you know of any environmental cleanups that have taken place at the property?	Yes ✓ No
If Yes, Describe:	' '
(6). The degree of obviousness of the presence of likely presence of contamination at the propability to detect the contamination by appropriate investigation (40 CFR 312.31). Based on your knowledge and experience related to the <i>property</i> , are there any <i>obvious</i> indicators the presence or likely presence of contamination at the <i>property?</i> Yes ✓ No If Yes, Describe:	
Bardon Roth !/	1/13
Signature	Date





Phase I ESA Owner/Site Contact Interview Form

Interviewee Name:	Title:
Address:	Phone:
Relationship to Property:	
Name and Address of Owner of the Pro	perty:
Date of Ownership:S	ite Name:
Property Address:	
Previous Street Names/Numbers:	
General Business Type/Present Property	/ Use:
Assessor Parcel Number:	Total # of Buildings:
Grand Total Square Footage:	Date Built:
Past Property Uses (include dates):	
Source of Potable Water Supply (munic	ipal/groundwater wells):
Sewage Disposal (municipal/septic) (pr	ovide name of utility):
Means of Heating/Cooling (gas, electric	, heating oil, etc.):
Fuel Source for Heating/Air Conditionic	ng (provide name of utility):
Neighboring Property Types (commercial	al/industrial/residential):
Current Uses of Adjoining Properties:	North:
	South:
	East:
	West:

ARE THERE NOW, OR HAVE THERE BEEN IN THE PAST, ANY OF THESE ITEMS ONSITE OR ON ADJACENT PROPERTIES:

IT	EM	YES	NO	UNK	ADJACENT PROPERTY
•	Hazardous Materials				
•	Hazardous Waste				
•	MSDS Sheets				
•	Underground Storage Tanks				
•	Aboveground Storage Tanks				
•	Vent Pipes, fill pipes, or access ways indicating a fill pipe to an underground storage area				
•	Odors				
•	Drums				
•	Electrical or hydraulic equipment known to contain PCBs				
•	Stained soil or surfaces				
•	Drains				
•	Sumps				
•	Clarifier				
•	Pits, ponds, or lagoons				
•	Stressed vegetation				
•	Areas for dumping solid waste (landfill)				
•	Wastewater				
•	Wells (oil or gas)				
•	Septic Systems				
•	Fill Material (if fill material is on site, please state source of fill)				

ADDITIONAL QUESTIONS:	YES	NO	UNK	REMARKS
Has the Site been used as any of the following: gas station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard, or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility? If so, state which type of facility.				
Are you aware of any regulatory compliance audit reports, geotechnical reports, Phase I Environmental Site Assessments, or Phase II Environmental Site Assessments, or soil sampling reports prepared for the Site?				
Do you know of any notices or correspondence from any government agency relating to past or current violations of environmental laws with respect to the Site or relating to environmental liens encumbering the Site?				
Do you know of any pending, threatened, or past litigation or administrative proceedings relevant to hazardous substances or petroleum products in, on or from the Site?				
Do you know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?				
Do you know of any environmental concerns associated with the Site? If so please state in remarks column.				
Do you know of any environmental concerns associated with any adjacent or nearby properties? If so please state in remarks column.				
urrent Property Owner's Time Period of Ownership:			•••••	
operty Utilization During Ownership:				
ame and Address of Past Owners:				
dditional Comments:				
reparer presents that to the best of the preparer's knowledge the above the best of the preparer's actual knowledge no material facts have be				
ignature	 Da	te		

APPENDIX D

Munzer Property

4568 and 4570 Francis Avenue Chino, CA 91710

Inquiry Number: 3813623.7

December 18, 2013

EDR Environmental Lien and AUL Search



EDR Environmental Lien and AUL Search

The EDR Environmental Lien and AUL Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- · search for parcel information and/or legal description;
- · search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- · access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.

Please contact EDR at 1-800-352-0050 with any questions or comments.

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

4568 and 4570 Francis Avenue Munzer Property Chino, CA 91710

RESEARCH SOURCE

Source 1:

San Bernardino Recorder San Bernardino, CA

PROPERTY INFORMATION

Deed 1:

Type of Deed: deed

Title is vested in: William J Munser
Title received from: Ambrosia Farm
Deed Dated 11/6/2002
Deed Recorded: 11/12/2002

Book: NA
Page: na
Volume: na
Instrument: na
Docket: NA

Land Record Comments: Miscellaneous Comments:

Legal Description: See Exhibit

Legal Current Owner: William J Munser

Parcel # / Property Identifier: 1013-211-21-0000

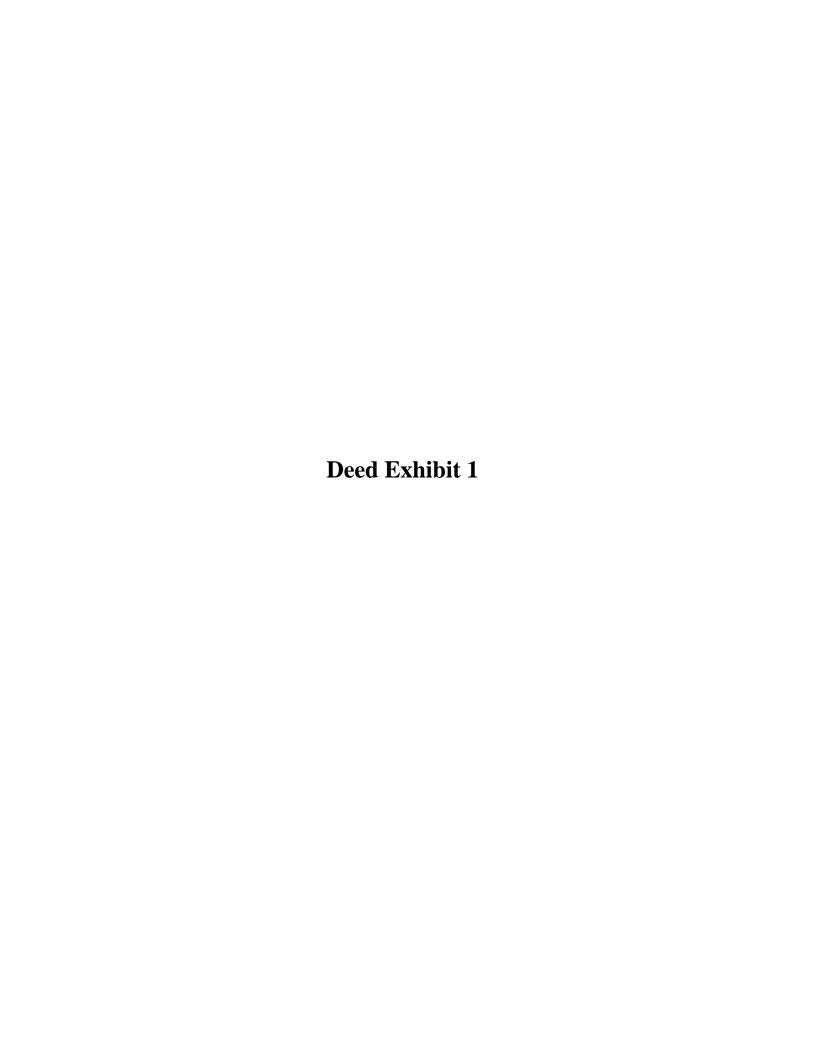
Comments: See Exhibit

ENVIRONMENTAL LIEN

Environmental Lien: Found Not Found

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

AULs: Found Not Found



RECORDING REQUESTED BY:

CTL

Escrow No. 13389-JC **Title Order No.** 26186289

When Recorded Mail Document and Tax Statement To: MR. WILLIAM J. MUNZER 4559 Francis Ave., Chino, CA 91710 Recorded in Official Records, County of San Bernardino

11/12/2002 8:00 AM VT



LARRY WALKER

Auditor/Controller — Recorder

607 Chicago Title Company

oc#: 2002 — 0608031



Titles:	1	Pages:	1
Fees		6.00	
Taxes		1,870.00	
Other		0.00	
PAID		\$1,876.00	

APN: 1013-211-21

GRANT DEED

SPACE ABOVE THIS LINE FOR RECORDER'S USE

The undersigned grantor(s) declare(s) Documentary transfer tax is \$ 1,870.00

[X] computed on full value of property conveyed, or

] computed on full value less value of liens or encumbrances remaining at time of sale,

Unincorporated Area City of CHINO

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, AMBROSIA FARM, a California Corporation

hereby GRANT(S) to WILLIAM J. MUNZER, an Unmarried Man

the following described real property in the City of CHINO, County of San Bernardino, State of California:

Parcel 2 of Parcel map No. 2464, in the County of San Bernardino, State of California, as per plat filed in Book 21 of Parcel maps, Page 64, in the office of the County Recorder of said County.

DATED: November 6, 2002

STATE OF CALIFORNIA

COUNTY OF Los Angeles
ON 11-07-02 before me,
_John Y. Liao personally appeared
_Chin-Te Lee

personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

Witness my hand and official seal.

Signature

AMBROSIA FARM, a California corporation

CHIN-TE LEE

JOHN Y. LIAO COMM. # 1303664 NOTARY PUBLIC-CALIFORNIA LOT ANGELES COUNTY COMM. EXP. MAY 6, 2005

MAIL TAX STATEMENTS AS DIRECTED ABOVE

APPENDIX E

Munzer Property 4568 and 4570 Francis Avenue Chino, CA 91710

Inquiry Number: 3813623.2s

December 17, 2013

The EDR Radius Map™ Report with GeoCheck®

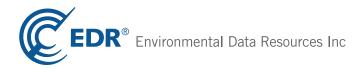


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Thank you for your business.Please contact EDR at 1-800-352-0050 with any questions or comments.

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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

4568 AND 4570 FRANCIS AVENUE CHINO, CA 91710

COORDINATES

Latitude (North): 34.0416000 - 34° 2' 29.76" Longitude (West): 117.7044000 - 117° 42' 15.84"

Universal Tranverse Mercator: Zone 11 UTM X (Meters): 434979.8 UTM Y (Meters): 3766797.8

Elevation: 847 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 34117-A6 ONTARIO, CA

Most Recent Revision: 1981

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year: 2012 Source: USDA

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list	
NPL	National Priority List

Proposed NPL..... Proposed National Priority List Sites NPL LIENS..... Federal Superfund Liens Federal Delisted NPL site list Delisted NPL..... National Priority List Deletions Federal CERCLIS list CERCLIS.... FEDERAL FACILITY..... Federal Facility Site Information listing Federal CERCLIS NFRAP site List CERC-NFRAP..... CERCLIS No Further Remedial Action Planned Federal RCRA CORRACTS facilities list CORRACTS..... Corrective Action Report Federal RCRA non-CORRACTS TSD facilities list RCRA-TSDF...... RCRA - Treatment, Storage and Disposal Federal RCRA generators list RCRA-LQG...... RCRA - Large Quantity Generators RCRA-SQG..... RCRA - Small Quantity Generators RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator Federal institutional controls / engineering controls registries US ENG CONTROLS..... Engineering Controls Sites List US INST CONTROL..... Sites with Institutional Controls LUCIS.....Land Use Control Information System Federal ERNS list ERNS..... Emergency Response Notification System State- and tribal - equivalent NPL RESPONSE...... State Response Sites State and tribal landfill and/or solid waste disposal site lists SWF/LF..... Solid Waste Information System State and tribal leaking storage tank lists LUST..... Geotracker's Leaking Underground Fuel Tank Report Statewide SLIC Cases INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land State and tribal registered storage tank lists

UST...... Active UST Facilities

State and tribal voluntary cleanup sites

VCP......Voluntary Cleanup Program Properties INDIAN VCP.....Voluntary Cleanup Priority Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

ODI_____Open Dump Inventory

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

WMUDS/SWAT...... Waste Management Unit Database

SWRCY..... Recycler Database

HAULERS...... Registered Waste Tire Haulers Listing

INDIAN ODI_____ Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL Clandestine Drug Labs
HIST Cal-Sites Historical Calsites Database

SCH....... School Property Evaluation Program Toxic Pits....... Toxic Pits Cleanup Act Sites

US HIST CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2...... CERCLA Lien Information
LIENS...... Environmental Liens Listing
DEED...... Deed Restriction Listing

Records of Emergency Release Reports

HMIRS...... Hazardous Materials Information Reporting System CHMIRS..... California Hazardous Material Incident Report System

LDS....... Land Disposal Sites Listing
MCS...... Military Cleanup Sites Listing
SPILLS 90...... SPILLS 90 data from FirstSearch

Other Ascertainable Records

CONSENT...... Superfund (CERCLA) Consent Decrees

TRIS...... Toxic Chemical Release Inventory System

TSCA...... Toxic Substances Control Act

FTTS_____FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide

Act)/TSCA (Toxic Substances Control Act)

HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing

SSTS..... Section 7 Tracking Systems

ICIS..... Integrated Compliance Information System

RMP....... Risk Management Plans CA BOND EXP. PLAN...... Bond Expenditure Plan

UIC Listing

NPDES Permits Listing

HIST CORTESE...... Hazardous Waste & Substance Site List

WIP..... Well Investigation Program Case List

ENF....... Enforcement Action Listing HAZNET....... Facility and Manifest Data EMI........ Emissions Inventory Data INDIAN RESERV....... Indian Reservations

SCRD DRYCLEANERS...... State Coalition for Remediation of Drycleaners Listing

MWMP Medical Waste Management Program Listing

COAL ASH DOE..... Steam-Electric Plant Operation Data

COAL ASH EPA...... Coal Combustion Residues Surface Impoundments List HWT...... Registered Hazardous Waste Transporter Database

HWP EnviroStor Permitted Facilities Listing
Financial Assurance Financial Assurance Information Listing
LEAD SMELTERS Lead Smelter Sites

LEAD SMELTERS..... Lead Smelter Sites

2020 COR ACTION.......... 2020 Corrective Action Program List

US AIRS..... Aerometric Information Retrieval System Facility Subsystem

PRP Potentially Responsible Parties
WDS Waste Discharge System
EPA WATCH LIST EPA WATCH LIST
LIS FIN ASSUR

US FIN ASSUR______ Financial Assurance Information PCB TRANSFORMER_____ PCB Transformer Registration Database

PROC..... Certified Processors Database

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP..... EDR Proprietary Manufactured Gas Plants EDR US Hist Cleaners..... EDR Exclusive Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in **bold italics** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 11/06/2013 has revealed that there are 2 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DODSON BROTHERS Status: Refer: Other Agency	10810 SOUTH MONTE VISTA	NNE 1/2 - 1 (0.936 mi.)	7	16
Lower Elevation	Address	Direction / Distance	Map ID	Page
CHINO EARLY EDUCATION CENTER Status: Certified	4562 AND 4578 PHILADELP	S 1/2 - 1 (0.506 mi.)	5	10

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Registered Storage Tanks

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there is 1 CA FID UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
M & M MARKET	4494 FRANCIS ST	WSW 0 - 1/8 (0.092 mi.)	A3	8

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there is 1 HIST UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
M & M MARKET	4494 FRANCIS AVE	WSW 0 - 1/8 (0.092 mi.)	A4	9

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there is 1 SWEEPS UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
M & M MARKET	4494 FRANCIS ST	WSW 0 - 1/8 (0.092 mi.)	A3	8

Other Ascertainable Records

Notify 65: Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

A review of the Notify 65 list, as provided by EDR, and dated 10/21/1993 has revealed that there is 1 Notify 65 site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	12080 CENTRAL AVENUE	ESE 1/2 - 1 (0.913 mi.)	6	15

San Bern. Co. Permit: San Bernardino County Fire Department Hazardous Materials Division.

A review of the San Bern. Co. Permit list, as provided by EDR, and dated 09/03/2013 has revealed that there is 1 San Bern. Co. Permit site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HOLT GARDEN CENTER	11602 RAMONA AVE	WNW 0 - 1/8 (0.085 mi.)	2	8

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR US Hist Auto Stat: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR

researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

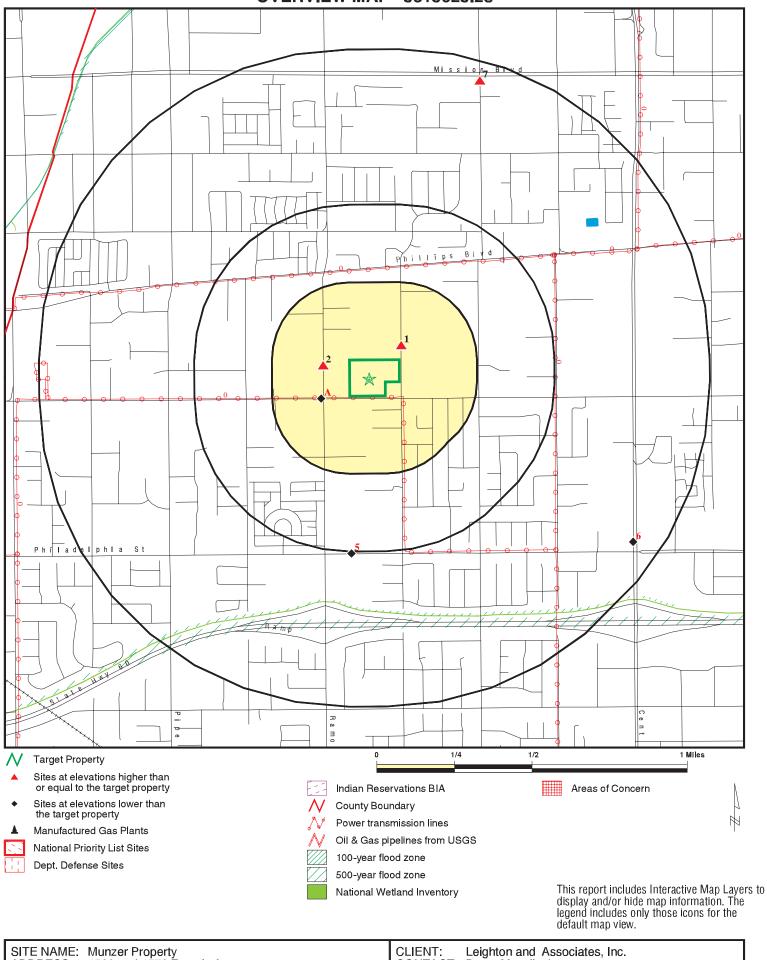
A review of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there is 1 EDR US Hist Auto Stat site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	11535 YORBA AVE	NE 0 - 1/8 (0.048 mi.)	1	8

Due to poor or inadequate address information, the following sites were not mapped. Count: 32 records.

Site Name	Database(s)
INLAND HILLS CHURCH	NPDES
PANATTONI CHINO RETAIL	NPDES
TRACT 15897	NPDES
	CDL
CONSOLIDATED FOUNDRIES - POMONA	CERC-NFRAP, CORRACTS, RCRA-LQG
CALTRANS D-8/CONSTR/EA08-0C0804	HAZNET
HVH TRANSPORTATION	HAZNET
VERIZON CALIFORNIA INC	HAZNET
GTE CALIFORNIA INC	HAZNET
1X DEPT OF REAL ESTATE/CAL-TRANS/D	HAZNET
EAGLE AUTO ENTERPRISES INC DBA ORR	HAZNET
RAGE PERFORMANCE INC	HAZNET
ORR AUTOMOTIVE	HAZNET
STRIP SHOP THE	HAZNET
BALFOUR BAETTI/ORTIZ A JOINT VENTU	HAZNET
HUD INTOWN PROPERTIES	HAZNET
FED-EX GROUND	HAZNET
CALTRANS D-8/EA08-0L0404	HAZNET
MCM CONSTRUCTION	HAZNET
M C M CONSTRUCTION	HAZNET
MCM CONSTRUCTION	HAZNET
MCM CONSTRUCTION	HAZNET
CALTRANS	HAZNET
CORITAS PALLETS	San Bern. Co. Permit
KMT OIL CO	EMI

OVERVIEW MAP - 3813623.2s



4568 and 4570 Francis Avenue Chino CA 91710 ADDRESS:

LAT/LONG: 34 0416 / 117 7044 CLIENT: Leighton and Ass CONTACT: Brynn Mcculloch Leighton and Associates, Inc.

3813623.2s

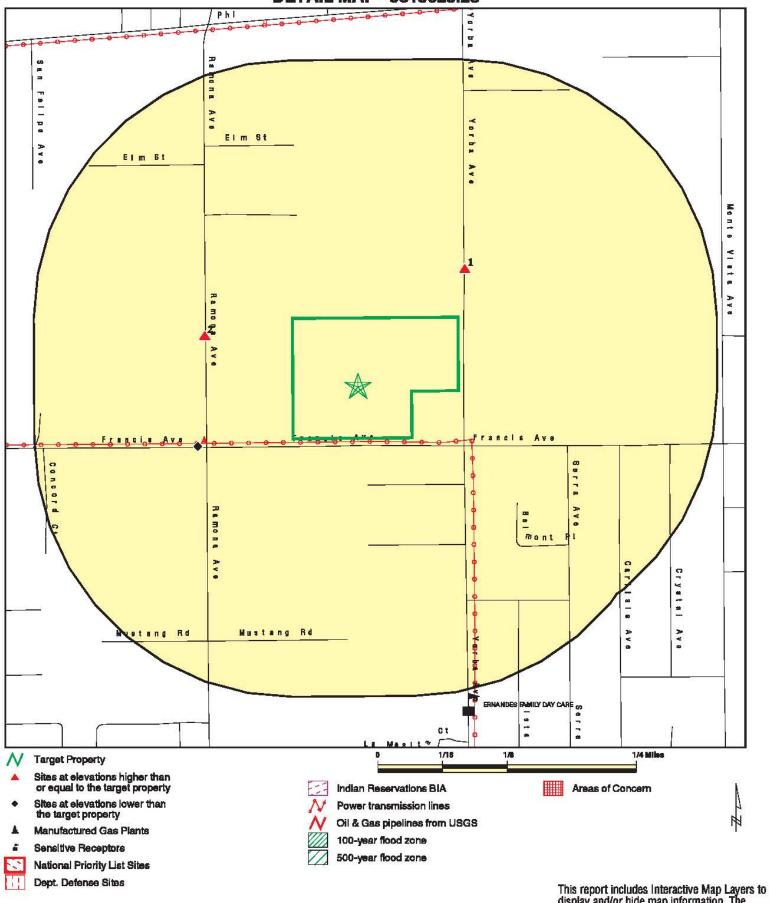
INQUIRY #:

DATE:

December 17, 2013 8:06 pm

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DETAIL MAP - 3813623.2s



display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Munzer Property
ADDRESS: 4568 and 4570 Francis Avenue
Chino CA 91710 LAT/LONG: 34.0416 / 117.7044

CLIENT: CONTACT: INQUIRY #: Leighton and Associates, Inc. **Brynn Mcculloch**

3813623.2s

DATE: December 17, 2013 8:07 pm

Copyright © 2013 EDR, Inc. © 2010 Tala Atlas Rel. 07/2008.

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENT	AL RECORDS							
Federal NPL site list								
NPL Proposed NPL NPL LIENS	1.000 1.000 0.001		0 0 0	0 0 NR	0 0 NR	0 0 NR	NR NR NR	0 0 0
Federal Delisted NPL site	e list							
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS FEDERAL FACILITY	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
Federal CERCLIS NFRAI	P site List							
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRAC	TS facilities li	st						
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-COR	RACTS TSD f	acilities list						
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generator	s list							
RCRA-LQG RCRA-SQG RCRA-CESQG	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
Federal institutional con engineering controls reg								
US ENG CONTROLS US INST CONTROL LUCIS	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equiva	lent NPL							
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equiva	lent CERCLIS	3						
ENVIROSTOR	1.000		0	0	0	2	NR	2
State and tribal landfill a solid waste disposal site								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking s	storage tank l	ists						
LUST	0.500		0	0	0	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SLIC INDIAN LUST	0.500 0.500		0	0 0	0 0	NR NR	NR NR	0 0
State and tribal registere	ed storage tar	nk lists						
UST AST INDIAN UST FEMA UST	0.250 0.250 0.250 0.250		0 0 0 0	0 0 0	NR NR NR NR	NR NR NR NR	NR NR NR NR	0 0 0
State and tribal voluntar	y cleanup site	es						
VCP INDIAN VCP	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
ADDITIONAL ENVIRONMEN	NTAL RECORDS	<u>s</u>						
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / S Waste Disposal Sites	Solid							
ODI DEBRIS REGION 9 WMUDS/SWAT SWRCY HAULERS INDIAN ODI	0.500 0.500 0.500 0.500 0.001 0.500		0 0 0 0 0	0 0 0 0 NR 0	0 0 0 0 NR 0	NR NR NR NR NR	NR NR NR NR NR	0 0 0 0 0
Local Lists of Hazardous Contaminated Sites	s waste /							
US CDL HIST Cal-Sites SCH Toxic Pits CDL US HIST CDL	0.001 1.000 0.250 1.000 0.001 0.001		0 0 0 0 0	NR 0 0 0 NR NR	NR 0 NR 0 NR NR	NR 0 NR 0 NR NR	NR NR NR NR NR	0 0 0 0 0
Local Lists of Registere	d Storage Tar	iks						
CA FID UST HIST UST SWEEPS UST	0.250 0.250 0.250		1 1 1	0 0 0	NR NR NR	NR NR NR	NR NR NR	1 1 1
Local Land Records								
LIENS 2 LIENS DEED	0.001 0.001 0.500		0 0 0	NR NR 0	NR NR 0	NR NR NR	NR NR NR	0 0 0
Records of Emergency I	Release Repo	rts						
HMIRS CHMIRS LDS	0.001 0.001 0.001		0 0 0	NR NR NR	NR NR NR	NR NR NR	NR NR NR	0 0 0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
MCS SPILLS 90	0.001 0.001		0	NR NR	NR NR	NR NR	NR NR	0 0
Other Ascertainable Re	cords							
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS TSCA	0.001		0	NR NB	NR NR	NR	NR NB	0
FTTS	0.001 0.001		0 0	NR NR	NR NR	NR NR	NR NR	0 0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		Ö	NR	NR	NR	NR	Ö
RADINFO	0.001		0	NR	NR	NR	NR	Ö
FINDS	0.001		0	NR	NR	NR	NR	Ö
RAATS	0.001		0	NR	NR	NR	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
Cortese	0.500		0	0	0	NR	NR	0
HIST CORTESE	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
Notify 65	1.000		0	0	0	1	NR	1
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
WIP ENF	0.250		0	0	NR	NR	NR	0
San Bern. Co. Permit	0.001 0.250		0 1	NR 0	NR NR	NR NR	NR NR	0 1
HAZNET	0.230		0	NR	NR	NR	NR	0
EMI	0.001		0	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		Ö	Ö	Ö	NR	NR	Ö
MWMP	0.250		Õ	Ö	NR	NR	NR	Ö
COAL ASH DOE	0.001		Ö	NR	NR	NR	NR	Ö
COAL ASH EPA	0.500		0	0	0	NR	NR	0
HWT	0.250		0	0	NR	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
US FIN ASSUR PCB TRANSFORMER PROC	0.001 0.001 0.500		0 0 0	NR NR 0	NR NR 0	NR NR NR	NR NR NR	0 0 0
EDR HIGH RISK HISTORICAL	RECORDS							
EDR Exclusive Records								
EDR MGP EDR US Hist Auto Stat EDR US Hist Cleaners	1.000 0.250 0.250		0 1 0	0 0 0	0 NR NR	0 NR NR	NR NR NR	0 1 0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID MAP FINDINGS

Direction Distance

Distance EDR ID Number Elevation Site EDR ID Number Database(s) EPA ID Number

EDR US Hist Auto Stat 1015169401

N/A

N/A

NE 11535 YORBA AVE < 1/8 CHINO, CA 91710

0.048 mi. 252 ft.

Relative: EDR Historical Auto Stations:

Higher Name: BAR W BARN REPAIR

Year: 2002

Actual: Address: 11535 YORBA AVE

855 ft.

2 HOLT GARDEN CENTER San Bern. Co. Permit \$109254383

WNW 11602 RAMONA AVE < 1/8 CHINO, CA 91710

0.085 mi. 447 ft.

Relative: San Bern. Co. Permit:

Higher Region: SAN BERNARDINO

Facility ID: FA0011729

Actual: Owner: PARK, MICHAEL

847 ft. Permit Number: PT0020340

Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES

Facility Status: INACTIVE Expiration Date: 08/31/2013

A3 M & M MARKET CA FID UST S101618794
WSW 4494 FRANCIS ST SWEEPS UST N/A

< 1/8 0.092 mi.

487 ft. Site 1 of 2 in cluster A

CHINO, CA 91710

Relative:

Lower

CA FID UST:
Facility ID: 36001756
Regulated By: UTNKA

Actual: 839 ft.

Regulated ID: 00052939 Cortese Code: Not reported Not reported SIC Code: Facility Phone: Not reported Mail To: Not reported Mailing Address: 4494 FRANCIS ST Mailing Address 2: Not reported **CHINO 91710** Mailing City, St, Zip: Contact: Not reported Not reported Contact Phone: **DUNs Number:** Not reported NPDES Number: Not reported EPA ID: Not reported Not reported Comments: Status: Active

SWEEPS UST:

Status: Active
Comp Number: 52939
Number: 9

Board Of Equalization: 44-021179 Referral Date: 07-28-92 Action Date: 07-28-92

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

M & M MARKET (Continued)

S101618794

Created Date: 02-29-88 Tank Status: Α Owner Tank Id:

Swrcb Tank Id: 36-000-052939-000001

Actv Date: 07-01-85 Capacity: 500 Tank Use: M.V. FUEL

Stg:

REG UNLEADED Content:

Number Of Tanks:

Status: Active Comp Number: 52939 Number:

Board Of Equalization: 44-021179 Referral Date: 07-28-92 07-28-92 Action Date: 02-29-88 Created Date: Tank Status: 2

Owner Tank Id:

Swrcb Tank Id: 36-000-052939-000002

Actv Date: 07-01-85 Capacity: Not reported M.V. FUEL Tank Use:

Stg:

REG UNLEADED Content: Not reported Number Of Tanks:

M & M MARKET 4494 FRANCIS AVE

< 1/8 0.092 mi.

Α4

WSW

487 ft. Site 2 of 2 in cluster A

Relative:

HIST UST:

CHINO, CA 91710

Lower Actual:

839 ft.

Region: STATE 00000052939 Facility ID: Facility Type: Gas Station Other Type: Not reported Total Tanks: 0002

Contact Name: Not reported 7146282617 Telephone:

YONG SUK BUCKENBERGER Owner Name: Owner Address: 2419 GARFIELD PLACE Owner City,St,Zip: ONTARIO, CA 91761

Tank Num: 001 Container Num: 1

Year Installed: Not reported Tank Capacity: 00000500 Tank Used for: **PRODUCT** Type of Fuel: UNLEADED Tank Construction: Not reported Leak Detection: Stock Inventor

Tank Num: 002 Container Num:

Year Installed: Not reported HIST UST U001568933

N/A

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

M & M MARKET (Continued) U001568933

Tank Capacity: 00000000 **PRODUCT** Tank Used for: Type of Fuel: **PREMIUM** Tank Construction: Not reported Leak Detection: None

CHINO EARLY EDUCATION CENTER SCH S106895171 **ENVIROSTOR** South **4562 AND 4578 PHILADELPHIA STREET** N/A

1/2-1 CHINO, CA 91710

0.506 mi. 2673 ft.

SCH: Relative:

Lower

Facility ID: 36880003 Actual: Site Type: School Cleanup 809 ft.

Site Type Detail: School

Site Mgmt. Req.: NONE SPECIFIED

Acres: 4.5 National Priorities List: NO Cleanup Oversight Agencies: **SMBRP** Lead Agency: **SMBRP**

DTSC - Site Cleanup Program Lead Agency Description:

Project Manager: Amit Pathak Supervisor: Shahir Haddad

Division Branch: Southern California Schools & Brownfields Outreach

Site Code: 404608 Assembly: 52 20 Senate:

Special Program Status: Voluntary Cleanup Program

Status: Certified 08/13/2008 Status Date: Restricted Use: NO School District Funding: 34.0335 Latitude: Longitude: -117.7054

APN: 1013-421-09, 1013-421-10, 1013-421-11, 1013-421-12, 101342109,

101342110, 101342111, 101342112

RESIDENTIAL AREA Past Use: Potential COC: Arsenic, Lead Confirmed COC: Arsenic, Lead Potential Description: SOIL

SAN BERNARDINO COUNTY SOS Alias Name:

Alias Type: Alternate Name

Alias Name: SAN BERNARDINO CSOS-PRPSD CHINO EARLY ED

Alias Type: Alternate Name Alias Name: 1013-421-09 APN Alias Type: Alias Name: 1013-421-10 Alias Type: APN Alias Name: 1013-421-11 Alias Type: APN Alias Name: 1013-421-12 Alias Type: APN Alias Name: 101342109 Alias Type: APN Alias Name: 101342110 Alias Type: APN

Direction Distance

Elevation Site Database(s) EPA ID Number

CHINO EARLY EDUCATION CENTER (Continued)

S106895171

EDR ID Number

 Alias Name:
 101342111

 Alias Type:
 APN

 Alias Name:
 101342112

 Alias Type:
 APN

 Alias Name:
 1100336204

Alias Name: 110033620482
Alias Type: EPA (FRS #)
Alias Name: 404608

Alias Type: Project Code (Site Code)

Alias Name: 36880003

Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Site Inspections/Visit (Non LUR)

Completed Date: 05/27/2005 Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: School Cleanup Agreement

Completed Date: 04/06/2007

Comments: Signed Agreement sent overnight mail to District.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Completed Date: 07/11/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Environmental Oversight Agreement

Completed Date: 03/07/2005

Comments: DTSC entered into an Environmental Oversight Agreement (Docket Number

HSA-A 04/05-133) with the San Bernardino County Superintendent of Schools to provide oversight for a Preliminary Endangerment Assessment for the proposed Chino Early Education Center.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Site Inspections/Visit (Non LUR)

Completed Date: 05/23/2005 Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Cost Recovery Closeout Memo

Completed Date: 08/12/2008

Comments: DTSC prepared project close out Cost Recovery Unit Memorandum

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Preliminary Endangerment Assessment Workplan

Completed Date: 05/12/2005 Comments: Not reported

Completed Area Name: PROJECT WIDE

Direction Distance

Elevation Site Database(s) EPA ID Number

CHINO EARLY EDUCATION CENTER (Continued)

S106895171

EDR ID Number

Completed Sub Area Name: Not reported

Completed Document Type: Preliminary Endangerment Assessment Report

Completed Date: 10/26/2005

Comments: Completed with SSI/RAW for Arsenic/Lead

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Supplemental Site Investigation Workplan

Completed Date: 03/20/2006 Comments: Approved for SSI

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Supplemental Site Investigation Report

Completed Date: 09/08/2006

Comments: DTSC issued Further Action determination based on a Supplemental Site

Investigation Report. A removal action for Arsenic and Lead is

required.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Removal Action Workplan

Completed Date: 10/25/2007

Comments: DTSC concurred with the adequacy of the Draft RAW pending public

comments.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4.15 Request
Completed Date: 04/05/2007

Comments: DTSC approved based on the furure draft RAW Approval

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Removal Action Completion Report

Completed Date: 05/15/2008
Comments: Accepted as Final.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: CEQA - Notice of Exemption

Completed Date: 10/31/2007

Comments: DTSC filed Notice of Exemption pursuant to California Environmental

Quality Act.

Future Area Name: Not reported Future Sub Area Name: Not reported Future Document Type: Not reported Future Due Date: Not reported Not reported Schedule Area Name: Schedule Sub Area Name: Not reported Schedule Document Type: Not reported Schedule Due Date: Not reported Schedule Revised Date: Not reported

ENVIROSTOR:

Site Type: School Cleanup

Direction Distance

Elevation Site Database(s) EPA ID Number

CHINO EARLY EDUCATION CENTER (Continued)

S106895171

EDR ID Number

Site Type Detailed: School
Acres: 4.5
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Amit Pathak
Supervisor: Shahir Haddad

Division Branch: Southern California Schools & Brownfields Outreach

Facility ID: 36880003
Site Code: 404608
Assembly: 52
Senate: 20

Special Program: Voluntary Cleanup Program

Status: Certified
Status Date: 08/13/2008
Restricted Use: NO

Site Mgmt. Req.: NONE SPECIFIED Funding: School District Latitude: 34.0335 Longitude: -117.7054

APN: 1013-421-09, 1013-421-10, 1013-421-11, 1013-421-12, 101342109,

101342110, 101342111, 101342112

Past Use: RESIDENTIAL AREA Potential COC: Arsenic, Lead

Confirmed COC: Arsenic, Lead, Arsenic, Lead

Potential Description: SOIL

Alias Name: SAN BERNARDINO COUNTY SOS

Alias Type: Alternate Name

Alias Name: SAN BERNARDINO CSOS-PRPSD CHINO EARLY ED

Alias Type: Alternate Name Alias Name: 1013-421-09 Alias Type: APN Alias Name: 1013-421-10 Alias Type: APN Alias Name: 1013-421-11 APN Alias Type: Alias Name: 1013-421-12 Alias Type: APN Alias Name: 101342109 Alias Type: APN Alias Name: 101342110 Alias Type: APN Alias Name: 101342111

 Alias Type:
 APN

 Alias Name:
 101342112

 Alias Type:
 APN

 Alias Name:
 110033620482

 Alias Type:
 EPA (FRS #)

 Alias Name:
 404608

Alias Type: Project Code (Site Code)

Alias Name: 36880003

Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Site Inspections/Visit (Non LUR)

Completed Date: 05/27/2005

Direction

Elevation Site Database(s) EPA ID Number

CHINO EARLY EDUCATION CENTER (Continued)

S106895171

EDR ID Number

Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: School Cleanup Agreement

Completed Date: 04/06/2007

Comments: Signed Agreement sent overnight mail to District.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
07/11/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Environmental Oversight Agreement

Completed Date: 03/07/2005

Comments: DTSC entered into an Environmental Oversight Agreement (Docket Number

HSA-A 04/05-133) with the San Bernardino County Superintendent of Schools to provide oversight for a Preliminary Endangerment Assessment for the proposed Chino Early Education Center.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Site Inspections/Visit (Non LUR)

Completed Date: 05/23/2005 Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Cost Recovery Closeout Memo

Completed Date: 08/12/2008

Comments: DTSC prepared project close out Cost Recovery Unit Memorandum

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Preliminary Endangerment Assessment Workplan

Completed Date: 05/12/2005 Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Preliminary Endangerment Assessment Report

Completed Date: 10/26/2005

Comments: Completed with SSI/RAW for Arsenic/Lead

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

Completed Document Type: Supplemental Site Investigation Workplan

Completed Date: 03/20/2006 Comments: Approved for SSI

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Supplemental Site Investigation Report

Completed Date: 09/08/2006

Direction Distance

Elevation Site Database(s) EPA ID Number

CHINO EARLY EDUCATION CENTER (Continued)

S106895171

EDR ID Number

Comments: DTSC issued Further Action determination based on a Supplemental Site

Investigation Report. A removal action for Arsenic and Lead is

required.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Removal Action Workplan

Completed Date: 10/25/2007

Comments: DTSC concurred with the adequacy of the Draft RAW pending public

comments.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4.15 Request
Completed Date: 04/05/2007

Comments: DTSC approved based on the furure draft RAW Approval

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Removal Action Completion Report

Completed Date: 05/15/2008 Comments: Accepted as Final.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: CEQA - Notice of Exemption

Completed Date: 10/31/2007

Comments: DTSC filed Notice of Exemption pursuant to California Environmental

Quality Act.

Future Area Name: Not reported Future Sub Area Name: Not reported Not reported Future Document Type: Future Due Date: Not reported Not reported Schedule Area Name: Not reported Schedule Sub Area Name: Schedule Document Type: Not reported Schedule Due Date: Not reported Schedule Revised Date: Not reported

6 Notify 65 \$100231962 ESE 12080 CENTRAL AVENUE N/A

1/2-1 0.913 mi. 4820 ft.

Actual:

829 ft.

Relative: Notify 65:

Lower Date Reported: Not reported

CHINO, CA 91710

Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported

Discharge Date: Not reported Incident Description: 91710-1907

Direction Distance

Distance Elevation Site EDR ID Number

EDR ID Number

EPA ID Number

7 DODSON BROTHERS SLIC S100184119
NNE 10810 SOUTH MONTE VISTA AVENUE ENVIROSTOR N/A

NNE 10810 SOUTH MONTE VISTA AVENUE 1/2-1 MONTCLAIR, CA

0.936 mi. 4943 ft.

Relative: SLIC:

Higher Region: STATE

Facility Status: Completed - Case Closed

 Actual:
 Status Date:
 12/17/1998

 921 ft.
 Global Id:
 SLT8R0293914

Lead Agency: US ENVIRONMENTAL PROTECTION AGENCY

Lead Agency Case Number: Not reported
Latitude: 34.0583260271275
Longitude: -117.699226140976
Case Type: Cleanup Program Site

Case Worker: Not reported Local Agency: Not reported RB Case Number: SLT8R029 File Location: Not reported Potential Media Affected: Not reported

Potential Contaminants of Concern: * Chlorinated Solvents - PCE, * Chlorinated Solvents - TCE, *

Perchlorate, * Petroleum - Other, * Volatile Organic Compounds (VOC)

Site History: Not reported

Click here to access the California GeoTracker records for this facility:

ENVIROSTOR:

Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 7.4
NPL: NO

Regulatory Agencies: NONE SPECIFIED Lead Agency: NONE SPECIFIED Program Manager: Not reported Supervisor: * Greg Holmes Division Branch: Cleanup Cypress Facility ID: 36290064 Not reported Site Code: Assembly: 52

Senate: 20
Special Program: EPA - PASI
Status: Refer: Other Agency

Status Date: 06/01/1995

Restricted Use: NO

Site Mgmt. Req.: NONE SPECIFIED Funding: Not reported Latitude: 34.0675 Longitude: -117.6983 APN: NONE SPECIFIED

Past Use: NONE SPECIFIED NONE SPECIFIED Potential COC: NONE SPECIFIED

Confirmed COC: NONE SPECIFIED, NONE SPECIFIED

Potential Description: NONE SPECIFIED

Alias Name: Dodson Brothers Oil, Dodson Bros. Oil

Alias Type: Former EPA - Previous Site

Alias Name: CAT080014194

Alias Type: EPA Identification Number

Alias Name: 36290064

Direction Distance Elevation

Elevation Site Database(s) EPA ID Number

DODSON BROTHERS (Continued)

S100184119

EDR ID Number

Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/02/1995

Comments: EPA lead. Soil at this site is contaminated with Cadmium

1,2-dichlorobenzene, ethylbenzene, PCBs, toluene, PCE, 1,1,1-TCA, TCE, xylene and lead. No gw contamination detected. Further analysis

indicates that in addition to the above contaminants Benzene,

1,1-DCA, 1,1,2-TCA were also detected.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 02/09/1993
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 02/14/1992

Comments: SSI Report was reviewed by Region 4 staff. Dodson operated the site

from 1975 to 1982 as a disposal, transfer and stor- age facility for waste fuel, waste oil and other liquid wastes. Land treatment at the site consisted of spray dis- persing the water-based wastes from a tanker truck while driving over approx. 7.4 acres of unpaved areas. The area is bordered by: State St. to the north, Mission Ave. to the south, Monte Vista Ave. to the east, and single family residences to

the west.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Preliminary Assessment Report

Completed Date: 01/18/1988

Comments: PRELIM ASSESS DONE HIGH PRIORITY SSI; POTENTIAL FOR HIGH TOXIC

PERSISTENCE AND GROUNDWATER CONTMN

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/16/2007

Comments: Site Screening approved by Matt Mitguard of U.S. EPA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 10/12/1983

Comments: FACILITY IDENTIFIED ID FROM ERRIS

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 04/14/1983

Comments: FACILITY IDENTIFIED EPA GENERATOR LIST

Completed Area Name: PROJECT WIDE

Map ID MAP FINDINGS Direction

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

DODSON BROTHERS (Continued)

S100184119

Completed Sub Area Name: Not reported Completed Document Type: Site Screening Completed Date: 06/01/1995

Comments: 11/29/94. EPA Lead. Soil at the site is contaminated with cadmium,

1,2-dichlorobenzene, ethylbenzene, PCBs, toluene, PCE, 1,1,1-TCA, TCE, xylene and lead. No groundwater contamination detected.

Further analysis indicates that in addition to the above

contaminants, Benzene, 1,1-DCA, 1,1,2-TCA were also detected. NFA

for DTSC.

Not reported Future Area Name: Future Sub Area Name: Not reported Future Document Type: Not reported Future Due Date: Not reported Not reported Schedule Area Name: Not reported Schedule Sub Area Name: Not reported Schedule Document Type: Schedule Due Date: Not reported Schedule Revised Date: Not reported

Count: 32 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CHINO	S112974230	CALTRANS D-8/CONSTR/EA08-0C0804	RTE 60 PM R3.4-R3.6	91710	HAZNET
CHINO	S112864654	HVH TRANSPORTATION	HWY 60-1/2 MI. EAST OF CENTRAL	91710	HAZNET
CHINO	1006249067	KMT OIL CO	HWY 71 NEAR EUCLID	91710	EMI
CHINO	S112944559	VERIZON CALIFORNIA INC	CORNER OF YORBA AVE & CORONA S	91710	HAZNET
CHINO	S109446643	INLAND HILLS CHURCH	RAMONA AVE BTW LITTLE CHINO CR		NPDES
CHINO	S109453496	PANATTONI CHINO RETAIL	SEC OF EUCALYPTUS AVE & RAMONA	91710	NPDES
CHINO	S112884694	GTE CALIFORNIA INC	YORBA AVE NORTH OF SHAFFER	91710	HAZNET
CHINO HILLS	S112854684	1X DEPT OF REAL ESTATE/CAL-TRANS/D	14963 RAMONA AVE	91710	HAZNET
MONTCLAIR	S113802072	EAGLE AUTO ENTERPRISES INC DBA ORR	4701 ARROW HWY STE B&C	91763	HAZNET
MONTCLAIR	S113118950	RAGE PERFORMANCE INC	5637 ARROW HWY UNIT J&K	91763	HAZNET
MONTCLAIR	S113051232	ORR AUTOMOTIVE	4711 A ARROW HWY	91763	HAZNET
MONTCLAIR	S113011579	STRIP SHOP THE	5601 C ARROW HWY	91763	HAZNET
MONTCLAIR	S112931104	BALFOUR BAETTI/ORTIZ A JOINT VENTU	4952 B ARROW HWY	91763	HAZNET
MONTCLAIR	S109461482	TRACT 15897	SEQ OF RAMONA AVE & PALO VERDE	91763	NPDES
ONTARIO	S112900738	HUD INTOWN PROPERTIES	1039 FRANCIS AVE W # A	91762	HAZNET
ONTARIO	S112985644	FED-EX GROUND	MOUNTAIN AVE OFFRAMP OF HWY 60	91762	HAZNET
ONTARIO	S113771268	CALTRANS D-8/EA08-0L0404	STATE ROUTE 60 PM R4.8	91762	HAZNET
POMONA	S112883206	MCM CONSTRUCTION	2600 S ROUTE 71	91766	HAZNET
POMONA	S112843618	M C M CONSTRUCTION	2600 S ROUTE 71	91766	HAZNET
POMONA	S112840938	MCM CONSTRUCTION	2600 SOUTH ROUTE 71	91766	HAZNET
POMONA	S112880359	MCM CONSTRUCTION	2600 STAR ROUTE 71	91766	HAZNET
POMONA	1015732781	CONSOLIDATED FOUNDRIES - POMONA	4200 WEST VALLEY BOULEVARD	91766	CERC-NFRAP, CORRACTS, RCRA-L(
SAN BERNARDINO COUNT	S107538721		HIGHWAY 138 E OF HIGHWAY 2		CDL
SAN BERNARDINO COUNT	S107538848		HWY 18, 3 MILES NO OF WATERMAN		CDL
SAN BERNARDINO COUNT	S107538165		CORNER OF HWY 247 & 18 AND 76		CDL
SAN BERNARDINO COUNT	S107539873		ON HIGHWAY 395, 2 MILES NORTH		CDL
SAN BERNARDINO COUNT	S107539885		ON HWY 138, 1 1/2 MI W OF HWY		CDL
SAN BERNARDINO COUNT	S107532438		3 1/2 MI E OF BEAR VALLEY & HW		CDL
SAN BERNARDINO COUNT	S107540506		ROAD INO9, 3/2 MI E OF HWY 330		CDL
SAN BERNARDINO COUNT	S107540087		ON STATE HIGHWAY 173, ~2 MILES		CDL
UPLAND	S106911265	CORITAS PALLETS	2209 W ARROW RTE B	91763	San Bern. Co. Permit
UPLAND	S112903859	CALTRANS	SOUTHEAST OF EUCLID AVE & ROUT	91762	HAZNET

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/26/2013 Source: EPA
Date Data Arrived at EDR: 05/09/2013 Telephone: N/A

Number of Days to Update: 62 Next Scheduled EDR Contact: 01/20/2014
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1 EPA Region 6

Telephone 617-918-1143 Telephone: 214-655-6659

EPA Region 3 EPA Region 7

Telephone 215-814-5418 Telephone: 913-551-7247

EPA Region 4 EPA Region 8

Telephone 404-562-8033 Telephone: 303-312-6774

EPA Region 5 EPA Region 9

Telephone 312-886-6686 Telephone: 415-947-4246

EPA Region 10

Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/26/2013 Source: EPA
Date Data Arrived at EDR: 05/09/2013 Telephone: N/A

Number of Days to Update: 62 Next Scheduled EDR Contact: 01/20/2014
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991 Date Data Arrived at EDR: 02/02/1994 Date Made Active in Reports: 03/30/1994

Number of Days to Update: 56

Source: EPA Telephone: 202-564-4267 Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: No Update Planned

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/26/2013 Date Data Arrived at EDR: 05/09/2013 Date Made Active in Reports: 07/10/2013

Number of Days to Update: 62

Source: EPA Telephone: N/A

Last EDR Contact: 11/11/2013

Next Scheduled EDR Contact: 01/20/2014 Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/26/2013 Date Data Arrived at EDR: 05/29/2013 Date Made Active in Reports: 08/09/2013

Number of Days to Update: 72

Source: EPA

Telephone: 703-412-9810 Last EDR Contact: 11/11/2013

Next Scheduled EDR Contact: 03/10/2014 Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 05/31/2013 Date Data Arrived at EDR: 07/08/2013 Date Made Active in Reports: 12/06/2013

Number of Days to Update: 151

Source: Environmental Protection Agency

Telephone: 703-603-8704 Last EDR Contact: 10/11/2013

Next Scheduled EDR Contact: 01/20/2014 Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 04/26/2013 Date Data Arrived at EDR: 05/29/2013 Date Made Active in Reports: 08/09/2013

Number of Days to Update: 72

Source: EPA

Telephone: 703-412-9810 Last EDR Contact: 11/11/2013

Next Scheduled EDR Contact: 03/10/2014 Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/10/2013 Date Data Arrived at EDR: 10/02/2013 Date Made Active in Reports: 12/16/2013

Number of Days to Update: 75

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 10/02/2013

Next Scheduled EDR Contact: 01/13/2014 Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 10/02/2013
Date Made Active in Reports: 12/16/2013

Number of Days to Update: 75

Source: Environmental Protection Agency

Telephone: (415) 495-8895 Last EDR Contact: 10/02/2013

Next Scheduled EDR Contact: 01/13/2014 Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/10/2013 Date Data Arrived at EDR: 10/02/2013 Date Made Active in Reports: 12/16/2013

Number of Days to Update: 75

Source: Environmental Protection Agency

Telephone: (415) 495-8895 Last EDR Contact: 10/02/2013

Next Scheduled EDR Contact: 01/13/2014 Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 09/10/2013 Date Data Arrived at EDR: 10/02/2013 Date Made Active in Reports: 12/16/2013

Number of Days to Update: 75

Source: Environmental Protection Agency

Telephone: (415) 495-8895 Last EDR Contact: 10/02/2013

Next Scheduled EDR Contact: 01/13/2014 Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/10/2013 Date Data Arrived at EDR: 10/02/2013 Date Made Active in Reports: 12/16/2013

Number of Days to Update: 75

Source: Environmental Protection Agency

Telephone: (415) 495-8895 Last EDR Contact: 10/02/2013

Next Scheduled EDR Contact: 01/13/2014 Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 06/17/2013 Date Data Arrived at EDR: 06/21/2013 Date Made Active in Reports: 10/03/2013 Number of Days to Update: 104

Source: Environmental Protection Agency Telephone: 703-603-0695 Last EDR Contact: 12/09/2013

Next Scheduled EDR Contact: 03/24/2014 Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 06/17/2013 Date Data Arrived at EDR: 06/21/2013 Date Made Active in Reports: 10/03/2013 Source: Environmental Protection Agency Telephone: 703-603-0695 Last EDR Contact: 12/09/2013

Next Scheduled EDR Contact: 03/24/2014

Number of Days to Update: 104

Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 08/20/2013 Date Data Arrived at EDR: 08/23/2013 Date Made Active in Reports: 11/01/2013 Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 11/18/2013

Number of Days to Update: 70

Next Scheduled EDR Contact: 03/03/2014 Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/30/2013 Date Data Arrived at EDR: 10/01/2013 Date Made Active in Reports: 12/06/2013 Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 10/01/2013

Number of Days to Update: 66

Next Scheduled EDR Contact: 01/13/2014 Data Release Frequency: Annually

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity.

These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 11/06/2013 Date Data Arrived at EDR: 11/06/2013 Date Made Active in Reports: 12/03/2013 Source: Department of Toxic Substances Control Telephone: 916-323-3400 Last EDR Contact: 11/06/2013

Number of Days to Update: 27

Next Scheduled EDR Contact: 02/17/2014

Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 11/06/2013 Date Data Arrived at EDR: 11/06/2013 Date Made Active in Reports: 12/03/2013

Number of Days to Update: 27

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 11/06/2013

Next Scheduled EDR Contact: 02/17/2014 Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 08/19/2013 Date Data Arrived at EDR: 08/19/2013 Date Made Active in Reports: 10/08/2013

Number of Days to Update: 50

Source: Department of Resources Recycling and Recovery

Telephone: 916-341-6320 Last EDR Contact: 11/21/2013

Next Scheduled EDR Contact: 03/03/2014 Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004 Date Data Arrived at EDR: 09/07/2004 Date Made Active in Reports: 10/12/2004

Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)

Telephone: 213-576-6710 Last EDR Contact: 09/06/2011

Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003 Date Data Arrived at EDR: 05/19/2003 Date Made Active in Reports: 06/02/2003

Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)

Telephone: 805-542-4786 Last EDR Contact: 07/18/2011

Next Scheduled EDR Contact: 10/31/2011 Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004 Date Data Arrived at EDR: 10/20/2004 Date Made Active in Reports: 11/19/2004

Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)

Telephone: 510-622-2433 Last EDR Contact: 09/19/2011

Next Scheduled EDR Contact: 01/02/2012 Data Release Frequency: Quarterly

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003 Date Data Arrived at EDR: 09/10/2003 Date Made Active in Reports: 10/07/2003

Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)

Telephone: 530-542-5572 Last EDR Contact: 09/12/2011

Next Scheduled EDR Contact: 12/26/2011 Data Release Frequency: No Update Planned

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 10/16/2013 Date Data Arrived at EDR: 10/17/2013 Date Made Active in Reports: 11/27/2013

Number of Days to Update: 41

Source: State Water Resources Control Board

Telephone: see region list Last EDR Contact: 12/17/2013

Next Scheduled EDR Contact: 03/31/2014 Data Release Frequency: Quarterly

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001 Date Data Arrived at EDR: 04/23/2001 Date Made Active in Reports: 05/21/2001

Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)

Telephone: 858-637-5595 Last EDR Contact: 09/26/2011

Next Scheduled EDR Contact: 01/09/2012 Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005 Date Data Arrived at EDR: 06/07/2005 Date Made Active in Reports: 06/29/2005

Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)

Telephone: 760-241-7365 Last EDR Contact: 09/12/2011

Next Scheduled EDR Contact: 12/26/2011 Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008 Date Data Arrived at EDR: 07/22/2008 Date Made Active in Reports: 07/31/2008

Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)

Telephone: 916-464-4834 Last EDR Contact: 07/01/2011

Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005 Date Data Arrived at EDR: 02/15/2005 Date Made Active in Reports: 03/28/2005

Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)

Telephone: 909-782-4496 Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: Varies

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004 Date Data Arrived at EDR: 02/26/2004 Date Made Active in Reports: 03/24/2004

Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)

Telephone: 760-776-8943 Last EDR Contact: 08/01/2011

Next Scheduled EDR Contact: 11/14/2011 Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001 Date Data Arrived at EDR: 02/28/2001 Date Made Active in Reports: 03/29/2001

Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)

Telephone: 707-570-3769 Last EDR Contact: 08/01/2011

Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC: Statewide SLIC Cases

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 10/16/2013 Date Data Arrived at EDR: 10/17/2013 Date Made Active in Reports: 11/27/2013

Number of Days to Update: 41

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 12/17/2013

Next Scheduled EDR Contact: 03/31/2014

Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003 Date Data Arrived at EDR: 04/07/2003 Date Made Active in Reports: 04/25/2003

Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)

Telephone: 707-576-2220 Last EDR Contact: 08/01/2011

Next Scheduled EDR Contact: 11/14/2011 Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004 Date Data Arrived at EDR: 10/20/2004 Date Made Active in Reports: 11/19/2004

Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)

Telephone: 510-286-0457 Last EDR Contact: 09/19/2011

Next Scheduled EDR Contact: 01/02/2012 Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006 Date Data Arrived at EDR: 05/18/2006 Date Made Active in Reports: 06/15/2006

Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)

Telephone: 805-549-3147 Last EDR Contact: 07/18/2011

Next Scheduled EDR Contact: 10/31/2011 Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004 Date Data Arrived at EDR: 11/18/2004 Date Made Active in Reports: 01/04/2005

Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)

Telephone: 213-576-6600 Last EDR Contact: 07/01/2011

Next Scheduled EDR Contact: 10/17/2011 Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005 Date Data Arrived at EDR: 04/05/2005 Date Made Active in Reports: 04/21/2005

Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)

Telephone: 916-464-3291 Last EDR Contact: 09/12/2011

Next Scheduled EDR Contact: 12/26/2011 Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005 Date Data Arrived at EDR: 05/25/2005 Date Made Active in Reports: 06/16/2005

Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch

Telephone: 619-241-6583 Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004 Date Data Arrived at EDR: 09/07/2004 Date Made Active in Reports: 10/12/2004

Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region

Telephone: 530-542-5574 Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004 Date Data Arrived at EDR: 11/29/2004 Date Made Active in Reports: 01/04/2005

Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region

Telephone: 760-346-7491 Last EDR Contact: 08/01/2011

Next Scheduled EDR Contact: 11/14/2011 Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008 Date Data Arrived at EDR: 04/03/2008 Date Made Active in Reports: 04/14/2008

Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)

Telephone: 951-782-3298 Last EDR Contact: 09/12/2011

Next Scheduled EDR Contact: 12/26/2011 Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007 Date Data Arrived at EDR: 09/11/2007 Date Made Active in Reports: 09/28/2007

Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)

Telephone: 858-467-2980 Last EDR Contact: 08/08/2011

Next Scheduled EDR Contact: 11/21/2011 Data Release Frequency: Annually

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 08/27/2013 Date Data Arrived at EDR: 08/27/2013 Date Made Active in Reports: 11/01/2013

Number of Days to Update: 66

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 08/20/2013 Date Data Arrived at EDR: 08/23/2013 Date Made Active in Reports: 11/01/2013

Number of Days to Update: 70

Source: EPA, Region 5 Telephone: 312-886-7439 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/06/2013 Date Data Arrived at EDR: 11/07/2013 Date Made Active in Reports: 12/06/2013

Number of Days to Update: 29

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 03/01/2013 Date Data Arrived at EDR: 03/01/2013 Date Made Active in Reports: 04/12/2013

Number of Days to Update: 42

Source: Environmental Protection Agency Telephone: 415-972-3372

Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/27/2012 Date Data Arrived at EDR: 08/28/2012 Date Made Active in Reports: 10/16/2012

Number of Days to Update: 49

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011 Date Data Arrived at EDR: 09/13/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 59

Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 08/01/2013 Date Data Arrived at EDR: 08/02/2013 Date Made Active in Reports: 11/01/2013

Number of Days to Update: 91

Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/01/2013 Date Data Arrived at EDR: 05/01/2013 Date Made Active in Reports: 11/01/2013

Number of Days to Update: 184

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 11/01/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Varies

State and tribal registered storage tank lists

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 10/16/2013 Date Data Arrived at EDR: 10/17/2013 Date Made Active in Reports: 11/27/2013

Number of Days to Update: 41

Source: SWRCB Telephone: 916-341-5851 Last EDR Contact: 12/17/2013

Next Scheduled EDR Contact: 03/31/2014 Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 08/01/2009 Date Data Arrived at EDR: 09/10/2009 Date Made Active in Reports: 10/01/2009

Number of Days to Update: 21

Source: California Environmental Protection Agency

Telephone: 916-327-5092 Last EDR Contact: 10/07/2013

Next Scheduled EDR Contact: 01/20/2014 Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 02/05/2013 Date Data Arrived at EDR: 02/06/2013 Date Made Active in Reports: 04/12/2013

Number of Days to Update: 65

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 07/29/2013 Date Data Arrived at EDR: 07/30/2013 Date Made Active in Reports: 12/06/2013

Number of Days to Update: 129

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 07/29/2013 Date Data Arrived at EDR: 08/01/2013 Date Made Active in Reports: 11/01/2013

Number of Days to Update: 92

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 12/31/2012 Date Data Arrived at EDR: 02/28/2013 Date Made Active in Reports: 04/12/2013

Number of Days to Update: 43

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011 Date Data Arrived at EDR: 05/11/2011 Date Made Active in Reports: 06/14/2011

Number of Days to Update: 34

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 08/20/2013 Date Data Arrived at EDR: 08/23/2013 Date Made Active in Reports: 11/01/2013

Number of Days to Update: 70

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 08/01/2013 Date Data Arrived at EDR: 08/02/2013 Date Made Active in Reports: 11/01/2013

Number of Days to Update: 91

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 09/28/2012 Date Data Arrived at EDR: 11/07/2012 Date Made Active in Reports: 04/12/2013

Number of Days to Update: 156

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 11/01/2014

Next Scheduled EDR Contact: 02/11/2014

Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010 Date Data Arrived at EDR: 02/16/2010 Date Made Active in Reports: 04/12/2010

Number of Days to Update: 55

Source: FEMA

Telephone: 202-646-5797 Last EDR Contact: 10/17/2013

Next Scheduled EDR Contact: 01/27/2014 Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 04/20/2009

Next Scheduled EDR Contact: 07/20/2009 Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 11/06/2013 Date Data Arrived at EDR: 11/06/2013 Date Made Active in Reports: 12/03/2013

Number of Days to Update: 27

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 11/06/2013

Next Scheduled EDR Contact: 02/17/2014 Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/17/2013 Date Data Arrived at EDR: 10/01/2013 Date Made Active in Reports: 12/06/2013

Number of Days to Update: 66

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 10/01/2013

Next Scheduled EDR Contact: 01/13/2014 Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 09/24/2013 Date Data Arrived at EDR: 09/24/2013 Date Made Active in Reports: 12/06/2013

Number of Days to Update: 73

Source: Environmental Protection Agency Telephone: 202-566-2777

Last EDR Contact: 09/24/2013

Next Scheduled EDR Contact: 01/08/2014 Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985 Date Data Arrived at EDR: 08/09/2004 Date Made Active in Reports: 09/17/2004

Number of Days to Update: 39

Source: Environmental Protection Agency

Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009 Date Data Arrived at EDR: 05/07/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 137

Source: EPA, Region 9 Telephone: 415-947-4219 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: No Update Planned

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000 Date Data Arrived at EDR: 04/10/2000 Date Made Active in Reports: 05/10/2000

Number of Days to Update: 30

Source: State Water Resources Control Board

Telephone: 916-227-4448 Last EDR Contact: 11/08/2013

Next Scheduled EDR Contact: 02/24/2014 Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 09/16/2013 Date Data Arrived at EDR: 09/19/2013 Date Made Active in Reports: 10/17/2013

Number of Days to Update: 28

Source: Department of Conservation

Telephone: 916-323-3836 Last EDR Contact: 12/17/2013

Next Scheduled EDR Contact: 03/31/2014 Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing A listing of registered waste tire haulers.

Date of Government Version: 10/23/2013 Date Data Arrived at EDR: 10/29/2013 Date Made Active in Reports: 12/05/2013

Number of Days to Update: 37

Source: Integrated Waste Management Board

Telephone: 916-341-6422 Last EDR Contact: 11/18/2013

Next Scheduled EDR Contact: 03/03/2014 Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 01/24/2008

Number of Days to Update: 52

Source: Environmental Protection Agency

Telephone: 703-308-8245 Last EDR Contact: 11/04/2013

Next Scheduled EDR Contact: 02/17/2014

Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 08/06/2013 Date Data Arrived at EDR: 09/11/2013 Date Made Active in Reports: 10/03/2013

Number of Days to Update: 22

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 12/05/2013

Next Scheduled EDR Contact: 03/17/2014 Data Release Frequency: Quarterly

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005 Date Data Arrived at EDR: 08/03/2006 Date Made Active in Reports: 08/24/2006

Number of Days to Update: 21

Source: Department of Toxic Substance Control

Telephone: 916-323-3400 Last EDR Contact: 02/23/2009

Next Scheduled EDR Contact: 05/25/2009 Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 11/06/2013 Date Data Arrived at EDR: 11/06/2013 Date Made Active in Reports: 12/03/2013

Number of Days to Update: 27

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 11/06/2013

Next Scheduled EDR Contact: 02/17/2014 Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995 Date Data Arrived at EDR: 08/30/1995 Date Made Active in Reports: 09/26/1995

Number of Days to Update: 27

Source: State Water Resources Control Board

Telephone: 916-227-4364 Last EDR Contact: 01/26/2009

Next Scheduled EDR Contact: 04/27/2009 Data Release Frequency: No Update Planned

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 06/30/2013 Date Data Arrived at EDR: 09/03/2013 Date Made Active in Reports: 10/10/2013

Number of Days to Update: 37

Source: Department of Toxic Substances Control

Telephone: 916-255-6504 Last EDR Contact: 09/03/2013

Next Scheduled EDR Contact: 01/13/2014

Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007 Date Data Arrived at EDR: 11/19/2008 Date Made Active in Reports: 03/30/2009

Number of Days to Update: 131

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 03/23/2009

Next Scheduled EDR Contact: 06/22/2009 Data Release Frequency: No Update Planned

Local Lists of Registered Storage Tanks

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994 Date Data Arrived at EDR: 09/05/1995 Date Made Active in Reports: 09/29/1995

Number of Days to Update: 24

Source: California Environmental Protection Agency

Telephone: 916-341-5851 Last EDR Contact: 12/28/1998 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/23/2009 Date Data Arrived at EDR: 09/23/2009 Date Made Active in Reports: 10/01/2009

Number of Days to Update: 8

Source: Department of Public Health

Telephone: 707-463-4466 Last EDR Contact: 12/02/2013

Next Scheduled EDR Contact: 03/17/2014 Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990 Date Data Arrived at EDR: 01/25/1991 Date Made Active in Reports: 02/12/1991

Number of Days to Update: 18

Source: State Water Resources Control Board

Telephone: 916-341-5851 Last EDR Contact: 07/26/2001 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994 Date Data Arrived at EDR: 07/07/2005 Date Made Active in Reports: 08/11/2005

Number of Days to Update: 35

Source: State Water Resources Control Board

Telephone: N/A

Last EDR Contact: 06/03/2005 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/06/2013 Date Data Arrived at EDR: 04/25/2013 Date Made Active in Reports: 05/10/2013

Number of Days to Update: 15

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 11/13/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Varies

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 10/08/2013 Date Data Arrived at EDR: 10/15/2013 Date Made Active in Reports: 11/27/2013

Number of Days to Update: 43

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 12/09/2013

Next Scheduled EDR Contact: 03/24/2014 Data Release Frequency: Varies

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 11/13/2013
Date Data Arrived at EDR: 11/13/2013
Date Made Active in Reports: 12/05/2013

Number of Days to Update: 22

Source: DTSC and SWRCB Telephone: 916-323-3400 Last EDR Contact: 12/10/2013

Next Scheduled EDR Contact: 03/24/2014 Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/30/2013 Date Data Arrived at EDR: 10/01/2013 Date Made Active in Reports: 12/16/2013

Number of Days to Update: 76

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 10/01/2013

Next Scheduled EDR Contact: 01/13/2014 Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 10/14/2013 Date Data Arrived at EDR: 10/30/2013 Date Made Active in Reports: 12/03/2013

Number of Days to Update: 34

Source: Office of Emergency Services Telephone: 916-845-8400

Last EDR Contact: 10/30/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Varies

LDS: Land Disposal Sites Listing

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management

Date of Government Version: 10/16/2013 Date Data Arrived at EDR: 10/17/2013 Date Made Active in Reports: 11/27/2013

Number of Days to Update: 41

Source: State Water Quality Control Board

Telephone: 866-480-1028 Last EDR Contact: 12/17/2013

Next Scheduled EDR Contact: 03/31/2014 Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 10/16/2013 Date Data Arrived at EDR: 10/17/2013 Date Made Active in Reports: 11/27/2013

Number of Days to Update: 41

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 12/17/2013

Next Scheduled EDR Contact: 03/31/2014 Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012 Date Data Arrived at EDR: 01/03/2013 Date Made Active in Reports: 02/22/2013

Number of Days to Update: 50

Source: FirstSearch Telephone: N/A

Last EDR Contact: 01/03/2013 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 09/10/2013 Date Data Arrived at EDR: 10/02/2013 Date Made Active in Reports: 12/16/2013

Number of Days to Update: 75

Source: Environmental Protection Agency

Telephone: (415) 495-8895 Last EDR Contact: 10/02/2013

Next Scheduled EDR Contact: 01/13/2014 Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012 Date Data Arrived at EDR: 08/07/2012 Date Made Active in Reports: 09/18/2012

Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety

Telephone: 202-366-4595 Last EDR Contact: 11/06/2013

Next Scheduled EDR Contact: 02/17/2014 Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 11/10/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 62

Source: USGS

Telephone: 888-275-8747 Last EDR Contact: 10/18/2013

Next Scheduled EDR Contact: 01/27/2014 Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2011 Date Data Arrived at EDR: 02/26/2013 Date Made Active in Reports: 03/13/2013

Number of Days to Update: 15

Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285 Last EDR Contact: 12/13/2013

Next Scheduled EDR Contact: 03/24/2014 Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2013 Date Data Arrived at EDR: 08/07/2013 Date Made Active in Reports: 10/03/2013

Number of Days to Update: 57

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Last EDR Contact: 09/30/2013

Next Scheduled EDR Contact: 01/13/2014 Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/26/2013
Date Data Arrived at EDR: 06/11/2013
Date Made Active in Reports: 11/01/2013

Number of Days to Update: 143

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 12/12/2013

Next Scheduled EDR Contact: 03/24/2014 Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010 Date Data Arrived at EDR: 10/07/2011 Date Made Active in Reports: 03/01/2012

Number of Days to Update: 146

Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 11/26/2013

Next Scheduled EDR Contact: 03/10/2014 Data Release Frequency: Varies

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/01/2013 Date Data Arrived at EDR: 09/05/2013 Date Made Active in Reports: 10/03/2013

Number of Days to Update: 28

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 12/06/2013

Next Scheduled EDR Contact: 03/17/2014 Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2011 Date Data Arrived at EDR: 07/31/2013 Date Made Active in Reports: 09/13/2013

Number of Days to Update: 44

Source: EPA

Telephone: 202-566-0250 Last EDR Contact: 11/27/2013

Next Scheduled EDR Contact: 03/10/2014 Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 09/29/2010 Date Made Active in Reports: 12/02/2010

Number of Days to Update: 64

Source: EPA

Telephone: 202-260-5521 Last EDR Contact: 09/24/2013

Next Scheduled EDR Contact: 01/08/2014 Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667 Last EDR Contact: 11/21/2013

Next Scheduled EDR Contact: 03/10/2014 Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA

Telephone: 202-566-1667 Last EDR Contact: 11/21/2014

Next Scheduled EDR Contact: 03/10/2014 Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2007

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2008

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 12/10/2010 Date Made Active in Reports: 02/25/2011

Number of Days to Update: 77

Source: EPA

Telephone: 202-564-4203 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011 Date Data Arrived at EDR: 11/10/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 61

Source: Environmental Protection Agency

Telephone: 202-564-5088 Last EDR Contact: 10/09/2014

Next Scheduled EDR Contact: 01/27/2014 Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2013 Date Data Arrived at EDR: 07/17/2013 Date Made Active in Reports: 11/01/2013

Number of Days to Update: 107

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 10/18/2013

Next Scheduled EDR Contact: 01/27/2014 Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/22/2013 Date Data Arrived at EDR: 08/02/2013 Date Made Active in Reports: 11/01/2013

Number of Days to Update: 91

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169 Last EDR Contact: 12/09/2013

Next Scheduled EDR Contact: 03/24/2014
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 09/30/2013 Date Data Arrived at EDR: 10/09/2013 Date Made Active in Reports: 11/01/2013

Number of Days to Update: 23

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 10/09/2013

Next Scheduled EDR Contact: 01/20/2014 Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 03/08/2013 Date Data Arrived at EDR: 03/21/2013 Date Made Active in Reports: 07/10/2013

Number of Days to Update: 111

Source: EPA

Telephone: (415) 947-8000 Last EDR Contact: 12/10/2013

Next Scheduled EDR Contact: 03/24/2014 Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Source: EPA

Date of Government Version: 04/17/1995 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995 Number of Days to Update: 35

Telephone: 202-564-4104 Last EDR Contact: 06/02/2008

Next Scheduled EDR Contact: 09/01/2008

Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/08/2012 Date Data Arrived at EDR: 05/25/2012 Date Made Active in Reports: 07/10/2012

Number of Days to Update: 46

Source: Environmental Protection Agency

Telephone: 202-564-8600 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2011 Date Data Arrived at EDR: 02/26/2013 Date Made Active in Reports: 04/19/2013

Number of Days to Update: 52

Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 11/25/2013

Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Biennially

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989 Date Data Arrived at EDR: 07/27/1994 Date Made Active in Reports: 08/02/1994

Number of Days to Update: 6

Source: Department of Health Services

Telephone: 916-255-2118 Last EDR Contact: 05/31/1994 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 08/19/2013 Date Data Arrived at EDR: 08/19/2013 Date Made Active in Reports: 10/08/2013

Number of Days to Update: 50

Source: State Water Resources Control Board

Telephone: 916-445-9379 Last EDR Contact: 11/21/2013

Next Scheduled EDR Contact: 03/03/2014 Data Release Frequency: Quarterly

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 08/21/2013 Date Data Arrived at EDR: 09/17/2013 Date Made Active in Reports: 10/17/2013

Number of Days to Update: 30

Source: Deaprtment of Conservation

Telephone: 916-445-2408 Last EDR Contact: 12/17/2013

Next Scheduled EDR Contact: 03/31/2014 Data Release Frequency: Varies

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 09/30/2013 Date Data Arrived at EDR: 10/01/2013 Date Made Active in Reports: 11/26/2013

Number of Days to Update: 56

Source: CAL EPA/Office of Emergency Information

Telephone: 916-323-3400 Last EDR Contact: 10/01/2013

Next Scheduled EDR Contact: 01/13/2014 Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001 Date Data Arrived at EDR: 01/22/2009 Date Made Active in Reports: 04/08/2009

Number of Days to Update: 76

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 01/22/2009 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 10/21/1993 Date Data Arrived at EDR: 11/01/1993 Date Made Active in Reports: 11/19/1993

Number of Days to Update: 18

Source: State Water Resources Control Board

Telephone: 916-445-3846 Last EDR Contact: 12/17/2013

Next Scheduled EDR Contact: 04/07/2014
Data Release Frequency: No Update Planned

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 09/10/2013 Date Data Arrived at EDR: 09/11/2013 Date Made Active in Reports: 10/16/2013

Number of Days to Update: 35

Source: Department of Toxic Substance Control

Telephone: 916-327-4498 Last EDR Contact: 12/09/2013

Next Scheduled EDR Contact: 03/24/2014 Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009 Date Data Arrived at EDR: 07/21/2009 Date Made Active in Reports: 08/03/2009

Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board

Telephone: 213-576-6726 Last EDR Contact: 09/30/2013

Next Scheduled EDR Contact: 01/13/2014

Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 08/09/2013 Date Data Arrived at EDR: 08/13/2013 Date Made Active in Reports: 10/08/2013

Number of Days to Update: 56

Source: State Water Resoruces Control Board

Telephone: 916-445-9379 Last EDR Contact: 11/08/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2012 Date Data Arrived at EDR: 07/16/2013 Date Made Active in Reports: 08/26/2013

Number of Days to Update: 41

Source: California Environmental Protection Agency

Telephone: 916-255-1136 Last EDR Contact: 10/15/2013

Next Scheduled EDR Contact: 01/27/2014 Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2010 Date Data Arrived at EDR: 06/25/2013 Date Made Active in Reports: 08/22/2013

Number of Days to Update: 58

Source: California Air Resources Board

Telephone: 916-322-2990 Last EDR Contact: 09/27/2013

Next Scheduled EDR Contact: 01/08/2014 Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 12/08/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 34

Source: USGS

Telephone: 202-208-3710 Last EDR Contact: 10/18/2013

Next Scheduled EDR Contact: 01/27/2014 Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011 Date Data Arrived at EDR: 03/09/2011 Date Made Active in Reports: 05/02/2011

Number of Days to Update: 54

Source: Environmental Protection Agency

Telephone: 615-532-8599 Last EDR Contact: 11/18/2013

Next Scheduled EDR Contact: 02/03/2014

Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 10/28/2013 Date Data Arrived at EDR: 10/29/2013 Date Made Active in Reports: 12/06/2013

Number of Days to Update: 38

Source: Environmental Protection Agency

Telephone: 202-566-1917 Last EDR Contact: 11/18/2013

Next Scheduled EDR Contact: 03/03/2014 Data Release Frequency: Quarterly

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011 Date Data Arrived at EDR: 10/19/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 83

Source: Environmental Protection Agency

Telephone: 202-566-0517 Last EDR Contact: 11/01/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Varies

PROC: Certified Processors Database A listing of certified processors.

> Date of Government Version: 09/16/2013 Date Data Arrived at EDR: 09/19/2013 Date Made Active in Reports: 10/17/2013

Number of Days to Update: 28

Source: Department of Conservation

Telephone: 916-323-3836 Last EDR Contact: 12/17/2013

Next Scheduled EDR Contact: 03/31/2014 Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 08/29/2013 Date Data Arrived at EDR: 09/13/2013 Date Made Active in Reports: 10/14/2013

Number of Days to Update: 31

Source: Department of Public Health

Telephone: 916-558-1784 Last EDR Contact: 12/09/2013

Next Scheduled EDR Contact: 03/24/2014 Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 08/07/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 76

Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 12/10/2013

Next Scheduled EDR Contact: 03/24/2014 Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010 Date Data Arrived at EDR: 01/03/2011 Date Made Active in Reports: 03/21/2011

Number of Days to Update: 77

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact: 12/13/2013

Next Scheduled EDR Contact: 03/24/2014 Data Release Frequency: Varies

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 10/15/2013 Date Data Arrived at EDR: 10/15/2013 Date Made Active in Reports: 11/27/2013

Number of Days to Update: 43

Source: Department of Toxic Substances Control

Telephone: 916-440-7145 Last EDR Contact: 10/15/2013

Next Scheduled EDR Contact: 01/27/2014 Data Release Frequency: Quarterly

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/28/2013 Date Data Arrived at EDR: 08/27/2013 Date Made Active in Reports: 10/10/2013

Number of Days to Update: 44

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 11/26/2013

Next Scheduled EDR Contact: 03/10/2014 Data Release Frequency: Quarterly

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 08/12/2013 Date Data Arrived at EDR: 08/20/2013 Date Made Active in Reports: 10/08/2013

Number of Days to Update: 49

Source: California Integrated Waste Management Board

Telephone: 916-341-6066 Last EDR Contact: 11/18/2013

Next Scheduled EDR Contact: 03/03/2014 Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 10/31/2013 Date Data Arrived at EDR: 11/06/2013 Date Made Active in Reports: 12/03/2013

Number of Days to Update: 27

Source: Department of Toxic Substances Control

Telephone: 916-255-3628 Last EDR Contact: 10/25/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/29/2013 Date Data Arrived at EDR: 02/14/2013 Date Made Active in Reports: 02/27/2013

Number of Days to Update: 13

Source: Environmental Protection Agency

Telephone: 703-603-8787 Last EDR Contact: 09/24/2013

Next Scheduled EDR Contact: 01/20/2014 Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001 Date Data Arrived at EDR: 10/27/2010 Date Made Active in Reports: 12/02/2010

Number of Days to Update: 36

Source: American Journal of Public Health

Telephone: 703-305-6451 Last EDR Contact: 12/02/2009 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011 Date Data Arrived at EDR: 05/18/2012 Date Made Active in Reports: 05/25/2012

Number of Days to Update: 7

Source: Environmental Protection Agency

Telephone: 703-308-4044 Last EDR Contact: 11/15/2013

Next Scheduled EDR Contact: 02/24/2014

Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 02/06/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 339

Source: U.S. Geological Survey Telephone: 888-275-8747 Last EDR Contact: 10/18/2013

Next Scheduled EDR Contact: 01/27/2014

Data Release Frequency: N/A

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 04/15/2013 Date Data Arrived at EDR: 07/03/2013 Date Made Active in Reports: 09/13/2013

Number of Days to Update: 72

Source: EPA

Telephone: 202-564-6023 Last EDR Contact: 10/04/2013

Next Scheduled EDR Contact: 01/13/2014 Data Release Frequency: Quarterly

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007 Date Data Arrived at EDR: 06/20/2007 Date Made Active in Reports: 06/29/2007

Number of Days to Update: 9

Source: State Water Resources Control Board

Telephone: 916-341-5227 Last EDR Contact: 11/21/2013

Next Scheduled EDR Contact: 03/10/2014 Data Release Frequency: Quarterly

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/23/2013 Date Data Arrived at EDR: 11/06/2013 Date Made Active in Reports: 12/06/2013

Number of Days to Update: 30

Source: EPA

Telephone: 202-564-5962 Last EDR Contact: 09/30/2013

Next Scheduled EDR Contact: 01/13/2014 Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data A listing of minor source facilities.

Date of Government Version: 10/23/2013 Date Data Arrived at EDR: 11/06/2013 Date Made Active in Reports: 12/06/2013

Number of Days to Update: 30

Source: EPA

Telephone: 202-564-5962 Last EDR Contact: 09/30/2013

Next Scheduled EDR Contact: 01/13/2014 Data Release Frequency: Annually

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 06/30/2013 Date Data Arrived at EDR: 08/13/2013 Date Made Active in Reports: 09/13/2013

Number of Days to Update: 31

Source: Environmental Protection Agency

Telephone: 617-520-3000 Last EDR Contact: 11/15/2013

Next Scheduled EDR Contact: 02/24/2014 Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A Source: EDR, Inc.

Date Data Arrived at EDR: N/A Telephone: N/A

Date Made Active in Reports: N/A Last EDR Contact: N/A

Number of Days to Update: N/A

Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A Source: EDR, Inc.
Date Data Arrived at EDR: N/A Telephone: N/A
Date Made Active in Reports: N/A Last EDR Contact: N/A

Number of Days to Update: N/A Next Scheduled EDR Contact: N/A

Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A Source: EDR, Inc.
Date Data Arrived at EDR: N/A Telephone: N/A
Date Made Active in Reports: N/A Last EDR Contact: N/A

Number of Days to Update: N/A Next Scheduled EDR Contact: N/A

Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Proprietary Historic Dry Cleaners - Cole

Date of Government Version: N/A

Date Data Arrived at EDR: N/A

Date Made Active in Reports: N/A

Last EDR Contact: N/A

Number of Days to Update: N/A Next Scheduled EDR Contact: N/A

Data Release Frequency: Varies

EDR US Hist Auto Stat: EDR Proprietary Historic Gas Stations - Cole

Date of Government Version: N/A

Date Data Arrived at EDR: N/A

Date Made Active in Reports: N/A

Last EDR Contact: N/A

Number of Days to Update: N/A Next Scheduled EDR Contact: N/A

Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 11/13/2013 Date Data Arrived at EDR: 11/15/2013 Date Made Active in Reports: 12/16/2013

Number of Days to Update: 31

Source: Alameda County Environmental Health Services

Telephone: 510-567-6700 Last EDR Contact: 09/30/2013

Next Scheduled EDR Contact: 01/13/2014 Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 07/25/2013 Date Data Arrived at EDR: 07/26/2013 Date Made Active in Reports: 08/20/2013

Number of Days to Update: 25

Source: Alameda County Environmental Health Services

Telephone: 510-567-6700 Last EDR Contact: 09/30/2013

Next Scheduled EDR Contact: 01/13/2014 Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List

Cupa Facility List

Date of Government Version: 06/20/2013 Date Data Arrived at EDR: 06/21/2013 Date Made Active in Reports: 08/21/2013

Number of Days to Update: 61

Source: Amador County Environmental Health

Telephone: 209-223-6439 Last EDR Contact: 12/09/2013

Next Scheduled EDR Contact: 03/24/2014 Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing

Cupa facility list.

Date of Government Version: 08/01/2013 Date Data Arrived at EDR: 08/02/2013 Date Made Active in Reports: 08/22/2013

Number of Days to Update: 20

Source: Public Health Department Telephone: 530-538-7149 Last EDR Contact: 10/09/2013

Next Scheduled EDR Contact: 01/27/2014 Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing

Cupa Facility Listing

Date of Government Version: 09/30/2013 Date Data Arrived at EDR: 10/01/2013 Date Made Active in Reports: 11/26/2013

Number of Days to Update: 56

Source: Calveras County Environmental Health

Telephone: 209-754-6399 Last EDR Contact: 09/30/2013

Next Scheduled EDR Contact: 01/13/2014 Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List Cupa facility list.

> Date of Government Version: 06/20/2013 Date Data Arrived at EDR: 07/01/2013 Date Made Active in Reports: 08/09/2013

Number of Days to Update: 39

Source: Health & Human Services Telephone: 530-458-0396 Last EDR Contact: 11/15/2013

Next Scheduled EDR Contact: 02/24/2014 Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 08/20/2013 Date Data Arrived at EDR: 08/23/2013 Date Made Active in Reports: 10/08/2013

Number of Days to Update: 46

Source: Contra Costa Health Services Department

Telephone: 925-646-2286 Last EDR Contact: 11/04/2013

Next Scheduled EDR Contact: 02/17/2014 Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List Cupa Facility list

> Date of Government Version: 01/09/2013 Date Data Arrived at EDR: 01/10/2013 Date Made Active in Reports: 02/25/2013

Number of Days to Update: 46

Source: Del Norte County Environmental Health Division

Telephone: 707-465-0426 Last EDR Contact: 11/04/2013

Next Scheduled EDR Contact: 02/17/2014 Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List CUPA facility list.

> Date of Government Version: 08/20/2013 Date Data Arrived at EDR: 08/23/2013 Date Made Active in Reports: 10/08/2013

Number of Days to Update: 46

Source: El Dorado County Environmental Management Department

Telephone: 530-621-6623 Last EDR Contact: 11/04/2013

Next Scheduled EDR Contact: 02/17/2014 Data Release Frequency: Varies

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 09/30/2013 Date Data Arrived at EDR: 10/16/2013 Date Made Active in Reports: 11/27/2013

Number of Days to Update: 42

Source: Dept. of Community Health Telephone: 559-445-3271 Last EDR Contact: 10/09/2013

Next Scheduled EDR Contact: 01/27/2014 Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List CUPA facility list.

> Date of Government Version: 08/09/2013 Date Data Arrived at EDR: 08/09/2013 Date Made Active in Reports: 08/22/2013

Number of Days to Update: 13

Source: Humboldt County Environmental Health

Telephone: N/A

Last EDR Contact: 11/20/2013

Next Scheduled EDR Contact: 03/10/2014 Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List Cupa facility list.

> Date of Government Version: 11/06/2013 Date Data Arrived at EDR: 11/06/2013 Date Made Active in Reports: 12/04/2013

Number of Days to Update: 28

Source: San Diego Border Field Office

Telephone: 760-339-2777 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List Cupa facility list.

> Date of Government Version: 09/10/2013 Date Data Arrived at EDR: 09/11/2013 Date Made Active in Reports: 10/14/2013

Number of Days to Update: 33

Source: Inyo County Environmental Health Services

Telephone: 760-878-0238 Last EDR Contact: 12/09/2013

Next Scheduled EDR Contact: 03/10/2014 Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing Kern County Sites and Tanks Listing.

> Date of Government Version: 08/31/2010 Date Data Arrived at EDR: 09/01/2010 Date Made Active in Reports: 09/30/2010

Number of Days to Update: 29

Source: Kern County Environment Health Services Department

Telephone: 661-862-8700 Last EDR Contact: 11/08/2013

Next Scheduled EDR Contact: 02/24/2014 Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/22/2013 Date Data Arrived at EDR: 08/27/2013 Date Made Active in Reports: 10/08/2013

Number of Days to Update: 42

Source: Kings County Department of Public Health

Telephone: 559-584-1411 Last EDR Contact: 12/09/2013

Next Scheduled EDR Contact: 03/10/2014 Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List Cupa facility list

> Date of Government Version: 01/23/2013 Date Data Arrived at EDR: 01/25/2013 Date Made Active in Reports: 02/27/2013

Number of Days to Update: 33

Source: Lake County Environmental Health

Telephone: 707-263-1164 Last EDR Contact: 10/21/2013

Next Scheduled EDR Contact: 02/03/2014 Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009 Date Data Arrived at EDR: 03/31/2009 Date Made Active in Reports: 10/23/2009

Number of Days to Update: 206

Source: EPA Region 9 Telephone: 415-972-3178 Last EDR Contact: 12/17/2013

Next Scheduled EDR Contact: 04/07/2014

Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 03/28/2013 Date Data Arrived at EDR: 06/17/2013 Date Made Active in Reports: 08/21/2013

Number of Days to Update: 65

Source: Department of Public Works

Telephone: 626-458-3517 Last EDR Contact: 10/09/2013

Next Scheduled EDR Contact: 01/27/2014 Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/21/2013 Date Data Arrived at EDR: 10/22/2013 Date Made Active in Reports: 11/27/2013

Number of Days to Update: 36

Source: La County Department of Public Works

Telephone: 818-458-5185 Last EDR Contact: 10/22/2013

Next Scheduled EDR Contact: 02/03/2014 Data Release Frequency: Varies

City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/05/2009 Date Data Arrived at EDR: 03/10/2009 Date Made Active in Reports: 04/08/2009

Number of Days to Update: 29

Source: Engineering & Construction Division

Telephone: 213-473-7869 Last EDR Contact: 07/17/2013

Next Scheduled EDR Contact: 11/04/2013 Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/30/2013 Date Data Arrived at EDR: 02/21/2013 Date Made Active in Reports: 03/25/2013

Number of Days to Update: 32

Source: Community Health Services Telephone: 323-890-7806 Last EDR Contact: 10/21/2013

Next Scheduled EDR Contact: 02/03/2014 Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 10/21/2013 Date Data Arrived at EDR: 10/25/2013 Date Made Active in Reports: 11/27/2013

Number of Days to Update: 33

Source: City of El Segundo Fire Department

Telephone: 310-524-2236 Last EDR Contact: 10/21/2013

Next Scheduled EDR Contact: 02/03/2014 Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/28/2003 Date Data Arrived at EDR: 10/23/2003 Date Made Active in Reports: 11/26/2003

Number of Days to Update: 34

Source: City of Long Beach Fire Department

Telephone: 562-570-2563 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 07/15/2013 Date Data Arrived at EDR: 07/18/2013 Date Made Active in Reports: 08/20/2013

Number of Days to Update: 33

Source: City of Torrance Fire Department

Telephone: 310-618-2973 Last EDR Contact: 10/09/2013

Next Scheduled EDR Contact: 01/27/2014 Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 09/20/2013 Date Data Arrived at EDR: 09/24/2013 Date Made Active in Reports: 10/18/2013

Number of Days to Update: 24

Source: Madera County Environmental Health

Telephone: 559-675-7823 Last EDR Contact: 11/20/2013

Next Scheduled EDR Contact: 03/10/2014 Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 10/07/2013 Date Data Arrived at EDR: 10/09/2013 Date Made Active in Reports: 11/26/2013

Number of Days to Update: 48

Source: Public Works Department Waste Management

Telephone: 415-499-6647 Last EDR Contact: 10/07/2013

Next Scheduled EDR Contact: 01/20/2014 Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 08/23/2013 Date Data Arrived at EDR: 08/27/2013 Date Made Active in Reports: 10/08/2013

Number of Days to Update: 42

Source: Merced County Environmental Health

Telephone: 209-381-1094 Last EDR Contact: 11/20/2013

Next Scheduled EDR Contact: 03/10/2014

Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List CUPA Facility List

> Date of Government Version: 09/04/2013 Date Data Arrived at EDR: 09/05/2013 Date Made Active in Reports: 10/14/2013

Number of Days to Update: 39

Source: Mono County Health Department

Telephone: 760-932-5580 Last EDR Contact: 12/02/2013

Next Scheduled EDR Contact: 03/17/2014

Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 09/11/2013 Date Data Arrived at EDR: 09/12/2013 Date Made Active in Reports: 10/14/2013

Number of Days to Update: 32

Source: Monterey County Health Department

Telephone: 831-796-1297 Last EDR Contact: 11/20/2013

Next Scheduled EDR Contact: 03/10/2014

Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination

A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011 Date Data Arrived at EDR: 12/06/2011 Date Made Active in Reports: 02/07/2012

Number of Days to Update: 63

Source: Napa County Department of Environmental Management

Telephone: 707-253-4269 Last EDR Contact: 12/02/2013

Next Scheduled EDR Contact: 03/17/2014 Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites

Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008 Date Data Arrived at EDR: 01/16/2008 Date Made Active in Reports: 02/08/2008

Number of Days to Update: 23

Source: Napa County Department of Environmental Management

Telephone: 707-253-4269 Last EDR Contact: 12/02/2013

Next Scheduled EDR Contact: 03/17/2014 Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List CUPA facility list.

Date of Government Version: 11/06/2013 Date Data Arrived at EDR: 11/07/2013 Date Made Active in Reports: 12/04/2013

Number of Days to Update: 27

Source: Community Development Agency

Telephone: 530-265-1467 Last EDR Contact: 11/04/2013

Next Scheduled EDR Contact: 02/17/2014 Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 11/04/2013 Date Data Arrived at EDR: 11/13/2013 Date Made Active in Reports: 12/04/2013

Number of Days to Update: 21

Source: Health Care Agency Telephone: 714-834-3446 Last EDR Contact: 11/08/2013

Next Scheduled EDR Contact: 02/24/2014 Data Release Frequency: Annually

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 11/04/2013 Date Data Arrived at EDR: 11/13/2013 Date Made Active in Reports: 12/04/2013

Number of Days to Update: 21

Source: Health Care Agency Telephone: 714-834-3446 Last EDR Contact: 11/08/2013

Next Scheduled EDR Contact: 02/24/2014 Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 11/04/2013 Date Data Arrived at EDR: 11/13/2013 Date Made Active in Reports: 12/04/2013

Number of Days to Update: 21

Source: Health Care Agency Telephone: 714-834-3446 Last EDR Contact: 11/08/2013

Next Scheduled EDR Contact: 02/24/2014 Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 08/22/2013 Date Data Arrived at EDR: 08/22/2013 Date Made Active in Reports: 10/10/2013

Number of Days to Update: 49

Source: Placer County Health and Human Services

Telephone: 530-745-2363 Last EDR Contact: 12/09/2013

Next Scheduled EDR Contact: 03/24/2014 Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 10/10/2013 Date Data Arrived at EDR: 10/22/2013 Date Made Active in Reports: 11/27/2013

Number of Days to Update: 36

Source: Department of Environmental Health

Telephone: 951-358-5055 Last EDR Contact: 09/23/2013

Next Scheduled EDR Contact: 01/08/2014 Data Release Frequency: Quarterly

Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 10/10/2013 Date Data Arrived at EDR: 10/22/2013 Date Made Active in Reports: 11/27/2013

Number of Days to Update: 36

Source: Department of Environmental Health

Telephone: 951-358-5055 Last EDR Contact: 09/23/2013

Next Scheduled EDR Contact: 01/08/2014 Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 08/05/2013 Date Data Arrived at EDR: 10/10/2013 Date Made Active in Reports: 11/26/2013

Number of Days to Update: 47

Telephone: 916-875-8406 Last EDR Contact: 10/07/2013

Next Scheduled EDR Contact: 01/20/2014

Data Release Frequency: Quarterly

Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/05/2013 Date Data Arrived at EDR: 10/10/2013 Date Made Active in Reports: 11/26/2013

Number of Days to Update: 47

Source: Sacramento County Environmental Management

Source: Sacramento County Environmental Management

Telephone: 916-875-8406 Last EDR Contact: 10/07/2013

Next Scheduled EDR Contact: 01/20/2014 Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 09/03/2013 Date Data Arrived at EDR: 09/03/2013 Date Made Active in Reports: 10/10/2013

Number of Days to Update: 37

Source: San Bernardino County Fire Department Hazardous Materials Division

Telephone: 909-387-3041 Last EDR Contact: 11/08/2013

Next Scheduled EDR Contact: 02/24/2014 Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/23/2013 Date Data Arrived at EDR: 09/24/2013 Date Made Active in Reports: 10/17/2013

Number of Days to Update: 23

Source: Hazardous Materials Management Division

Telephone: 619-338-2268 Last EDR Contact: 12/09/2013

Next Scheduled EDR Contact: 03/24/2014 Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2012 Date Data Arrived at EDR: 11/06/2012 Date Made Active in Reports: 11/30/2012

Number of Days to Update: 24

Source: Department of Health Services

Telephone: 619-338-2209 Last EDR Contact: 11/18/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Varies

Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010 Date Data Arrived at EDR: 06/15/2010 Date Made Active in Reports: 07/09/2010

Number of Days to Update: 24

Source: San Diego County Department of Environmental Health

Telephone: 619-338-2371 Last EDR Contact: 12/09/2013

Next Scheduled EDR Contact: 03/24/2014 Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008 Date Data Arrived at EDR: 09/19/2008 Date Made Active in Reports: 09/29/2008

Number of Days to Update: 10

Source: Department Of Public Health San Francisco County

Telephone: 415-252-3920 Last EDR Contact: 11/08/2013

Next Scheduled EDR Contact: 02/24/2014 Data Release Frequency: Quarterly

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010 Date Data Arrived at EDR: 03/10/2011 Date Made Active in Reports: 03/15/2011

Number of Days to Update: 5

Source: Department of Public Health Telephone: 415-252-3920 Last EDR Contact: 11/08/2013

Next Scheduled EDR Contact: 02/24/2014 Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 09/25/2013 Date Data Arrived at EDR: 09/27/2013 Date Made Active in Reports: 10/18/2013

Number of Days to Update: 21

Source: Environmental Health Department

Telephone: N/A

Last EDR Contact: 12/17/2013

Next Scheduled EDR Contact: 04/07/2014 Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List

Cupa Facility List.

Date of Government Version: 08/26/2013 Date Data Arrived at EDR: 08/27/2013 Date Made Active in Reports: 10/10/2013

Number of Days to Update: 44

Source: San Luis Obispo County Public Health Department

Telephone: 805-781-5596 Last EDR Contact: 11/20/2013

Next Scheduled EDR Contact: 03/10/2014 Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 10/01/2013 Date Data Arrived at EDR: 10/08/2013 Date Made Active in Reports: 11/26/2013

Number of Days to Update: 49

Source: San Mateo County Environmental Health Services Division

Telephone: 650-363-1921 Last EDR Contact: 12/16/2013

Next Scheduled EDR Contact: 03/31/2014 Data Release Frequency: Annually

Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 09/16/2013 Date Data Arrived at EDR: 09/17/2013 Date Made Active in Reports: 10/16/2013

Number of Days to Update: 29

Source: San Mateo County Environmental Health Services Division

Telephone: 650-363-1921 Last EDR Contact: 12/12/2013

Next Scheduled EDR Contact: 03/31/2014 Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011 Date Data Arrived at EDR: 09/09/2011 Date Made Active in Reports: 10/07/2011

Number of Days to Update: 28

Source: Santa Barbara County Public Health Department

Telephone: 805-686-8167 Last EDR Contact: 11/21/2013

Next Scheduled EDR Contact: 03/10/2014 Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List

Cupa facility list

Date of Government Version: 09/03/2013 Date Data Arrived at EDR: 09/04/2013 Date Made Active in Reports: 10/10/2013

Number of Days to Update: 36

Source: Department of Environmental Health

Telephone: 408-918-1973 Last EDR Contact: 12/02/2013

Next Scheduled EDR Contact: 03/17/2014

Data Release Frequency: Varies

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005 Date Data Arrived at EDR: 03/30/2005 Date Made Active in Reports: 04/21/2005

Number of Days to Update: 22

Source: Santa Clara Valley Water District

Telephone: 408-265-2600 Last EDR Contact: 03/23/2009

Next Scheduled EDR Contact: 06/22/2009 Data Release Frequency: No Update Planned

LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 09/03/2013 Date Data Arrived at EDR: 09/06/2013 Date Made Active in Reports: 10/14/2013

Number of Days to Update: 38

Source: Department of Environmental Health

Telephone: 408-918-3417 Last EDR Contact: 12/02/2013

Next Scheduled EDR Contact: 03/17/2014 Data Release Frequency: Annually

Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 08/14/2013 Date Data Arrived at EDR: 08/16/2013 Date Made Active in Reports: 10/08/2013

Number of Days to Update: 53

Source: City of San Jose Fire Department

Telephone: 408-535-7694 Last EDR Contact: 11/08/2013

Next Scheduled EDR Contact: 02/24/2014 Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List

CUPA facility listing.

Date of Government Version: 08/22/2013 Date Data Arrived at EDR: 08/27/2013 Date Made Active in Reports: 10/10/2013

Number of Days to Update: 44

Source: Santa Cruz County Environmental Health

Telephone: 831-464-2761 Last EDR Contact: 12/09/2013

Next Scheduled EDR Contact: 03/10/2014 Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List

Cupa Facility List.

Date of Government Version: 09/09/2013 Date Data Arrived at EDR: 09/10/2013 Date Made Active in Reports: 10/14/2013

Number of Days to Update: 34

Source: Shasta County Department of Resource Management

Telephone: 530-225-5789 Last EDR Contact: 11/21/2013

Next Scheduled EDR Contact: 03/10/2014

Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 09/18/2013 Date Data Arrived at EDR: 09/20/2013 Date Made Active in Reports: 10/17/2013

Number of Days to Update: 27

Source: Solano County Department of Environmental Management

Telephone: 707-784-6770 Last EDR Contact: 12/12/2013

Next Scheduled EDR Contact: 03/31/2014 Data Release Frequency: Quarterly

Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 09/18/2013 Date Data Arrived at EDR: 09/24/2013 Date Made Active in Reports: 10/18/2013

Number of Days to Update: 24

Source: Solano County Department of Environmental Management

Telephone: 707-784-6770 Last EDR Contact: 12/12/2013

Next Scheduled EDR Contact: 03/31/2014 Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List Cupa Facility list

Date of Government Version: 09/30/2013 Date Data Arrived at EDR: 10/01/2013 Date Made Active in Reports: 11/26/2013

Number of Days to Update: 56

Source: County of Sonoma Fire & Emergency Services Department

Telephone: 707-565-1174 Last EDR Contact: 09/30/2013

Next Scheduled EDR Contact: 01/13/2014 Data Release Frequency: Varies

Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 10/01/2013 Date Data Arrived at EDR: 10/02/2013 Date Made Active in Reports: 11/26/2013

Number of Days to Update: 55

Source: Department of Health Services

Telephone: 707-565-6565 Last EDR Contact: 09/30/2013

Next Scheduled EDR Contact: 01/13/2014 Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 09/10/2013 Date Data Arrived at EDR: 09/11/2013 Date Made Active in Reports: 10/14/2013

Number of Days to Update: 33

Source: Sutter County Department of Agriculture

Telephone: 530-822-7500 Last EDR Contact: 12/09/2013

Next Scheduled EDR Contact: 03/24/2014 Data Release Frequency: Semi-Annually

TUOLUMNE COUNTY:

CUPA Facility List Cupa facility list

> Date of Government Version: 11/04/2013 Date Data Arrived at EDR: 11/06/2013 Date Made Active in Reports: 12/04/2013

Number of Days to Update: 28

Source: Divison of Environmental Health

Telephone: 209-533-5633 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014

Data Release Frequency: Varies

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 08/19/2013 Date Data Arrived at EDR: 08/27/2013 Date Made Active in Reports: 10/10/2013

Number of Days to Update: 44

Source: Ventura County Environmental Health Division

Telephone: 805-654-2813 Last EDR Contact: 11/19/2013

Next Scheduled EDR Contact: 03/03/2014 Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011 Date Data Arrived at EDR: 12/01/2011 Date Made Active in Reports: 01/19/2012

Number of Days to Update: 49

Source: Environmental Health Division

Telephone: 805-654-2813 Last EDR Contact: 10/07/2013

Next Scheduled EDR Contact: 01/20/2014 Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008 Date Data Arrived at EDR: 06/24/2008 Date Made Active in Reports: 07/31/2008

Number of Days to Update: 37

Source: Environmental Health Division

Telephone: 805-654-2813 Last EDR Contact: 11/19/2013

Next Scheduled EDR Contact: 03/03/2014 Data Release Frequency: Quarterly

Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 10/02/2013 Date Data Arrived at EDR: 10/30/2013 Date Made Active in Reports: 11/27/2013

Number of Days to Update: 28

Source: Ventura County Resource Management Agency

Telephone: 805-654-2813 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 08/29/2013 Date Data Arrived at EDR: 09/18/2013 Date Made Active in Reports: 10/16/2013

Number of Days to Update: 28

Source: Environmental Health Division

Telephone: 805-654-2813 Last EDR Contact: 12/16/2013

Next Scheduled EDR Contact: 03/31/2014 Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 09/24/2013 Date Data Arrived at EDR: 10/01/2013 Date Made Active in Reports: 11/26/2013

Number of Days to Update: 56

Source: Yolo County Department of Health

Telephone: 530-666-8646 Last EDR Contact: 12/17/2013

Next Scheduled EDR Contact: 04/07/2014 Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List

CUPA facility listing for Yuba County.

Date of Government Version: 08/01/2013 Date Data Arrived at EDR: 08/05/2013 Date Made Active in Reports: 08/22/2013

Number of Days to Update: 17

Source: Yuba County Environmental Health Department

Telephone: 530-749-7523 Last EDR Contact: 12/06/2013

Next Scheduled EDR Contact: 02/17/2014 Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013 Date Data Arrived at EDR: 08/19/2013 Date Made Active in Reports: 10/03/2013

Number of Days to Update: 45

Source: Department of Energy & Environmental Protection

Telephone: 860-424-3375 Last EDR Contact: 11/22/2013

Next Scheduled EDR Contact: 03/03/2014 Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011 Date Data Arrived at EDR: 07/19/2012 Date Made Active in Reports: 08/28/2012

Number of Days to Update: 40

Source: Department of Environmental Protection

Telephone: N/A

Last EDR Contact: 10/18/2013

Next Scheduled EDR Contact: 01/27/2014 Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD

facility

Date of Government Version: 11/01/2013 Date Data Arrived at EDR: 11/07/2013 Date Made Active in Reports: 11/18/2013

Number of Days to Update: 11

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 11/07/2013

Next Scheduled EDR Contact: 02/17/2014 Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2012 Date Data Arrived at EDR: 07/24/2013 Date Made Active in Reports: 08/19/2013

Number of Days to Update: 26

Source: Department of Environmental Protection

Telephone: 717-783-8990 Last EDR Contact: 10/21/2013

Next Scheduled EDR Contact: 02/03/2014 Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2012 Date Data Arrived at EDR: 06/21/2013 Date Made Active in Reports: 08/05/2013

Number of Days to Update: 45

Source: Department of Environmental Management

Telephone: 401-222-2797 Last EDR Contact: 11/25/2013

Next Scheduled EDR Contact: 03/10/2014 Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2012 Date Data Arrived at EDR: 08/09/2013 Date Made Active in Reports: 09/27/2013

Number of Days to Update: 49

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 12/11/2013

Next Scheduled EDR Contact: 03/31/2014 Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: Rextag Strategies Corp. Telephone: (281) 769-2247

U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services,

a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary

and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK®-PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

MUNZER PROPERTY 4568 AND 4570 FRANCIS AVENUE CHINO, CA 91710

TARGET PROPERTY COORDINATES

Latitude (North): 34.0416 - 34° 2' 29.76" Longitude (West): 117.7044 - 117° 42' 15.84"

Universal Tranverse Mercator: Zone 11 UTM X (Meters): 434979.8 UTM Y (Meters): 3766797.8

Elevation: 847 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 34117-A6 ONTARIO, CA

Most Recent Revision: 1981

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

- 1. Groundwater flow direction, and
- 2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

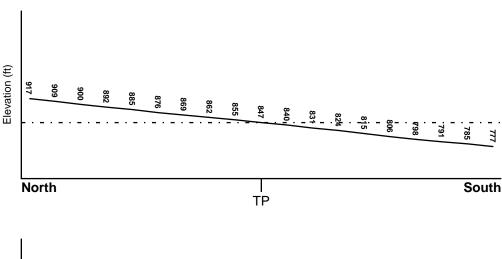
TOPOGRAPHIC INFORMATION

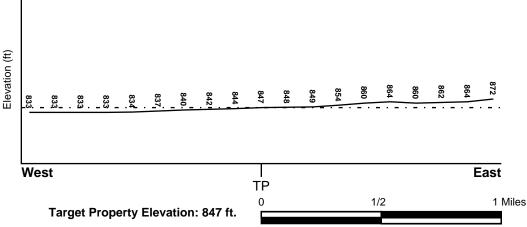
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

FEMA Flood Electronic Data

Target Property County
SAN BERNARDINO, CA

YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:

06071C - FEMA DFIRM Flood data

Additional Panels in search area:

Not Reported

NATIONAL WETLAND INVENTORY

NWI Electronic

NWI Quad at Target Property

Data Coverage

ONTARIO

YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius: 1.25 miles Status: Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

 LOCATION
 GENERAL DIRECTION

 MAP ID
 FROM TP
 GROUNDWATER FLOW

 Not Reported
 The state of the

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

GEOLOGIC AGE IDENTIFICATION

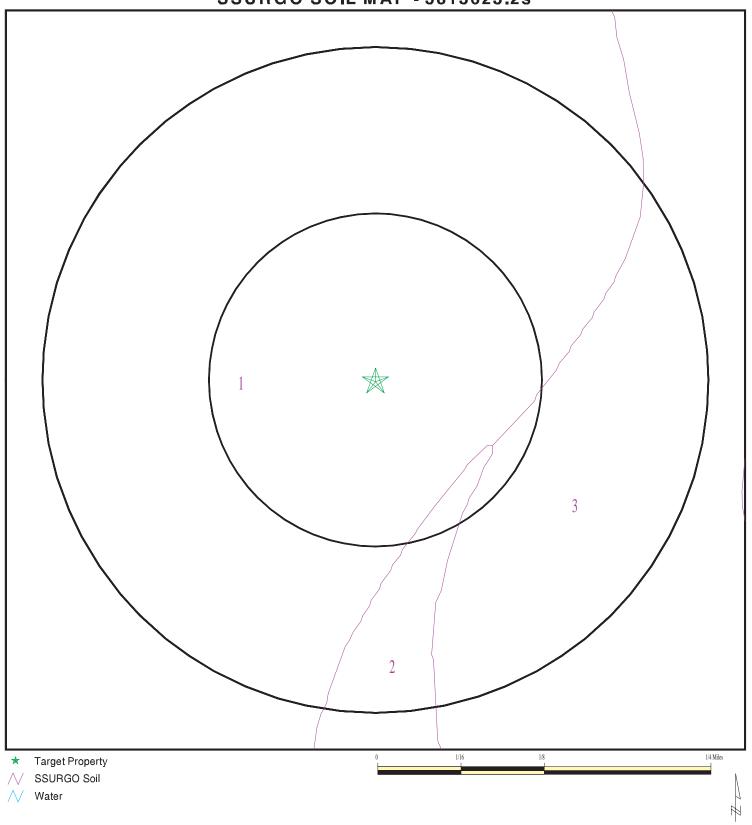
Era: Cenozoic Category: Stratifed Sequence

System: Quaternary Series: Quaternary

Code: Q (decoded above as Era, System & Series)

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 3813623.2s



SITE NAME: Munzer Property
ADDRESS: 4568 and 4570 Francis Avenue
Chino CA 91710
LAT/LONG: 34.0416 / 117.7044

CLIENT: Leighton and Associates, Inc. CONTACT: Brynn Mcculloch INQUIRY#: 3813623.2s

DATE: December 17, 2013 8:07 pm

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: TUJUNGA

Soil Surface Texture: gravelly loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to

excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

	Вои	ındary		Classi	Classification		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	hydraulic conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	18 inches	gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.1
2	18 inches	59 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 6.1

Soil Map ID: 2

Soil Component Name: GRANGEVILLE

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

	Soil Layer Information						
	Вои	ındary		Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	11 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 9 Min: 7.9
2	11 inches	59 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6

Soil Map ID: 3

Soil Component Name: HANFORD
Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Bou	ındary		Classi	Classification		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	hydraulic conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	11 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.1
2	11 inches	59 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 5.6

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE SEARCH DISTANCE (miles)

Federal USGS 1.000

Federal FRDS PWS Nearest PWS within 0.001 miles

State Database 1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000140098	1/4 - 1/2 Mile NNE
B5	USGS40000140078	1/2 - 1 Mile ENE
B6	USGS40000140090	1/2 - 1 Mile ENE
B7	USGS40000140085	1/2 - 1 Mile ENE

FEDERAL USGS WELL INFORMATION

MAP ID WELL ID LOCATION FROM TP

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID WELL ID LOCATION FROM TP

No PWS System Found

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	1205	1/2 - 1 Mile SSE
A3	1184	1/2 - 1 Mile NNE
A4	1185	1/2 - 1 Mile NNE
B8	1210	1/2 - 1 Mile ENE
C9	1191	1/2 - 1 Mile NW
C10	1190	1/2 - 1 Mile NW

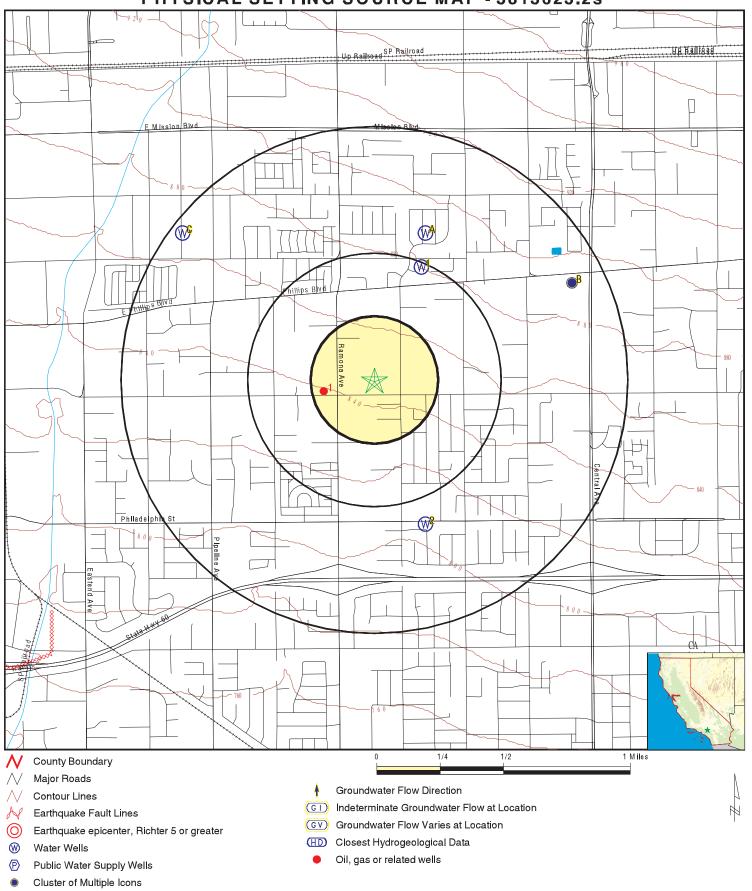
OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

 MAP ID
 WELL ID
 FROM TP

 1
 CAOG9A000031606
 1/8 - 1/4 Mile WSW

PHYSICAL SETTING SOURCE MAP - 3813623.2s



SITE NAME: Munzer Property

4568 and 4570 Francis Avenue Chino CA 91710 ADDRESS:

LAT/LONG: 34 0416 / 117 7044 CLIENT: Leighton and Ass CONTACT: Brynn Mcculloch Leighton and Associates, Inc.

INQUIRY#: 3813623.2s

DATE: December 17, 2013 8:07 pm

Map ID Direction Distance

Elevation Database EDR ID Number

NNE FED USGS USGS40000140098

1/4 - 1/2 Mile Higher

Org. Identifier: USGS-CA

Formal name: USGS California Water Science Center

Monloc Identifier: USGS-340253117420101 Monloc name: 001S008W34A001S

Monloc type: Well

Monloc desc: Not Reported

18070203 Drainagearea value: Not Reported Huc code: Contrib drainagearea: Not Reported Drainagearea Units: Not Reported 34.0480668 Contrib drainagearea units: Not Reported Latitude: Longitude: -117.7011667 Sourcemap scale: 24000 Horiz Acc measure: Horiz Acc measure units: seconds

Horiz Collection method: Interpolated from map

Horiz coord refsys: NAD83 Vert measure val: Not Reported Vert measure units: Not Reported Vertacc measure val: Not Reported

Vert accmeasure units: Not Reported Vertcollection method: Not Reported

Vert coord refsys: Not Reported Countrycode: US

Aquifername: California Coastal Basin aquifers

Formation type: Not Reported Aquifer type: Not Reported

Construction date: Not Reported Welldepth: 1000

Welldepth units: ft Wellholedepth: Not Reported

Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 0

SSE CA WELLS 1205

1/2 - 1 Mile Lower

Higher

Water System Information:

Prime Station Code: 01S/08W-34A01 S User ID: TAN

FRDS Number: 3610029002 County: San Beernardino

District Number: 13 Station Type: WELL/AMBNT/MUN/INTAKE/SUPPLY

Water Type: Well/Groundwater Well Status: Inactive Raw Source Lat/Long: 340200.0 1174200.0 Precision: Undefined Source Name: WELL 02 - INACTIVE

System Number: 3610029

System Name: MONTE VISTA CWD

Organization That Operates System:

PO BOX 71

MONTCLAIR, CA 91763

Pop Served: 38000 Connections: 10837

Area Served: MONTCLAIR

A3 NNE CA WELLS 1184 1/2 - 1 Mile

TC3813623.2s Page A-11

Water System Information:

Prime Station Code: 01S/08W-27H01 S User ID: MET FRDS Number: 1910126028 User ID: County: Los Angeles

District Number: 15 Station Type: WELL/AMBNT/MUN/INTAKE/SUPPLY

Water Type: Well/Groundwater Well Status: Active Untreated Source Lat/Long: 340300.0 1174200.0 Precision: Undefined

Source Name: WELL 28 System Number: 1910126

System Name: POMONA-CITY, WATER DEPT.

Organization That Operates System:

P O BOX 660

POMONA, CA 91769

Pop Served: 131723 Connections: 27808

Area Served: POMONA
Sample Collected: 10/01/2012 Findings: 29. MG/L

Chemical: NITRATE (AS NO3)

Sample Collected: 05/08/2013 Findings: 1000. US

Sample Collected: 05/08/2013 Findings: 1000. US Chemical: SPECIFIC CONDUCTANCE

Sample Collected: 05/08/2013 Findings: 7.8

Chemical: PH, LABORATORY

Sample Collected: 05/08/2013 Findings: 250. MG/L Chemical: ALKALINITY (TOTAL) AS CACO3

Sample Collected: 05/08/2013 Findings: 310. MG/L

Chemical: BICARBONATE ALKALINITY

Sample Collected: 05/08/2013 Findings: 490. MG/L

Chemical: HARDNESS (TOTAL) AS CACO3

Sample Collected: 05/08/2013 Findings: 140. MG/L Chemical: CALCIUM

Sample Collected: 05/08/2013 Findings: 33. MG/L

Chemical: MAGNESIUM

Sample Collected: 05/08/2013 Findings: 41. MG/L Chemical: SODIUM

Sample Collected: 05/08/2013 Findings: 2.8 MG/L

Chemical: POTASSIUM

Sample Collected: 05/08/2013 Findings: 62. MG/L

Chemical: CHLORIDE

Sample Collected: 05/08/2013 Findings: 0.29 MG/L Chemical: FLUORIDE (F) (NATURAL-SOURCE)

Sample Collected: 05/08/2013 Findings: 0.53 UG/L

Chemical: TETRACHLOROETHYLENE

Sample Collected: 05/08/2013 Findings: 680. MG/L

Chemical: TOTAL DISSOLVED SOLIDS

Sample Collected: 05/08/2013 Findings: 1.4
Chemical: LANGELIER INDEX @ 60 C

Sample Collected: 05/08/2013 Findings: 35. MG/L

Chemical: NITRATE (AS NO3)

Sample Collected: Chemical:	05/08/2013 TURBIDITY, LABORATORY	Findings:	0.18 NTU
Sample Collected: Chemical:	05/08/2013 TOTAL TRIHALOMETHANES	Findings:	0.94 UG/L
Sample Collected: Chemical:	05/08/2013 AGGRSSIVE INDEX (CORROSIVITY)	Findings:	13.
Sample Collected: Chemical:	05/08/2013 NITRATE + NITRITE (AS N)	Findings:	8000. UG/L
Sample Collected: Chemical:	05/08/2013 PERCHLORATE	Findings:	4.7 UG/L
Sample Collected: Chemical:	01/19/2011 SPECIFIC CONDUCTANCE	Findings:	990. US
Sample Collected: Chemical:	01/19/2011 PH, LABORATORY	Findings:	7.74
Sample Collected: Chemical:	01/19/2011 ALKALINITY (TOTAL) AS CACO3	Findings:	280. MG/L
Sample Collected: Chemical:	01/19/2011 BICARBONATE ALKALINITY	Findings:	340. MG/L
Sample Collected: Chemical:	01/19/2011 HARDNESS (TOTAL) AS CACO3	Findings:	440. MG/L
Sample Collected: Chemical:	01/19/2011 CALCIUM	Findings:	130. MG/L
Sample Collected: Chemical:	01/19/2011 MAGNESIUM	Findings:	29. MG/L
Sample Collected: Chemical:	01/19/2011 SODIUM	Findings:	38. MG/L
Sample Collected: Chemical:	01/19/2011 POTASSIUM	Findings:	2.8 MG/L
Sample Collected: Chemical:	01/19/2011 CHLORIDE	Findings:	67. MG/L
Sample Collected: Chemical:	01/19/2011 FLUORIDE (F) (NATURAL-SOURCE)	Findings:	0.3 MG/L
Sample Collected: Chemical:	01/19/2011 CHROMIUM, HEXAVALENT	Findings:	1.1 UG/L
Sample Collected: Chemical:	01/19/2011 TOTAL DISSOLVED SOLIDS	Findings:	700. MG/L
Sample Collected: Chemical:	01/19/2011 NITRATE (AS NO3)	Findings:	37. MG/L
Sample Collected: Chemical:	01/19/2011 NITRATE + NITRITE (AS N)	Findings:	8300. UG/L
Sample Collected: Chemical:	01/19/2011 PERCHLORATE	Findings:	4.3 UG/L
Sample Collected: Chemical:	02/15/2011 TETRACHLOROETHYLENE	Findings:	0.95 UG/L

Sample Collected: Chemical:	03/02/2011 TETRACHLOROETHYLENE	Findings:	1.4 UG/L
Sample Collected: Chemical:	03/02/2011 TRICHLOROETHYLENE	Findings:	0.7 UG/L
Sample Collected: Chemical:	04/06/2011 TETRACHLOROETHYLENE	Findings:	2.6 UG/L
Sample Collected: Chemical:	04/06/2011 TRICHLOROETHYLENE	Findings:	1.4 UG/L
Sample Collected: Chemical:	04/06/2011 NITRATE (AS NO3)	Findings:	32. MG/L
Sample Collected: Chemical:	05/04/2011 TETRACHLOROETHYLENE	Findings:	3.7 UG/L
Sample Collected: Chemical:	05/04/2011 TRICHLOROETHYLENE	Findings:	2. UG/L
Sample Collected: Chemical:	06/02/2011 TETRACHLOROETHYLENE	Findings:	4.3 UG/L
Sample Collected: Chemical:	06/02/2011 TRICHLOROETHYLENE	Findings:	2.4 UG/L
Sample Collected: Chemical:	07/13/2011 SPECIFIC CONDUCTANCE	Findings:	1100. US
Sample Collected: Chemical:	07/13/2011 PH, LABORATORY	Findings:	7.48
Sample Collected: Chemical:	07/13/2011 ALKALINITY (TOTAL) AS CACO3	Findings:	300. MG/L
Sample Collected: Chemical:	07/13/2011 BICARBONATE ALKALINITY	Findings:	370. MG/L
Sample Collected: Chemical:	07/13/2011 HARDNESS (TOTAL) AS CACO3	Findings:	500. MG/L
Sample Collected: Chemical:	07/13/2011 CALCIUM	Findings:	140. MG/L
Sample Collected: Chemical:	07/13/2011 MAGNESIUM	Findings:	35. MG/L
Sample Collected: Chemical:	07/13/2011 SODIUM	Findings:	39. MG/L
Sample Collected: Chemical:	07/13/2011 POTASSIUM	Findings:	2.9 MG/L
Sample Collected: Chemical:	07/13/2011 CHLORIDE	Findings:	59. MG/L
Sample Collected: Chemical:	07/13/2011 FLUORIDE (F) (NATURAL-SOURCE)	Findings:	0.28 MG/L
Sample Collected: Chemical:	07/13/2011 BARIUM	Findings:	110. UG/L
Sample Collected: Chemical:	07/13/2011 TETRACHLOROETHYLENE	Findings:	4.5 UG/L

Sample Collected: Chemical:	07/13/2011 TRICHLOROETHYLENE	Findings:	2.5 UG/L
Sample Collected: Chemical:	07/13/2011 TOTAL DISSOLVED SOLIDS	Findings:	740. MG/L
Sample Collected: Chemical:	07/13/2011 NITRATE (AS NO3)	Findings:	33. MG/L
Sample Collected: Chemical:	07/13/2011 AGGRSSIVE INDEX (CORROSIVITY)	Findings:	12.5
Sample Collected: Chemical:	07/13/2011 NITRATE + NITRITE (AS N)	Findings:	7400. UG/L
Sample Collected: Chemical:	10/13/2011 TETRACHLOROETHYLENE	Findings:	3.7 UG/L
Sample Collected: Chemical:	10/13/2011 TRICHLOROETHYLENE	Findings:	1.9 UG/L
Sample Collected: Chemical:	10/13/2011 NITRATE (AS NO3)	Findings:	36. MG/L
Sample Collected: Chemical:	06/13/2012 GROSS ALPHA	Findings:	4.3 PCI/L
Sample Collected: Chemical:	06/13/2012 GROSS ALPHA COUNTING ERROR	Findings:	1.68 PCI/L
Sample Collected: Chemical:	06/13/2012 SPECIFIC CONDUCTANCE	Findings:	1000. US
Sample Collected: Chemical:	06/13/2012 PH, LABORATORY	Findings:	7.8
Sample Collected: Chemical:	06/13/2012 ALKALINITY (TOTAL) AS CACO3	Findings:	240. MG/L
Sample Collected: Chemical:	06/13/2012 BICARBONATE ALKALINITY	Findings:	290. MG/L
Sample Collected: Chemical:	06/13/2012 HARDNESS (TOTAL) AS CACO3	Findings:	470. MG/L
Sample Collected: Chemical:	06/13/2012 CALCIUM	Findings:	140. MG/L
Sample Collected: Chemical:	06/13/2012 MAGNESIUM	Findings:	31. MG/L
Sample Collected: Chemical:	06/13/2012 SODIUM	Findings:	38. MG/L
Sample Collected: Chemical:	06/13/2012 POTASSIUM	Findings:	2.5 MG/L
Sample Collected: Chemical:	06/13/2012 CHLORIDE	Findings:	61. MG/L
Sample Collected: Chemical:	06/13/2012 FLUORIDE (F) (NATURAL-SOURCE)	Findings:	0.3 MG/L
Sample Collected: Chemical:	06/13/2012 URANIUM (PCI/L)	Findings:	4.6 PCI/L

Sample Collected: 670. MG/L 06/13/2012 Findings: Chemical: TOTAL DISSOLVED SOLIDS Sample Collected: 06/13/2012 Findings: 1.4 LANGELIER INDEX @ 60 C Chemical: Sample Collected: 06/13/2012 Findings: 34. MG/L Chemical: NITRATE (AS NO3) Sample Collected: 06/13/2012 Findings: 7.2e-002 NTU Chemical: TURBIDITY, LABORATORY 0.6 UG/L Sample Collected: 06/13/2012 Findings: Chemical: TOTAL TRIHALOMETHANES Sample Collected: 06/13/2012 Findings: 13. AGGRSSIVE INDEX (CORROSIVITY) Chemical: Sample Collected: 06/13/2012 Findings: 7700. UG/L Chemical: NITRATE + NITRITE (AS N) Sample Collected: 07/19/2012 Findings: 0.89 UG/L **TETRACHLOROETHYLENE** Chemical: Sample Collected: 08/09/2012 Findings: 1.3 UG/L Chemical: **TETRACHLOROETHYLENE** Sample Collected: 08/09/2012 Findings: 0.77 UG/L Chemical: **TRICHLOROETHYLENE** Sample Collected: 08/09/2012 Findings: 32. MG/L Chemical: NITRATE (AS NO3) Sample Collected: 08/09/2012 Findings: 4.4 UG/L Chemical: PERCHLORATE Sample Collected: 09/06/2012 Findings: 3.3 UG/L Chemical: **TETRACHLOROETHYLENE** Sample Collected: 09/06/2012 Findings: 1.9 UG/L Chemical: **TRICHLOROETHYLENE** Sample Collected: 10/01/2012 Findings: 4.1 UG/L Chemical: **TETRACHLOROETHYLENE** Sample Collected: 10/01/2012 2.2 UG/L Findings: TRICHLOROETHYLENE Chemical:

A4 NNE CA WELLS 1185

1/2 - 1 Mile Higher

Water System Information:

Prime Station Code: 01S/08W-27H02 S User ID: TAN

FRDS Number: 3610029007 County: San Beernardino

District Number: 13 Station Type: WELL/AMBNT/MUN/INTAKE/SUPPLY

Water Type: Well/Groundwater Well Status: Inactive Raw Source Lat/Long: 340300.0 1174200.0 Precision: Undefined Source Name: WELL 08 - INACTIVE

System Number: 3610029

System Name: MONTE VISTA CWD

Organization That Operates System:

PO BOX 71

MONTCLAIR, CA 91763

Pop Served: 38000 Connections: 10837

Area Served: MONTCLAIR

Map ID Direction Distance

Elevation Database EDR ID Number

1/2 - 1 Mile Higher

Org. Identifier: USGS-CA

Formal name: USGS California Water Science Center

Monloc Identifier: USGS-340248117412401 Monloc name: 001S008W35C001S

Monloc type: Well

Monloc desc: Not Reported

18070203 Drainagearea value: Not Reported Huc code: Contrib drainagearea: Not Reported Drainagearea Units: Not Reported 34.046678 Contrib drainagearea units: Not Reported Latitude: Longitude: -117.6908886 Sourcemap scale: 24000 Horiz Acc measure: Horiz Acc measure units: seconds

Horiz Collection method: Interpolated from map

Horiz coord refsys: NAD83 Vert measure val: Not Reported Vert measure units: Not Reported Vertacc measure val: Not Reported

Vert accmeasure units: Not Reported Vertcollection method: Not Reported

Vert coord refsys: Not Reported Countrycode: US

Aquifername: California Coastal Basin aquifers

Formation type: Not Reported Aquifer type: Not Reported

Construction date: Not Reported Welldepth: 463 Welldepth units: ft Wellholedepth: 463

Wellholedepth units: ft

Ground-water levels, Number of Measurements: 0

1/2 - 1 Mile Higher

Org. Identifier: USGS-CA

Formal name: USGS California Water Science Center

Monloc Identifier: USGS-340251117412501 Monloc name: 001S008W35C004S

Monloc type: Well

Monloc desc: Not Reported

Huc code: 18070203 Drainagearea value: Not Reported Drainagearea Units: Not Reported Contrib drainagearea: Not Reported Contrib drainagearea units: Not Reported 34.0475113 Latitude: -117.6911664 24000 Longitude: Sourcemap scale: Horiz Acc measure: Horiz Acc measure units: seconds

Horiz Collection method: Interpolated from map

Horiz coord refsys: NAD83 Vert measure val: Not Reported Vert measure units: Not Reported Vertacc measure val: Not Reported

Vert accmeasure units: Not Reported Vertcollection method: Not Reported

Vert coord refsys: Not Reported Countrycode: US

Aquifername: California Coastal Basin aquifers

Formation type: Not Reported

Aquifer type: Not Reported

Construction date: Not Reported Welldepth: 404
Welldepth units: ft Wellholedepth: 404

Wellholedepth units: ft

Ground-water levels, Number of Measurements: 0

B7 ENE FED USGS USGS40000140085

1/2 - 1 Mile Higher

Org. Identifier: USGS-CA

Formal name: USGS California Water Science Center

Monloc Identifier: USGS-340250117412401 Monloc name: 001S008W35C005S

Monloc type: Well

Monloc desc: Not Reported

Huc code: 18070203 Drainagearea value: Not Reported Drainagearea Units: Not Reported Contrib drainagearea: Not Reported Contrib drainagearea units: Not Reported 34.0472336 Latitude: Longitude: -117.6908886 Sourcemap scale: 24000 Horiz Acc measure: Horiz Acc measure units: seconds

Horiz Collection method: Interpolated from map

Horiz coord refsys: NAD83 Vert measure val: Not Reported Vert measure units: Not Reported Vertacc measure val: Not Reported

Vert accmeasure units: Not Reported Vertcollection method: Not Reported

Vert coord refsys: Not Reported Countrycode: US

Aquifername: California Coastal Basin aquifers

Formation type: Not Reported Aquifer type: Not Reported

Construction date: Not Reported Welldepth: 1150 Welldepth units: ft Wellholedepth: 1150

Wellholedepth units: ft

Ground-water levels, Number of Measurements: 0

B8
ENE CA WELLS 1210

1/2 - 1 Mile Higher

Water System Information:

Prime Station Code: 01S/08W-35C07 S User ID: TAN

FRDS Number: 3610012011 County: San Beernardino District Number: 13 Station Type: WELL/AMBNT Water Type: Well/Groundwater Well Status: Active Raw

Source Lat/Long: 340250.0 1174122.0 Precision: 1,000 Feet (10 Seconds)

Source Name: WELL 12
System Number: 3610012
System Name: CITY OF CHINO
Organization That Operates System:
P O BOX 667

CHINO, CA 91710

Pop Served: 52130 Connections: 13357

Area Served: CHINO, CITY OF

Sample Collected: Chemical:	01/17/2013 NITRATE (AS NO3)	Findings:	92. MG/L
Sample Collected: Chemical:	01/17/2013 PERCHLORATE	Findings:	19. UG/L
Sample Collected: Chemical:	01/23/2013 RADIUM 228 COUNTING ERROR	Findings:	0.287 PCI/L
Sample Collected: Chemical:	01/23/2013 COLOR	Findings:	5. UNITS
Sample Collected: Chemical:	01/23/2013 ODOR THRESHOLD @ 60 C	Findings:	2. TON
Sample Collected: Chemical:	01/23/2013 SPECIFIC CONDUCTANCE	Findings:	580. US
Sample Collected: Chemical:	01/23/2013 PH, LABORATORY	Findings:	8.
Sample Collected: Chemical:	01/23/2013 ALKALINITY (TOTAL) AS CACO3	Findings:	140. MG/L
Sample Collected: Chemical:	01/23/2013 BICARBONATE ALKALINITY	Findings:	170. MG/L
Sample Collected: Chemical:	01/23/2013 HARDNESS (TOTAL) AS CACO3	Findings:	250. MG/L
Sample Collected: Chemical:	01/23/2013 CALCIUM	Findings:	74. MG/L
Sample Collected: Chemical:	01/23/2013 MAGNESIUM	Findings:	17. MG/L
Sample Collected: Chemical:	01/23/2013 SODIUM	Findings:	15. MG/L
Sample Collected: Chemical:	01/23/2013 POTASSIUM	Findings:	2.2 MG/L
Sample Collected: Chemical:	01/23/2013 CHLORIDE	Findings:	14. MG/L
Sample Collected: Chemical:	01/23/2013 FLUORIDE (F) (NATURAL-SOURCE)	Findings:	0.21 MG/L
Sample Collected: Chemical:	01/23/2013 CHROMIUM, HEXAVALENT	Findings:	6.6 UG/L
Sample Collected: Chemical:	01/23/2013 IRON	Findings:	110. UG/L
Sample Collected: Chemical:	01/23/2013 VANADIUM	Findings:	4. UG/L
Sample Collected: Chemical:	01/23/2013 GROSS ALPHA COUNTING ERROR	Findings:	2.3 PCI/L
Sample Collected: Chemical:	01/23/2013 URANIUM (PCI/L)	Findings:	1.6 PCI/L
Sample Collected: Chemical:	01/23/2013 CHLOROFORM (THM)	Findings:	1.6 UG/L

Sample Collected: 01/23/2013 Findings: 8.6e-002 UG/L

Chemical: DIBROMOCHLOROPROPANE (DBCP)

Sample Collected: 01/23/2013 Findings: 370. MG/L

Chemical: TOTAL DISSOLVED SOLIDS

Sample Collected: 01/23/2013 Findings: 91. MG/L

Chemical: NITRATE (AS NO3)

Sample Collected: 01/23/2013 Findings: 1.2e-002 UG/L

Chemical: 1,2,3-TRICHLOROPROPANE

Sample Collected: 01/23/2013 Findings: 1.2 NTU

Chemical: TURBIDITY, LABORATORY

Sample Collected: 01/23/2013 Findings: 1.6 UG/L

Chemical: TOTAL TRIHALOMETHANES

Sample Collected: 01/23/2013 Findings: 13.

Chemical: AGGRSSIVE INDEX (CORROSIVITY)

Sample Collected: 01/23/2013 Findings: 21000. UG/L

Chemical: NITRATE + NITRITE (AS N)

Sample Collected: 01/23/2013 Findings: 17. UG/L

Chemical: PERCHLORATE

Sample Collected: 01/23/2013 Findings: 3. PCI/L

Chemical: GROSS ALPHA MDA95

NW CA WELLS 1191

1/2 - 1 Mile Higher

Water System Information:

Prime Station Code: 01S/08W-28G02 S User ID: MET FRDS Number: 1910126010 County: Los Angeles

District Number: 15 Station Type: WELL/AMBNT/MUN/INTAKE/SUPPLY

Water Type: Well/Groundwater Well Status: Active Untreated Source Lat/Long: 340300.0 1174300.0 Precision: Undefined

Source Name: WELL 10 System Number: 1910126

System Name: POMONA-CITY, WATER DEPT.

Organization That Operates System:

P O BOX 660

POMONA, CA 91769

Pop Served: 131723 Connections: 27808

Area Served: POMONA

Sample Collected: 01/12/2011 Findings: 47. MG/L

Chemical: NITRATE (AS NO3)

Sample Collected: 01/12/2011 Findings: 7.1 UG/L

Chemical: PERCHLORATE

Sample Collected: 02/10/2011 Findings: 48. MG/L

Chemical: NITRATE (AS NO3)

Sample Collected: 02/10/2011 Findings: 7. UG/L Chemical: PERCHLORATE

Sample Collected: Chemical:	03/10/2011 NITRATE (AS NO3)	Findings:	52. MG/L
Sample Collected: Chemical:	03/10/2011 PERCHLORATE	Findings:	9. UG/L
Sample Collected: Chemical:	04/06/2011 CHROMIUM, HEXAVALENT	Findings:	7.8 UG/L
Sample Collected: Chemical:	04/06/2011 NITRATE (AS NO3)	Findings:	49. MG/L
Sample Collected: Chemical:	04/06/2011 PERCHLORATE	Findings:	6.8 UG/L
Sample Collected: Chemical:	05/10/2011 NITRATE (AS NO3)	Findings:	52. MG/L
Sample Collected: Chemical:	05/10/2011 PERCHLORATE	Findings:	6.5 UG/L
Sample Collected: Chemical:	06/02/2011 NITRATE (AS NO3)	Findings:	48. MG/L
Sample Collected: Chemical:	06/02/2011 PERCHLORATE	Findings:	6.9 UG/L
Sample Collected: Chemical:	07/13/2011 NITRATE (AS NO3)	Findings:	49. MG/L
Sample Collected: Chemical:	07/13/2011 PERCHLORATE	Findings:	6.8 UG/L
Sample Collected: Chemical:	08/03/2011 SPECIFIC CONDUCTANCE	Findings:	550. US
Sample Collected: Chemical:	08/03/2011 PH, LABORATORY	Findings:	7.68
Sample Collected: Chemical:	08/03/2011 ALKALINITY (TOTAL) AS CACO3	Findings:	150. MG/L
Sample Collected: Chemical:	08/03/2011 BICARBONATE ALKALINITY	Findings:	180. MG/L
Sample Collected: Chemical:	08/03/2011 HARDNESS (TOTAL) AS CACO3	Findings:	240. MG/L
Sample Collected: Chemical:	08/03/2011 CALCIUM	Findings:	74. MG/L
Sample Collected: Chemical:	08/03/2011 MAGNESIUM	Findings:	13. MG/L
Sample Collected: Chemical:	08/03/2011 SODIUM	Findings:	11. MG/L
Sample Collected: Chemical:	08/03/2011 POTASSIUM	Findings:	1.8 MG/L
Sample Collected: Chemical:	08/03/2011 CHLORIDE	Findings:	38. MG/L
Sample Collected: Chemical:	08/03/2011 FLUORIDE (F) (NATURAL-SOURCE)	Findings:	0.22 MG/L

Sample Collected: Chemical:	08/03/2011 TOTAL DISSOLVED SOLIDS	Findings:	360. MG/L
Sample Collected: Chemical:	08/03/2011 NITRATE (AS NO3)	Findings:	48. MG/L
Sample Collected: Chemical:	08/03/2011 AGGRSSIVE INDEX (CORROSIVITY)	Findings:	12.1
Sample Collected: Chemical:	08/03/2011 NITRATE + NITRITE (AS N)	Findings:	11000. UG/L
Sample Collected: Chemical:	08/03/2011 PERCHLORATE	Findings:	6.1 UG/L
Sample Collected: Chemical:	09/14/2011 NITRATE (AS NO3)	Findings:	45. MG/L
Sample Collected: Chemical:	09/14/2011 PERCHLORATE	Findings:	5.2 UG/L
Sample Collected: Chemical:	10/06/2011 CHROMIUM, HEXAVALENT	Findings:	6.6 UG/L
Sample Collected: Chemical:	10/06/2011 NITRATE (AS NO3)	Findings:	41. MG/L
Sample Collected: Chemical:	10/06/2011 PERCHLORATE	Findings:	5.4 UG/L
Sample Collected: Chemical:	11/02/2011 NITRATE (AS NO3)	Findings:	46. MG/L
Sample Collected: Chemical:	11/02/2011 PERCHLORATE	Findings:	5.8 UG/L
Sample Collected: Chemical:	12/08/2011 NITRATE (AS NO3)	Findings:	45. MG/L
Sample Collected: Chemical:	12/08/2011 PERCHLORATE	Findings:	5.9 UG/L
Sample Collected: Chemical:	01/05/2012 NITRATE (AS NO3)	Findings:	42. MG/L
Sample Collected: Chemical:	01/05/2012 PERCHLORATE	Findings:	5.5 UG/L
Sample Collected: Chemical:	02/02/2012 NITRATE (AS NO3)	Findings:	41. MG/L
Sample Collected: Chemical:	02/02/2012 PERCHLORATE	Findings:	4.3 UG/L
Sample Collected: Chemical:	03/01/2012 NITRATE (AS NO3)	Findings:	38. MG/L
Sample Collected: Chemical:	03/01/2012 PERCHLORATE	Findings:	5.4 UG/L
Sample Collected: Chemical:	04/04/2012 CHROMIUM, HEXAVALENT	Findings:	11. UG/L
Sample Collected: Chemical:	04/04/2012 CHROMIUM (TOTAL)	Findings:	12. UG/L

Sample Collected: Chemical:	04/04/2012 NITRATE (AS NO3)	Findings:	40. MG/L
Sample Collected: Chemical:	04/04/2012 PERCHLORATE	Findings:	5.3 UG/L
Sample Collected: Chemical:	05/02/2012 NITRATE (AS NO3)	Findings:	38. MG/L
Sample Collected: Chemical:	05/02/2012 PERCHLORATE	Findings:	5. UG/L
Sample Collected: Chemical:	06/06/2012 NITRATE (AS NO3)	Findings:	35. MG/L
Sample Collected: Chemical:	06/06/2012 PERCHLORATE	Findings:	4.6 UG/L
Sample Collected: Chemical:	07/05/2012 NITRATE (AS NO3)	Findings:	34. MG/L
Sample Collected: Chemical:	07/05/2012 PERCHLORATE	Findings:	4.3 UG/L
Sample Collected: Chemical:	08/02/2012 NITRATE (AS NO3)	Findings:	33. MG/L
Sample Collected: Chemical:	08/02/2012 PERCHLORATE	Findings:	4.1 UG/L
Sample Collected: Chemical:	09/06/2012 NITRATE (AS NO3)	Findings:	34. MG/L
Sample Collected: Chemical:	09/06/2012 PERCHLORATE	Findings:	4.6 UG/L
Sample Collected: Chemical:	10/03/2012 CHROMIUM, HEXAVALENT	Findings:	8.4 UG/L
Sample Collected: Chemical:	10/03/2012 NITRATE (AS NO3)	Findings:	33. MG/L
Sample Collected: Chemical:	10/03/2012 PERCHLORATE	Findings:	5.4 UG/L
Sample Collected: Chemical:	11/08/2012 NITRATE (AS NO3)	Findings:	34. MG/L
Sample Collected: Chemical:	11/08/2012 PERCHLORATE	Findings:	4.3 UG/L
Sample Collected: Chemical:	12/05/2012 NITRATE (AS NO3)	Findings:	32. MG/L
Sample Collected: Chemical:	12/05/2012 PERCHLORATE	Findings:	4.7 UG/L
Sample Collected: Chemical:	01/02/2013 NITRATE (AS NO3)	Findings:	32. MG/L
Sample Collected: Chemical:	01/02/2013 PERCHLORATE	Findings:	4.2 UG/L
Sample Collected: Chemical:	02/06/2013 NITRATE (AS NO3)	Findings:	30. MG/L

Sample Collected: 29. MG/L 03/06/2013 Findings: Chemical: NITRATE (AS NO3)

Sample Collected: 03/06/2013 Findings: 4.1 UG/L Chemical: PERCHLORATE

Sample Collected: 04/02/2013 Findings: 6. UG/L

Chemical: CHROMIUM, HEXAVALENT

Sample Collected: 04/02/2013 Findings: 31. MG/L

Chemical: NITRATE (AS NO3)

Sample Collected: 31. MG/L 05/01/2013 Findings:

Chemical: NITRATE (AS NO3)

Sample Collected: 06/04/2013 Findings: 30. MG/L

Chemical: NITRATE (AS NO3)

C10 NW 1/2 - 1 Mile **CA WELLS** 1190

Higher

Water System Information:

Prime Station Code: 01S/08W-28G01 S User ID: MET

FRDS Number: 1910126004 County: Los Angeles

Station Type: District Number: WELL/AMBNT/MUN/INTAKE/SUPPLY 15

Water Type: Well/Groundwater Well Status: Active Untreated Source Lat/Long: 340300.0 1174300.0 Precision: Undefined

Source Name: WELL 04 System Number: 1910126

System Name: POMONA-CITY, WATER DEPT.

Organization That Operates System:

P O BOX 660

POMONA, CA 91769

Pop Served: 131723 Connections: 27808

Area Served: **POMONA**

Map ID Direction Distance

Comments:

istance Database EDR ID Number

1 WSW OIL_GAS CAOG9A000031606 1/8 - 1/4 Mile

Districtnu: 1 Apinumber: 07100017
Blmwell: N Redrillcan: Not Reported

Dryhole: N Wellstatus: I

Operatorna: B & G Development Co.

Not Reported

Countyname: San Bernardino Fieldname: Any Field

Areaname: Any Area Section: 34

Township: 01S Range: 08W

Basemeridi: SB Elevation: Not Reported

Locationde: Not Reported Glat: 34.040955 Glong: -117.707887 Gissourcec: hud

Leasename:BruceWellnumber:1Epawell:NHydraulica:N

Confidenti:NSpuddate:12/30/1899Welldeptha:Not ReportedRedrillfoo:Not Reported

Abandonedd: // Completion: //

Gissymbol: AOG Site id: CAOG9A000031606

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
91710	14	0

Federal EPA Radon Zone for SAN BERNARDINO County: 2

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 91710

Number of sites tested: 1

Area Average Activity % <4 pCi/L % 4-20 pCi/L % >20 pCi/L 2.900 pCi/L Living Area - 1st Floor 100% 0% 0% Living Area - 2nd Floor Not Reported Not Reported Not Reported Not Reported Not Reported Basement Not Reported Not Reported Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map. USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database

Source: Department of Water Resources

Telephone: 916-651-9648

California Drinking Water Quality Database Source: Department of Public Health

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations Source: Department of Conservation

Telephone: 916-323-1779

Oil and Gas well locations in the state.

RADON

State Database: CA Radon

Source: Department of Health Services

Telephone: 916-324-2208 Radon Database for California

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency

(USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

•

EPA Radon Zones Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor

radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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Munzer Property

4568 and 4570 Francis Avenue Chino, CA 91710

Inquiry Number: 3813623.10s

January 10, 2014

EDR Vapor Encroachment Screen

Prepared using EDR's Vapor Encroachment Worksheet

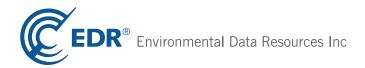


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Aerial Photography	4
Map Findings	5
Record Sources and Currency	GR-1

Thank you for your business.Please contact EDR at 1-800-352-0050 with any questions or comments.

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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of the ASTM Standard Practice for Assessment of Vapor Encroachment into Structures on Property Involved in Real Estate Transactions (E 2600-10).

		Sur	nmary	/
STANDARD ENVIRONMENTAL RECORDS	Maximum Search Distance*	property	1/10	1/10 - 1/3
Federal NPL	0.333	0	0	0
Federal CERCLIS	0.333	0	0	0
Federal RCRA CORRACTS facilities list	0.333	0	0	0
Federal RCRA TSD facilities list	0.333	0	0	0
Federal RCRA generators list	property	0	-	-
Federal institutional controls / engineering controls registries	0.333	0	0	0
Federal ERNS list	property	0	-	-
State and tribal - equivalent NPL	0.333	0	0	0
State and tribal - equivalent CERCLIS	0.333	0	0	0
State and tribal landfill / solid waste disposal	0.333	0	0	0
State and tribal leaking storage tank lists	0.333	0	0	0
State and tribal registered storage tank lists	property	0	-	-
State and tribal institutional control / engineering control registries	not searched	-	-	-
State and tribal voluntary cleanup sites	0.333	0	0	0
State and tribal Brownfields sites	not searched	-	-	-
Other Standard Environmental Records	0.333	0	0	0

HISTORICAL USE RECORDS

THO TO KNOW LOOK DO				
Former manufactured Gas Plants	0.333	0	0	0
Historical Gas Stations	0.25	0	1	0
Historical Dry Cleaners	0.25	0	0	0

^{*}Each category may include several separate databases, each having a different search distance. For each category, the table reports the maximum search distance applied. See the section 'Record Sources and Currency' for information on individual databases.

TARGET PROPERTY INFORMATION

ADDRESS

MUNZER PROPERTY 4568 AND 4570 FRANCIS AVENUE CHINO, CA 91710

COORDINATES

Latitude (North): 34.0416 - 34° 2′ 29.757385″ Longitude (West): 117.7044 - 117° 42′ 15.836792″

Elevation: 847 ft. above sea level

PHYSICAL SETTING INFORMATION

Flood Zone: YES

NWI Wetlands: YES

AQUIFLOW®

Search Radius: 0.333 Mile.

No Aquiflow sites reported.

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: TUJUNGA

Soil Surface Texture: gravelly loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to

excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information										
	Воц	undary		Classit	fication	Saturated hydraulic				
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)			
1	0 inches	18 inches	gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.1			

	Soil Layer Information										
	Bou	ndary		Classification		Saturated hydraulic					
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec					
2	18 inches	59 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 6.1				

Soil Map ID: 2

Soil Component Name: GRANGEVILLE

Soil Surface Texture: fine sandy loam

Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse Hydrologic Group:

textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches Depth to Watertable Min: > 0 inches

	Soil Layer Information										
	Bou	ındary		Classi	fication	Saturated hydraulic					
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec					
1	0 inches	11 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 9 Min: 7.9				
2	11 inches	59 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6				

Soil Map ID: 3

Soil Component Name: HANFORD

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

	Soil Layer Information										
	Вои	ındary		Classification		Saturated hydraulic					
Layer	Upper	Lower	Soil Texture Class	AASHTO Group							
1	0 inches	11 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.1				
2	11 inches	59 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 5.6				

Soil Map ID: 4

Soil Component Name: CIENEBA

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information										
	Bou	ındary		Classi	fication	Saturated hydraulic				
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec				
1	0 inches	7 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.1			
2	7 inches	14 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.1			
3	14 inches	18 inches	weathered bedrock	Not reported	Not reported	Max: 0.42 Min: 0	Max: Min:			

SEARCH RESULTS

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Name	Address	Dist/Dir	Map ID	Page

Not Reported

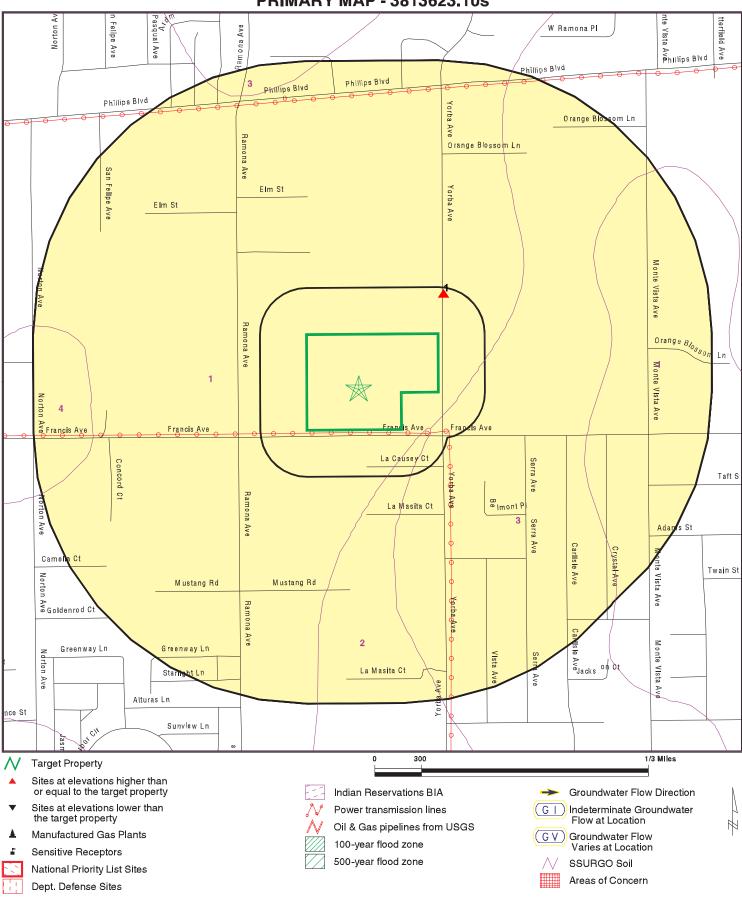
HISTORICAL USE RECORDS

 Name
 Address
 Dist/Dir
 Map ID
 Page

 11535 YORBA AVE
 11535 YORBA AVE
 <1/10 NE</td>
 ▲ 1
 12

EDR US Hist Auto Stat: Historical Gas Stations

PRIMARY MAP - 3813623.10s



SITE NAME: Munzer Property

ADDRESS: 4568 and 4570 Francis Avenue

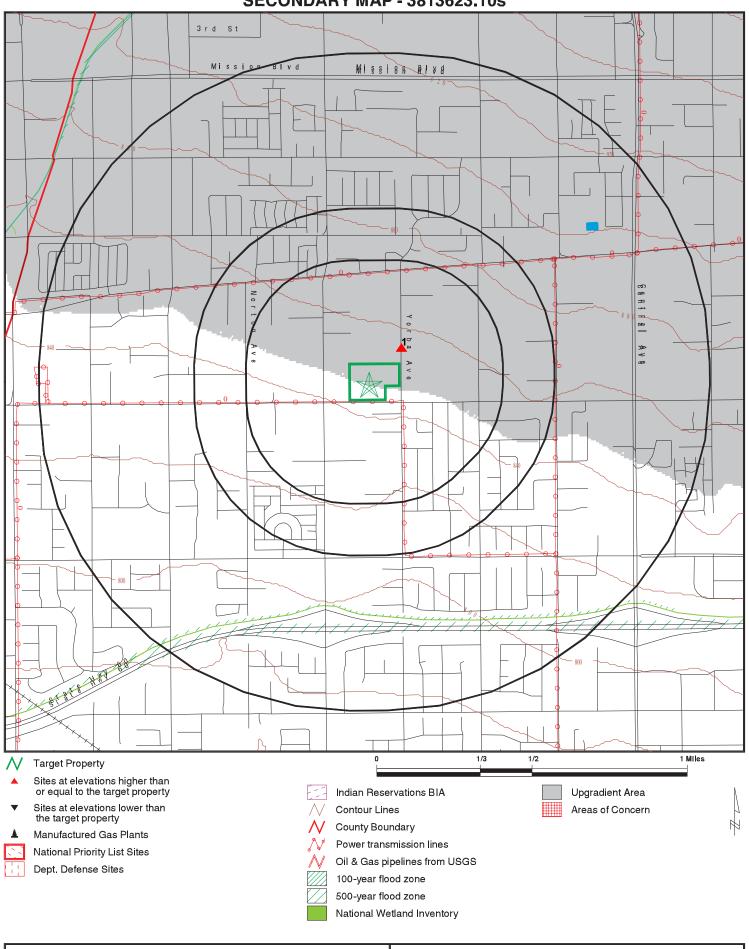
Chino CA 91710 LAT/LONG: 34.0416 / 117.7044 CLIENT: Leighton and Associates, Inc.

CONTACT: Brynn Mcculloch

INQUIRY #: 3813623.10s DATE: December 18, 2013 10:17 am

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SECONDARY MAP - 3813623.10s



SITE NAME: Munzer Property

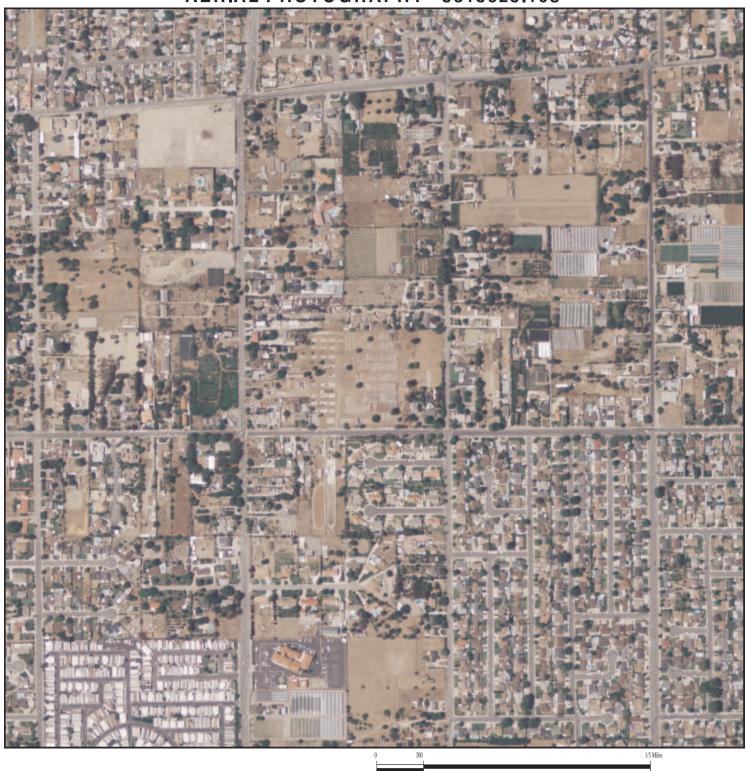
4568 and 4570 Francis Avenue Chino CA 91710 ADDRESS:

LAT/LONG: 34 0416 / 117 7044 CLIENT: CONTACT: Leighton and Associates, Inc.

Brynn Mcculloch INQUIRY #: 3813623.10s

DATE: December 18, 2013 10:15 am

AERIAL PHOTOGRAPHY - 3813623.10s



SITE NAME: Munzer Property
ADDRESS: 4568 and 4570 Francis Avenue
Chino CA 91710
LAT/LONG: 34.0416 / 117.7044

CLIENT: Leighton and Associates, Inc.
CONTACT: Brynn Mcculloch
INQUIRY#: 3813623.10s
DATE: December 18, 2013 10:20 am

MAP FINDINGS

LEGEND

FACILITY NAME FACILITY ADDRESS, CITY, ST, ZIP EDR SITE ID NUMBER					
▼ MAP ID#	Direction Distance Range Relative Elevation	(Distance feet / miles) Feet Above Sea Level	ASTM 2600 Record Sources found in this report. Each database searched has been assigned to one or more categories. For detailed information about categorization, see the section of the report Records Searched and Currency.		
Worksheet: Comments:					
Comments may be added on the online Vapor Encroachment Worksheet.					

DATABASE ACRONYM: Applicable categories (A hoverbox with database description).

11535 YORBA AV 11535 YORBA AV	E E, CHINO, CA, 91710		1015169401
	NE <1/10	(252 ft. / 0.048 mi.)	Historical Gas Stations
1	8 ft. Higher Elevation	855 ft. Above Sea Level	

Worksheet:

Impact on Target Property: VEC Can Be Ruled Out

Comments: Chemicals of concern are not likely to be present at this source.

Groundwater Flow Gradient:

Upgradient or Indeterminate: YES

Hydrogeologically: YES

To maintain currency of the following databases, EDR contacts the appropriate agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

PRP: Potentially Responsible Parties

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of verified Potentially Responsible Parties

Date of Government Version: 04/15/2013 Source: EPA

Number of Days to Update: 72 Telephone: 202-564-6023

Last EDR Contact :10/04/2013

RMP: Risk Management Plans

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/08/2012 Source: Environmental Protection Agency

Number of Days to Update: 46 Telephone: 202-564-8600

Last EDR Contact :10/28/2013

ALAMEDA CO. UST: Underground Tanks

Standard Environmental Record Source: State and tribal registered storage tank lists

Underground storage tank sites located in Alameda county.

Date of Government Version: 07/25/2013 Source: Alameda County Environmental Health Services

Number of Days to Update: 25 Telephone: 510-567-6700

Last EDR Contact :09/30/2013

AST: Aboveground Petroleum Storage Tank Facilities

Standard Environmental Record Source: State and tribal registered storage tank lists

Search Distance: Property

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 08/01/2009 Source: California Environmental Protection Agency

Number of Days to Update: 21 Telephone: 916-327-5092

Last EDR Contact :10/07/2013

Alameda County CS: Contaminated Sites

Standard Environmental Record Source: State and tribal leaking storage tank lists

Search Distance: 0.333 Mile

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 11/13/2013 Source: Alameda County Environmental Health Services

Number of Days to Update: 31 Telephone: 510-567-6700

Last EDR Contact :09/30/2013

CA BOND EXP. PLAN: Bond Expenditure Plan

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous

Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989 Source: Department of Health Services

Telephone: 916-255-2118 Number of Days to Update: 6

Last EDR Contact:05/31/1994

CA FID UST: Facility Inventory Database

Standard Environmental Record Source: State and tribal registered storage tank lists

Search Distance: Property

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994 Source: California Environmental Protection Agency

Number of Days to Update: 24 Telephone: 916-341-5851

Last EDR Contact :12/28/1998

CA LA LF: City of Los Angeles Landfills

Standard Environmental Record Source: State and tribal landfill / solid waste disposal

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/05/2009 Source: Engineering & Construction Division

Telephone: 213-473-7869 Number of Davs to Update: 29

Last EDR Contact:07/17/2013

CDL: Clandestine Drug Labs

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional

cleanup work.

Date of Government Version: 06/30/2013 Source: Department of Toxic Substances Control

Number of Days to Update: 37 Telephone: 916-255-6504

Last EDR Contact :09/03/2013

CHMIRS: California Hazardous Material Incident Report System

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material

incidents (accidental releases or spills).

Date of Government Version: 10/14/2013 Source: Office of Emergency Services

Number of Days to Update: 34 Telephone: 916-845-8400

Last EDR Contact :10/30/2013

CONTRA COSTA CO. SITE LIST: Site List

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.25 Mile

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 08/20/2013 Source: Contra Costa Health Services Department

Number of Days to Update: 46 Telephone: 925-646-2286

Last EDR Contact :11/04/2013

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS),

and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 09/30/2013 Source: CAL EPA/Office of Emergency Information

Number of Days to Update: 56 Telephone: 916-323-3400

Last EDR Contact :10/01/2013

CUPA AMADOR: CUPA Facility List

Standard Environmental Record Source: Other Standard Environmental Records

Cupa Facility List

Date of Government Version: 06/20/2013 Source: Amador County Environmental Health

Number of Days to Update: 61 Telephone: 209-223-6439

Last EDR Contact :12/09/2013

CUPA BUTTE: CUPA Facility Listing

Standard Environmental Record Source: Other Standard Environmental Records

Cupa facility list.

Date of Government Version: 08/01/2013 Source: Public Health Department Number of Days to Update: 20 Telephone: 530-538-7149

Last EDR Contact :10/09/2013

CUPA CALVERAS: CUPA Facility Listing

Standard Environmental Record Source: Other Standard Environmental Records

Cupa Facility Listing

Date of Government Version: 09/30/2013 Source: Calveras County Environmental Health

Number of Days to Update: 56 Telephone: 209-754-6399

Last EDR Contact :09/30/2013

CUPA COLUSA: CUPA Facility List

Standard Environmental Record Source: Other Standard Environmental Records

Cupa facility list.

Date of Government Version: 06/20/2013 Source: Health & Human Services

Number of Days to Update: 39 Telephone: 530-458-0396

Last EDR Contact :11/15/2013

CUPA DEL NORTE: CUPA Facility List

Standard Environmental Record Source: Other Standard Environmental Records

Cupa Facility list

Source: Del Norte County Environmental Health Division Date of Government Version: 01/09/2013

Number of Days to Update: 46 Telephone: 707-465-0426

Last EDR Contact :11/04/2013

CUPA EL DORADO: CUPA Facility List

Standard Environmental Record Source: Other Standard Environmental Records

CUPA facility list.

Date of Government Version: 08/20/2013 Source: El Dorado County Environmental Management Department

Number of Days to Update: 46 Telephone: 530-621-6623

Last EDR Contact :11/04/2013

CUPA FRESNO: CUPA Resources List

Standard Environmental Record Source: Other Standard Environmental Records

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 09/30/2013 Source: Dept. of Community Health

Number of Days to Update: 42 Telephone: 559-445-3271

Last EDR Contact :10/09/2013

CUPA HUMBOLDT: CUPA Facility List

Standard Environmental Record Source: Other Standard Environmental Records

CUPA facility list.

Date of Government Version: 08/09/2013 Source: Humboldt County Environmental Health

Number of Days to Update: 13 Telephone: Not Reported

Last EDR Contact :11/20/2013

CUPA IMPERIAL: CUPA Facility List

Standard Environmental Record Source: Other Standard Environmental Records

Cupa facility list.

Date of Government Version: 11/06/2013 Source: San Diego Border Field Office

Number of Days to Update: 28 Telephone: 760-339-2777

Last EDR Contact :10/28/2013

CUPA INYO: CUPA Facility List

Standard Environmental Record Source: Other Standard Environmental Records

Cupa facility list.

Date of Government Version: 09/10/2013 Source: Inyo County Environmental Health Services

Number of Days to Update: 33 Telephone: 760-878-0238

Last EDR Contact :12/09/2013

CUPA KINGS: CUPA Facility List

Standard Environmental Record Source: Other Standard Environmental Records

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/22/2013 Source: Kings County Department of Public Health

Number of Days to Update: 42 Telephone: 559-584-1411

Last EDR Contact :12/09/2013

CUPA LAKE: CUPA Facility List

Standard Environmental Record Source: Other Standard Environmental Records

Cupa facility list

Date of Government Version: 01/23/2013 Source: Lake County Environmental Health

Number of Days to Update: 33 Telephone: 707-263-1164

Last EDR Contact :10/21/2013

CUPA MADERA: CUPA Facility List

Standard Environmental Record Source: Other Standard Environmental Records

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 09/20/2013 Source: Madera County Environmental Health

Number of Days to Update: 24 Telephone: 559-675-7823

Last EDR Contact :11/20/2013

CUPA MERCED: CUPA Facility List

Standard Environmental Record Source: Other Standard Environmental Records

CUPA facility list.

Date of Government Version: 08/23/2013 Source: Merced County Environmental Health

Number of Days to Update: 42 Telephone: 209-381-1094

Last EDR Contact :11/20/2013

CUPA MONO: CUPA Facility List

Standard Environmental Record Source: Other Standard Environmental Records

CUPA Facility List

Date of Government Version: 09/04/2013 Source: Mono County Health Department

Number of Days to Update: 39 Telephone: 760-932-5580

Last EDR Contact :12/02/2013

CUPA MONTEREY: CUPA Facility Listing

Standard Environmental Record Source: Other Standard Environmental Records

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 09/11/2013 Source: Monterey County Health Department

Number of Days to Update: 32 Telephone: 831-796-1297

Last EDR Contact :11/20/2013

CUPA NEVADA: CUPA Facility List

Standard Environmental Record Source: Other Standard Environmental Records

CUPA facility list.

Date of Government Version: 11/06/2013 Source: Community Development Agency

Number of Days to Update: 27 Telephone: 530-265-1467

Last EDR Contact :11/04/2013

CUPA SAN LUIS OBISPO: CUPA Facility List

Standard Environmental Record Source: Other Standard Environmental Records

Cupa Facility List.

Date of Government Version: 08/26/2013 Source: San Luis Obispo County Public Health Department

Number of Days to Update: 44 Telephone: 805-781-5596

Last EDR Contact :11/20/2013

CUPA SANTA BARBARA: CUPA Facility Listing

Standard Environmental Record Source: Other Standard Environmental Records

CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011 Source: Santa Barbara County Public Health Department

Number of Days to Update: 28 Telephone: 805-686-8167

Last EDR Contact :11/21/2013

CUPA SANTA CLARA: Cupa Facility List

Standard Environmental Record Source: Other Standard Environmental Records

Cupa facility list

Date of Government Version: 09/03/2013 Source: Department of Environmental Health

Number of Days to Update: 36 Telephone: 408-918-1973

Last EDR Contact :12/02/2013

CUPA SANTA CRUZ: CUPA Facility List

Standard Environmental Record Source: Other Standard Environmental Records

CUPA facility listing.

Date of Government Version: 08/22/2013 Source: Santa Cruz County Environmental Health

Number of Days to Update: 44 Telephone: 831-464-2761

Last EDR Contact :12/09/2013

CUPA SHASTA: CUPA Facility List

Standard Environmental Record Source: Other Standard Environmental Records

Cupa Facility List.

Date of Government Version: 09/09/2013 Source: Shasta County Department of Resource Management

Number of Days to Update: 34 Telephone: 530-225-5789

Last EDR Contact :11/21/2013

CUPA SONOMA: Cupa Facility List

Standard Environmental Record Source: Other Standard Environmental Records

Cupa Facility list

Date of Government Version: 09/30/2013 Source: County of Sonoma Fire & Emergency Services Department

Number of Days to Update: 56 Telephone: 707-565-1174

Last EDR Contact :09/30/2013

CUPA TUOLUMNE: CUPA Facility List

Standard Environmental Record Source: Other Standard Environmental Records

Cupa facility list

Date of Government Version: 11/04/2013 Source: Divison of Environmental Health

Number of Days to Update: 28 Telephone: 209-533-5633

Last EDR Contact :10/28/2013

CUPA YUBA: CUPA Facility List

Standard Environmental Record Source: Other Standard Environmental Records

CUPA facility listing for Yuba County.

Date of Government Version: 08/01/2013 Source: Yuba County Environmental Health Department

Number of Days to Update: 17 Telephone: 530-749-7523

Last EDR Contact :12/06/2013

DEED: Deed Restriction Listing

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 11/13/2013 Source: DTSC and SWRCB Number of Days to Update: 22 Telephone: 916-323-3400

Last EDR Contact :12/10/2013

DRYCLEANERS: Cleaner Facilities

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.25 Mile

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 09/10/2013 Source: Department of Toxic Substance Control

Number of Days to Update: 35 Telephone: 916-327-4498

Last EDR Contact :12/09/2013

EL SEGUNDO UST: City of El Segundo Underground Storage Tank

Standard Environmental Record Source: State and tribal registered storage tank lists

Underground storage tank sites located in El Segundo city.

Date of Government Version: 10/21/2013 Source: City of El Segundo Fire Department

Number of Days to Update: 33 Telephone: 310-524-2236

Last EDR Contact :10/21/2013

EMI: Emissions Inventory Data

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2010 Source: California Air Resources Board

Number of Days to Update: 58 Telephone: 916-322-2990

Last EDR Contact:09/27/2013

ENF: Enforcement Action Listing

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation,

Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 08/09/2013 Source: State Water Resoruces Control Board

Number of Days to Update: 56 Telephone: 916-445-9379

Last EDR Contact :11/08/2013

ENVIROSTOR: EnviroStor Database

Standard Environmental Record Source: State and tribal - equivalent CERCLIS

Search Distance: 0.333 Mile

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 11/06/2013 Source: Department of Toxic Substances Control

Number of Days to Update: 27 Telephone: 916-323-3400

Last EDR Contact :11/06/2013

HAULERS: Registered Waste Tire Haulers Listing

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of registered waste tire haulers.

Date of Government Version: 10/23/2013 Source: Integrated Waste Management Board

Number of Days to Update: 37 Telephone: 916-341-6422

Last EDR Contact :11/18/2013

HAZNET: Facility and Manifest Data

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2012 Source: California Environmental Protection Agency

Number of Days to Update: 41 Telephone: 916-255-1136

Last EDR Contact :10/15/2013

HIST CAL-SITES: Calsites Database

Standard Environmental Record Source: State and tribal - equivalent CERCLIS

Search Distance: 0.333 Mile

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005 Source: Department of Toxic Substance Control

Number of Days to Update: 21 Telephone: 916-323-3400

Last EDR Contact :02/23/2009

HIST CORTESE: Hazardous Waste & Substance Site List

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001 Source: Department of Toxic Substances Control

Number of Days to Update: 76 Telephone: 916-323-3400

Last EDR Contact :01/22/2009

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report

Standard Environmental Record Source: State and tribal leaking storage tank lists

Search Distance: 0.333 Mile

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005 Source: Santa Clara Valley Water District

Number of Days to Update: 22 Telephone: 408-265-2600

Last EDR Contact :03/23/2009

HIST UST: Hazardous Substance Storage Container Database

Standard Environmental Record Source: State and tribal registered storage tank lists

Search Distance: Property

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for

current data

Date of Government Version: 10/15/1990 Source: State Water Resources Control Board

Number of Days to Update: 18 Telephone: 916-341-5851

Last EDR Contact :07/26/2001

HWP: EnviroStor Permitted Facilities Listing

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/28/2013 Source: Department of Toxic Substances Control

Number of Days to Update: 44 Telephone: 916-323-3400

Last EDR Contact :11/26/2013

HWT: Registered Hazardous Waste Transporter Database

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 10/15/2013 Source: Department of Toxic Substances Control

Number of Days to Update: 43 Telephone: 916-440-7145

Last EDR Contact :10/15/2013

KERN CO. UST: Underground Storage Tank Sites & Tank Listing

Standard Environmental Record Source: State and tribal registered storage tank lists

Kern County Sites and Tanks Listing.

Date of Government Version: 08/31/2010 Source: Kern County Environment Health Services Department

Number of Days to Update: 29 Telephone: 661-862-8700

Last EDR Contact :11/08/2013

LA Co. Site Mitigation: Site Mitigation List

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/30/2013 Source: Community Health Services

Number of Days to Update: 32 Telephone: 323-890-7806

Last EDR Contact: 10/21/2013

LDS: Land Disposal Sites Listing

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management

units.

Date of Government Version: 10/16/2013 Source: State Water Quality Control Board

Number of Days to Update: 41 Telephone: 866-480-1028

Last EDR Contact :12/17/2013

LIENS: Environmental Liens Listing

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 10/08/2013 Source: Department of Toxic Substances Control

Number of Days to Update: 43 Telephone: 916-323-3400

Last EDR Contact :12/09/2013

LONG BEACH UST: City of Long Beach Underground Storage Tank

Standard Environmental Record Source: State and tribal registered storage tank lists

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/28/2003 Source: City of Long Beach Fire Department

Number of Days to Update: 34 Telephone: 562-570-2563

Last EDR Contact :10/28/2013

LOS ANGELES CO. HMS: HMS: Street Number List

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 03/28/2013 Source: Department of Public Works

Number of Days to Update: 65 Telephone: 626-458-3517

Last EDR Contact :10/09/2013

LOS ANGELES CO. LF: List of Solid Waste Facilities

Standard Environmental Record Source: State and tribal landfill / solid waste disposal

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/21/2013 Source: La County Department of Public Works

Number of Days to Update: 36 Telephone: 818-458-5185

Last EDR Contact :10/22/2013

LUST: Geotracker's Leaking Underground Fuel Tank Report

Standard Environmental Record Source: State and tribal leaking storage tank lists

Search Distance: 0.333 Mile

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 10/16/2013 Source: State Water Resources Control Board

Number of Days to Update: 41 Telephone: see region list

Last EDR Contact :12/17/2013

LUST REG 1: Active Toxic Site Investigation

Standard Environmental Record Source: State and tribal leaking storage tank lists

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer

to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001 Source: California Regional Water Quality Control Board North

Coast (1)

Number of Days to Update: 29 Telephone: 707-570-3769

Last EDR Contact :08/01/2011

LUST REG 2: Fuel Leak List

Standard Environmental Record Source: State and tribal leaking storage tank lists

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara,

Solano. Sonoma counties.

Date of Government Version: 09/30/2004 Source: California Regional Water Quality Control Board San

Francisco Bay Region (2)

Number of Days to Update: 30 Telephone: 510-622-2433

Last EDR Contact :09/19/2011

LUST REG 3: Leaking Underground Storage Tank Database

Standard Environmental Record Source: State and tribal leaking storage tank lists

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003 Source: California Regional Water Quality Control Board Central

Coast Region (3)

Number of Days to Update: 14 Telephone: 805-542-4786

Last EDR Contact :07/18/2011

LUST REG 4: Underground Storage Tank Leak List

Standard Environmental Record Source: State and tribal leaking storage tank lists

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST

database.

Date of Government Version: 09/07/2004 Source: California Regional Water Quality Control Board Los

Angeles Region (4)

Number of Days to Update: 35 Telephone: 213-576-6710

Last EDR Contact: 09/06/2011

LUST REG 5: Leaking Underground Storage Tank Database

Standard Environmental Record Source: State and tribal leaking storage tank lists

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008 Source: California Regional Water Quality Control Board Central

Valley Region (5)

Number of Days to Update: 9 Telephone: 916-464-4834

Last EDR Contact:07/01/2011

LUST REG 6L: Leaking Underground Storage Tank Case Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

For more current information, please refer to the State Water Resources Control Board's LUST database.

Source: California Regional Water Quality Control Board Lahontan Date of Government Version: 09/09/2003

Region (6)

Number of Days to Update: 27 Telephone: 530-542-5572

Last EDR Contact :09/12/2011

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005 Source: California Regional Water Quality Control Board Victorville

Branch Office (6)

Number of Days to Update: 22 Telephone: 760-241-7365

Last EDR Contact :09/12/2011

LUST REG 7: Leaking Underground Storage Tank Case Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004 Source: California Regional Water Quality Control Board Colorado

River Basin Region (7) Telephone: 760-776-8943

Number of Days to Update: 27 Last EDR Contact :08/01/2011

LUST REG 8: Leaking Underground Storage Tanks

Standard Environmental Record Source: State and tribal leaking storage tank lists

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005 Source: California Regional Water Quality Control Board Santa Ana

Region (8)

Number of Days to Update: 41 Telephone: 909-782-4496

Last EDR Contact :08/15/2011

LUST REG 9: Leaking Underground Storage Tank Report

Standard Environmental Record Source: State and tribal leaking storage tank lists

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control

Board's LUST database.

Date of Government Version: 03/01/2001 Source: California Regional Water Quality Control Board San Diego

Region (9)

Number of Days to Update: 28 Telephone: 858-637-5595

Last EDR Contact :09/26/2011

LUST SANTA CLARA: LOP Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 09/03/2013 Source: Department of Environmental Health

Number of Days to Update: 38 Telephone: 408-918-3417

Last EDR Contact :12/02/2013

MARIN CO. UST: Underground Storage Tank Sites

Standard Environmental Record Source: State and tribal registered storage tank lists

Currently permitted USTs in Marin County.

Date of Government Version: 10/07/2013 Source: Public Works Department Waste Management

Number of Days to Update: 48 Telephone: 415-499-6647

Last EDR Contact :10/07/2013

MCS: Military Cleanup Sites Listing

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 10/16/2013 Source: State Water Resources Control Board

Number of Days to Update: 41 Telephone: 866-480-1028

Last EDR Contact :12/17/2013

MED WASTE VENTURA: Medical Waste Program List

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste

throughout the County.

Date of Government Version: 10/02/2013 Source: Ventura County Resource Management Agency

Number of Days to Update: 28 Telephone: 805-654-2813

Last EDR Contact :10/28/2013

MWMP: Medical Waste Management Program Listing

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 08/29/2013 Source: Department of Public Health

Number of Days to Update: 31 Telephone: 916-558-1784

Last EDR Contact :12/09/2013

NAPA CO. LUST: Sites With Reported Contamination

Standard Environmental Record Source: State and tribal leaking storage tank lists A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011 Source: Napa County Department of Environmental Management

Number of Days to Update: 63 Telephone: 707-253-4269

Last EDR Contact :12/02/2013

NAPA CO. UST: Closed and Operating Underground Storage Tank Sites

Standard Environmental Record Source: State and tribal registered storage tank lists

Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008 Source: Napa County Department of Environmental Management

Number of Days to Update: 23 Telephone: 707-253-4269

Last EDR Contact :12/02/2013

NOTIFY 65: Proposition 65 Records

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 10/21/1993 Source: State Water Resources Control Board

Number of Days to Update: 18 Telephone: 916-445-3846

Last EDR Contact :12/17/2013

NPDES: NPDES Permits Listing

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of NPDES permits, including stormwater.

Date of Government Version: 08/19/2013 Source: State Water Resources Control Board

Number of Days to Update: 50 Telephone: 916-445-9379

Last EDR Contact :11/21/2013

ORANGE CO. LUST: List of Underground Storage Tank Cleanups

Standard Environmental Record Source: State and tribal leaking storage tank lists

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 11/04/2013 Source: Health Care Agency Telephone: 714-834-3446 Number of Days to Update: 21

Last EDR Contact: 11/08/2013

ORANGE CO. UST: List of Underground Storage Tank Facilities

Standard Environmental Record Source: State and tribal registered storage tank lists

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 11/04/2013 Source: Health Care Agency Number of Days to Update: 21 Telephone: 714-834-3446

Last EDR Contact :11/08/2013

Orange Co. Industrial Site: List of Industrial Site Cleanups

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Petroleum and non-petroleum spills.

Date of Government Version: 11/04/2013 Source: Health Care Agency
Number of Days to Update: 21 Telephone: 714-834-3446

Last EDR Contact :11/08/2013

PLACER CO. MS: Master List of Facilities

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.25 Mile

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 08/22/2013 Source: Placer County Health and Human Services

Number of Days to Update: 49 Telephone: 530-745-2363

Last EDR Contact :12/09/2013

PROC: Certified Processors Database

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

A listing of certified processors.

Date of Government Version: 09/16/2013 Source: Department of Conservation

Number of Days to Update: 28 Telephone: 916-323-3836

Last EDR Contact :12/17/2013

RESPONSE: State Response Sites

Standard Environmental Record Source: State and tribal - equivalent NPL

Search Distance: 0.333 Mile

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 11/06/2013 Source: Department of Toxic Substances Control

Number of Days to Update: 27 Telephone: 916-323-3400

Last EDR Contact :11/06/2013

RIVERSIDE CO. LUST: Listing of Underground Tank Cleanup Sites

Standard Environmental Record Source: State and tribal leaking storage tank lists

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 10/10/2013 Source: Department of Environmental Health

Number of Days to Update: 36 Telephone: 951-358-5055

Last EDR Contact :09/23/2013

RIVERSIDE CO. UST: Underground Storage Tank Tank List

Standard Environmental Record Source: State and tribal registered storage tank lists

Underground storage tank sites located in Riverside county.

Date of Government Version: 10/10/2013 Source: Department of Environmental Health

Number of Days to Update: 36 Telephone: 951-358-5055

Last EDR Contact :09/23/2013

SAN DIEGO CO. HMMD: Hazardous Materials Management Division Database

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/23/2013 Source: Hazardous Materials Management Division

Number of Days to Update: 23 Telephone: 619-338-2268

Last EDR Contact :12/09/2013

SAN DIEGO CO. LF: Solid Waste Facilities

Standard Environmental Record Source: State and tribal landfill / solid waste disposal

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2012 Source: Department of Health Services

Number of Days to Update: 24 Telephone: 619-338-2209

Last EDR Contact :11/18/2013

SAN DIEGO CO. SAM: Environmental Case Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

Search Distance: 0.333 Mile

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010 Source: San Diego County Department of Environmental Health

Number of Days to Update: 24 Telephone: 619-338-2371

Last EDR Contact :12/09/2013

SAN FRANCISCO CO. LUST: Local Oversite Facilities

Standard Environmental Record Source: State and tribal leaking storage tank lists A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008 Source: Department Of Public Health San Francisco County

Number of Days to Update: 10 Telephone: 415-252-3920

Last EDR Contact :11/08/2013

SAN FRANCISCO CO. UST: Underground Storage Tank Information

Standard Environmental Record Source: State and tribal registered storage tank lists

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010 Source: Department of Public Health

Number of Days to Update: 5 Telephone: 415-252-3920

Last EDR Contact :11/08/2013

SAN JOSE HAZMAT: Hazardous Material Facilities

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 08/14/2013 Source: City of San Jose Fire Department

Number of Days to Update: 53 Telephone: 408-535-7694

Last EDR Contact :11/08/2013

SAN MATEO CO. LUST: Fuel Leak List

Standard Environmental Record Source: State and tribal leaking storage tank lists A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 09/16/2013 Source: San Mateo County Environmental Health Services Division

Number of Days to Update: 29 Telephone: 650-363-1921

Last EDR Contact :12/12/2013

SCH: School Property Evaluation Program

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 11/06/2013 Source: Department of Toxic Substances Control

Number of Days to Update: 27 Telephone: 916-323-3400

Last EDR Contact :11/06/2013

SLIC: Statewide SLIC Cases

Standard Environmental Record Source: State and tribal leaking storage tank lists

Search Distance: 0.333 Mile

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks,

and similar discharges.

Date of Government Version: 10/16/2013 Source: State Water Resources Control Board

Number of Days to Update: 41 Telephone: 866-480-1028

Last EDR Contact :12/17/2013

SLIC REG 1: Active Toxic Site Investigations

Standard Environmental Record Source: State and tribal leaking storage tank lists

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks,

and similar discharges.

Date of Government Version: 04/03/2003 Source: California Regional Water Quality Control Board, North

Coast Region (1)

Number of Days to Update: 18 Telephone: 707-576-2220

Last EDR Contact :08/01/2011

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004 Source: Regional Water Quality Control Board San Francisco Bay

Region (2)

Number of Days to Update: 30 Telephone: 510-286-0457

Last EDR Contact :09/19/2011

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks,

and similar discharges.

Date of Government Version: 05/18/2006 Source: California Regional Water Quality Control Board Central

Coast Region (3)

Number of Days to Update: 28 Telephone: 805-549-3147

Last EDR Contact :07/18/2011

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks,

and similar discharges.

Date of Government Version: 11/17/2004 Source: Region Water Quality Control Board Los Angeles Region

(4)

Number of Days to Update: 47 Telephone: 213-576-6600

Last EDR Contact :07/01/2011

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks,

and similar discharges.

Date of Government Version: 04/01/2005 Source: Regional Water Quality Control Board Central Valley

Region (5)

Number of Days to Update: 16 Telephone: 916-464-3291

Last EDR Contact :09/12/2011

SLIC REG 6L: SLIC Sites

Standard Environmental Record Source: State and tribal leaking storage tank lists

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks,

and similar discharges.

Date of Government Version: 09/07/2004 Source: California Regional Water Quality Control Board, Lahontan

Region

Number of Days to Update: 35 Telephone: 530-542-5574

Last EDR Contact :08/15/2011

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks,

and similar discharges.

Date of Government Version: 05/24/2005 Source: Regional Water Quality Control Board, Victorville Branch

Number of Days to Update: 22 Telephone: 619-241-6583

Last EDR Contact :08/15/2011

SLIC REG 7: SLIC List

Standard Environmental Record Source: State and tribal leaking storage tank lists

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks,

and similar discharges.

Date of Government Version: 11/24/2004 Source: California Regional Quality Control Board, Colorado River

Basin Region

Number of Days to Update: 36 Telephone: 760-346-7491

Last EDR Contact :08/01/2011

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks,

and similar discharges.

Date of Government Version: 04/03/2008 Source: California Region Water Quality Control Board Santa Ana

Region (8)

Number of Days to Update: 11 Telephone: 951-782-3298

Last EDR Contact:09/12/2011

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks,

and similar discharges.

Date of Government Version: 09/10/2007 Source: California Regional Water Quality Control Board San Diego

Region (9)

Number of Days to Update: 17 Telephone: 858-467-2980

Last EDR Contact :08/08/2011

SOLANO CO. LUST: Leaking Underground Storage Tanks

Standard Environmental Record Source: State and tribal leaking storage tank lists A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 09/18/2013 Source: Solano County Department of Environmental Management

Number of Days to Update: 27 Telephone: 707-784-6770

Last EDR Contact :12/12/2013

SOLANO CO. UST: Underground Storage Tanks

Standard Environmental Record Source: State and tribal registered storage tank lists

Underground storage tank sites located in Solano county.

Date of Government Version: 09/18/2013 Source: Solano County Department of Environmental Management

Number of Days to Update: 24 Telephone: 707-784-6770

Last EDR Contact :12/12/2013

SONOMA CO. LUST: Leaking Underground Storage Tank Sites

Standard Environmental Record Source: State and tribal leaking storage tank lists

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 10/01/2013 Source: Department of Health Services

Number of Days to Update: 55 Telephone: 707-565-6565

Last EDR Contact :09/30/2013

SUTTER CO. UST: Underground Storage Tanks

Standard Environmental Record Source: State and tribal registered storage tank lists

Underground storage tank sites located in Sutter county.

Date of Government Version: 09/10/2013 Source: Sutter County Department of Agriculture

Number of Days to Update: 33 Telephone: 530-822-7500

Last EDR Contact :12/09/2013

SWEEPS UST: SWEEPS UST Listing

Standard Environmental Record Source: State and tribal registered storage tank lists

Search Distance: Property

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency

is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994 Source: State Water Resources Control Board

Number of Days to Update: 35 Telephone: Not Reported

Last EDR Contact :06/03/2005

SWF/LF (SWIS): Solid Waste Information System

Standard Environmental Record Source: State and tribal landfill / solid waste disposal

Search Distance: 0.333 Mile

Active, Closed and Inactive Landfills.SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste

landfills or disposal sites.

Date of Government Version: 08/19/2013 Source: Department of Resources Recycling and Recovery

Number of Days to Update: 50 Telephone: 916-341-6320

Last EDR Contact :11/21/2013

SWRCY: Recycler Database

Standard Environmental Record Source: State and tribal landfill / solid waste disposal

Search Distance: 0.333 Mile

A listing of recycling facilities in California.

Date of Government Version: 09/16/2013 Source: Department of Conservation

Number of Days to Update: 28 Telephone: 916-323-3836

Last EDR Contact :12/17/2013

Sacramento Co. CS: Toxic Site Clean-Up List

Standard Environmental Record Source: State and tribal leaking storage tank lists

Search Distance: 0.333 Mile

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 08/05/2013 Source: Sacramento County Environmental Management

Number of Days to Update: 47 Telephone: 916-875-8406

Last EDR Contact :10/07/2013

Sacramento Co. ML: Master Hazardous Materials Facility List

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.25 Mile

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/05/2013 Source: Sacramento County Environmental Management

Number of Days to Update: 47 Telephone: 916-875-8406

Last EDR Contact :10/07/2013

San Bern. Co. Permit: Hazardous Material Permits

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.25 Mile

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous

waste generators, and waste oil generators/handlers.

Date of Government Version: 09/03/2013 Source: San Bernardino County Fire Department Hazardous

Materials Division

Number of Days to Update: 37 Telephone: 909-387-3041

Last EDR Contact :11/08/2013

San Mateo Co. BI: Business Inventory

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.25 Mile

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 10/01/2013 Source: San Mateo County Environmental Health Services Division

Number of Days to Update: 49 Telephone: 650-363-1921

Last EDR Contact :12/16/2013

TORRANCE UST: City of Torrance Underground Storage Tank

Standard Environmental Record Source: State and tribal registered storage tank lists

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 07/15/2013 Source: City of Torrance Fire Department

Number of Days to Update: 33 Telephone: 310-618-2973

Last EDR Contact :10/09/2013

TOXIC PITS: Toxic Pits Cleanup Act Sites

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has

not yet been completed.

Date of Government Version: 07/01/1995 Source: State Water Resources Control Board

Number of Days to Update: 27 Telephone: 916-227-4364

Last EDR Contact :01/26/2009

UIC: UIC Listing

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 08/21/2013 Source: Deaprtment of Conservation

Number of Days to Update: 30 Telephone: 916-445-2408

Last EDR Contact :12/17/2013

UST: Active UST Facilities

Standard Environmental Record Source: State and tribal registered storage tank lists

Search Distance: Property

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 10/16/2013 Source: SWRCB

Number of Days to Update: 41 Telephone: 916-341-5851

Last EDR Contact :12/17/2013

UST MENDOCINO: Mendocino County UST Database

Standard Environmental Record Source: State and tribal registered storage tank lists

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/23/2009 Source: Department of Public Health

Number of Days to Update: 8 Telephone: 707-463-4466

Last EDR Contact :12/02/2013

UST SAN JOAQUIN: San Joaquin Co. UST

Standard Environmental Record Source: State and tribal registered storage tank lists

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 09/25/2013 Source: Environmental Health Department

Number of Days to Update: 21 Telephone: Not Reported

Last EDR Contact :12/17/2013

VCP: Voluntary Cleanup Program Properties

Standard Environmental Record Source: State and tribal voluntary cleanup sites

Search Distance: 0.333 Mile

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 11/06/2013 Source: Department of Toxic Substances Control

Number of Days to Update: 27 Telephone: 916-323-3400

Last EDR Contact :11/06/2013

VENTURA CO. BWT: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W),

and/or Underground Tank (T) information.

Date of Government Version: 08/19/2013 Source: Ventura County Environmental Health Division

Number of Days to Update: 44 Telephone: 805-654-2813

Last EDR Contact :11/19/2013

VENTURA CO. LF: Inventory of Illegal Abandoned and Inactive Sites

Standard Environmental Record Source: State and tribal landfill / solid waste disposal

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011 Source: Environmental Health Division

Number of Days to Update: 49 Telephone: 805-654-2813

Last EDR Contact :10/07/2013

VENTURA CO. LUST: Listing of Underground Tank Cleanup Sites

Standard Environmental Record Source: State and tribal leaking storage tank lists

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008 Source: Environmental Health Division

Number of Days to Update: 37 Telephone: 805-654-2813

Last EDR Contact :11/19/2013

VENTURA CO. UST: Underground Tank Closed Sites List

Standard Environmental Record Source: State and tribal registered storage tank lists

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 08/29/2013 Source: Environmental Health Division

Number of Days to Update: 28 Telephone: 805-654-2813

Last EDR Contact :12/16/2013

WDS: Waste Discharge System

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007 Source: State Water Resources Control Board

Number of Days to Update: 9 Telephone: 916-341-5227

Last EDR Contact :11/21/2013

WIP: Well Investigation Program Case List

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.25 Mile

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009 Source: Los Angeles Water Quality Control Board

Number of Days to Update: 13 Telephone: 213-576-6726

Last EDR Contact :09/30/2013

WMUDS/SWAT: Waste Management Unit Database

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000 Source: State Water Resources Control Board

Number of Days to Update: 30 Telephone: 916-227-4448

Last EDR Contact :11/08/2013

YOLO CO. UST: Underground Storage Tank Comprehensive Facility Report

Standard Environmental Record Source: State and tribal registered storage tank lists

Underground storage tank sites located in Yolo county.

Date of Government Version: 09/24/2013 Source: Yolo County Department of Health

Number of Days to Update: 56 Telephone: 530-666-8646

Last EDR Contact :12/17/2013

2020 COR ACTION: 2020 Corrective Action Program List

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.25 Mile

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011 Source: Environmental Protection Agency

Number of Days to Update: 7 Telephone: 703-308-4044

Last EDR Contact :11/15/2013

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

Standard Environmental Record Source: Federal CERCLIS

Search Distance: 0.333 Mile

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/26/2013 Source: EPA

Number of Days to Update: 72 Telephone: 703-412-9810

Last EDR Contact :11/11/2013

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 04/26/2013 Source: EPA

Number of Days to Update: 72 Telephone: 703-412-9810

Last EDR Contact :11/11/2013

COAL ASH DOE: Sleam-Electric Plan Operation Data

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005 Source: Department of Energy Number of Days to Update: 76 Telephone: 202-586-8719

Last EDR Contact :12/10/2013

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010 Source: Environmental Protection Agency

Number of Days to Update: 77 Telephone: Not Reported

Last EDR Contact :12/13/2013

CONSENT: Superfund (CERCLA) Consent Decrees
Standard Environmental Record Source: Federal NPL

Search Distance: 0.333 Mile

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically

by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2013 Source: Department of Justice, Consent Decree Library

Number of Days to Update: 57 Telephone: Varies

Last EDR Contact :09/30/2013

CORRACTS: Corrective Action Report

Standard Environmental Record Source: Federal RCRA CORRACTS facilities list

Search Distance: 0.333 Mile

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/10/2013 Source: EPA

Number of Days to Update: 75 Telephone: 800-424-9346

Last EDR Contact :10/02/2013

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

Standard Environmental Record Source: State and tribal landfill / solid waste disposal

Search Distance: 0.333 Mile

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and

northern Imperial County, California.

Date of Government Version: 01/12/2009 Source: EPA, Region 9

Number of Days to Update: 137 Telephone: 415-947-4219

Last EDR Contact :10/28/2013

DELISTED NPL: National Priority List Deletions

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further

response is appropriate.

Date of Government Version: 04/26/2013 Source: EPA

Number of Days to Update: 62 Telephone: Not Reported

Last EDR Contact :11/11/2013

DOT OPS: Incident and Accident Data

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012 Source: Department of Transporation, Office of Pipeline Safety

Number of Days to Update: 42 Telephone: 202-366-4595

Last EDR Contact :11/06/2013

EPA WATCH LIST: EPA WATCH LIST

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 06/30/2013 Source: Environmental Protection Agency

Number of Days to Update: 31 Telephone: 617-520-3000

Last EDR Contact :11/15/2013

ERNS: Emergency Response Notification System

Standard Environmental Record Source: Federal ERNS list

Search Distance: Property

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous

substances.

Date of Government Version: 09/30/2013 Source: National Response Center, United States Coast Guard

Number of Days to Update: 66 Telephone: 202-267-2180

Last EDR Contact :10/01/2013

FEMA UST: Underground Storage Tank Listing

Standard Environmental Record Source: State and tribal registered storage tank lists

Search Distance: Property

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010 Source: FEMA

Number of Days to Update: 55 Telephone: 202-646-5797

Last EDR Contact :10/17/2013

FINDS: Facility Index System/Facility Registry System

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 03/08/2013 Source: EPA

Number of Days to Update: 111 Telephone: Not Reported

Last EDR Contact :12/10/2013

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009 Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Number of Days to Update: 25 Telephone: 202-566-1667

Last EDR Contact :11/21/2013

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances

Control Act)

Standard Environmental Record Source: Other Standard Environmental Records A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009 Source: EPA

Number of Days to Update: 25 Telephone: 202-566-1667

Last EDR Contact :11/21/2014

FUDS: Formerly Used Defense Sites

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2011 Source: U.S. Army Corps of Engineers

Number of Days to Update: 15 Telephone: 202-528-4285

Last EDR Contact :12/13/2013

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Source: Environmental Protection Agency

Number of Days to Update: 40 Telephone: 202-564-2501

Last EDR Contact :12/17/2007

HMIRS: Hazardous Materials Information Reporting System

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/30/2013 Source: U.S. Department of Transportation

Number of Days to Update: 76 Telephone: 202-366-4555

Last EDR Contact :10/01/2013

ICIS: Integrated Compliance Information System

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011 Source: Environmental Protection Agency

Number of Days to Update: 61 Telephone: 202-564-5088

Last EDR Contact :10/09/2014

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists

Search Distance: 0.333 Mile

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/01/2013 Source: EPA Region 1

Number of Days to Update: 184 Telephone: 617-918-1313

Last EDR Contact :11/01/2013

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/06/2013 Source: EPA Region 10

Number of Days to Update: 29 Telephone: 206-553-2857

Last EDR Contact :10/28/2013

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 08/01/2013 Source: EPA Region 4

Number of Days to Update: 91 Telephone: 404-562-8677

Last EDR Contact :10/28/2013

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 08/20/2013 Source: EPA, Region 5

Number of Days to Update: 70 Telephone: 312-886-7439

Last EDR Contact :10/28/2013

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011 Source: EPA Region 6
Number of Days to Update: 59 Telephone: 214-665-6597

Last EDR Contact :10/28/2013

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 08/27/2013 Source: EPA Region 7

Number of Days to Update: 66 Telephone: 913-551-7003

Last EDR Contact :10/28/2013

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/27/2012 Source: EPA Region 8

Number of Days to Update: 49 Telephone: 303-312-6271

Last EDR Contact :10/28/2013

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 03/01/2013 Source: Environmental Protection Agency

Number of Days to Update: 42 Telephone: 415-972-3372

Last EDR Contact :10/28/2013

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998 Source: Environmental Protection Agency

Number of Days to Update: 52 Telephone: 703-308-8245

Last EDR Contact :11/04/2013

INDIAN UST R1: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

Search Distance: Property

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 09/28/2012 Source: EPA, Region 1
Number of Days to Update: 156 Telephone: 617-918-1313

Last EDR Contact :11/01/2014

INDIAN UST R10: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 02/05/2013 Source: EPA Region 10

Number of Days to Update: 65 Telephone: 206-553-2857

Last EDR Contact :10/28/2013

INDIAN UST R4: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 08/01/2013 Source: EPA Region 4

Number of Days to Update: 91 Telephone: 404-562-9424

Last EDR Contact :10/28/2013

INDIAN UST R5: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 08/20/2013 Source: EPA Region 5 Number of Days to Update: 70 Telephone: 312-886-6136

Last EDR Contact :10/28/2013

INDIAN UST R6: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011 Source: EPA Region 6 Telephone: 214-665-7591 Number of Days to Update: 34

Last EDR Contact :10/28/2013

INDIAN UST R7: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land

in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 12/31/2012 Source: EPA Region 7 Number of Days to Update: 43 Telephone: 913-551-7003

Last EDR Contact :10/28/2013

INDIAN UST R8: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 07/29/2013 Source: EPA Region 8 Number of Days to Update: 92 Telephone: 303-312-6137

Last EDR Contact :10/28/2013

INDIAN UST R9: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land

in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 07/29/2013 Source: EPA Region 9 Number of Days to Update: 129 Telephone: 415-972-3368

Last EDR Contact :10/28/2013

INDIAN VCP R1: Voluntary Cleanup Priority Listing

Standard Environmental Record Source: State and tribal voluntary cleanup sites

Search Distance: 0.333 Mile

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/17/2013 Source: EPA, Region 1 Number of Days to Update: 66 Telephone: 617-918-1102

Last EDR Contact :10/01/2013

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

Standard Environmental Record Source: State and tribal voluntary cleanup sites
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008 Source: EPA, Region 7
Number of Days to Update: 27 Telephone: 913-551-7365

Last EDR Contact :04/20/2009

LEAD SMELTER 1: Lead Smelter Sites

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of former lead smelter site locations.

Date of Government Version: 01/29/2013 Source: Environmental Protection Agency

Number of Days to Update: 13 Telephone: 703-603-8787

Last EDR Contact :09/24/2013

LEAD SMELTER 2: Lead Smelter Sites

Standard Environmental Record Source: Other Standard Environmental Records

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose

a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001 Source: American Journal of Public Health

Number of Days to Update: 36 Telephone: 703-305-6451

Last EDR Contact :12/02/2009

LIENS 2: CERCLA Lien Information

Standard Environmental Record Source: Federal CERCLIS

Search Distance: Property

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/06/2013 Source: Environmental Protection Agency

Number of Days to Update: 15 Telephone: 202-564-6023

Last EDR Contact :11/13/2013

LUCIS: Land Use Control Information System

Standard Environmental Record Source: Federal institutional controls / engineering controls registries

Search Distance: 0.333 Mile

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure

properties.

Date of Government Version: 08/20/2013 Source: Department of the Navy Number of Days to Update: 70 Telephone: 843-820-7326

Last EDR Contact :11/18/2013

MLTS: Material Licensing Tracking System

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/22/2013 Source: Nuclear Regulatory Commission

Number of Days to Update: 91 Telephone: 301-415-7169

Last EDR Contact :12/09/2013

NPL: National Priority List

Standard Environmental Record Source: Federal NPL

Search Distance: 0.333 Mile

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/26/2013 Source: EPA

Number of Days to Update: 62 Telephone: Not Reported

Last EDR Contact :11/11/2013

NPL Site Boundaries

Sources:

EPA"s Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-566-0690

EPA Region 1

Telephone: 617-918-1102

EPA Region 2

Telephone: 212-637-4293

EPA Region 3

Telephone: 215-814-5418

EPA Region 4

Telephone: 404-562-8681

EPA Region 5

Telephone: 312-353-1063

EPA Region 6

Telephone: 214-655-6659

EPA Region 7

Telephone: 913-551-7247

EPA Region 8

Telephone: 303-312-6118

EPA Region 9

Telephone: 415-947-4579

EPA Region 10

Telephone: 206-553-4479

NPL LIENS: Federal Superfund Liens

Standard Environmental Record Source: Federal NPL

Search Distance: Property

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991 Source: EPA

Number of Days to Update: 56 Telephone: 202-564-4267

Last EDR Contact :08/15/2011

ODI: Open Dump Inventory

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D

Criteria

Date of Government Version: 06/30/1985 Source: Environmental Protection Agency

Number of Days to Update: 39 Telephone: 800-424-9346

Last EDR Contact :06/09/2004

PADS: PCB Activity Database System

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's

who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2013 Source: EPA

Number of Days to Update: 107 Telephone: 202-566-0500

Last EDR Contact :10/18/2013

PCB TRANSFORMER: PCB Transformer Registration Database

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011 Source: Environmental Protection Agency

Number of Days to Update: 83 Telephone: 202-566-0517

Last EDR Contact :11/01/2013

Proposed NPL: Proposed National Priority List Sites Standard Environmental Record Source: Federal NPL

Search Distance: 0.333 Mile

A site that has been proposed for listing on the NationalPriorities List through the issuance of a proposed rule in the Federal Register.EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that

continue to meet therequirements for listing.

Date of Government Version: 04/26/2013 Source: EPA

Number of Days to Update: 62 Telephone: Not Reported

Last EDR Contact :11/11/2013

RAATS: RCRA Administrative Action Tracking System

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Source: EPA

Number of Days to Update: 35 Telephone: 202-564-4104

Last EDR Contact :06/02/2008

RADINFO: Radiation Information Database

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental

Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 09/30/2013 Source: Environmental Protection Agency

Number of Days to Update: 23 Telephone: 202-343-9775

Last EDR Contact :10/09/2013

RCRA NonGen / NLR: RCRA - Non Generators

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardou's and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 09/10/2013 Source: Environmental Protection Agency

Number of Days to Update: 75 Telephone: 703-308-8895

Last EDR Contact :10/02/2013

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators Standard Environmental Record Source: Federal RCRA generators list

Search Distance: Property

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/10/2013 Source: Environmental Protection Agency

Number of Days to Update: 75 Telephone: 703-308-8895

Last EDR Contact :10/02/2013

RCRA-LQG: RCRA - Large Quantity Generators

Standard Environmental Record Source: Federal RCRA generators list

Search Distance: Property

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/10/2013 Source: Environmental Protection Agency

Number of Days to Update: 75 Telephone: 703-308-8895

Last EDR Contact :10/02/2013

RCRA-SQG: RCRA - Small Quantity Generators

Standard Environmental Record Source: Federal RCRA generators list

Search Distance: Property

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 09/10/2013 Source: Environmental Protection Agency

Number of Days to Update: 75 Telephone: 703-308-8895

Last EDR Contact :10/02/2013

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

Standard Environmental Record Source: Federal RCRA TSD facilities list

Search Distance: 0.333 Mile

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste

Date of Government Version: 09/10/2013 Source: Environmental Protection Agency

Number of Days to Update: 75 Telephone: 703-308-8895

Last EDR Contact :10/02/2013

ROD: Records Of Decision

Standard Environmental Record Source: Federal NPL

Search Distance: 0.333 Mile

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and

health information to aid in the cleanup.

Date of Government Version: 04/26/2013 Source: EPA

Number of Days to Update: 143 Telephone: 703-416-0223

Last EDR Contact :12/12/2013

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011 Source: Environmental Protection Agency

Number of Days to Update: 54 Telephone: 615-532-8599

Last EDR Contact :11/18/2013

SSTS: Section 7 Tracking Systems

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009 Source: EPA

Number of Days to Update: 77 Telephone: 202-564-4203

Last EDR Contact :10/28/2013

TRIS: Toxic Chemical Release Inventory System

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2011 Source: EPA

Number of Days to Update: 44 Telephone: 202-566-0250

Last EDR Contact :11/27/2013

TSCA: Toxic Substances Control Act

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA

Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006 Source: EPA

Number of Days to Update: 64 Telephone: 202-260-5521

Last EDR Contact :09/24/2013

UMTRA: Uranium Mill Tailings Sites

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010 Source: Department of Energy Number of Days to Update: 146 Telephone: 505-845-0011

Last EDR Contact :11/26/2013

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS) Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/23/2013 Source: EPA

Number of Days to Update: 30 Telephone: 202-564-5962

Last EDR Contact :09/30/2013

US AIRS MINOR: Air Facility System Data

Standard Environmental Record Source: Other Standard Environmental Records

A listing of minor source facilities.

Date of Government Version: 10/23/2013 Source: EPA

Number of Days to Update: 30 Telephone: 202-564-5962

Last EDR Contact :09/30/2013

US BROWNFIELDS: A Listing of Brownfields Sites

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 09/24/2013 Source: Environmental Protection Agency

Number of Days to Update: 73 Telephone: 202-566-2777

Last EDR Contact :09/24/2013

US CDL: Clandestine Drug Labs

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 08/06/2013 Source: Drug Enforcement Administration

Number of Days to Update: 22 Telephone: 202-307-1000

Last EDR Contact :12/05/2013

US ENG CONTROLS: Engineering Controls Sites List

Standard Environmental Record Source: Federal institutional controls / engineering controls registries

Search Distance: Property

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 06/17/2013 Source: Environmental Protection Agency

Number of Days to Update: 104 Telephone: 703-603-0695

Last EDR Contact :12/09/2013

US FIN ASSUR: Financial Assurance Information

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 10/28/2013 Source: Environmental Protection Agency

Number of Days to Update: 38 Telephone: 202-566-1917

Last EDR Contact :11/18/2013

US HIST CDL: National Clandestine Laboratory Register

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007 Source: Drug Enforcement Administration

Number of Days to Update: 131 Telephone: 202-307-1000

Last EDR Contact :03/23/2009

US INST CONTROL: Sites with Institutional Controls

Standard Environmental Record Source: Federal institutional controls / engineering controls registries

Search Distance: Property

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 06/17/2013 Source: Environmental Protection Agency

Number of Days to Update: 104 Telephone: 703-603-0695

Last EDR Contact :12/09/2013

US MINES: Mines Master Index File

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation

information.

Date of Government Version: 08/01/2013 Source: Department of Labor, Mine Safety and Health

Administration

Number of Days to Update: 28 Telephone: 303-231-5959

Last EDR Contact :12/06/2013

AOCONCERN: San Gabriel Valley Areas of Concern

Standard Environmental Record Source: State and tribal - equivalent CERCLIS

Search Distance: 0.333 Mile

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009 Source: EPA Region 9

Number of Days to Update: 206 Telephone: 415-972-3178

Last EDR Contact :12/17/2013

DOD: Department of Defense Sites

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005 Source: USGS

Number of Days to Update: 62 Telephone: 888-275-8747

Last EDR Contact :10/18/2013

INDIAN RESERV: Indian Reservations

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005 Source: USGS

Number of Days to Update: 34 Telephone: 202-208-3710

Last EDR Contact :10/18/2013

PWS: Public Water System Data

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

This Safe Drinking Water Information System (SDWIS) file contains public water systems name and address, population served and the primary source of water

Date of Government Version: 04/12/2007 Source: EPA

Number of Days to Update: N/A Telephone: Not Reported

Last EDR Contact :12/09/2013

HISTORICAL USE RECORDS

EDR MGP: EDR Proprietary Manufactured Gas Plants

Standard Environmental Record Source: Former manufactured Gas Plants

Search Distance: 0.333 Mile

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: 08/28/2009 Source: EDR, Inc.

Number of Days to Update: 55 Telephone: Not Reported

Last EDR Contact :11/30/2012

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations Standard Environmental Record Source: Historical Gas Stations

Search Distance: 0.25 Mile

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: 02/20/2007 Source: EDR, Inc.

Number of Days to Update: 42 Telephone: Not Reported

Last EDR Contact :02/21/2007

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners Standard Environmental Record Source: Historical Dry Cleaners

Search Distance: 0.25 Mile

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: 02/20/2007 Source: EDR, Inc.

Number of Days to Update: 42 Telephone: Not Reported

Last EDR Contact :02/21/2007

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5' minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW[®] Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services. The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

STREET AND ADDRESS INFORMATION

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APPENDIX F

Munzer Property

4568 and 4570 Francis Avenue Chino, CA 91710

Inquiry Number: 3813623.5

December 20, 2013

The EDR Aerial Photo Decade Package



EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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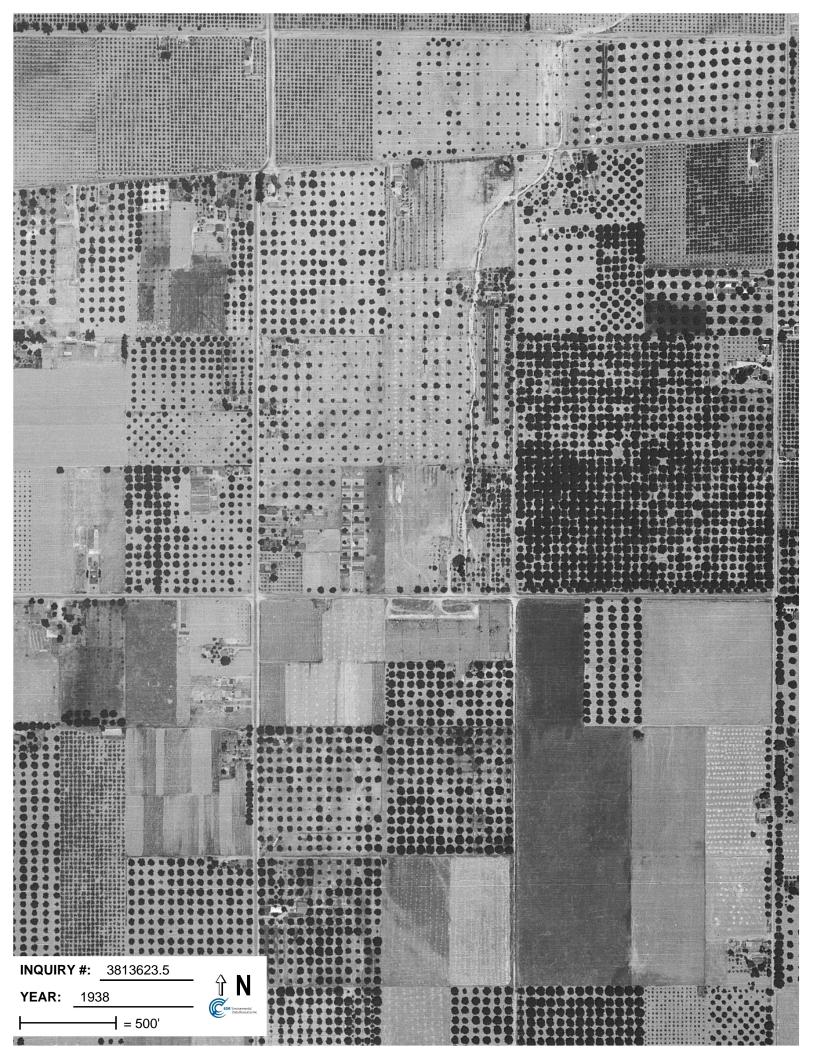
Date EDR Searched Historical Sources:

Aerial Photography December 20, 2013

Target Property:

4568 and 4570 Francis Avenue Chino, CA 91710

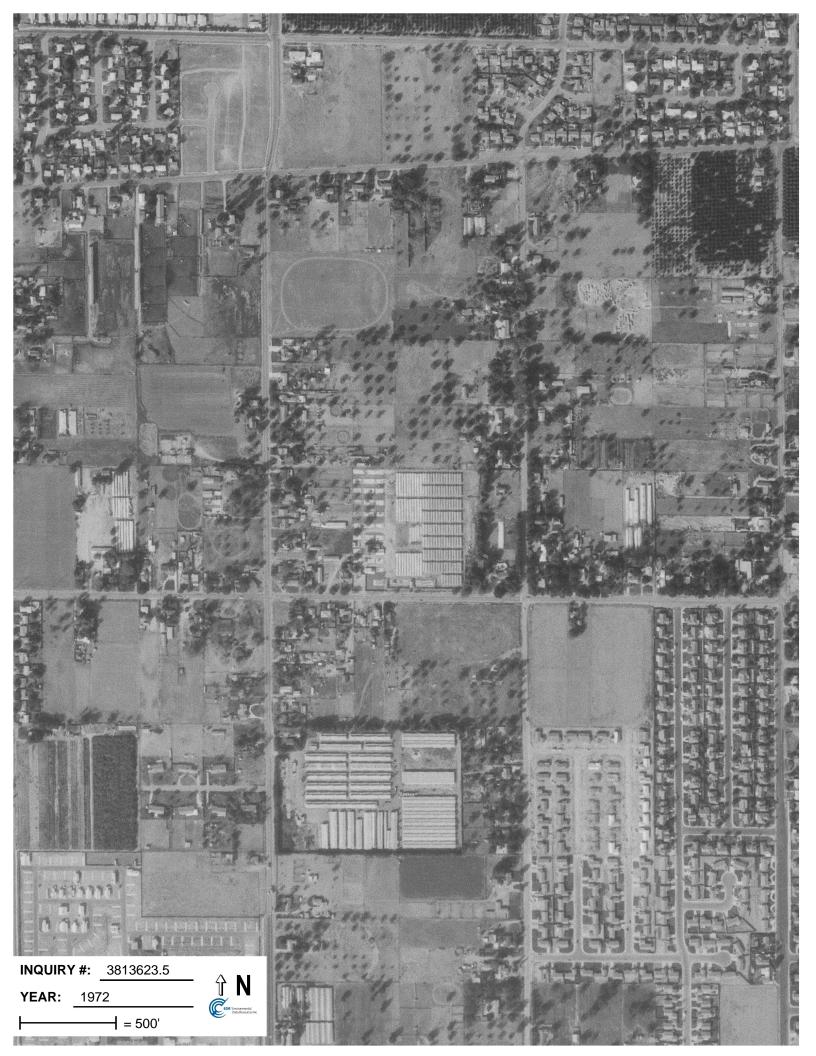
<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1938	Aerial Photograph. Scale: 1"=500'	Flight Year: 1938	EDR
1948	Aerial Photograph. Scale: 1"=500'	Flight Year: 1948	EDR
1953	Aerial Photograph. Scale: 1"=500'	Flight Year: 1953	Southwestern
1964	Aerial Photograph. Scale: 1"=500'	Flight Year: 1964	EDR
1972	Aerial Photograph. Scale: 1"=500'	Flight Year: 1972	EDR
1977	Aerial Photograph. Scale: 1"=500'	Flight Year: 1977	Teledyne
1989	Aerial Photograph. Scale: 1"=500'	Flight Year: 1989	USGS
1994	Aerial Photograph. Scale: 1"=500'	/DOQQ - acquisition dates: 1994	EDR
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	EDR
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	EDR
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	EDR
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	EDR

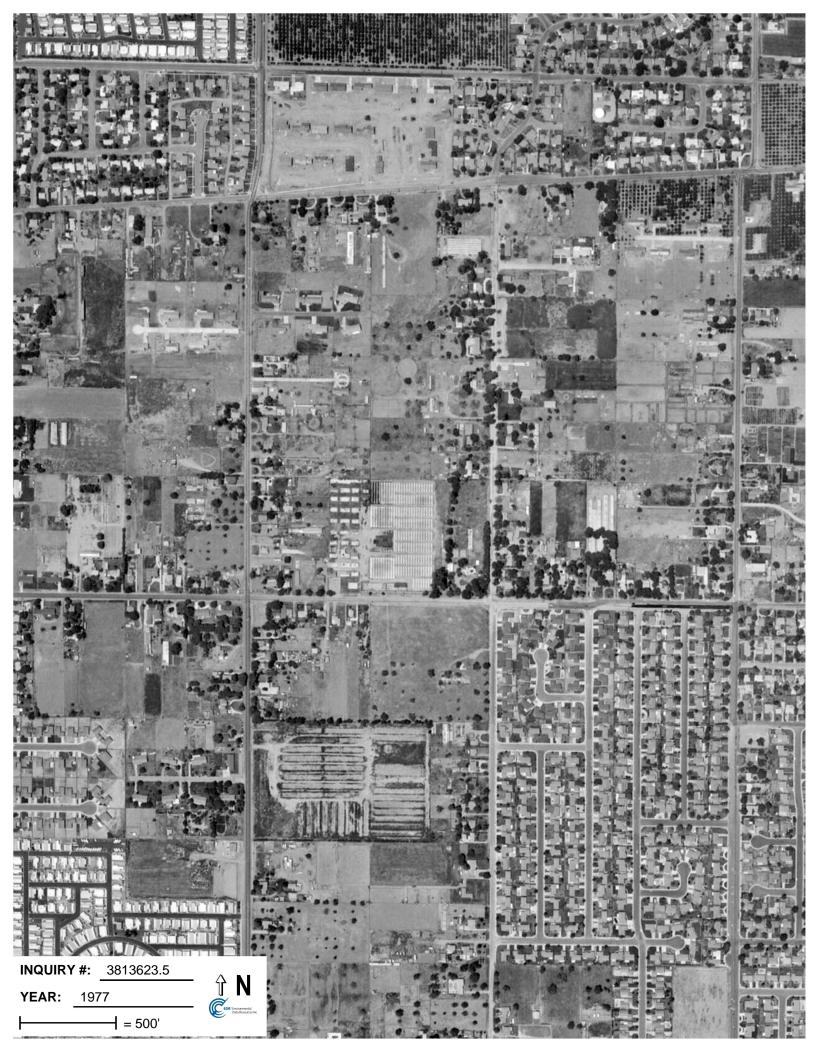


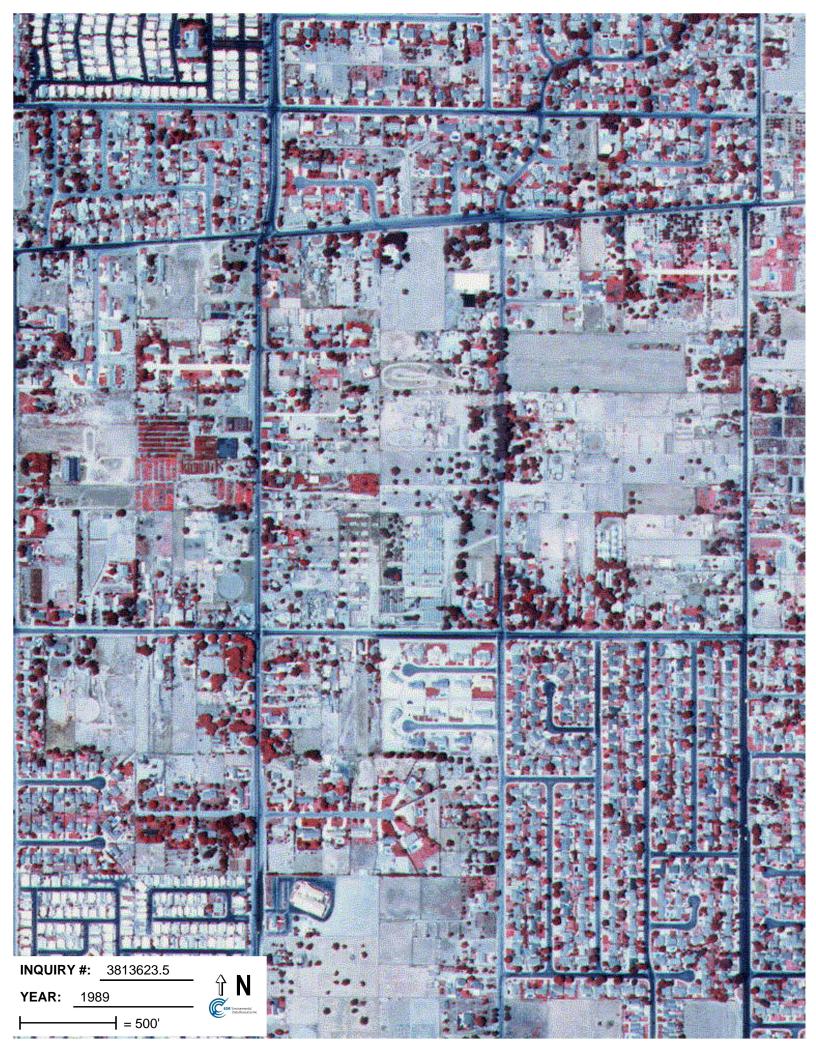


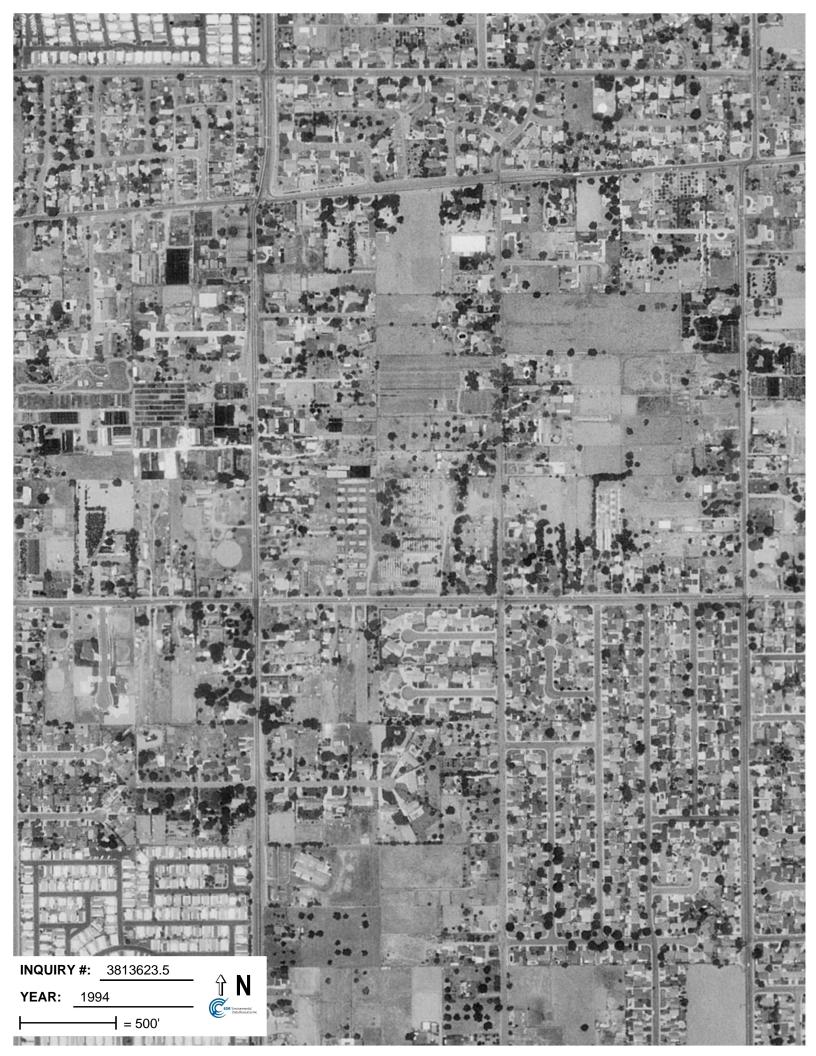




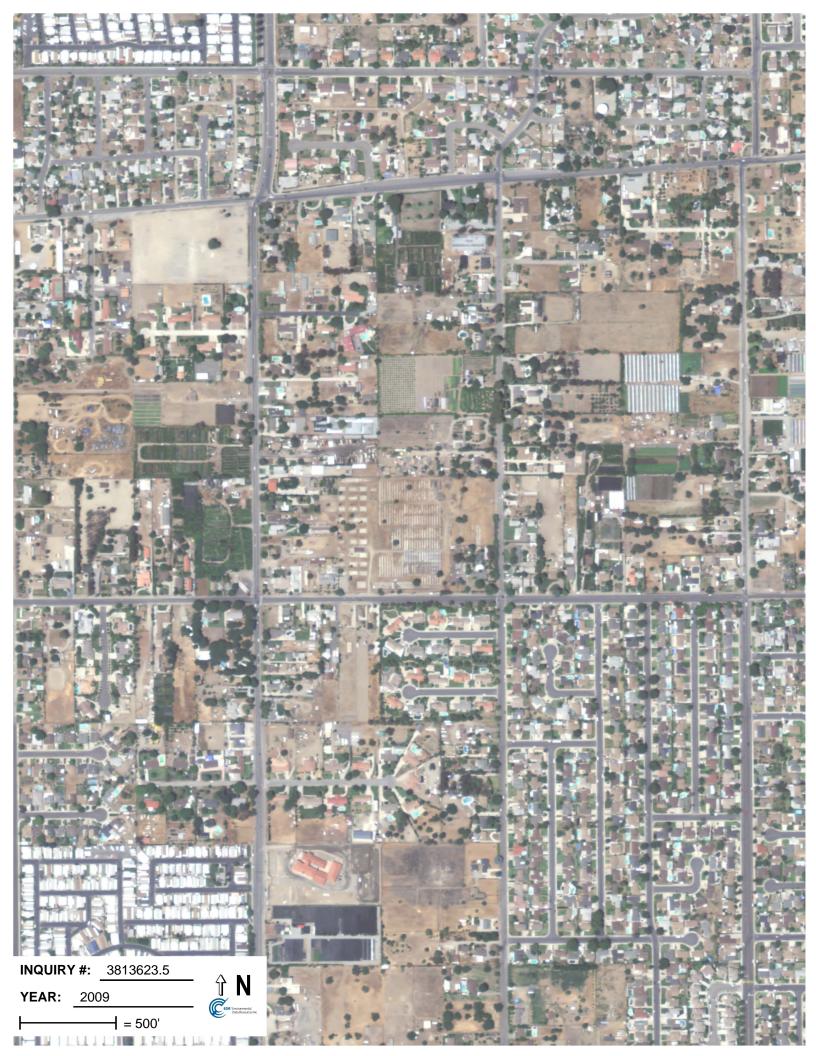




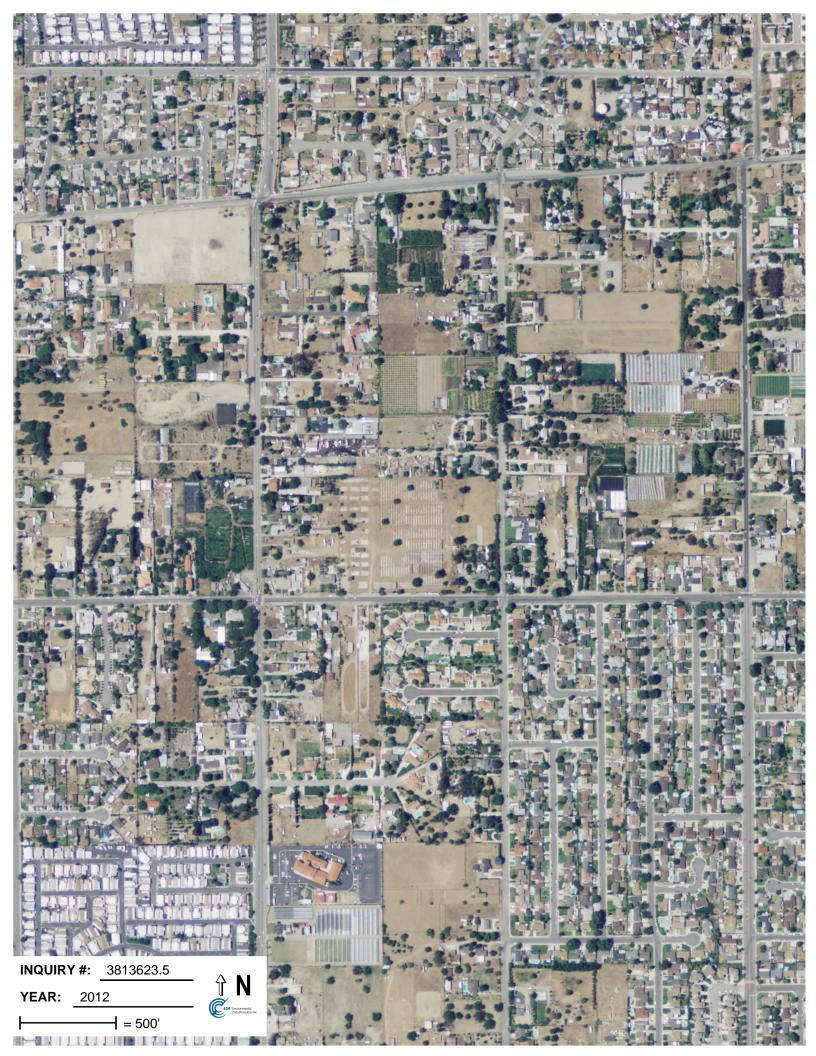












Munzer Property

4568 and 4570 Francis Avenue Chino, CA 91710

Inquiry Number: 3813623.4

December 18, 2013

EDR Historical Topographic Map Report



EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

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TARGET QUAD

NAME: SOUTHERN CA SHEET 1

MAP YEAR: 1901

SERIES: 60

SCALE: 1:250000

SITE NAME: Munzer Property

ADDRESS: 4568 and 4570 Francis Avenue

Chino, CA 91710

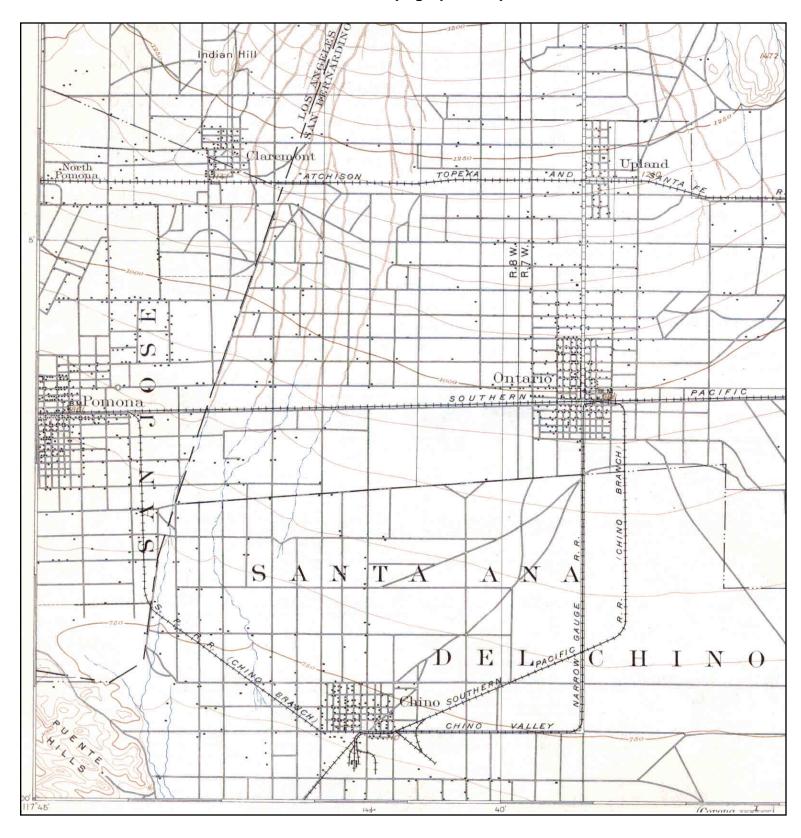
LAT/LONG: 34.0416 / -117.7044

CLIENT: Leighton and

Associates, Inc.

CONTACT: Brynn Mcculloch INQUIRY#: 3813623.4

RESEARCH DATE: 12/18/2013





TARGET QUAD

NAME: CUCAMONGA

MAP YEAR: 1903

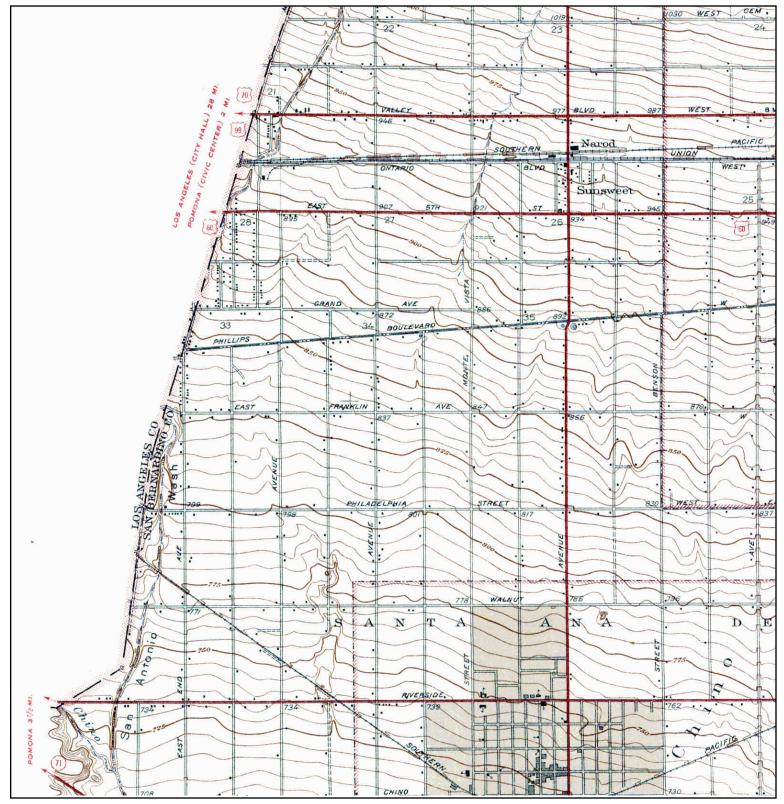
SERIES: 15 SCALE: 1:62500 SITE NAME: Munzer Property

ADDRESS: 4568 and 4570 Francis Avenue

Chino, CA 91710

LAT/LONG: 34.0416 / -117.7044

CLIENT: Leighton and Associates, Inc.



Unsurveyed Area on the Topographic Map

N NAME: ON

NAME: ONTARIO AND VICINITY

MAP YEAR: 1942

SERIES: 7.5 SCALE: 1:31680 SITE NAME: Munzer Property

ADDRESS: 4568 and 4570 Francis Avenue

Chino, CA 91710

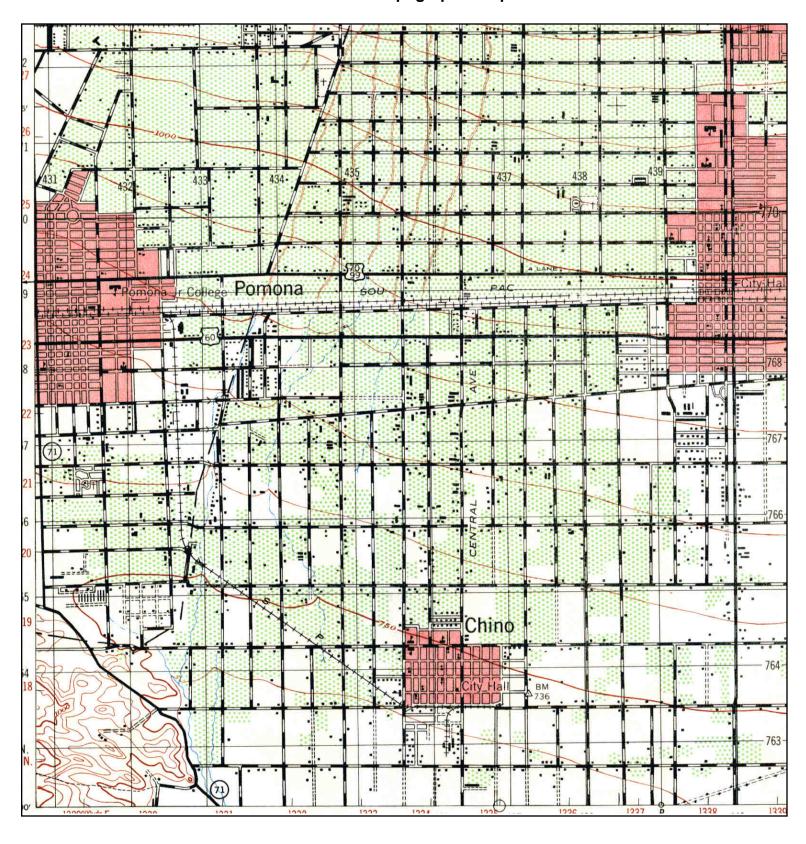
LAT/LONG: 34.0416 / -117.7044

CLIENT: Leighton and

Associates, Inc.

CONTACT: Brynn Mcculloch INQUIRY#: 3813623.4

RESEARCH DATE: 12/18/2013





TARGET QUAD

NAME: CUCAMONGA

MAP YEAR: 1944

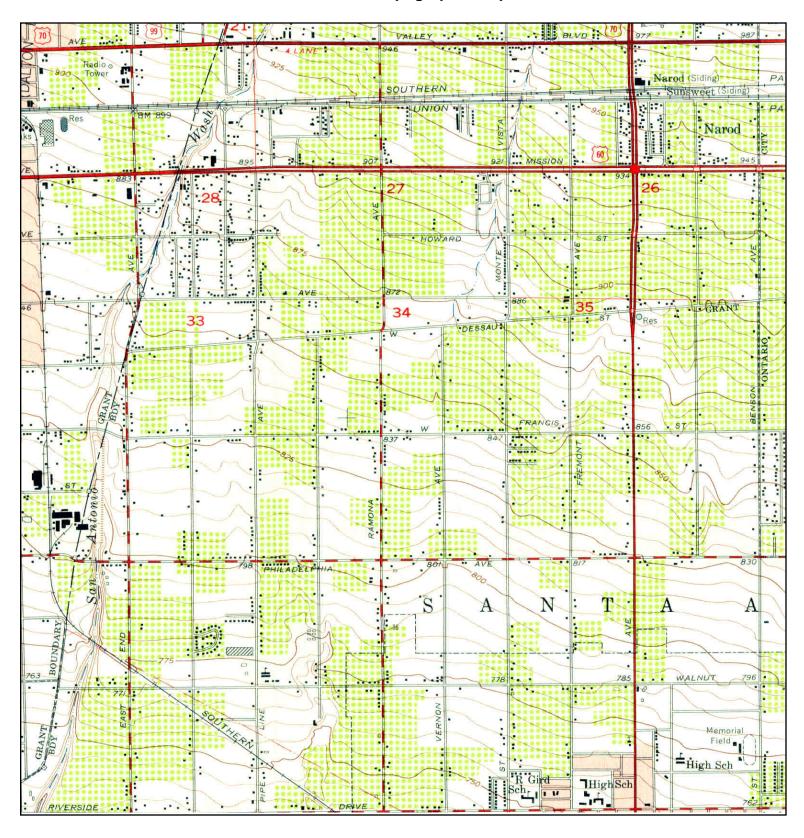
SERIES: 15 SCALE: 1:50000 SITE NAME: Munzer Property

ADDRESS: 4568 and 4570 Francis Avenue

Chino, CA 91710

LAT/LONG: 34.0416 / -117.7044

CLIENT: Leighton and Associates, Inc.





TARGET QUAD NAME: ONTARIO

MAP YEAR: 1954

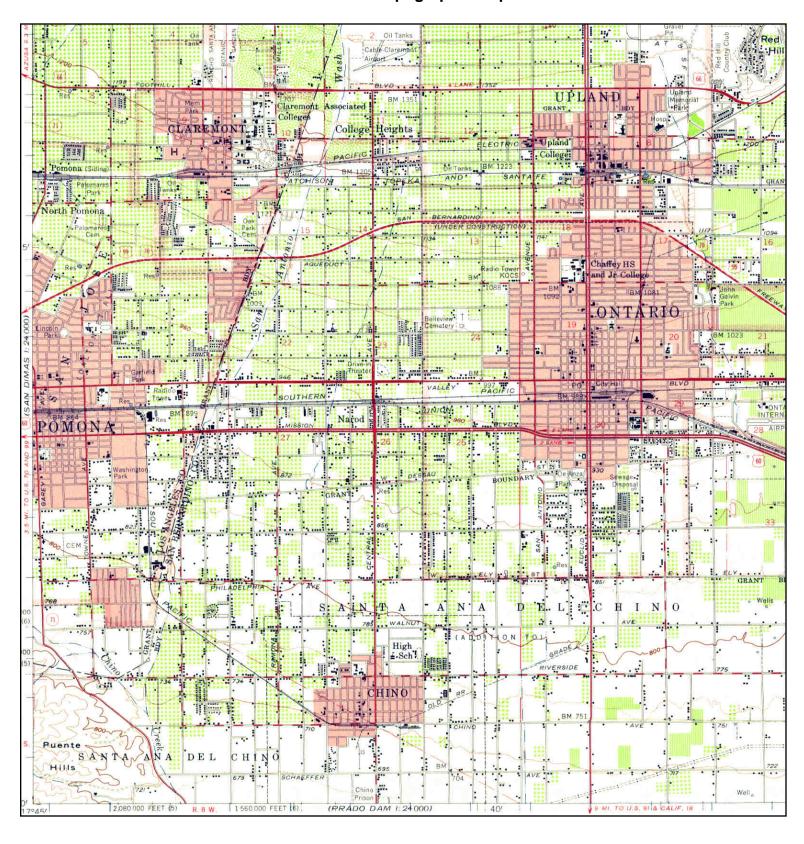
SERIES: 7.5 SCALE: 1:24000 SITE NAME: Munzer Property

ADDRESS: 4568 and 4570 Francis Avenue

Chino, CA 91710

LAT/LONG: 34.0416 / -117.7044

CLIENT: Leighton and Associates, Inc.





TARGET QUAD

NAME: ONTARIO

MAP YEAR: 1954

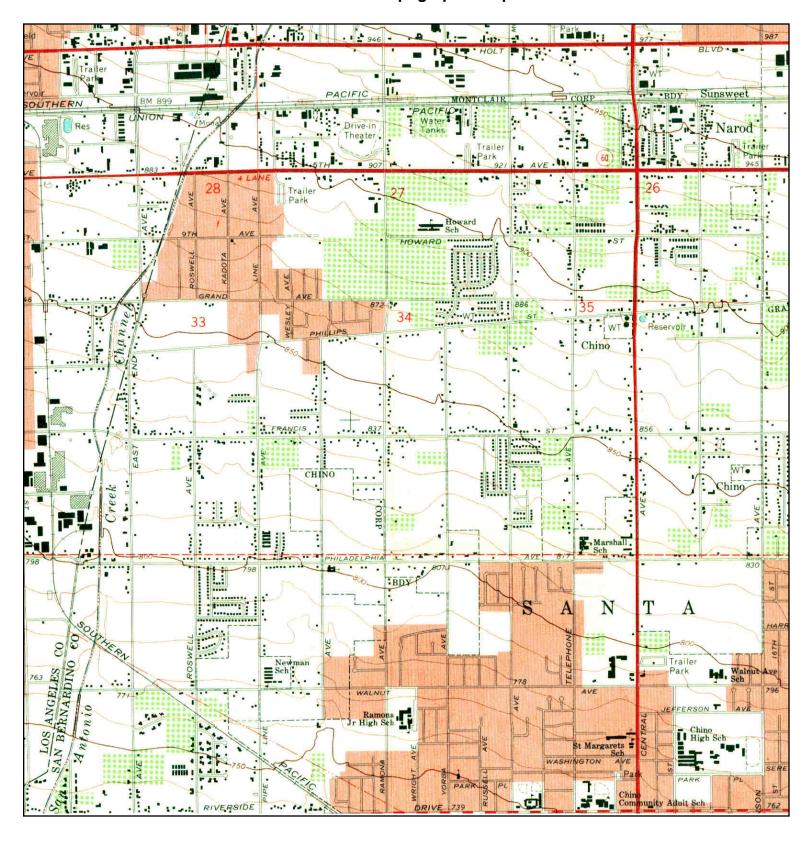
SERIES: 15 SCALE: 1:62500 SITE NAME: Munzer Property

ADDRESS: 4568 and 4570 Francis Avenue

Chino, CA 91710

LAT/LONG: 34.0416 / -117.7044

CLIENT: Leighton and Associates, Inc.





TARGET QUAD

NAME: ONTARIO

MAP YEAR: 1967

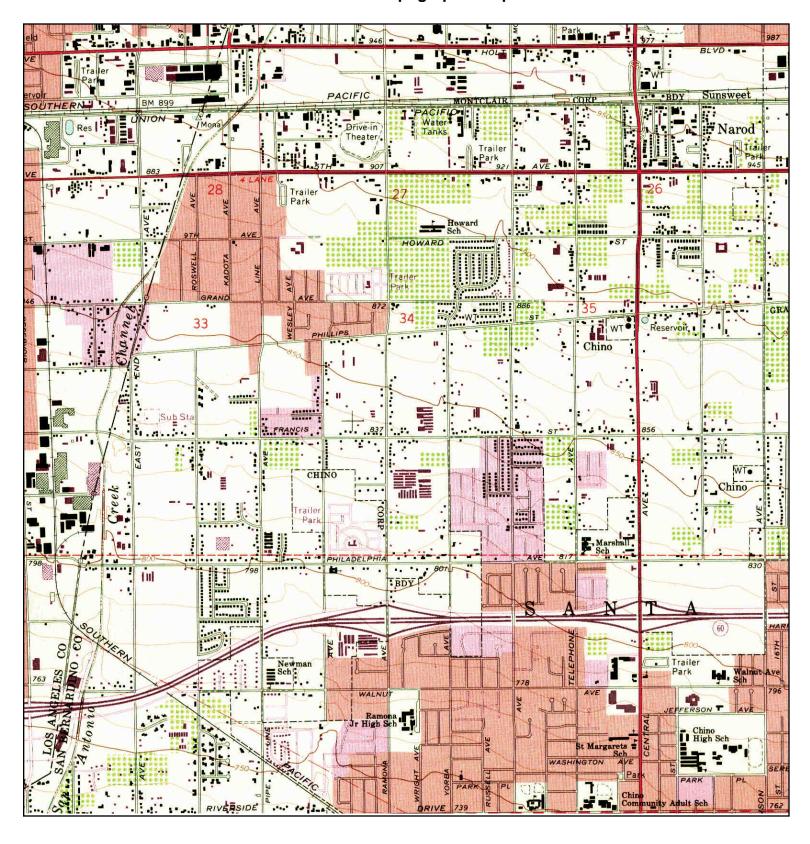
SERIES: 7.5 SCALE: 1:24000 SITE NAME: Munzer Property

ADDRESS: 4568 and 4570 Francis Avenue

Chino, CA 91710

LAT/LONG: 34.0416 / -117.7044

CLIENT: Leighton and Associates, Inc.



N | TARGET QUAD

NAME: ONTARIO MAP YEAR: 1973

PHOTOREVISED FROM:1967

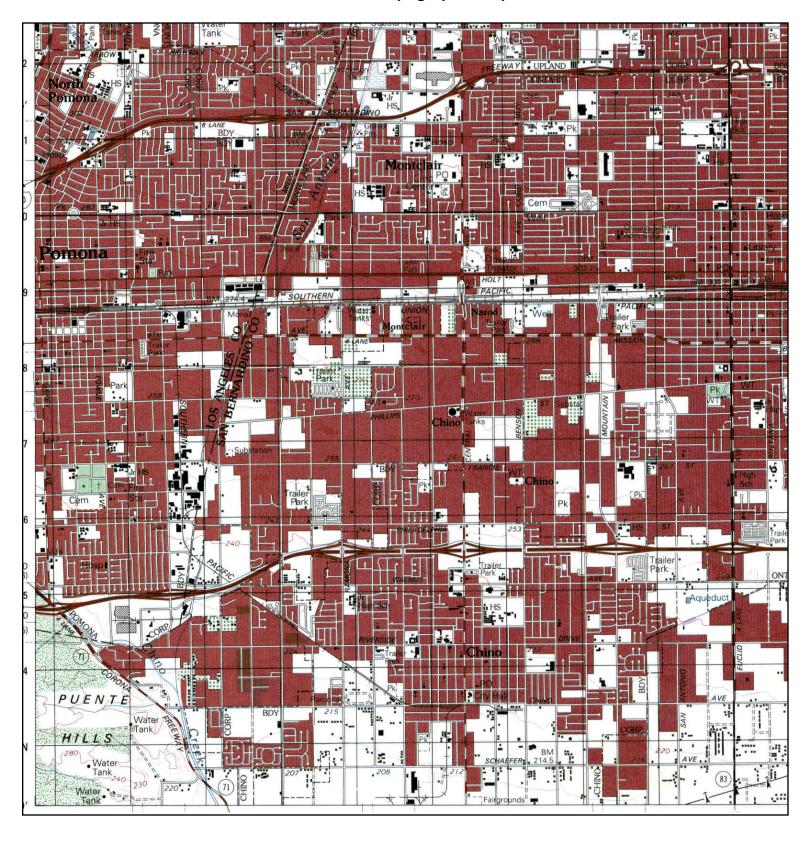
SERIES: 7.5 SCALE: 1:24000 SITE NAME: Munzer Property

ADDRESS: 4568 and 4570 Francis Avenue

Chino, CA 91710

LAT/LONG: 34.0416 / -117.7044

CLIENT: Leighton and Associates, Inc.





TARGET QUAD

NAME: ONTARIO MAP YEAR: 1976

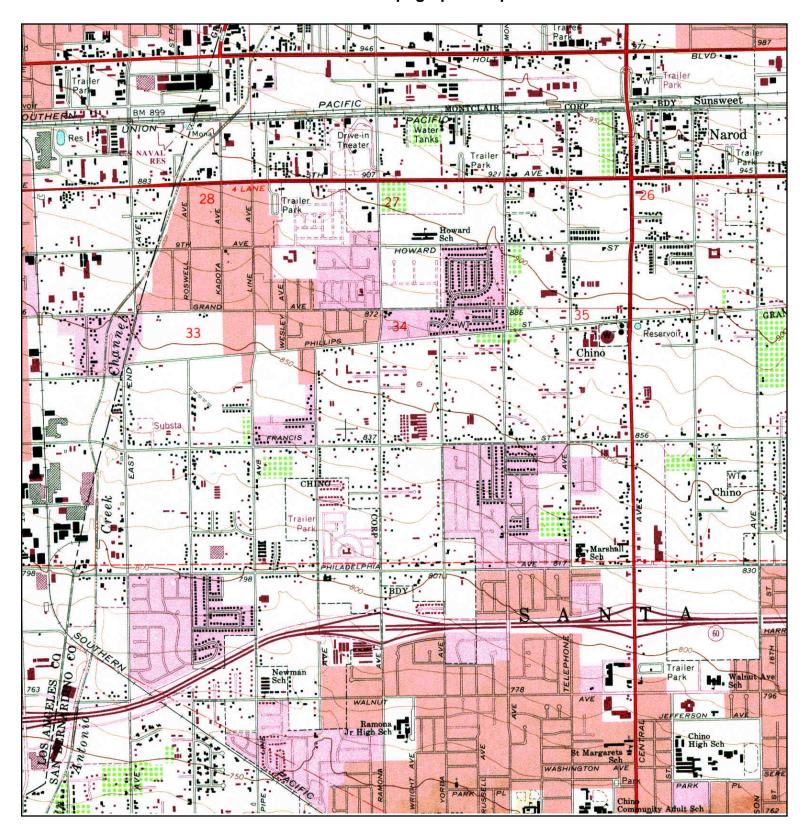
SERIES: 15 SCALE: 1:50000 SITE NAME: Munzer Property

ADDRESS: 4568 and 4570 Francis Avenue

Chino, CA 91710

LAT/LONG: 34.0416 / -117.7044

CLIENT: Leighton and Associates, Inc.





TARGET QUAD

NAME: ONTARIO MAP YEAR: 1981

PHOTOREVISED FROM: 1967

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Munzer Property

ADDRESS: 4568 and 4570 Francis Avenue

Chino, CA 91710

LAT/LONG: 34.0416 / -117.7044

CLIENT: Leighton and Associates, Inc.

Munzer Property

4568 and 4570 Francis Avenue Chino, CA 91710

Inquiry Number: 3813623.3

December 17, 2013

Certified Sanborn® Map Report



Certified Sanborn® Map Report

12/17/13

Site Name: Client Name:

Munzer Property Leighton and Associates, Inc. 4568 and 4570 Francis Avenue 17781 Cowan

Chino, CA 91710 Irvine, CA 92614

EDR Inquiry # 3813623.3 Contact: Brynn Mcculloch



The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Leighton and Associates, Inc. were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: Munzer Property

Address: 4568 and 4570 Francis Avenue

City, State, Zip: Chino, CA 91710

Cross Street:

P.O. # 10557.002 Project: Munzer Property Certification # 1A5F-4317-B0BC

UNMAPPED PROPERTY

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



Sanborn® Library search results Certification # 1A5F-4317-B0BC

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

Library of Congress

✓ University Publications of America

✓ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Munzer Property

4568 and 4570 Francis Avenue Chino, CA 91710

Inquiry Number: 3813623.6

December 18, 2013

The EDR-City Directory Abstract



TABLE OF CONTENTS

SECTION

Executive Summary

Findings

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DESCRIPTION

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

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1922 through 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

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

RESEARCH SUMMARY

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

<u>Year</u>	Source	<u>TP</u>	<u>Adjoining</u>	Text Abstract	Source Image
2013	Cole Information Services	-	Χ	X	-
2008	Cole Information Services	-	X	Χ	-
2003	Haines & Co Publishers	-	X	Χ	-
	Haines & Co Publishers	Χ	X	Χ	-
2002	SBC PACIFIC BELL	-	-	-	-
1996	GTE	-	X	Χ	-
	GTE	Χ	X	Χ	-
1995	GTE Directories	-	-	-	-
1991	GTE California Incorporated	-	-	-	-
1990	GTE	-	X	Χ	-
	GTE	Χ	X	Χ	-
	GTE California Incorporated	-	X	Χ	-
	GTE California Incorporated	Χ	X	Χ	-
1985	GTE	-	X	Χ	-
1981	General Telephone Company of California	-	-	-	-
1980	GTE	-	X	Χ	-
1975	GTE Directories	-	X	Χ	-
	GTE Directories	Χ	X	Χ	-
1970	General Telephone Company of California	-	Χ	X	-
1965	GTE	-	X	Χ	-
1964	Luskey Brothers & Co	-	-	-	-
1961	Luskey Brothers& Co Publishers	-	-	-	-
1960	General Telephone Company Publishers	-	-	-	-
1956	General Telephone Company Publishers	-	-	-	-
1955	Luskey Brothers& Co Publishers	-	-	-	-

<u>Year</u>	Source	<u>TP</u>	<u>Adjoining</u>	Text Abstract	Source Image
1951	Los Angeles Directory Company Publishers	-	-	-	-
1950	The Pacific Telephone and Telegraph Co	-	-	-	-
1949	San Bernardino Directory Co. Publishers	-	-	-	-
1946	Los Angeles Directory Company Publishers	-	-	-	-
1945	Southern California Telephone Company	-	-	-	-
1942	San Bernardino Directory Co Publisher	-	-	-	-
1941	Associated Telephone Company Limited	-	-	-	-
1940	Los Angeles Directory Co.	-	-	-	-
1938	Los Angeles Directory Co.	-	-	-	-
1936	San Bernardino Directory Co Publisher	-	-	-	-
1934	Los Angeles Directory Co.	-	-	-	-
1931	Los Angeles Directory Co.	-	-	-	-
1930	San Bernardino Directory Co Publisher	-	-	-	-
1926	Los Angeles Directory Co Publisher	-	-	-	-
1923	Los Angeles Directory Company	-	-	-	-
1922	R.L. Polk & Co Publishers	-	-	-	-

MAP INFORMATION

The Overview Map provides information on nearby property parcel boundaries. Properties on this map that were selected for research are listed below the map.



SELECTED ADDRESSES

The following addresses were selected by the client. Detailed findings are contained in the findings section. An "X" indicates where information was identified.

<u>Address</u>	<u>Type</u>	<u>Findings</u>
4568 and 4570 Francis Avenue	Map ID: 1	
11595 RAMONA AVE	Map ID: 12	X
11637 RAMONA AVE	Map ID: 13	X
11633 RAMONA AVE	Map ID: 14	X
11659 RAMONA AVE	Map ID: 16	X
11623 RAMONA AVE	Map ID: 17	X
4664 FRANCIS AVE	Map ID: 3	X

 Address
 Type
 Findings

 4562 FRANCIS AVE
 Map ID: 8
 χ

TARGET PROPERTY INFORMATION

ADDRESS

4568 and 4570 Francis Avenue Chino, CA 91710

FINDINGS DETAIL

Target Property research detail.

4568 and 4570 Francis Avenue

4568 and 4570 Francis Avenue

<u>Year</u> <u>Uses</u> <u>Source</u>

FRANCIS AVE

4570 FRANCIS AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	LEE Chin Te 909 627 27t	Haines & Co Publishers
1996	NAPS PALLETS	GTE
1990	A M PALLETS	GTE California Incorporated
	GIFTS a CRAFTS OF	GTE California Incorporated
	MULATO JOSE LUIS	GTE California Incorporated
1975	American Rex Fur Corp	GTE Directories

ADJOINING PROPERTY DETAIL

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

FRANCIS AVE

4523 FRANCIS AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	AFRICA Ronald	Haines & Co Publishers
1980	DENNIS LLOYD	GTE
1975	Allen D B	GTE Directories
1965	MC WATTERS H NA	GTE

4524 FRANCIS AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	BADIOS Richard	Haines & Co Publishers
1985	GEURTS JOHN	GTE
1975	Soares Dennis	GTE Directories
1970	CHITTENOEN LARRY	General Telephone Company of California
1965	WILLIAMS THOMAS C	GTE

4534 FRANCIS AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	LOPEZJose	Haines & Co Publishers
1980	1/2 HERBERT ELIZABETH	GTE
1965	SEPULVEDA E	GTE
	REAR MORGAN R B NA	GTE

4543 FRANCIS AVE

<u>Year</u>	<u>Uses</u>	Source
2003	HARRISCamille	Haines & Co Publishers
1990	Harris Camille Mrs	GTE
1975	Harris Camille Mrs	GTE Directories
1970	HARRIS MRS CAMILLE	General Telephone Company of California

4549 FRANCIS AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	BRUCE ROBERT CPA	Cole Information Services
2003	SMCFARLAND Sleven	Haines & Co Publishers

1980 ASHLEY CHARLIE GTE	
1975 Conn Ethel GTE Directories	
1970 CONN ETHEL General Telephone C California	Company of
1965 CONN ETHEL GTE	

4553 FRANCIS AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	LEWIS Ellen	Haines & Co Publishers
1965	LANGTON RONALD	GTE

4557 FRANCIS AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	XXXX	Haines & Co Publishers
1985	LEWIS MILTON	GTE

4559 FRANCIS AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	UNICO INC	Cole Information Services
2003	MUNZER William	Haines & Co Publishers
1965	WIKOFF DONALD	GTE

4562 FRANCIS AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	VALASQUEZ Albed	Haines & Co Publishers
1970	ZENTLER FRED	General Telephone Company of California
1965	ZENTLER F NA	GTE

4573 FRANCIS AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	HEHN Kim	Haines & Co Publishers
1990	Carpenter Carl C	GTE
	Carpenter Carol Pma	GTE
	Carpenter Carmen Upl	GTE
1985	CARPENTER CARL C	GTE
1980	CARPENTER CARL C	GTE
1975	Carpenter Carl C	GTE Directories

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Map ID: 8

4585 FRANCIS AVE

<u>Year</u> <u>Uses</u> <u>Source</u>

2003 s CORSONJulia Haines & Co Publishers

4593 FRANCIS AVE

<u>Year</u> <u>Uses</u> <u>Source</u>

2003 ROSASYadira C Haines & Co Publishers

4664 FRANCIS AVE Map ID: 3

<u>Year</u> <u>Uses</u> <u>Source</u>

2003 GUERRERA da 909 62 B 5221 Haines & Co Publishers

X YORBAAV Haines & Co Publishers
ONAVAJoaquin Haines & Co Publishers

1990 Johnson D L & L A Upl GTE

Johnson D L GTE

1975 Esquivias Mel GTE Directories

1970 ZENTLER W General Telephone Company of

California

GTE

1965 ZENTLER W NA GTE

Sternberg Randall W

LA CAUSEY CT

4603 LA CAUSEY CT

<u>Year</u> <u>Uses</u> <u>Source</u>

2003 ELRICKEro Haines & Co Publishers

4604 LA CAUSEY CT

<u>Year</u> <u>Uses</u> <u>Source</u>

2003 RENTZJoseph Haines & Co Publishers

1996 Rentz Jos R GTE

1990 RENTZ JOS R GTE California Incorporated

Rentz Jos R GTE

4627 LA CAUSEY CT

<u>Year</u> <u>Uses</u> <u>Source</u>

2003 JONES Catlo Haines & Co Publishers

1990 PHUKUNHAPHAN A GTE California Incorporated

Phukunhaphan Apichart GTE

4628 LA CAUSEY CT

<u>Year</u> <u>Uses</u> <u>Source</u>

2003 AGUIRRE Martin Haines & Co Publishers

1990 AGUIRRE JR MARTIN GTE California Incorporated

4641 LA CAUSEY CT

<u>Year</u> <u>Uses</u> <u>Source</u>

2003 OATIS Vincent Haines & Co Publishers

1990 Kuethen Edw GTE luethen Scott GTE

4642 LA CAUSEY CT

<u>Year</u> <u>Uses</u> <u>Source</u>

2003 MCI NTYRE Robert Haines & Co Publishers

4663 LA CAUSEY CT

<u>Year</u> <u>Uses</u> <u>Source</u>

2003 STRUIKSMALoren Haines & Co Publishers

1996 Strulksma GTE

4689 LA CAUSEY CT

<u>Year</u> <u>Uses</u> <u>Source</u>

2003 GORMAN Marcia Haines & Co Publishers

GORMAN Philip Haines & Co Publishers

4690 LA CAUSEY CT

<u>Year</u> <u>Uses</u> <u>Source</u>

2003 ANDRIDGECraig Haines & Co Publishers

1996 Andridge GTE

1990 ANDRIDGE CRAIG GTE California Incorporated

Andridge Craig GTE

RAMONA AVE

11595 RAMONA AVE Map ID: 12

Year Source Uses 2003 Haines & Co Publishers **CHOUDing** Haines & Co Publishers **CHOU Yang Ming** 1996 **GTE** Chou Yang Ming 1975 **GTE Directories** Moreno Manual 1970 APARTMENTS FRNT MORENO M General Telephone Company of California

Voor	Hann	Source	
<u>Year</u>	<u>Uses</u>	Source	
1965	MORENO M	GTE	
11623 RA	MONA AVE	Map ID: 17	
<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2003	BRUNNERJas 909 628a	Haines & Co Publishers	
1996	Brunner Jas	GTE	
1990	BRUNNER JAS	GTE California Incorporated	
	Brunner Jas	GTE	
1985	BRUNNER JAMES	GTE	
1980	BRUNNER JAMES	GTE	
1975	Brunner James	GTE Directories	
1970	BRUNNER JAMES	General Telephone Company of California	
1965	BRUNNER J	GTE	
11633 RA	MONA AVE	Map ID: 14	
<u>Year</u>	<u>Uses</u>	Source	
2003	GONZALES Elizabeth	Haines & Co Publishers	
1990	CORNISH JR JOE	GTE California Incorporated	
	Cornish Jr Joe	GTE	
1985	RANALS NICHOLAS	GTE	
1980	+ RANALS NICHOLAS	GTE	
1975	Trulli Carl	GTE Directories	
1965	HALL 0 NA	GTE	
11637 RA	MONA AVE	Map ID: 13	
<u>Year</u>	<u>Uses</u>	Source	
2003	ALVAREZE	Haines & Co Publishers	
	LOPEZ Maria	Haines & Co Publishers	
1985	BACOME WM	GTE	
	RAMONA AV CONT	GTE	
1980	BACOME MM	GTE	
1975	Bacome Wm	GTE Directories	
11659 RA	MONA AVE	Map ID: 16	
<u>Year</u>	<u>Uses</u>	Source	
2003	TEN Berge	Haines & Co Publishers	
1990	Kirkland Howard A	GTE	
1970	KELLEY EARL	General Telephone Company of California	
1965	o EARLS TOOL SERVICE	GTE	

YORBA AVE

11568 YORBA AVE

2003 BARBOSA Maria D Haines & Co Publishers

11576 YORBA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	TU Yvette Y	Haines & Co Publishers
	CHEN Shun	Haines & Co Publishers
1990	MORAN ARTHUR	GTE California Incorporated
	Moran Arthur	GTE
1985	MORAN ARTHUR	GTE
1980	MORAN ARTHUR	GTE
1975	Moran Arthur	GTE Directories
1970	MORAN ARTHUR H	General Telephone Company of California
1965	MORAN AHNA	GTE

11580 YORBA AVE

Year	Uses	Source

2003 CASTRO Raymundo Haines & Co Publishers
CHEN Petly Haines & Co Publishers

11588 YORBA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	MCCLANAHAN T W	GTE
1975	Harris M	GTE Directories
	Mc Clanahan T W	GTE Directories
1965	STEELE RONALD W	GTE

11589 YORBA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	KING Otis	Haines & Co Publishers
	OKING Joan	Haines & Co Publishers
1985	1/2+ PETERSON CRAIG	GTE
1970	FARRUGIA JOSEPH	General Telephone Company of California
	CHICK DONALD E	General Telephone Company of California

11616 YORBA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	HOTTINGER D NA	GTE

11617 YORBA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	CROWDER Steve	Haines & Co Publishers
1996	Crowder Steve	GTE
1970	CARLSON A G	General Telephone Company of California
1965	CARLSON A G NA	GTE

11627 YORBA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	JONESThomas	Haines & Co Publishers
1990	Alexandre Tom	GTE
	ALEXANDRE TOM	GTE California Incorporated
1970	WILSON BARBARA J	General Telephone Company of California

11639 YORBA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	XXXX	Haines & Co Publishers
1996	Martinez Miguel Angel	GTE
1990	1/2 ALVARADO ODILIA M	GTE California Incorporated
	ALVARADO ANGEL	GTE California Incorporated
	Alvarado B	GTE
	Alvarado Arturo	GTE
	Alvarado Odilia M	GTE
	Alvarado Angel	GTE
1985	1/2 ROTHWELL BROOKE	GTE
	RASPA ROSSAN	GTE
1975	Uttz Phillip	GTE Directories
	Jones Ronald E	GTE Directories
1965	FRY DAVID E	GTE

11647 YORBA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	AVILATiotonio	Haines & Co Publishers
1990	1/2 GORDILLO JULIO RUBEN	GTE California Incorporated
	Gordillo Julio Ruben	GTE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1985	1/2 ALEXANDRE TOM	GTE
1980	WALLACE BILL	GTE
1975	Nagy Sigmund	GTE Directories
	Durlesser F E	GTE Directories
1970	1/2 TURNER TERI	General Telephone Company of California
1965	MC CRUMB W N	GTE

11667 YORBA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1985	NAGY SIGMUND	GTE
	1/2 TURNURE JOHN G	GTE
1980	NAGY SIGMUND	GTE
	1/2 TURNURE JOHN	GTE
1975	Rex C L	GTE Directories
1970	REX CLAUDE L	General Telephone Company of California
1965	REX CLAUDE L	GTE

11669 YORBA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1990	Story Eva	GTE
	BOHANNAN NANCY	GTE California Incorporated
	1/2 STORY EV	GTE California Incorporated
	Hess Nancy	GTE
1985	1/2 STORY EV	GTE
1980	OROSCO PHILIP	GTE

11711 YORBA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2008	BULLET BAITS	Cole Information Services	
2003	GRIMES Robt	Haines & Co Publishers	
1996	Grimes Robt	GTE	
1990	GRIMES ROBT	GTE California Incorporated	
	i Grimes Robt	GTE	
	Grimes Robt	GTE	
1985	GRIMES ROBT	GTE	
1980	GRIMES ROBT	GTE	

11723 YORBA AVE

<u>Year</u> <u>Uses</u> <u>Source</u>

2003 X LACAUSEY CT Haines & Co Publishers
FOWLER Kevin Haines & Co Publishers

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

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

Address Researched	Address Not Identified in Research Source			
4568 and 4570 Francis Avenue	2013, 2008, 2002, 1995, 1991, 1985, 1981, 1980, 1970, 1965, 1964, 1961, 1960,			
	1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934,			
	1931, 1930, 1926, 1923, 1922			

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

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

Address Researched	Address Not Identified in Research Source
11568 YORBA AVE	2013, 2008, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
11576 YORBA AVE	2013, 2008, 2002, 1996, 1995, 1991, 1981, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
11580 YORBA AVE	2013, 2008, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
11588 YORBA AVE	2013, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1970, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
11589 YORBA AVE	2013, 2008, 2002, 1996, 1995, 1991, 1990, 1981, 1980, 1975, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
11595 RAMONA AVE	2013, 2008, 2002, 1995, 1991, 1990, 1985, 1981, 1980, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
11616 YORBA AVE	2013, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
11617 YORBA AVE	2013, 2008, 2002, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
11623 RAMONA AVE	2013, 2008, 2002, 1995, 1991, 1981, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
11627 YORBA AVE	2013, 2008, 2002, 1996, 1995, 1991, 1985, 1981, 1980, 1975, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
11633 RAMONA AVE	2013, 2008, 2002, 1996, 1995, 1991, 1981, 1970, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
11637 RAMONA AVE	2013, 2008, 2002, 1996, 1995, 1991, 1990, 1981, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
11639 YORBA AVE	2013, 2008, 2002, 1995, 1991, 1981, 1980, 1970, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

Address Researched	Address Not Identified in Research Source
11647 YORBA AVE	2013, 2008, 2002, 1996, 1995, 1991, 1981, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
11659 RAMONA AVE	2013, 2008, 2002, 1996, 1995, 1991, 1985, 1981, 1980, 1975, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
11667 YORBA AVE	2013, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1981, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
11669 YORBA AVE	2013, 2008, 2003, 2002, 1996, 1995, 1991, 1981, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
11711 YORBA AVE	2013, 2008, 2002, 1995, 1991, 1981, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
11711 YORBA AVE	2013, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
11723 YORBA AVE	2013, 2008, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
4523 FRANCIS AVE	2013, 2008, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1970, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
4524 FRANCIS AVE	2013, 2008, 2002, 1996, 1995, 1991, 1990, 1981, 1980, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
4534 FRANCIS AVE	2013, 2008, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1975, 1970, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
4543 FRANCIS AVE	2013, 2008, 2002, 1996, 1995, 1991, 1985, 1981, 1980, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
4549 FRANCIS AVE	2013, 2008, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
4549 FRANCIS AVE	2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
4553 FRANCIS AVE	2013, 2008, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
4557 FRANCIS AVE	2013, 2008, 2002, 1996, 1995, 1991, 1990, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
4559 FRANCIS AVE	2013, 2008, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
4559 FRANCIS AVE	2013, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
4562 FRANCIS AVE	2013, 2008, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
4573 FRANCIS AVE	2013, 2008, 2002, 1996, 1995, 1991, 1981, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

Address Researched	Address Not Identified in Research Source
4585 FRANCIS AVE	2013, 2008, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
4593 FRANCIS AVE	2013, 2008, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
4603 LA CAUSEY CT	2013, 2008, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
4604 LA CAUSEY CT	2013, 2008, 2002, 1995, 1991, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
4627 LA CAUSEY CT	2013, 2008, 2002, 1996, 1995, 1991, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
4628 LA CAUSEY CT	2013, 2008, 2002, 1996, 1995, 1991, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
4641 LA CAUSEY CT	2013, 2008, 2002, 1996, 1995, 1991, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
4642 LA CAUSEY CT	2013, 2008, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
4663 LA CAUSEY CT	2013, 2008, 2002, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
4664 FRANCIS AVE	2013, 2008, 2002, 1996, 1995, 1991, 1985, 1981, 1980, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
4689 LA CAUSEY CT	2013, 2008, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
4690 LA CAUSEY CT	2013, 2008, 2002, 1995, 1991, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

Munzer Property

4568 and 4570 Francis Avenue Chino, CA 91710

Inquiry Number: 3813623.11 December 17, 2013

EDR Building Permit Report

Target Property and Adjoining Properties



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Thank you for your business.Please contact EDR at 1-800-352-0050 with any questions or comments.

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EDR BUILDING PERMIT REPORT

About This Report

The EDR Building Permit Report provides a practical and efficient method to search building department records for indications of environmental conditions. Generated via a search of municipal building permit records gathered from more than 1,600 cities nationwide, this report will assist you in meeting the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

Building permit data can be used to identify current and/or former operations and structures/features of environmental concern. The data can provide information on a target property and adjoining properties such as the presence of underground storage tanks, pump islands, sumps, drywells, etc., as well as information regarding water, sewer, natural gas, electrical connection dates, and current/former septic tanks.

ASTM and EPA Requirements

ASTM E 1527-13 lists building department records as a "standard historical source," as detailed in § 8.3.4.7: "Building Department Records - The term building department records means those records of the local government in which the property is located indicating permission of the local government to construct, alter, or demolish improvements on the property." ASTM also states that "Uses in the area surrounding the property shall be identified in the report, but this task is required only to the extent that this information is revealed in the course of researching the property itself."

EPA's Standards and Practices for All Appropriate Inquires (AAI) states: "§312.24: Reviews of historical sources of information. (a) Historical documents and records must be reviewed for the purposes of achieving the objectives and performance factors of §312.20(e) and (f). Historical documents and records may include, but are not limited to, aerial photographs, fire insurance maps, building department records, chain of title documents, and land use records."

Methodology

EDR has developed the EDR Building Permit Report through our partnership with BuildFax, the nation's largest repository of building department records. BuildFax collects, updates, and manages building department records from local municipal governments. The database now includes 30 million permits, on more than 10 million properties across 1,600 cities in the United States.

The EDR Building Permit Report comprises local municipal building permit records, gathered directly from local jurisdictions, including both target property and adjoining properties. Years of coverage vary by municipality. Data reported includes (where available): date of permit, permit type, permit number, status, valuation, contractor company, contractor name, and description.

Incoming permit data is checked at seven stages in a regimented quality control process, from initial data source interview, to data preparation, through final auditing. To ensure the building department is accurate, each of the seven quality control stages contains, on average, 15 additional quality checks, resulting in a process of approximately 105 quality control "touch points."

For more information about the EDR Building Permit Report, please contact your EDR Account Executive at (800) 352-0050.





EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

A search of building department records was conducted by Environmental Data Resources, Inc (EDR) on behalf of Leighton and Associates, Inc. on Dec 17, 2013.

TARGET PROPERTY

4568 and 4570 Francis Avenue Chino, CA 91710

SEARCH METHODS

EDR searches available lists for both the Target Property and Surrounding Properties.

RESEARCH SUMMARY

Building permits identified: YES

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

Chino

<u>Year</u>	Source	<u>TP</u>	<u>Adjoining</u>
2010	City of Chino, Community Development		
2009	City of Chino, Community Development		X
2008	City of Chino, Community Development		
2007	City of Chino, Community Development		
2006	City of Chino, Community Development		
2005	City of Chino, Community Development		

San Bernardino County

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>
2012	San Bernardino County, Land Use Services Departmen		X
2011	San Bernardino County, Land Use Services Departmen		
2010	San Bernardino County, Land Use Services Departmen		X
2009	San Bernardino County, Land Use Services Departmen		
2008	San Bernardino County, Land Use Services Departmen		
2007	San Bernardino County, Land Use Services Departmen		
2006	San Bernardino County, Land Use Services Departmen		X
2005	San Bernardino County, Land Use Services Departmen		
2004	San Bernardino County, Land Use Services Departmen		X
2003	San Bernardino County, Land Use Services Departmen		X
2002	San Bernardino County, Land Use Services Departmen		X

BUILDING DEPARTMENT RECORDS SEARCHED

Name: Chino Years: 2005-2010

Source: City of Chino, Community Development, Chino, CA

Phone: (909) 591-9813

Name: San Bernardino County

Years: 2002-2012

Source: San Bernardino County, Land Use Services Department, San Bernardino, CA

Phone: (909) 256-4750

Name: Pomona Years: 1992-2012

Source: City of Pomona, Community Development, Pomona, CA

Phone: (909) 620-2191

TARGET PROPERTY FINDINGS

TARGET PROPERTY DETAIL

4568 and 4570 Francis Avenue Chino, CA 91710

No Permits Found

ADJOINING PROPERTY DETAIL

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

FRANCIS AVE

4523 FRANCIS AVE

Date: 8/21/2003
Permit Type: BS_RES
Description: ELECTRIC

Permit Description: Building Single - Family Residential

Work Class: MISC

Proposed Use:

Permit Number: B200308852

Status:

Valuation: \$0.00

Contractor Company: Contractor Name:

Date: 8/8/2003
Permit Type: BS_RES
Description: RE-ROOF

Permit Description: Building Single - Family Residential

Work Class: ROOF/DEM

Proposed Use:

Permit Number: B200308313

Status:

Valuation: \$2,000.00

4524 FRANCIS AVE

Date: 2/27/2004
Permit Type: BS_RES

Description: FIELD INVESTIGATION

Permit Description: Building Single - Family Residential

Work Class: MISC

Proposed Use:

Permit Number: B200402543

Status:

Valuation: \$0.00

Contractor Company: Contractor Name:

4543 FRANCIS AVE

Date: 10/10/2006
Permit Type: BS_RES
Description: REROOF

Permit Description: Building Single - Family Residential

Work Class: ROOF/DEM

Proposed Use:

Permit Number: B200615352

Status:

Valuation: \$5,000.00

Contractor Company:

Contractor Name: YOUNG ROOFING

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4549 FRANCIS AVE

Date: 9/15/2004
Permit Type: BS_RES

Description: **DETACHED GARAGE**

Permit Description: Building Single - Family Residential

Work Class: Alteration Permit

Proposed Use:

Permit Number: B200413311

Status:

Valuation: \$11,036.00

Contractor Company:

Contractor Name: TUFF SHED INC

4553 FRANCIS AVE

Date: **4/3/2006**Permit Type: **BS_RES**

Description: FIELD INVESTIGATION

Permit Description: Building Single - Family Residential

Work Class: MISC

Proposed Use:

Permit Number: B200604799

Status:

Valuation: \$0.00

Date: 4/3/2006
Permit Type: BS_RES

Description: REHAB AND ADDITION

Permit Description: Building Single - Family Residential

Work Class: Alteration Permit

Proposed Use:

Permit Number: B200604800

Status: Valuation:

Contractor Company: Contractor Name:

Date: 4/3/2006
Permit Type: BS_RES

Description: RELOCATE WATER HEATER

Permit Description: Building Single - Family Residential

Work Class: MISC

Proposed Use:

Permit Number: B200604801

Status:

Valuation: \$0.00

Contractor Company: Contractor Name:

Date: 11/21/2002
Permit Type: BS_RES

Description: ELECTRIC METER RESET

Permit Description: Building Single - Family Residential

Work Class: MISC

Proposed Use:

Permit Number: B200210396

Status:

Valuation: \$0.00

4562 FRANCIS AVE

Date: 6/26/2006 Permit Type: BS_RES

Description: ADDITION AND REMODEL

Permit Description: Building Single - Family Residential

Work Class: Alteration Permit

Proposed Use:

Permit Number: B200517939

Status: Valuation:

Contractor Company: Contractor Name:

4585 FRANCIS AVE

Date: 4/12/2012
Permit Type: BS_RES

Description: ROOF MOUNT SOLAR

Permit Description: Building Single - Family Residential

Work Class: MISC

Proposed Use:

Permit Number: B201202030

Status:

Valuation: \$0.00

Contractor Company:

Contractor Name: SOLAR CITY CORPORATION

Date: 9/30/2010
Permit Type: BS_RES

Description: REHAB RESIDENCE

Permit Description: Building Single - Family Residential

Work Class: Alteration Permit

Proposed Use:

Permit Number: B201007250

Status: Valuation:

Contractor Company: Contractor Name:

Date: 9/27/2010
Permit Type: BS_RES

Description: PRE ALTER (ELECTRIC UPGRADE)

Permit Description: Building Single - Family Residential

Work Class: PRE-ALT

Proposed Use:

Permit Number: B201007127

Status:

Valuation: \$0.00

Contractor Company: Contractor Name:

4593 FRANCIS AVE

Date: 1/29/2003
Permit Type: BS_RES
Description: MECHANICAL

Permit Description: Building Single - Family Residential

Work Class: MISC

Proposed Use:

Permit Number: B200300908

Status:

Valuation: \$0.00

Date: 1/29/2003
Permit Type: BS_RES
Description: PLUMBING

Permit Description: Building Single - Family Residential

Work Class: MISC

Proposed Use:

Permit Number: B200300909

Status:

Valuation: \$0.00

Contractor Company: Contractor Name:

Date: 1/29/2003 Permit Type: BS_RES

Description: RESIDENCE REMODEL

Permit Description: Building Single - Family Residential

Work Class: Alteration Permit

Proposed Use:

Permit Number: B200300910

Status: Valuation:

Contractor Company: Contractor Name:

Date: 1/29/2003 Permit Type: BS_RES

Description: STORAGE SHED

Permit Description: Building Single - Family Residential

Work Class: Alteration Permit

Proposed Use:

Permit Number: B200300911

Status: Valuation:

Date: 1/27/2003
Permit Type: BS_RES

Description: FIELD INVESTIGATION - NON PERMITTED ROOM ADDITIONS

Permit Description: Building Single - Family Residential

Work Class: MISC

Proposed Use:

Permit Number: B200300775

Status:

Valuation: \$0.00

Contractor Company: Contractor Name:

LA CAUSEY CT

4603 LA CAUSEY CT

Date: **10/14/2009**Permit Type: **B_COMBO**

Description: SECOND DETACHED GARAGE/WORKSHOP 30' X 39' = 1199 SQ FT

Permit Description:

Work Class: GAR_DET

Proposed Use:

Permit Number: B09-1008 Status: FINALED Valuation: \$29,135.70

YORBA AVE

11588 YORBA AVE

Date: 4/16/2004
Permit Type: BS_RES
Description: ELECTRICAL

Permit Description: Building Single - Family Residential

Work Class: MISC

Proposed Use:

Permit Number: B200405070

Status:

Valuation: \$0.00

Contractor Company: Contractor Name:

Date: 4/16/2004
Permit Type: BS_RES
Description: DEMOLITION

Permit Description: Building Single - Family Residential

Work Class: ROOF/DEM

Proposed Use:

Permit Number: B200405071

Status:

Valuation: \$100.00

Date: 4/16/2004
Permit Type: BS_RES
Description: DEMOLITION

Permit Description: Building Single - Family Residential

Work Class: ROOF/DEM

Proposed Use:

Permit Number: B200405072

Status:

Valuation: \$100.00

Contractor Company: Contractor Name:

Date: 4/14/2004
Permit Type: BS_RES
Description: DEMOLITION

Permit Description: Building Single - Family Residential

Work Class: ROOF/DEM

Proposed Use:

Permit Number: B200404973

Status:

Valuation: \$500.00

Contractor Company: Contractor Name:

Date: 4/9/2004
Permit Type: BS_RES

Description: MAJOR FIELD INVESTIGATION

Permit Description: Building Single - Family Residential

Work Class: MISC

Proposed Use:

Permit Number: B200404710

Status:

Valuation: \$0.00

11617 YORBA AVE

Date: 12/7/2010
Permit Type: BS_RES

Description: GARAGE CONVERSION- RESIDENCE

Permit Description: Building Single - Family Residential

Work Class: PRE-ALT

Proposed Use:

Permit Number: B201009041

Status:

Valuation: \$0.00

Contractor Company: Contractor Name:

11647 YORBA AVE

Date: 5/20/2003
Permit Type: BS_RES

Description: ELECTRIC UPGRADE & ADD A/C UNIT

Permit Description: Building Single - Family Residential

Work Class: MISC

Proposed Use:

Permit Number: B200304958

Status:

Valuation: \$0.00

GLOSSARY

General Building Department concepts

- ICC: The International Code Council. The governing body for the building/development codes used by all jurisdictions who've adopted the ICC guidelines. MOST of the US has done this. Canada, Mexico, and other countries use ICC codes books and guides as well. There are a few states who have added guidelines to the ICC codes to better fit their needs. For example, California has added seismic retrofit requirements for most commercial structures.
- Building Department (Permitting Authority, Building Codes, Inspections Department, Building and Inspections): This is the department in a jurisdiction where an owner or contractor goes to obtain permits and inspections for building, tearing down, remodeling, adding to, re-roofing, moving or otherwise making changes to any structure, Residential or Commercial.
- Jurisdiction: This is the geographic area representing the properties over which a Permitting Authority has responsibility.
- GC: General Contractor. Usually the primary contractor hired for any Residential or Commercial construction work.
- **Sub:** Subordinate contracting companies or subcontractors. Usually a "trades" contractor working for the GC. These contractors generally have an area of expertise in which they are licensed like Plumbing, Electrical, Heating and Air systems, Gas Systems, Pools etc. (called "trades").
- Journeymen: Sub contractors who have their own personal licenses in one or more trades and work for different contracting companies, wherever they are needed or there is work.
- HVAC (Mechanical, Heating & Air companies): HVAC = Heating, Ventilation, and Air Conditioning.
- ELEC (Electrical, TempPole, TPole, TPower, Temporary Power, Panel, AMP Change, Power Release): Electrical permits can be pulled for many reasons. The most common reason is to increase the AMPs of power in an electrical power panel. This requires a permit in almost every jurisdiction. Other commons reason for Electrical permits is to insert a temporary power pole at a new construction site. Construction requires electricity, and in a new development, power has yet to be run to the lot. The temporary power pole is usually the very first permit pulled for new development. The power is released to the home owner when construction is complete and this sometimes takes the form of a Power Release permit or inspection.
- "Pull" a permit: To obtain and pay for a building permit.
- CBO: Chief Building Official
- Planning Department: The department in the development process where the building /structural plans are reviewed for their completeness and compliance with building codes
- Zoning Department: The department in the development process where the site plans are reviewed for their compliance with the regulations associated with the zoning district in which they are situated.
- Zoning District: A pre-determined geographic boundary within a jurisdiction where certain types of structures are permitted / prohibited. Examples are Residential structure, Commercial/Retail structures, Industrial/Manufacturing structures etc. Each zoning district has regulations associated with it like the sizes of the lots, the density of the structures on the lots, the number of parking spaces required for certain types of structures on the lots etc.
- PIN (TMS, GIS ID, Parcel#): Property Identification Number and Tax Map System number.
- State Card (Business license): A license card issued to a contractor to conduct business.
- Building Inspector (Inspector): The inspector is a building department employee that inspects building construction for compliance to codes.
- C.O.: Certificate of Occupancy. This is the end of the construction process and designates that the owners now have permission to occupy a structure after its building is complete. Sometimes also referred to as a Certificate of Compliance.

GLOSSARY

Permit Content Definitions

- Permit Number: The alphanumerical designation assigned to a permit for tracking within the building department system. Sometimes the permit number gives clues to its role, e.g. a "PL" prefix may designate a plumbing permit.
- Description: A field on the permit form that allows the building department to give a brief description of the work being done. More often than not, this is the most important field for EP's to find clues to the prior use(s) of the property.
- Permit Type: Generally a brief designation of the type of job being done. For example BLDG-RES, BLDG-COM, ELEC, MECH etc.

Sample Building Permit Data

Date: Nov 09, 2000 Permit Type: Bldg -

New Permit Number: 101000000405 Status: Valuation: \$1,000,000.00 Contractor Company: OWNER-BUILDER

Contractor Name:

Description: New one store retail (SAV-ON) with drive-thru pharmacy. Certificate of Occupancy.

Munzer Property

4568 and 4570 Francis Avenue Chino, CA 91710

Inquiry Number: 3813623.8

December 17, 2013

The EDR Property Tax Map Report



EDR Property Tax Map Report

Environmental Data Resources, Inc.'s EDR Property Tax Map Report is designed to assist environmental professionals in evaluating potential environmental conditions on a target property by understanding property boundaries and other characteristics. The report includes a search of available property tax maps, which include information on boundaries for the target property and neighboring properties, addresses, parcel identification numbers, as well as other data typically used in property location and identification.

Thank you for your business.

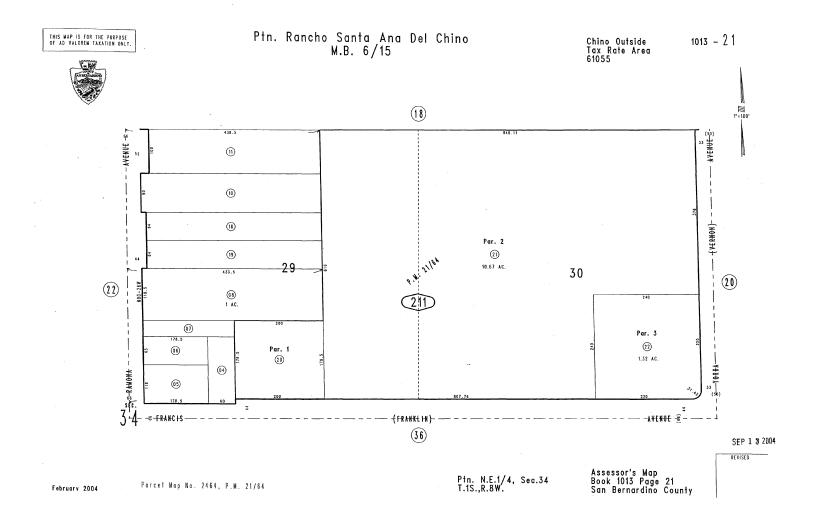
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APPENDIX G

Important Information About Your

Geoenvironmental Report

Geoenvironmental studies are commissioned to gain information about environmental conditions on and beneath the surface of a site. The more comprehensive the study, the more reliable the assessment is likely to be. But remember: Any such assessment is to a greater or lesser extent based on professional opinions about conditions that cannot be seen or tested. Accordingly, no matter how many data are developed, risks created by unanticipated conditions will always remain. Have realistic expectations. Work with your geoenvironmental consultant to manage known and unknown risks. Part of that process should already have been accomplished, through the risk allocation provisions you and your geoenvironmental professional discussed and included in your contract's general terms and conditions. This document is intended to explain some of the concepts that may be included in your agreement, and to pass along information and suggestions to help you manage your risk.

Beware of Change; Keep Your Geoenvironmental Professional Advised

The design of a geoenvironmental study considers a variety of factors that are subject to change. Changes can undermine the applicability of a report's findings, conclusions, and recommendations. *Advise your geoenvironmental professional about any changes you become aware of.* Geoenvironmental professionals cannot accept responsibility or liability for problems that occur because a report fails to consider conditions that did not exist when the study was designed. Ask your geoenvironmental professional about the types of changes you should be particularly alert to. Some of the most common include:

- modification of the proposed development or ownership group,
- sale or other property transfer,
- replacement of or additions to the financing entity,
- amendment of existing regulations or introduction of new ones,
- changes in the use or condition of adjacent property.

Should you become aware of any change, do not rely on a geoenvironmental report. Advise your geoenvironmental professional immediately; follow the professional's advice.

Recognize the Impact of Time

A geoenvironmental professional's findings, recommendations, and conclusions cannot remain valid indefinitely. The more time that passes, the more likely it is that important latent changes will occur. Do not rely on a geoenvironmental report if too much time has elapsed since it was completed. Ask your environmental professional to define "too much time." In the case of Phase I Environmental Site Assessments (ESAs), for example, more than 180 days after submission is generally considered "too much."

Prepare To Deal with Unanticipated Conditions

The findings, recommendations, and conclusions of a Phase I ESA report typically are based on a review of historical information, interviews, a site "walkover," and other forms of noninvasive research. When site subsurface conditions are not sampled in any way, the risk of unanticipated conditions is higher than it would otherwise be.

While borings, installation of monitoring wells, and similar invasive test methods can help reduce the risk of unanticipated conditions, do not overvalue the effectiveness of testing. Testing provides information about actual conditions only at the precise locations where samples are taken, and only when they are taken. Your geoenvironmental professional has applied that specific information to develop a general opinion about environmental conditions. Actual conditions in areas not sampled may differ (sometimes sharply) from those predicted in a report. For example, a site may contain an unregistered underground storage tank that shows no surface trace of its existence. Even conditions in areas that were tested can change, sometimes suddenly, due to any number of events, not the least of which include occurrences at

adjacent sites. Recognize, too, that *even some conditions in tested* areas may go undiscovered, because the tests or analytical methods used were designed to detect only those conditions assumed to exist.

Manage your risks by retaining your geoenvironmental professional to work with you as the project proceeds. Establish a contingency fund or other means to enable your geoenvironmental professional to respond rapidly, in order to limit the impact of unforeseen conditions. And to help prevent any misunderstanding, identify those empowered to authorize changes and the administrative procedures that should be followed.

Do Not Permit Any Other Party To Rely on the Report

Geoenvironmental professionals design their studies and prepare their reports to meet the specific needs of the clients who retain them, in light of the risk management methods that the client and geoenvironmental professional agree to, and the statutory, regulatory, or other requirements that apply. The study designed for a developer may differ sharply from one designed for a lender, insurer, public agency...or even another developer. Unless the report specifically states otherwise, it was developed for you and only you. Do not unilaterally permit any other party to rely on it. The report and the study underlying it may not be adequate for another party's needs, and you could be held liable for shortcomings your geoenvironmental professional was powerless to prevent or anticipate. Inform your geoenvironmental professional when you know or expect that someone else—a third-party will want to use or rely on the report. Do not permit third-party use or reliance until you first confer with the geoenvironmental professional who prepared the report. Additional testing, analysis, or study may be required and, in any event, appropriate terms and conditions should be agreed to so both you and your geoenvironmental professional are protected from third-party risks. Any party who relies on a geoenvironmental report without the express written permission of the professional who prepared it and the client for whom it was prepared may be solely liable for any problems that arise.

Avoid Misinterpretation of the Report

Design professionals and other parties may want to rely on the report in developing plans and specifications. They need to be advised, in writing, that their needs may not have been considered when the study's scope was developed, and, even if their needs were considered, they might misinterpret geoenvironmental findings, conclusions, and recommendations. Commission your geoenvironmental professional to explain pertinent elements of the report to others who are permitted to rely on it, and to review any plans, specifications or other instruments of professional service that incorporate any of the report's findings, conclusions, or recommendations. Your geoenvironmental professional has the best understanding of the issues involved, including the fundamental assumptions that underpinned the study's scope.

Give Contractors Access to the Report

Reduce the risk of delays, claims, and disputes by giving contractors access to the full report, providing that it is accompanied by a letter of transmittal that can protect you by making it unquestionably clear that: 1) the study was not conducted and the report was not prepared for purposes of bid development, and 2) the findings, conclusions, and recommendations included in the report are based on a variety of opinions, inferences, and assumptions and are subject to interpretation. Use the letter to also advise contractors to consult with your geoenvironmental professional to obtain clarifications, interpretations, and guidance (a fee may be required for this service), and that—in any event—they should conduct additional studies to obtain the specific type and extent of information each prefers for preparing a bid or cost estimate. Providing access to the full report, with the appropriate caveats, helps prevent formation of adversarial attitudes and claims of concealed or differing conditions. If a contractor elects to ignore the warnings and advice in the letter of transmittal, it would do so at its own risk. Your geoenvironmental professional should be able to help you prepare an effective letter.

Do Not Separate Documentation from the Report

Geoenvironmental reports often include supplemental documentation, such as maps and copies of regulatory files, permits, registrations, citations, and correspondence with regulatory agencies. If subsurface explorations were performed, the report may contain final boring logs and copies of laboratory data. If remediation activities occurred on site, the report may include: copies of daily field reports; waste manifests; and information about the disturbance of subsurface materials, the type and thickness of any fill placed on site, and fill placement practices, among other types of documentation. Do not separate supplemental documentation from the report. Do not, and do not permit any other party to redraw or modify any of the supplemental documentation for incorporation into other professionals' instruments of service.

Understand the Role of Standards

Unless they are incorporated into statutes or regulations, standard practices and standard guides developed by the American Society for Testing and Materials (ASTM) and other recognized standards-developing organizations (SDOs) are little more than aspirational methods agreed to by a consensus of a committee. The committees that develop standards may not comprise those best-qualified to establish methods and, no matter what, no standard method can possibly consider the infinite client- and project-specific variables that fly in the face of the theoretical "standard conditions" to which standard practices and standard guides apply. In fact, these variables can be so pronounced that geoenvironmental professionals who comply with every directive of an ASTM or other standard procedure could run afoul of local custom and practice, thus violating the standard of care.

Accordingly, when geoenvironmental professionals indicate in their reports that they have performed a service "in general compliance" with one standard or another, it means they have applied professional judgement in creating and implementing a scope of service designed for the specific client and project involved, and which follows some of the general precepts laid out in the referenced standard. To the extent that a report indicates "general compliance" with a standard, you may wish to speak with your geoenvironmental professional to learn more about what was and was not done. *Do not assume a given standard was followed to the letter.* Research indicates that that seldom is the case.

Realize That Recommendations May Not Be Final

The technical recommendations included in a geoenvironmental report are based on assumptions about actual conditions, and so are preliminary or tentative. Final recommendations can be prepared only by observing actual conditions as they are exposed. For that reason, you should retain the geoenvironmental professional of record to observe construction and/or remediation activities on site, to permit rapid response to unanticipated conditions. The geoenvironmental professional who prepared the report cannot assume responsibility or liability for the report's recommendations if that professional is not retained to observe relevant site operations.

Understand That Geotechnical Issues Have Not Been Addressed

Unless geotechnical engineering was specifically included in the scope of professional service, a report is not likely to relate any findings, conclusions, or recommendations about the suitability of subsurface materials for construction purposes, especially when site remediation has been accomplished through the removal, replacement, encapsulation, or chemical treatment of on-site soils. The

equipment, techniques, and testing used by geotechnical engineers differ markedly from those used by geoenvironmental professionals; their education, training, and experience are also significantly different. If you plan to build on the subject site, but have not yet had a geotechnical engineering study conducted, your geoenvironmental professional should be able to provide guidance about the next steps you should take. The same firm may provide the services you need.

Read Responsibility Provisions Closely

Geoenvironmental studies cannot be exact; they are based on professional judgement and opinion. Nonetheless, some clients, contractors, and others assume geoenvironmental reports are or certainly should be unerringly precise. Such assumptions have created unrealistic expectations that have led to wholly unwarranted claims and disputes. To help prevent such problems, geoenvironmental professionals have developed a number of report provisions and contract terms that explain who is responsible for what, and how risks are to be allocated. Some people mistake these for "exculpatory clauses," that is, provisions whose purpose is to transfer one party's rightful responsibilities and liabilities to someone else. Read the responsibility provisions included in a report and in the contract you and your geoenvironmental professional agreed to. *Responsibility provisions are not "boiler-plate."* They are important.

Rely on Your Geoenvironmental Professional for Additional Assistance

Membership in ASFE exposes geoenvironmental professionals to a wide array of risk management techniques that can be of genuine benefit for everyone involved with a geoenvironmental project. Confer with your ASFE-member geoenvironmental professional for more information.



8811 Colesville Road/Suite G106, Silver Spring, MD 20910 Telephone: 301/565-2733 Facsimile: 301/589-2017 e-mail: info@asfe.org www.asfe.org

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January 23, 2014

Project No. 10557.003

Stratham Company 2201 DuPont Drive, Suite 200 Irvine, California 92612

Attention: Mr. Brandon Roth

Subject: Summary of Limited Phase II Environmental Site Assessment,

4570 Francis Avenue, Assessor Parcel Number 1013-211-21, Chino,

California

Leighton and Associates, Inc. (Leighton) is pleased to present this letter summarizing the findings of our Limited Phase II Environmental Site Assessment (ESA) prepared for the subject site located at 4570 Francis Avenue, Chino, California.

The Limited Phase II ESA was conducted based on the findings of our Draft Phase I ESA prepared for the subject site, dated January 10, 2014.

Scope of Work

The scope of services provided in our Limited Phase II ESA included the following:

- A geophysical survey in the area of the underground storage tank (UST) known to exist in the southwest portion of the subject site to determine the exact location of the UST and approximate size;
- A geophysical survey of the southwest corner and northeast portion of the subject site, in the location of former structures to evaluate if unknown underground objects (USTs, septic tanks, buried trash, etc.) are present in these areas;
- Advancement of 23 soil borings in the vicinity of the former structures located throughout the subject site to assess for lead and organochlorine pesticides (OCPs) resulting from lead-based paint and termiticide use;

- Advancement of 4 borings throughout the subject site to assess for OCP and arsenic impacted resulting from former pesticide use;
- Advancement of 4 borings around the existing UST to assess for total petroleum hydrocarbon (TPH) impacts as a result of a potential leaking UST;
- Advancement of 1 boring in the vicinity of buried trash identified in the northeast portion of the subject site during the geophysical survey;
- Advancement of 1 boring in the vicinity of a presumed septic tank identified in the southwest corner of the subject site during the geophysical survey; and
- Completion of asbestos-containing materials (ACM) and lead-based paint (LBP) survey.

Results

Results of the geophysical survey conducted in the southwest and northeast portions of the subject site confirmed the presence of a UST located on the east side of the existing maintenance shed, a possible septic tank located in the southeast corner of the subject site, and a buried trash pit in the northeast portion of the subject site.

Results of the ACM and LBP indicate that no ACM was identified in the current onsite structures. LBP was identified in one sample of green paint collected from the fascia of the existing maintenance shed located in the southwest portion of the subject site. Lead-containing paint was also identified in one sample of white paint collected from the fascia the existing maintenance shed located in the southwest portion of the subject site and from two samples of paint collected from a mural on the interior wall of the existing maintenance shed located in the southwest portion of the subject site. A copy of the ACM and LBP report is attached.

Results of the soil analysis of samples collected from the above soil borings indicate the following:

- TPH and VOCs were not detected at concentrations above the regulatory guidelines in the area of the UST.
- Arsenic was not detected at concentrations above the regulatory guidelines in the soil samples analyzed from the former agricultural use areas of the subject site.



- Lead was not detected at concentrations above the regulatory guidelines in the soil samples analyzed in the area of the former and existing structures throughout the subject site.
- TPH, pesticides, and metals were not detected at concentrations above the regulatory guidelines in the soil samples analyzed in the area of the buried trash pit in the northeast portion of the subject site.
- TPH was not detected at concentrations above the regulatory guidelines in the soil samples analyzed in the area of the septic tank in the southeast portion of the subject site.
- One OCP, dieldrin, was detected above the regulatory guidelines in the composite samples at 0.5-feet and 2.5-feet below ground surface (bgs) analyzed from around the concrete pads of former structures located in the southwest portion of the subject site, the 2.5-feet bgs sample collected along the south side of the shed located in the southern portion of the subject site, and the 0.5-foot sample collected within the former stream bed located in the northeast portion of the subject site. Table 1 summarizes the results of OCP analysis in the soil samples collected from the subject site. Sample locations are shown on the attached Figure 1.

If the purchase of the subject site is continued, additional assessment of OCPs would be necessary, as well as, the draining, removal, and excavation confirmation sampling of the existing UST. Additionally, a complete geophysical survey of the remaining portion of the subject site not previously survey is recommended.

All LBP, lead-containing paint, and buried trash will require off-site disposal and/or special handling. Depending on the location of the septic tank relative to the planned development, the septic may need to be removed prior to or during construction activities.



If you have questions regarding this report, please contact us. We appreciate the opportunity to be of service to Stratham Company.

Respectfully submitted,

LEIGHTON AND ASSOCIATES, INC.

Brynn McCulloch, PG 8798

Project Geologist

Attachments: Figure 1 – Sample Location Map

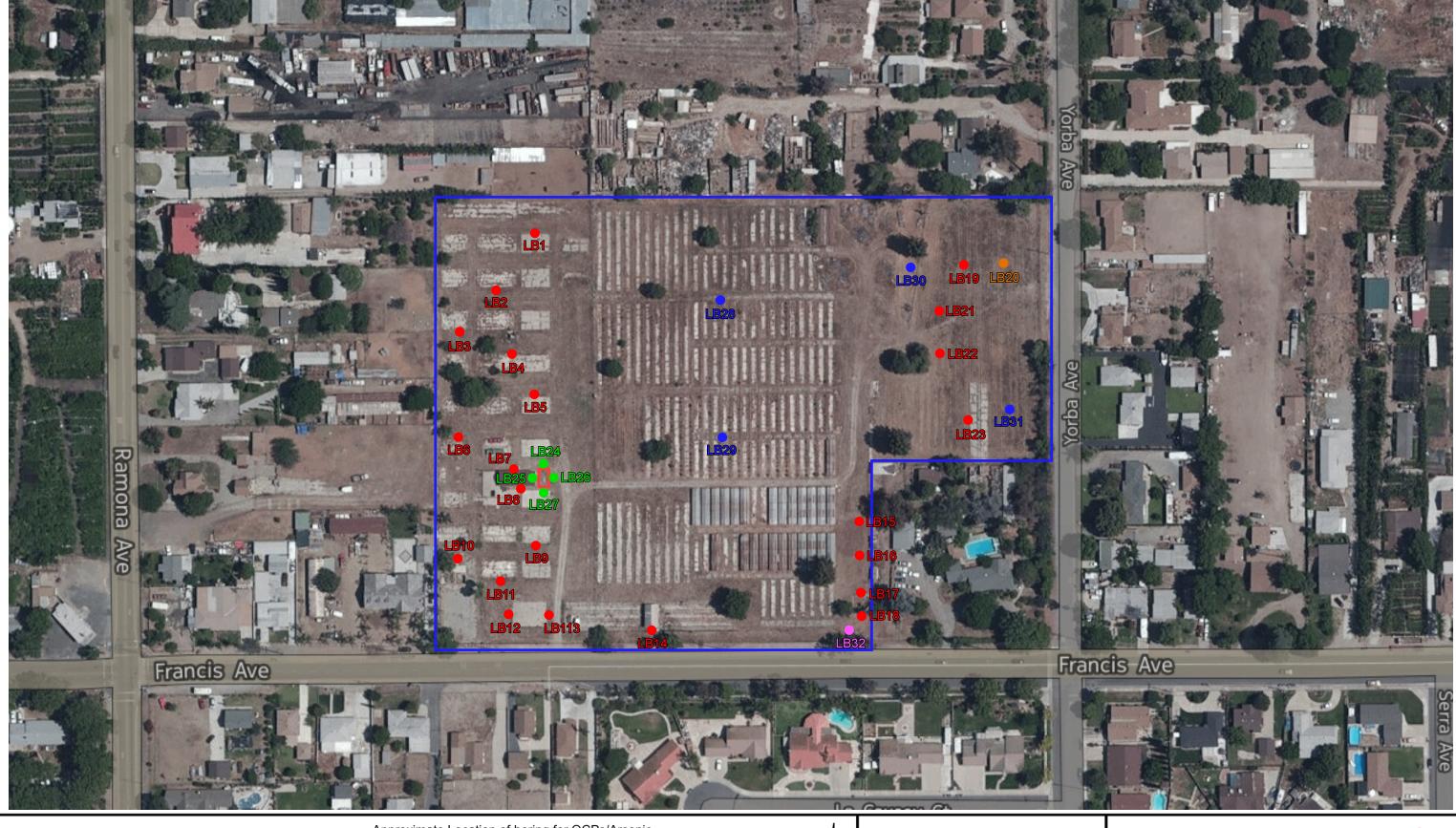
Table 1 – Pesticides Concentrations in Soil

Laboratory Data

Asbestos and Lead-Based Paint Survey

Distribution: (1) Addressee (pdf via email)





LEGEND

- Approximate Site Boundary
- Approximate Location of boring for OCPs/Lead (former and current structures)
- Approximate Location of boring for OCPs/Arsenic (former ag use areas)
- Approximate Location of boring in area of UST
- Approximate Location of boring in area of septic tank
- Approximate Location of boring in area of buried trash

SAMPLE LOCATION MAP

4570 Francis Avenue Chino, California Project No. Scale Engr./Geol. Drafted By Date 10557.003 Not to Scale BFM MDW

January 2014



Figure No. 1

Table 1Pesticide Concentrations in Soil 4570 Francis Avenue, Chino, California

Composite LB1 through LB5 @ 0.5 1/14/2014 ug/kg 2.0 3.8 7.2 6.6 <2.0 <2.0 <1.0 Composite LB1 through LB5 @ 2.5 1/14/2014 ug/kg <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <1.0 Composite LB12 and LB13 @ 0.5 1/14/2014 ug/kg <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <1.0 Composite LB13 and LB16 @ 2.5 1/14/2014 ug/kg <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <1.0 Composite LB15 and LB16 @ 0.5 1/14/2014 ug/kg <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <1.0 Composite LB17 and LB18 @ 0.5 1/14/2014 ug/kg <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <1.0 Composite LB17 and LB18 @ 0.5 1/14/2014 ug/kg <2.0 59 55 <2.0 <2.0 <2.0 <2.0 <2.0 <1.0 Composite LB21 and LB22 @ 0.5 1/14/2014 ug/kg <2.0 59 55 <2.0 <2.0 <2.0 <2.0 <2.0 <1.0 Composite LB21 and LB22 @ 0.5 1/14/2014 ug/kg <2.0 59 55 <2.0 <2.0 <2.0 <2.0 <1.0 Composite LB21 and LB22 @ 0.5 1/14/2014 ug/kg <2.0 59 55 <2.0 <2.0 <2.0 <2.0 <1.0 Composite LB21 and LB22 @ 2.5 1/14/2014 ug/kg <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <1.0 Composite LB21 and LB22 @ 2.5 1/14/2014 ug/kg <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <1.0 Composite LB3 and LB3 @ 0.5 1/14/2014 ug/kg <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <1.0 Composite LB6, LB9, LB10, and LB11 @ 0.5 1/14/2014 ug/kg <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <1.0 Composite LB6, LB9, LB10, and LB11 @ 0.5 1/14/2014 ug/kg <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <1.0 Composite LB7 and LB8 @ 0.5 1/14/2014 ug/kg <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <1.0 Composite LB7 and LB8 @ 0.5 1/14/2014 ug/kg <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <1.0 Composite LB7 and LB8 @ 0.5 1/14/2014 ug/kg <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <1.0 Composite LB7 and LB8 @ 0.5 1										
Composite LB1 through LB5 @ 2.5	SAMPLENAME	SAMPDATE	UNITS	4,4´-DDD	4,4´-DDE	4,4´-DDT	Dieldrin	Endrin	Endrin ketone	gamma-BHC
Composite LB12 and LB13 @ 0.5	Composite LB1 through LB5 @ 0.5	1/14/2014	ug/kg	<2.0	3.8	7.2	6.6	<2.0	<2.0	<1.0
Composite LB12 and LB13 @ 2.5	Composite LB1 through LB5 @ 2.5	1/14/2014	ug/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0
Composite LB15 and LB16 @ 0.5	Composite LB12 and LB13 @ 0.5	1/14/2014	ug/kg	<2.0	<2.0	<2.0	11	<2.0	<2.0	<1.0
Composite LB15 and LB16 @ 2.5	Composite LB12 and LB13 @ 2.5	1/14/2014	ug/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0
Composite LB17 and LB18 @ 0.5	Composite LB15 and LB16 @ 0.5	1/14/2014	ug/kg	<2.0	4.2	<2.0	<2.0	<2.0	<2.0	<1.0
Composite LB17 and LB18 @ 2.5	Composite LB15 and LB16 @ 2.5	1/14/2014	ug/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0
Composite LB21 and LB22 @ 0.5 1/14/2014 ug/kg	Composite LB17 and LB18 @ 0.5	1/14/2014	ug/kg	<2.0	17	11	<2.0	<2.0	<2.0	<1.0
Composite LB21 and LB22@25	Composite LB17 and LB18 @ 2.5	1/14/2014	ug/kg	<2.0	59	55	<2.0	<2.0	<2.0	<1.0
Composite LB6, LB9, LB10, and LB11 @ 0.5	Composite LB21 and LB22 @ 0.5	1/14/2014	ug/kg	3.9	170	36	<2.0	<2.0	<2.0	<1.0
Composite LB6, LB9, LB10, and LB11 @ 2.5	Composite LB21 and LB22 @ 2.5	1/14/2014	ug/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0
Composite LB7 and LB8 @ 0.5 1/14/2014	Composite LB6, LB9, LB10, and LB11 @ 0.5	1/14/2014	ug/kg	<2.0	6.6	18	1700	25	12	<1.0
Composite LB7 and LB8 @ 2.5	Composite LB6, LB9, LB10, and LB11 @ 2.5	1/14/2014	ug/kg	<2.0	<2.0	<2.0	43	<2.0	<2.0	<1.0
1/14/2014 ug/kg 2.0 2.	Composite LB7 and LB8 @ 0.5	1/14/2014	ug/kg	<2.0	14	<2.0	<2.0	<2.0	<2.0	<1.0
1/14/2014 1/14	Composite LB7 and LB8 @ 2.5	1/14/2014	ug/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0
LB19-0.5	LB14-0.5	1/14/2014	ug/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0
LB19-2.5	LB14-2.5	1/14/2014	ug/kg	<2.0	64	50	49	<2.0	<2.0	<1.0
LB20-0.5	LB19-0.5	1/14/2014	ug/kg	<2.0	1300	360	<2.0	<2.0	<2.0	<1.0
LB20-10	LB19-2.5	1/14/2014	ug/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0
LB20-2.5	LB20-0.5	1/14/2014	ug/kg	<2.0	280	64	6.9	<2.0	<2.0	<1.0
1/14/2014 1/2014	LB20-10	1/14/2014	ug/kg	<2.0	69	7.3	<2.0	<2.0	<2.0	<1.0
LB20-5	LB20-2.5		0. 0	<2.0	210	19	7.3	<2.0	<2.0	<1.0
LB20-7.5	LB20-5		ŭ. ŭ		280	28		<2.0		<1.0
LB23-0.5			<u> </u>							
LB23-2.5			Ċ,						_	
LB28-0.5			ŭ. ŭ							
LB28-2.5			ŭ. ŭ		_					
LB29-0.5			<u> </u>				_	_	-	
LB29-2.5			<i>0,</i> 0							
LB30-0.5 1/14/2014 ug/kg <2.0 31 78 74 <2.0 <2.0 170 LB30-2.5 1/14/2014 ug/kg <2.0			0. 0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0
LB30-2.5			ŭ. ŭ							
LB31-0.5	LB30-2.5		ŭ. ŭ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0
LB31-2.5 1/14/2014 ug/kg <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <1.0 CHHSLs residential ug/kg 2300 1600 1600 35 21000 NA NA CHHSLS commercial ug/kg 9000 6300 6300 130 230000 NA NA RSLs residential ug/kg 2000 1400 1700 30 18000 NA NA			0. 0							
CHHSLs residential ug/kg 2300 1600 1600 35 21000 NA NA CHHSLS commercial ug/kg 9000 6300 6300 130 230000 NA NA RSLs residential ug/kg 2000 1400 1700 30 18000 NA NA			0. 0							
CHHSLS commercial ug/kg 9000 6300 6300 130 230000 NA NA RSLs residential ug/kg 2000 1400 1700 30 18000 NA NA	CHHSI's residential		U. U	2300	1600	1600	35	21000	NA	NA
RSLs residential ug/kg 2000 1400 1700 30 18000 NA NA			0. 0							
18, 8										
	RSLs commercial		ug/kg ug/kg	7200	5100	7000	110			NA

C8-C40 = Carbon chain C8-C40

<2.0 = Not dected above laboratory reporting limit

ug/kg = Micrograms per kilogram

CHHSLs = California Environmental Protection Agency (CalEPA) California Human Health Screening Levels (CHHSLs), Updated January 2010

RSL = US EPA Regional Screening Level (November 2013)



January 22, 2014

Brynn McCulloch Leighton Consulting, Inc. 17781 Cowan Street

Irvine, CA 92614 Tel: (949) 394-2306 Fax:(949) 250-1114 ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No.: T104704502

Re: ATL Work Order Number: 1400125

Client Reference: Stratham Homes, 10557.003

Enclosed are the results for sample(s) received on January 15, 2014 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez

Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LB1-0.5	1400125-01	Soil	1/14/14 7:50	1/15/14 11:50
LB2-0.5	1400125-03	Soil	1/14/14 8:00	1/15/14 11:50
LB3-0.5	1400125-05	Soil	1/14/14 8:07	1/15/14 11:50
LB4-0.5	1400125-07	Soil	1/14/14 8:15	1/15/14 11:50
LB5-0.5	1400125-09	Soil	1/14/14 8:18	1/15/14 11:50
LB6-0.5	1400125-11	Soil	1/14/14 8:22	1/15/14 11:50
LB7-0.5	1400125-13	Soil	1/14/14 11:56	1/15/14 11:50
LB8-0.5	1400125-15	Soil	1/14/14 12:05	1/15/14 11:50
LB9-0.5	1400125-17	Soil	1/14/14 8:33	1/15/14 11:50
LB10-0.5	1400125-19	Soil	1/14/14 8:40	1/15/14 11:50
LB11-0.5	1400125-21	Soil	1/14/14 8:43	1/15/14 11:50
LB12-0.5	1400125-23	Soil	1/14/14 8:50	1/15/14 11:50
LB13-0.5	1400125-25	Soil	1/14/14 8:53	1/15/14 11:50
LB14-0.5	1400125-27	Soil	1/14/14 12:15	1/15/14 11:50
LB14-2.5	1400125-28	Soil	1/14/14 12:15	1/15/14 11:50
LB15-0.5	1400125-29	Soil	1/14/14 9:55	1/15/14 11:50
LB16-0.5	1400125-31	Soil	1/14/14 10:00	1/15/14 11:50
LB17-0.5	1400125-33	Soil	1/14/14 10:04	1/15/14 11:50
LB18-0.5	1400125-35	Soil	1/14/14 10:10	1/15/14 11:50
LB19-0.5	1400125-37	Soil	1/14/14 9:22	1/15/14 11:50
LB19-2.5	1400125-38	Soil	1/14/14 9:22	1/15/14 11:50
LB20-0.5	1400125-39	Soil	1/14/14 9:27	1/15/14 11:50
LB20-2.5	1400125-40	Soil	1/14/14 9:27	1/15/14 11:50
LB20-5	1400125-41	Soil	1/14/14 15:50	1/15/14 11:50
LB20-7.5	1400125-42	Soil	1/14/14 15:55	1/15/14 11:50
LB20-10	1400125-43	Soil	1/14/14 16:00	1/15/14 11:50
LB21-0.5	1400125-44	Soil	1/14/14 9:31	1/15/14 11:50
LB22-0.5	1400125-46	Soil	1/14/14 9:36	1/15/14 11:50
LB23-0.5	1400125-48	Soil	1/14/14 9:40	1/15/14 11:50
LB23-2.5	1400125-49	Soil	1/14/14 9:40	1/15/14 11:50
LB24-0.5	1400125-50	Soil	1/14/14 10:20	1/15/14 11:50
LB24-5'	1400125-51	Soil	1/14/14 10:23	1/15/14 11:50
LB24-10	1400125-52	Soil	1/14/14 10:27	1/15/14 11:50
LB24-16	1400125-53	Soil	1/14/14 10:30	1/15/14 11:50
LB25-0.5	1400125-54	Soil	1/14/14 11:42	1/15/14 11:50
LB25-5	1400125-55	Soil	1/14/14 11:45	1/15/14 11:50
LB25-10	1400125-56	Soil	1/14/14 11:48	1/15/14 11:50



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc. 17781 Cowan Street Report To: Brynn McCulloch Irvine, CA 92614 Reported: 01/22/2014 LB25-16 1400125-57 Soil 1/14/14 11:50 1/15/14 11:50 LB26-0.5 Soil 1400125-58 1/14/14 10:48 1/15/14 11:50 Soil LB26-5 1400125-59 1/14/14 10:50 1/15/14 11:50 LB26-10 1400125-60 Soil 1/14/14 11:11 1/15/14 11:50 1400125-61 Soil LB26-16 1/14/14 11:14 1/15/14 11:50 Soil LB27-0.5 1400125-62 1/14/14 11:35 1/15/14 11:50 LB27-5 1400125-63 Soil 1/14/14 11:38 1/15/14 11:50 LB27-10 Soil 1400125-64 1/14/14 11:29 1/15/14 11:50 Soil LB27-16 1400125-65 1/14/14 11:31 1/15/14 11:50 LB28-0.5 1400125-66 Soil 1/14/14 9:10 1/15/14 11:50 LB28-2.5 1400125-67 Soil 1/14/14 9:10 1/15/14 11:50 Soil LB29-0.5 1400125-68 1/14/14 9:05 1/15/14 11:50 LB29-2.5 Soil 1400125-69 1/14/14 9:05 1/15/14 11:50 LB30-0.5 1400125-70 Soil 1/14/14 9:15 1/15/14 11:50 Soil LB30-2.5 1400125-71 1/14/14 9:15 1/15/14 11:50 LB31-0.5 1400125-72 Soil 1/14/14 9:50 1/15/14 11:50 Soil LB31-2.5 1400125-73 1/14/14 9:50 1/15/14 11:50 LB32-5.0 1400125-75 Soil 1/14/14 15:20 1/15/14 11:50 1400125-77 Composite LB1 through LB5 @ 0.5 Soil 1/14/14 0:00 1/15/14 11:50 Composite LB1 through LB5 @ 2.5 Soil 1/14/14 0:00 1400125-78 1/15/14 11:50 Composite LB6, LB9, LB10, and LB1 1400125-79 Soil 1/14/14 0:00 1/15/14 11:50 Composite LB6, LB9, LB10, and LB1 1400125-80 Soil 1/14/14 0:00 1/15/14 11:50 Composite LB7 and LB8 @ 0.5 1400125-81 Soil 1/14/14 0:00 1/15/14 11:50 Composite LB7 and LB8 @ 2.5 Soil 1400125-82 1/14/14 0:00 1/15/14 11:50 Composite LB12 and LB13 @ 0.5 1400125-83 Soil 1/14/14 0:00 1/15/14 11:50 Composite LB12 and LB13 @ 2.5 Soil 1/14/14 0:00 1400125-84 1/15/14 11:50 Composite LB15 and LB16 @ 0.5 Soil 1400125-85 1/14/14 0:00 1/15/14 11:50 Composite LB15 and LB16 @ 2.5 Soil 1/14/14 0:00 1400125-86 1/15/14 11:50 Soil Composite LB17 and LB18 @ 0.5 1400125-87 1/14/14 0:00 1/15/14 11:50 Composite LB17 and LB18 @ 2.5 Soil 1/14/14 0:00 1400125-88 1/15/14 11:50 Composite LB21 and LB22 @ 0.5 Soil 1/14/14 0:00 1/15/14 11:50 1400125-89 Composite LB21 and LB22 @ 2.5 1400125-90 Soil 1/14/14 0:00 1/15/14 11:50



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB1-0.5 Lab ID: 1400125-01

Total Metals by ICP-AES EPA 6010B

	Result	PQL	MDL				Date/Time	
Analyte	(mg/kg)	(mg/kg)	(mg/kg)	Dilution	Batch	Prepared	Analyzed	Notes
Lead	6.5	1.0	NA	1	B4A0286	01/20/2014	01/21/14 14:24	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

> **Client Sample ID LB2-0.5** Lab ID: 1400125-03

Total Metals by ICP-AES EPA 6010B

	Result	PQL	MDL				Date/Time	
Analyte	(mg/kg)	(mg/kg)	(mg/kg)	Dilution	Batch	Prepared	Analyzed	Notes
Lead	5.2	1.0	NA	1	B4A0286	01/20/2014	01/21/14 14:31	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB3-0.5 Lab ID: 1400125-05

Total Metals by ICP-AES EPA 6010B

	Result	PQL	MDL				Date/Time	
Analyte	(mg/kg)	(mg/kg)	(mg/kg)	Dilution	Batch	Prepared	Analyzed	Notes
Lead	17	1.0	NA	1	B4A0286	01/20/2014	01/21/14 14:33	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB4-0.5 Lab ID: 1400125-07

Total Metals by ICP-AES EPA 6010B

	Result	PQL	MDL				Date/Time	
Analyte	(mg/kg)	(mg/kg)	(mg/kg)	Dilution	Batch	Prepared	Analyzed	Notes
Lead	9.6	1.0	NA	1	B4A0286	01/20/2014	01/21/14 14:35	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

> **Client Sample ID LB5-0.5** Lab ID: 1400125-09

Total Metals by ICP-AES EPA 6010B

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	13	1.0	NA	1	B4A0286	01/20/2014	01/21/14 14:36	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB6-0.5 Lab ID: 1400125-11

Total Metals by ICP-AES EPA 6010B

	Result	PQL	MDL				Date/Time	
Analyte	(mg/kg)	(mg/kg)	(mg/kg)	Dilution	Batch	Prepared	Analyzed	Notes
Lead	21	1.0	NA	1	B4A0286	01/20/2014	01/21/14 14:38	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB7-0.5 Lab ID: 1400125-13

Total Metals by ICP-AES EPA 6010B

	Result	PQL	MDL				Date/Time	
Analyte	(mg/kg)	(mg/kg)	(mg/kg)	Dilution	Batch	Prepared	Analyzed	Notes
Lead	5.7	1.0	NA	1	B4A0286	01/20/2014	01/21/14 14:40	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

> **Client Sample ID LB8-0.5** Lab ID: 1400125-15

Total Metals by ICP-AES EPA 6010B

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	3.9	1.0	NA	1	B4A0286	01/20/2014	01/21/14 14:41	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB9-0.5 Lab ID: 1400125-17

Total Metals by ICP-AES EPA 6010B

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	20	1.0	NA	1	B4A0286	01/20/2014	01/21/14 14:43	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

> **Client Sample ID LB10-0.5** Lab ID: 1400125-19

Total Metals by ICP-AES EPA 6010B

	Result	PQL	MDL				Date/Time	
Analyte	(mg/kg)	(mg/kg)	(mg/kg)	Dilution	Batch	Prepared	Analyzed	Notes
Lead	4.8	1.0	NA	1	B4A0286	01/20/2014	01/21/14 14:48	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB11-0.5 Lab ID: 1400125-21

Total Metals by ICP-AES EPA 6010B

	Result	PQL	MDL				Date/Time	
Analyte	(mg/kg)	(mg/kg)	(mg/kg)	Dilution	Batch	Prepared	Analyzed	Notes
Lead	33	1.0	NA	1	B4A0286	01/20/2014	01/21/14 14:49	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB12-0.5 Lab ID: 1400125-23

Total Metals by ICP-AES EPA 6010B

	Result	PQL	MDL				Date/Time	
Analyte	(mg/kg)	(mg/kg)	(mg/kg)	Dilution	Batch	Prepared	Analyzed	Notes
Lead	12	1.0	NA	1	B4A0286	01/20/2014	01/21/14 14:51	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB13-0.5 Lab ID: 1400125-25

Total Metals by ICP-AES EPA 6010B

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	11	1.0	NA	1	B4A0286	01/20/2014	01/21/14 14:52	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB14-0.5 Lab ID: 1400125-27

Total Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	3.1	1.0	NA	1	B4A0286	01/20/2014	01/21/14 14:54	

Organochlorine Pesticides by EPA 8081

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 15:58	
4,4′-DDE	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 15:58	
4,4'-DDT	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 15:58	
Aldrin	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 15:58	
alpha-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 15:58	
alpha-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 15:58	
beta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 15:58	
Chlordane	ND	8.5	NA	1	B4A0215	01/16/2014	01/16/14 15:58	
delta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 15:58	
Dieldrin	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 15:58	
Endosulfan I	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 15:58	
Endosulfan II	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 15:58	
Endosulfan sulfate	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 15:58	
Endrin	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 15:58	
Endrin aldehyde	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 15:58	
Endrin ketone	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 15:58	
gamma-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 15:58	
gamma-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 15:58	
Heptachlor	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 15:58	
Heptachlor epoxide	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 15:58	
Methoxychlor	ND	5.0	NA	1	B4A0215	01/16/2014	01/16/14 15:58	
Toxaphene	ND	50	NA	1	B4A0215	01/16/2014	01/16/14 15:58	
Surrogate: Decachlorobiphenyl	93.1 %	29	- 143		B4A0215	01/16/2014	01/16/14 15:58	
Surrogate: Tetrachloro-m-xylene	89.5 %	52	- 114		B4A0215	01/16/2014	01/16/14 15:58	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB14-2.5 Lab ID: 1400125-28

Organochlorine Pesticides by EPA 8081

	Result	PQL	MDL				Date/Time	Notes
Analyte	(ug/kg)	(ug/kg)	(ug/kg)	Dilution	Batch	Prepared	Analyzed	Notes
4,4´-DDD	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:11	
4,4´-DDE	64	20	NA	10	B4A0215	01/16/2014	01/17/14 10:57	
4,4′-DDT	50	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:11	
Aldrin	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:11	
alpha-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:11	
alpha-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:11	
beta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:11	
Chlordane	ND	8.5	NA	1	B4A0215	01/16/2014	01/16/14 16:11	
delta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:11	
Dieldrin	49	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:11	
Endosulfan I	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:11	
Endosulfan II	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:11	
Endosulfan sulfate	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:11	
Endrin	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:11	
Endrin aldehyde	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:11	
Endrin ketone	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:11	
gamma-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:11	
gamma-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:11	
Heptachlor	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:11	
Heptachlor epoxide	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:11	
Methoxychlor	ND	5.0	NA	1	B4A0215	01/16/2014	01/16/14 16:11	
Toxaphene	ND	50	NA	1	B4A0215	01/16/2014	01/16/14 16:11	
Surrogate: Decachlorobiphenyl	103 %	29	- 143		B4A0215	01/16/2014	01/17/14 10:57	
Surrogate: Decachlorobiphenyl	107 %	29	- 143		B4A0215	01/16/2014	01/16/14 16:11	
Surrogate: Tetrachloro-m-xylene	84.5 %	52	- 114		B4A0215	01/16/2014	01/17/14 10:57	
Surrogate: Tetrachloro-m-xylene	86.1 %	52	- 114		B4A0215	01/16/2014	01/16/14 16:11	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB15-0.5 Lab ID: 1400125-29

Total Metals by ICP-AES EPA 6010B

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	5.7	1.0	NA	1	B4A0286	01/20/2014	01/21/14 14:56	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB16-0.5 Lab ID: 1400125-31

Total Metals by ICP-AES EPA 6010B

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	2.8	1.0	NA	1	B4A0286	01/20/2014	01/21/14 14:57	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB17-0.5 Lab ID: 1400125-33

Total Metals by ICP-AES EPA 6010B

	Result	PQL	MDL				Date/Time	
Analyte	(mg/kg)	(mg/kg)	(mg/kg)	Dilution	Batch	Prepared	Analyzed	Notes
Lead	32	1.0	NA	1	B4A0286	01/20/2014	01/21/14 14:59	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB18-0.5 Lab ID: 1400125-35

Total Metals by ICP-AES EPA 6010B

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	9.8	1.0	NA	1	B4A0286	01/20/2014	01/21/14 15:01	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB19-0.5 Lab ID: 1400125-37

Total Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte Lead	(mg/kg)	(mg/kg)	(mg/kg) NA	Dilution	Batch B4A0286	Prepared 01/20/2014	Analyzed 01/21/14 15:02	Notes
	Result	PQL	MDL				Date/Time	

Organochlorine Pesticides by EPA 8081

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:25	
4,4'-DDE	1300	200	NA	100	B4A0215	01/16/2014	01/17/14 11:11	
4,4′-DDT	360	200	NA	100	B4A0215	01/16/2014	01/17/14 11:11	
Aldrin	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:25	
alpha-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:25	
alpha-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:25	
beta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:25	
Chlordane	ND	8.5	NA	1	B4A0215	01/16/2014	01/16/14 16:25	
delta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:25	
Dieldrin	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:25	
Endosulfan I	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:25	
Endosulfan II	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:25	
Endosulfan sulfate	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:25	
Endrin	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:25	
Endrin aldehyde	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:25	
Endrin ketone	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:25	
gamma-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:25	
gamma-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:25	
Heptachlor	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:25	
Heptachlor epoxide	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:25	
Methoxychlor	ND	5.0	NA	1	B4A0215	01/16/2014	01/16/14 16:25	
Гохарһепе	ND	50	NA	1	B4A0215	01/16/2014	01/16/14 16:25	
Surrogate: Decachlorobiphenyl	0%	29	- 143		B4A0215	01/16/2014	01/17/14 11:11	S4
Surrogate: Decachlorobiphenyl	97.2 %	29	- 143		B4A0215	01/16/2014	01/16/14 16:25	
Surrogate: Tetrachloro-m-xylene	0%	52	- 114		B4A0215	01/16/2014	01/17/14 11:11	S4
Surrogate: Tetrachloro-m-xylene	72.0 %	52	- 114		B4A0215	01/16/2014	01/16/14 16:25	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

Report To: Brynn McCulloch 17781 Cowan Street

Irvine, CA 92614 Reported: 01/22/2014

> **Client Sample ID LB19-2.5** Lab ID: 1400125-38

Organochlorine Pesticides by EPA 8081

Analyst: PIL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:39	
4,4´-DDE	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:39	
4,4´-DDT	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:39	
Aldrin	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:39	
alpha-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:39	
alpha-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:39	
beta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:39	
Chlordane	ND	8.5	NA	1	B4A0215	01/16/2014	01/16/14 16:39	
delta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:39	
Dieldrin	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:39	
Endosulfan I	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:39	
Endosulfan II	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:39	
Endosulfan sulfate	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:39	
Endrin	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:39	
Endrin aldehyde	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:39	
Endrin ketone	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:39	
gamma-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:39	
gamma-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:39	
Heptachlor	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:39	
Heptachlor epoxide	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:39	
Methoxychlor	ND	5.0	NA	1	B4A0215	01/16/2014	01/16/14 16:39	
Toxaphene	ND	50	NA	1	B4A0215	01/16/2014	01/16/14 16:39	
Surrogate: Decachlorobiphenyl	103 %	29	- 143		B4A0215	01/16/2014	01/16/14 16:39	
Surrogate: Tetrachloro-m-xylene	94.4 %	52	- 114		B4A0215	01/16/2014	01/16/14 16:39	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB20-0.5 Lab ID: 1400125-39

Total Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	16	1.0	NA	1	B4A0286	01/20/2014	01/21/14 15:07	

Organochlorine Pesticides by EPA 8081

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:53	
4,4′-DDE	280	20	NA	10	B4A0215	01/16/2014	01/17/14 11:24	
4,4′-DDT	64	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:53	
Aldrin	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:53	
alpha-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:53	
alpha-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:53	
peta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:53	
Chlordane	ND	8.5	NA	1	B4A0215	01/16/2014	01/16/14 16:53	
delta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:53	
Dieldrin	6.9	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:53	
Endosulfan I	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:53	
Endosulfan II	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:53	
Endosulfan sulfate	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:53	
Endrin	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:53	
Endrin aldehyde	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:53	
Endrin ketone	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 16:53	
gamma-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:53	
gamma-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:53	
Heptachlor	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:53	
Heptachlor epoxide	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 16:53	
Methoxychlor	ND	5.0	NA	1	B4A0215	01/16/2014	01/16/14 16:53	
Гохарһепе	ND	50	NA	1	B4A0215	01/16/2014	01/16/14 16:53	
Surrogate: Decachlorobiphenyl	89.4 %	29	- 143		B4A0215	01/16/2014	01/17/14 11:24	
Surrogate: Decachlorobiphenyl	96.2 %	29	- 143		B4A0215	01/16/2014	01/16/14 16:53	
Surrogate: Tetrachloro-m-xylene	70.8 %	52	- 114		B4A0215	01/16/2014	01/16/14 16:53	
Surrogate: Tetrachloro-m-xylene	59.9 %	52	- 114		B4A0215	01/16/2014	01/17/14 11:24	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB20-2.5 Lab ID: 1400125-40

Organochlorine Pesticides by EPA 8081

	Result	PQL	MDL				Date/Time	
Analyte	(ug/kg)	(ug/kg)	(ug/kg)	Dilution	Batch	Prepared	Analyzed	Notes
4,4′-DDD	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 16:40	
4,4´-DDE	210	20	NA	10	B4A0222	01/16/2014	01/17/14 11:26	
4,4'-DDT [2C]	20	2.0	NA	1	B4A0222	01/16/2014	01/16/14 16:40	
Aldrin	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 16:40	
alpha-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 16:40	
alpha-Chlordane	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 16:40	
beta-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 16:40	
Chlordane	ND	8.5	NA	1	B4A0222	01/16/2014	01/16/14 16:40	
delta-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 16:40	
Dieldrin	7.3	2.0	NA	1	B4A0222	01/16/2014	01/16/14 16:40	
Endosulfan I	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 16:40	
Endosulfan II	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 16:40	
Endosulfan sulfate	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 16:40	
Endrin	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 16:40	
Endrin aldehyde	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 16:40	
Endrin ketone	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 16:40	
gamma-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 16:40	
gamma-Chlordane	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 16:40	
Heptachlor	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 16:40	
Heptachlor epoxide	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 16:40	
Methoxychlor	ND	5.0	NA	1	B4A0222	01/16/2014	01/16/14 16:40	
Toxaphene	ND	50	NA	1	B4A0222	01/16/2014	01/16/14 16:40	
Surrogate: Decachlorobiphenyl	93.3 %	29	- 143		B4A0222	01/16/2014	01/17/14 11:26	
Surrogate: Decachlorobiphenyl	89.6 %	29	- 143		B4A0222	01/16/2014	01/16/14 16:40	
Surrogate: Tetrachloro-m-xylene	76.4 %	52	- 114		B4A0222	01/16/2014	01/17/14 11:26	
Surrogate: Tetrachloro-m-xylene	70.9 %	52	- 114		B4A0222	01/16/2014	01/16/14 16:40	



Leighton Consulting, Inc. Project Number: Stratham Homes, 10557.003

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB20-5 Lab ID: 1400125-41

Title 22 Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B4A0287	01/20/2014	01/21/14 12:43	
Arsenic	5.8	1.0	NA	1	B4A0287	01/20/2014	01/21/14 12:43	
Barium	56	1.0	NA	1	B4A0287	01/20/2014	01/21/14 12:43	
Beryllium	ND	1.0	NA	1	B4A0287	01/20/2014	01/21/14 12:43	
Cadmium	ND	1.0	NA	1	B4A0287	01/20/2014	01/21/14 12:43	
Chromium	15	1.0	NA	1	B4A0287	01/20/2014	01/21/14 12:43	
Cobalt	6.3	1.0	NA	1	B4A0287	01/20/2014	01/21/14 12:43	
Copper	21	2.0	NA	1	B4A0287	01/20/2014	01/21/14 12:43	
Lead	33	1.0	NA	1	B4A0287	01/20/2014	01/21/14 12:43	
Molybdenum	ND	1.0	NA	1	B4A0287	01/20/2014	01/21/14 12:43	
Nickel	12	1.0	NA	1	B4A0287	01/20/2014	01/21/14 12:43	
Selenium	ND	1.0	NA	1	B4A0287	01/20/2014	01/21/14 12:43	
Silver	ND	1.0	NA	1	B4A0287	01/20/2014	01/21/14 12:43	
Thallium	ND	1.0	NA	1	B4A0287	01/20/2014	01/21/14 12:43	
Vanadium	29	1.0	NA	1	B4A0287	01/20/2014	01/21/14 12:43	
Zinc	330	1.0	NA	1	B4A0287	01/20/2014	01/21/14 12:43	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B4A0272	01/21/2014	01/21/14 12:59	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C6-C12	ND	1.0	NA	1	B4A0266	01/20/2014	01/20/14 12:35	
Surrogate: 4-Bromofluorobenzene	99.5 %	48	- 137	·	B4A0266	01/20/2014	01/20/14 12:35	

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C8-C10	12	10	NA	1	B4A0245	01/17/2014	01/18/14 04:58	
T/R Hydrocarbons: C10-C18	11	10	NA	1	B4A0245	01/17/2014	01/18/14 04:58	
T/R Hydrocarbons: C18-C28	13	10	NA	1	B4A0245	01/17/2014	01/18/14 04:58	



Leighton Consulting, Inc. Project Number: Stratham Homes, 10557.003

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB20-5 Lab ID: 1400125-41

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C28-C36	27	10	NA	1	B4A0245	01/17/2014	01/18/14 04:58	
T/R Hydrocarbons: C36-C40	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 04:58	
T/R Hydrocarbons: C8-C40 Total (HS	64	10	NA	1	B4A0245	01/17/2014	01/18/14 04:58	
Surrogate: p-Terphenvl	83.0 %	55	- 140		B4A0245	01/17/2014	01/18/14 04:58	

Organochlorine Pesticides by EPA 8081

	Result	PQL	MDL				Date/Time	
Analyte	(ug/kg)	(ug/kg)	(ug/kg)	Dilution	Batch	Prepared	Analyzed	Notes
4,4′-DDD	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 16:53	
4,4'-DDE	280	20	NA	10	B4A0222	01/16/2014	01/17/14 11:40	
4,4'-DDT [2C]	29	2.0	NA	1	B4A0222	01/16/2014	01/16/14 16:53	
Aldrin	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 16:53	
alpha-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 16:53	
alpha-Chlordane	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 16:53	
beta-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 16:53	
Chlordane	ND	8.5	NA	1	B4A0222	01/16/2014	01/16/14 16:53	
delta-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 16:53	
Dieldrin	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 16:53	
Endosulfan I	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 16:53	
Endosulfan II	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 16:53	
Endosulfan sulfate	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 16:53	
Endrin	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 16:53	
Endrin aldehyde	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 16:53	
Endrin ketone	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 16:53	
gamma-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 16:53	
gamma-Chlordane	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 16:53	
Heptachlor	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 16:53	
Heptachlor epoxide	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 16:53	
Methoxychlor	ND	5.0	NA	1	B4A0222	01/16/2014	01/16/14 16:53	
Toxaphene	ND	50	NA	1	B4A0222	01/16/2014	01/16/14 16:53	
Surrogate: Decachlorobiphenyl	78.1 %	29	- 143		B4A0222	01/16/2014	01/16/14 16:53	
Surrogate: Decachlorobiphenyl	90.1 %	29	- 143		B4A0222	01/16/2014	01/17/14 11:40	
Surrogate: Tetrachloro-m-xylene	78.6 %	52	- 114		B4A0222	01/16/2014	01/17/14 11:40	
Surrogate: Tetrachloro-m-xylene	73.5 %	52	- 114		B4A0222	01/16/2014	01/16/14 16:53	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB20-7.5 Lab ID: 1400125-42

Title 22 Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B4A0287	01/20/2014	01/21/14 13:51	
Arsenic	5.3	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:51	
Barium	56	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:51	
Beryllium	ND	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:51	
Cadmium	ND	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:51	
Chromium	14	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:51	
Cobalt	6.5	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:51	
Copper	21	2.0	NA	1	B4A0287	01/20/2014	01/21/14 13:51	
Lead	29	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:51	
Molybdenum	ND	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:51	
Nickel	12	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:51	
Selenium	ND	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:51	
Silver	ND	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:51	
Thallium	ND	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:51	
Vanadium	30	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:51	
Zinc	120	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:51	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B4A0272	01/21/2014	01/21/14 13:09	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C6-C12	ND	1.0	NA	1	B4A0266	01/20/2014	01/20/14 12:51	
Surrogate: 4-Bromofluorobenzene	92.9 %	48	- 137		B4A0266	01/20/2014	01/20/14 12:51	

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C8-C10	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 03:51	
T/R Hydrocarbons: C10-C18	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 03:51	
T/R Hydrocarbons: C18-C28	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 03:51	



Leighton Consulting, Inc. Project Number: Stratham Homes, 10557.003

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB20-7.5 Lab ID: 1400125-42

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C28-C36	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 03:51	
T/R Hydrocarbons: C36-C40	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 03:51	
T/R Hydrocarbons: C8-C40 Total (HS)	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 03:51	
Surrogate: p-Terphenyl	79.5 %	55	- 140		B4A0245	01/17/2014	01/18/14 03:51	

Organochlorine Pesticides by EPA 8081

	Result	PQL	MDL				Date/Time	
Analyte	(ug/kg)	(ug/kg)	(ug/kg)	Dilution	Batch	Prepared	Analyzed	Notes
4,4′-DDD	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:07	
4,4'-DDE	63	20	NA	10	B4A0222	01/16/2014	01/17/14 11:54	
4,4'-DDT [2C]	7.1	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:07	
Aldrin	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:07	
alpha-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:07	
alpha-Chlordane	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:07	
beta-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:07	
Chlordane	ND	8.5	NA	1	B4A0222	01/16/2014	01/16/14 17:07	
delta-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:07	
Dieldrin	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:07	
Endosulfan I	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:07	
Endosulfan II	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:07	
Endosulfan sulfate	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:07	
Endrin	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:07	
Endrin aldehyde	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:07	
Endrin ketone	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:07	
gamma-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:07	
gamma-Chlordane	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:07	
Heptachlor	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:07	
Heptachlor epoxide	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:07	
Methoxychlor	ND	5.0	NA	1	B4A0222	01/16/2014	01/16/14 17:07	
Toxaphene	ND	50	NA	1	B4A0222	01/16/2014	01/16/14 17:07	
Surrogate: Decachlorobiphenyl	85.2 %	29	- 143		B4A0222	01/16/2014	01/16/14 17:07	
Surrogate: Decachlorobiphenyl	92.1 %	29	- 143		B4A0222	01/16/2014	01/17/14 11:54	
Surrogate: Tetrachloro-m-xylene	80.7 %	52	- 114		B4A0222	01/16/2014	01/16/14 17:07	
Surrogate: Tetrachloro-m-xylene	85.7 %	52	- 114		B4A0222	01/16/2014	01/17/14 11:54	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB20-10 Lab ID: 1400125-43

Title 22 Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B4A0287	01/20/2014	01/21/14 13:53	
Arsenic	5.9	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:53	
Barium	59	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:53	
Beryllium	ND	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:53	
Cadmium	ND	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:53	
Chromium	17	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:53	
Cobalt	7.5	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:53	
Copper	19	2.0	NA	1	B4A0287	01/20/2014	01/21/14 13:53	
Lead	4.6	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:53	
Molybdenum	ND	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:53	
Nickel	14	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:53	
Selenium	ND	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:53	
Silver	ND	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:53	
Thallium	ND	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:53	
Vanadium	38	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:53	
Zinc	38	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:53	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B4A0272	01/21/2014	01/21/14 13:11	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C6-C12	ND	1.0	NA	1	B4A0266	01/20/2014	01/20/14 13:07	
Surrogate: 4-Bromofluorobenzene	101 %	48	- 137	·	B4A0266	01/20/2014	01/20/14 13:07	

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C8-C10	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 04:08	
T/R Hydrocarbons: C10-C18	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 04:08	
T/R Hydrocarbons: C18-C28	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 04:08	



Leighton Consulting, Inc. Project Number: Stratham Homes, 10557.003

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB20-10 Lab ID: 1400125-43

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C28-C36	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 04:08	
T/R Hydrocarbons: C36-C40	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 04:08	
T/R Hydrocarbons: C8-C40 Total (HS)	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 04:08	
Surrogate: p-Terphenyl	77.7 %	55	- 140		B4A0245	01/17/2014	01/18/14 04:08	

Organochlorine Pesticides by EPA 8081

	Result	PQL	MDL				Date/Time	
Analyte	(ug/kg)	(ug/kg)	(ug/kg)	Dilution	Batch	Prepared	Analyzed	Notes
4,4′-DDD	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:21	
4,4'-DDE	69	20	NA	10	B4A0222	01/16/2014	01/17/14 12:07	
4,4'-DDT [2C]	7.4	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:21	
Aldrin	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:21	
alpha-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:21	
alpha-Chlordane	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:21	
beta-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:21	
Chlordane	ND	8.5	NA	1	B4A0222	01/16/2014	01/16/14 17:21	
delta-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:21	
Dieldrin	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:21	
Endosulfan I	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:21	
Endosulfan II	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:21	
Endosulfan sulfate	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:21	
Endrin	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:21	
Endrin aldehyde	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:21	
Endrin ketone	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:21	
gamma-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:21	
gamma-Chlordane	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:21	
Heptachlor	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:21	
Heptachlor epoxide	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:21	
Methoxychlor	ND	5.0	NA	1	B4A0222	01/16/2014	01/16/14 17:21	
Toxaphene	ND	50	NA	1	B4A0222	01/16/2014	01/16/14 17:21	
Surrogate: Decachlorobiphenyl	91.8 %	29	- 143		B4A0222	01/16/2014	01/17/14 12:07	
Surrogate: Decachlorobiphenyl	81.4 %	29	- 143		B4A0222	01/16/2014	01/16/14 17:21	
Surrogate: Tetrachloro-m-xylene	83.0 %	52	- 114		B4A0222	01/16/2014	01/17/14 12:07	
Surrogate: Tetrachloro-m-xylene	78.9 %	52	- 114		B4A0222	01/16/2014	01/16/14 17:21	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB21-0.5 Lab ID: 1400125-44

Total Metals by ICP-AES EPA 6010B

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	10	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:54	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB22-0.5 Lab ID: 1400125-46

Total Metals by ICP-AES EPA 6010B

	Result	PQL	MDL				Date/Time	
Analyte	(mg/kg)	(mg/kg)	(mg/kg)	Dilution	Batch	Prepared	Analyzed	Notes
Lead	4.3	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:56	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB23-0.5 Lab ID: 1400125-48

Total Metals by ICP-AES EPA 6010B

Analyst: AG

	Result	PQL	MDL				Date/Time	
Analyte	(mg/kg)	(mg/kg)	(mg/kg)	Dilution	Batch	Prepared	Analyzed	Notes
Lead	7.9	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:57	

Organochlorine Pesticides by EPA 8081

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:35	
4,4′-DDE [2C]	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:35	
4,4´-DDT	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:35	
Aldrin	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:35	
alpha-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:35	
alpha-Chlordane	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:35	
beta-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:35	
Chlordane	ND	8.5	NA	1	B4A0222	01/16/2014	01/16/14 17:35	
delta-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:35	
Dieldrin	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:35	
Endosulfan I	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:35	
Endosulfan II	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:35	
Endosulfan sulfate	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:35	
Endrin	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:35	
Endrin aldehyde	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:35	
Endrin ketone	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:35	
gamma-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:35	
gamma-Chlordane	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:35	
Heptachlor	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:35	
Heptachlor epoxide	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:35	
Methoxychlor	ND	5.0	NA	1	B4A0222	01/16/2014	01/16/14 17:35	
Toxaphene	ND	50	NA	1	B4A0222	01/16/2014	01/16/14 17:35	
Surrogate: Decachlorobiphenyl	88.4 %	29	- 143		B4A0222	01/16/2014	01/16/14 17:35	
Surrogate: Tetrachloro-m-xylene	86.4 %	52	- 114		B4A0222	01/16/2014	01/16/14 17:35	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

> Client Sample ID LB23-2.5 Lab ID: 1400125-49

Organochlorine Pesticides by EPA 8081

Analyst: PIL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:48	
4,4´-DDE	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:48	
4,4´-DDT	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:48	
Aldrin	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:48	
alpha-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:48	
alpha-Chlordane	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:48	
beta-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:48	
Chlordane	ND	8.5	NA	1	B4A0222	01/16/2014	01/16/14 17:48	
delta-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:48	
Dieldrin	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:48	
Endosulfan I	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:48	
Endosulfan II	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:48	
Endosulfan sulfate	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:48	
Endrin	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:48	
Endrin aldehyde	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:48	
Endrin ketone	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 17:48	
gamma-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:48	
gamma-Chlordane	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:48	
Heptachlor	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:48	
Heptachlor epoxide	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 17:48	
Methoxychlor	ND	5.0	NA	1	B4A0222	01/16/2014	01/16/14 17:48	
Toxaphene	ND	50	NA	1	B4A0222	01/16/2014	01/16/14 17:48	
Surrogate: Decachlorobiphenyl	75.3 %	29	- 143		B4A0222	01/16/2014	01/16/14 17:48	
Surrogate: Tetrachloro-m-xylene	71.7 %	52	- 114		B4A0222	01/16/2014	01/16/14 17:48	



Leighton Consulting, Inc. Project Number: Stratham Homes, 10557.003

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB24-0.5 Lab ID: 1400125-50

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C6-C12	ND	1.0	NA	1	B4A0266	01/20/2014	01/20/14 13:23	
Surrogate: 4-Bromofluorobenzene	102 %	48	- 137		B4A0266	01/20/2014	01/20/14 13:23	

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C8-C10	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 04:25	
T/R Hydrocarbons: C10-C18	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 04:25	
T/R Hydrocarbons: C18-C28	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 04:25	
T/R Hydrocarbons: C28-C36	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 04:25	
T/R Hydrocarbons: C36-C40	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 04:25	
T/R Hydrocarbons: C8-C40 Total (HS)	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 04:25	
Surrogate: p-Terphenyl	81.6 %	55	- 140	•	B4A0245	01/17/2014	01/18/14 04:25	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB24-5' Lab ID: 1400125-51

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C6-C12	ND	1.0	NA	1	B4A0266	01/20/2014	01/20/14 13:39	
Surrogate: 4-Bromofluorobenzene	98 3 %	48	- 137		B4A0266	01/20/2014	01/20/14 13:39	

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C8-C10	ND	10	NA	1	B4A0245	01/17/2014	01/17/14 23:41	
T/R Hydrocarbons: C10-C18	ND	10	NA	1	B4A0245	01/17/2014	01/17/14 23:41	
T/R Hydrocarbons: C18-C28	ND	10	NA	1	B4A0245	01/17/2014	01/17/14 23:41	
T/R Hydrocarbons: C28-C36	ND	10	NA	1	B4A0245	01/17/2014	01/17/14 23:41	
T/R Hydrocarbons: C36-C40	ND	10	NA	1	B4A0245	01/17/2014	01/17/14 23:41	
T/R Hydrocarbons: C8-C40 Total (HS)	ND	10	NA	1	B4A0245	01/17/2014	01/17/14 23:41	
Surrogate: p-Terphenyl	74.5 %	55	- 140		B4A0245	01/17/2014	01/17/14 23:41	

Volatile Organic Compounds by EPA 8260B

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
1,1,1-Trichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
1,1,2-Trichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
1,1-Dichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
1,1-Dichloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
1,1-Dichloropropene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
1,2,3-Trichloropropane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
1,2,4-Trimethylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
1,2-Dibromoethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
1,2-Dichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
1,2-Dichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
1,2-Dichloropropane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
1,3-Dichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB24-5' Lab ID: 1400125-51

Volatile Organic Compounds by EPA 8260B

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,3-Dichloropropane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
1,4-Dichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
2,2-Dichloropropane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
2-Chlorotoluene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
4-Chlorotoluene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
4-Isopropyltoluene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Benzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Bromobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Bromochloromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Bromodichloromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Bromoform	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Bromomethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Carbon disulfide	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Carbon tetrachloride	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Chlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Chloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Chloroform	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Chloromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
cis-1,2-Dichloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Di-isopropyl ether	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Dibromochloromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Dibromomethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Dichlorodifluoromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Ethyl Acetate	ND	50	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Ethyl Ether	ND	50	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Ethyl tert-butyl ether	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Ethylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Freon-113	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Hexachlorobutadiene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Isopropylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
m,p-Xylene	ND	10	NA NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Methylene chloride	ND ND	5.0	NA NA	1	B4A0214	01/16/2014	01/16/14 17:21	
MTBE	ND ND	5.0	NA NA	1	B4A0214	01/16/2014	01/16/14 17:21	
n-Butylbenzene	ND ND	5.0	NA NA	1	B4A0214 B4A0214	01/16/2014	01/16/14 17:21	
·	ND ND							
n-Propylbenzene		5.0	NA NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Naphthalene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

> **Client Sample ID LB24-5'** Lab ID: 1400125-51

Volatile Organic Compounds by EPA 8260B

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
o-Xylene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
sec-Butylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Styrene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
tert-Amyl methyl ether	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
tert-Butanol	ND	100	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
tert-Butylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Tetrachloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Toluene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Trichloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Trichlorofluoromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Vinyl acetate	ND	50	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Vinyl chloride	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:21	
Surrogate: 1,2-Dichloroethane-d4	99.8 %	70	- 130		B4A0214	01/16/2014	01/16/14 17:21	
Surrogate: 4-Bromofluorobenzene	95.6 %	70	- 130		B4A0214	01/16/2014	01/16/14 17:21	
Surrogate: Dibromofluoromethane	102 %	70	- 130		B4A0214	01/16/2014	01/16/14 17:21	
Surrogate: Toluene-d8	96.8 %	70	- 130		B4A0214	01/16/2014	01/16/14 17:21	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB24-10 Lab ID: 1400125-52

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C6-C12	ND	1.0	NA	1	B4A0266	01/20/2014	01/20/14 13:55	
Surrogate: 4-Rromofluorobenzene	111 %	48	- 137		B4A0266	01/20/2014	01/20/14 13:55	

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C8-C10	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 00:32	
T/R Hydrocarbons: C10-C18	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 00:32	
T/R Hydrocarbons: C18-C28	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 00:32	
T/R Hydrocarbons: C28-C36	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 00:32	
T/R Hydrocarbons: C36-C40	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 00:32	
T/R Hydrocarbons: C8-C40 Total (HS)	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 00:32	
Surrogate: p-Terphenyl	74.1 %	55	- 140		B4A0245	01/17/2014	01/18/14 00:32	

Volatile Organic Compounds by EPA 8260B

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
1,1,1-Trichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
1,1,2-Trichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
1,1-Dichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
1,1-Dichloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
1,1-Dichloropropene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
1,2,3-Trichloropropane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
1,2,4-Trimethylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
1,2-Dibromoethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
1,2-Dichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
1,2-Dichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
1,2-Dichloropropane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
1,3-Dichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB24-10 Lab ID: 1400125-52

Volatile Organic Compounds by EPA 8260B

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,3-Dichloropropane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
1,4-Dichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
2,2-Dichloropropane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
2-Chlorotoluene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
4-Chlorotoluene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
4-Isopropyltoluene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Benzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Bromobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Bromochloromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Bromodichloromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Bromoform	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Bromomethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Carbon disulfide	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Carbon tetrachloride	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Chlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Chloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Chloroform	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Chloromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
cis-1,2-Dichloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Di-isopropyl ether	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Dibromochloromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Dibromomethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Dichlorodifluoromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Ethyl Acetate	ND	50	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Ethyl Ether	ND	50	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Ethyl tert-butyl ether	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Ethylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Freon-113	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Hexachlorobutadiene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Isopropylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
m,p-Xylene	ND	10	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Methylene chloride	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
MTBE	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
n-Butylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
n-Propylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Naphthalene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

> **Client Sample ID LB24-10** Lab ID: 1400125-52

Volatile Organic Compounds by EPA 8260B

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
o-Xylene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
sec-Butylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Styrene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
tert-Amyl methyl ether	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
tert-Butanol	ND	100	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
tert-Butylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Tetrachloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Toluene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Trichloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Trichlorofluoromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Vinyl acetate	ND	50	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Vinyl chloride	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 17:58	
Surrogate: 1,2-Dichloroethane-d4	106 %	70	- 130		B4A0214	01/16/2014	01/16/14 17:58	
Surrogate: 4-Bromofluorobenzene	98.0 %	70	- 130		B4A0214	01/16/2014	01/16/14 17:58	
Surrogate: Dibromofluoromethane	103 %	70	- 130		B4A0214	01/16/2014	01/16/14 17:58	
Surrogate: Toluene-d8	102 %	70	- 130		B4A0214	01/16/2014	01/16/14 17:58	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB24-16 Lab ID: 1400125-53

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C6-C12	ND	1.0	NA	1	B4A0266	01/20/2014	01/20/14 14:11	
Surrogate: 4-Bromofluorobenzene	101 %	48	- 137		B4A0266	01/20/2014	01/20/14 14:11	

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C8-C10	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 00:48	
T/R Hydrocarbons: C10-C18	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 00:48	
T/R Hydrocarbons: C18-C28	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 00:48	
T/R Hydrocarbons: C28-C36	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 00:48	
T/R Hydrocarbons: C36-C40	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 00:48	
T/R Hydrocarbons: C8-C40 Total (HS)	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 00:48	
Surrogate: p-Terphenyl	76.8 %	55	- 140		B4A0245	01/17/2014	01/18/14 00:48	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB25-0.5 Lab ID: 1400125-54

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C6-C12	ND	1.0	NA	1	B4A0266	01/20/2014	01/20/14 14:27	
Surrogate: 4-Bromofluorobenzene	97.6 %	48	- 137		B4A0266	01/20/2014	01/20/14 14:27	

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C8-C10	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 04:41	
T/R Hydrocarbons: C10-C18	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 04:41	
T/R Hydrocarbons: C18-C28	16	10	NA	1	B4A0245	01/17/2014	01/18/14 04:41	
T/R Hydrocarbons: C28-C36	68	10	NA	1	B4A0245	01/17/2014	01/18/14 04:41	
T/R Hydrocarbons: C36-C40	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 04:41	
T/R Hydrocarbons: C8-C40 Total (HS	85	10	NA	1	B4A0245	01/17/2014	01/18/14 04:41	
Surrogate: p-Terphenyl	87.6 %	55	- 140		B4A0245	01/17/2014	01/18/14 04:41	



Leighton Consulting, Inc. Project Number: Stratham Homes, 10557.003

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB25-5 Lab ID: 1400125-55

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C6-C12	ND	1.0	NA	1	B4A0266	01/20/2014	01/20/14 14:43	
Surrogate: 4-Rromofluorobenzene	108 %	48	- 137		B4A0266	01/20/2014	01/20/14 14:43	

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C8-C10	ND	10	NA	1	B4A0245	01/17/2014	01/17/14 23:58	
T/R Hydrocarbons: C10-C18	ND	10	NA	1	B4A0245	01/17/2014	01/17/14 23:58	
T/R Hydrocarbons: C18-C28	ND	10	NA	1	B4A0245	01/17/2014	01/17/14 23:58	
T/R Hydrocarbons: C28-C36	ND	10	NA	1	B4A0245	01/17/2014	01/17/14 23:58	
T/R Hydrocarbons: C36-C40	ND	10	NA	1	B4A0245	01/17/2014	01/17/14 23:58	
T/R Hydrocarbons: C8-C40 Total (HS)	ND	10	NA	1	B4A0245	01/17/2014	01/17/14 23:58	
Surrogate: p-Terphenyl	83.3 %	5.5	- 140		B4A0245	01/17/2014	01/17/14 23:58	

Volatile Organic Compounds by EPA 8260B

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:17	
1,1,1-Trichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:17	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:17	
1,1,2-Trichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:17	
1,1-Dichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:17	
1,1-Dichloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:17	
1,1-Dichloropropene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:17	
1,2,3-Trichloropropane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:17	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:17	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:17	
1,2,4-Trimethylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:17	
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B4A0214	01/16/2014	01/16/14 18:17	
1,2-Dibromoethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:17	
1,2-Dichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:17	
1,2-Dichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:17	
1,2-Dichloropropane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:17	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:17	
1,3-Dichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:17	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

> **Client Sample ID LB25-5** Lab ID: 1400125-55

Volatile Organic Compounds by EPA 8260B

Analyte (ug/kg) (ug/kg) (ug/kg) Dilution Batch Prepared Analyzed	Notes
	110105
1,3-Dichloropropane ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
1,4-Dichlorobenzene ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
2,2-Dichloropropane ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
2-Chlorotoluene ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
4-Chlorotoluene ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
4-Isopropyltoluene ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
Benzene ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
Bromobenzene ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
Bromochloromethane ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
Bromodichloromethane ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
Bromoform ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
Bromomethane ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
Carbon disulfide ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
Carbon tetrachloride ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
Chlorobenzene ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
Chloroethane ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
Chloroform ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
Chloromethane ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
cis-1,2-Dichloroethene ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
cis-1,3-Dichloropropene ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
Di-isopropyl ether ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
Dibromochloromethane ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
Dibromomethane ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
Dichlorodifluoromethane ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
Ethyl Acetate ND 50 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
Ethyl Ether ND 50 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
Ethyl tert-butyl ether ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
Ethylbenzene ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
Freon-113 ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
Hexachlorobutadiene ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
Isopropylbenzene ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
m,p-Xylene ND 10 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
Methylene chloride ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
MTBE ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
n-Butylbenzene ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
n-Propylbenzene ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	
Naphthalene ND 5.0 NA 1 B4A0214 01/16/2014 01/16/14 18:17	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

> **Client Sample ID LB25-5** Lab ID: 1400125-55

Volatile Organic Compounds by EPA 8260B

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
o-Xylene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:17	
sec-Butylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:17	
Styrene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:17	
tert-Amyl methyl ether	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:17	
tert-Butanol	ND	100	NA	1	B4A0214	01/16/2014	01/16/14 18:17	
tert-Butylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:17	
Tetrachloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:17	
Toluene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:17	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:17	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:17	
Trichloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:17	
Trichlorofluoromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:17	
Vinyl acetate	ND	50	NA	1	B4A0214	01/16/2014	01/16/14 18:17	
Vinyl chloride	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:17	
Surrogate: 1,2-Dichloroethane-d4	96.6 %	70	- 130		B4A0214	01/16/2014	01/16/14 18:17	
Surrogate: 4-Bromofluorobenzene	97.7 %	70	- 130		B4A0214	01/16/2014	01/16/14 18:17	
Surrogate: Dibromofluoromethane	96.0 %	70	- 130		B4A0214	01/16/2014	01/16/14 18:17	
Surrogate: Toluene-d8	101 %	70	- 130		B4A0214	01/16/2014	01/16/14 18:17	



Leighton Consulting, Inc. Project Number: Stratham Homes, 10557.003

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB25-10 Lab ID: 1400125-56

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C6-C12	ND	1.0	NA	1	B4A0266	01/20/2014	01/20/14 14:59	
Surrogate: 4-Rromofluorobenzene	107 %	48	- 137		B4A0266	01/20/2014	01/20/14 14:59	

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C8-C10	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 00:15	
T/R Hydrocarbons: C10-C18	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 00:15	
T/R Hydrocarbons: C18-C28	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 00:15	
T/R Hydrocarbons: C28-C36	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 00:15	
T/R Hydrocarbons: C36-C40	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 00:15	
T/R Hydrocarbons: C8-C40 Total (HS)	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 00:15	
Surrogate: p-Terphenyl	80.2 %	5.5	- 140		B4A0245	01/17/2014	01/18/14 00:15	

Volatile Organic Compounds by EPA 8260B

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
1,1,1-Trichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
1,1,2-Trichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
1,1-Dichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
1,1-Dichloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
1,1-Dichloropropene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
1,2,3-Trichloropropane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
1,2,4-Trimethylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
1,2-Dibromoethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
1,2-Dichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
1,2-Dichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
1,2-Dichloropropane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
1,3-Dichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

> **Client Sample ID LB25-10** Lab ID: 1400125-56

Volatile Organic Compounds by EPA 8260B

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,3-Dichloropropane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
1,4-Dichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
2,2-Dichloropropane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
2-Chlorotoluene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
4-Chlorotoluene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
4-Isopropyltoluene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Benzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Bromobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Bromochloromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Bromodichloromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Bromoform	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Bromomethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Carbon disulfide	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Carbon tetrachloride	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Chlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Chloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Chloroform	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Chloromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
cis-1,2-Dichloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Di-isopropyl ether	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Dibromochloromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Dibromomethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Dichlorodifluoromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Ethyl Acetate	ND	50	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Ethyl Ether	ND	50	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Ethyl tert-butyl ether	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Ethylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Freon-113	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Hexachlorobutadiene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Isopropylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
m,p-Xylene	ND	10	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Methylene chloride	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
MTBE	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
n-Butylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
n-Propylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Naphthalene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

Report To: Brynn McCulloch 17781 Cowan Street

Irvine, CA 92614 Reported: 01/22/2014

> **Client Sample ID LB25-10** Lab ID: 1400125-56

Volatile Organic Compounds by EPA 8260B

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
o-Xylene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
sec-Butylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Styrene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
tert-Amyl methyl ether	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
tert-Butanol	ND	100	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
tert-Butylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Tetrachloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Toluene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Trichloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Trichlorofluoromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Vinyl acetate	ND	50	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Vinyl chloride	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:36	
Surrogate: 1,2-Dichloroethane-d4	101 %	70	- 130		B4A0214	01/16/2014	01/16/14 18:36	
Surrogate: 4-Bromofluorobenzene	97.1 %	70	- 130		B4A0214	01/16/2014	01/16/14 18:36	
Surrogate: Dibromofluoromethane	98.4 %	70	- 130		B4A0214	01/16/2014	01/16/14 18:36	
Surrogate: Toluene-d8	99.5 %	70	- 130		B4A0214	01/16/2014	01/16/14 18:36	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

> **Client Sample ID LB25-16** Lab ID: 1400125-57

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C6-C12	ND	1.0	NA	1	B4A0266	01/20/2014	01/20/14 15:14	
Surrogate: 4-Bromofluorobenzene	114 %	48	- 137		B4A0266	01/20/2014	01/20/14 15:14	

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C8-C10	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 01:05	
T/R Hydrocarbons: C10-C18	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 01:05	
T/R Hydrocarbons: C18-C28	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 01:05	
T/R Hydrocarbons: C28-C36	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 01:05	
T/R Hydrocarbons: C36-C40	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 01:05	
T/R Hydrocarbons: C8-C40 Total (HS)	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 01:05	
Surrogate: p-Terphenyl	84.6 %	55	- 140	•	B4A0245	01/17/2014	01/18/14 01:05	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB26-0.5 Lab ID: 1400125-58

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C6-C12	ND	1.0	NA	1	B4A0266	01/20/2014	01/20/14 15:30	
Surrogate: 4-Bromofluorobenzene	117 %	48	- 137	•	B4A0266	01/20/2014	01/20/14 15:30	

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C8-C10	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 02:28	
T/R Hydrocarbons: C10-C18	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 02:28	
T/R Hydrocarbons: C18-C28	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 02:28	
T/R Hydrocarbons: C28-C36	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 02:28	
T/R Hydrocarbons: C36-C40	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 02:28	
T/R Hydrocarbons: C8-C40 Total (HS)	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 02:28	
Surrogate: p-Terphenyl	79.5 %	55	- 140		B4A0245	01/17/2014	01/18/14 02:28	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB26-5 Lab ID: 1400125-59

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C6-C12	ND	1.0	NA	1	B4A0266	01/20/2014	01/20/14 15:46	
Surrogate: 4-Bromofluorobenzene	110 %	48	- 137		B4A0266	01/20/2014	01/20/14 15:46	

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C8-C10	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 01:22	
T/R Hydrocarbons: C10-C18	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 01:22	
T/R Hydrocarbons: C18-C28	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 01:22	
T/R Hydrocarbons: C28-C36	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 01:22	
T/R Hydrocarbons: C36-C40	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 01:22	
T/R Hydrocarbons: C8-C40 Total (HS)	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 01:22	
Surrogate: p-Terphenyl	83.6 %	55	- 140		B4A0245	01/17/2014	01/18/14 01:22	

Volatile Organic Compounds by EPA 8260B

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
1,1,1-Trichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
1,1,2-Trichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
1,1-Dichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
1,1-Dichloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
1,1-Dichloropropene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
1,2,3-Trichloropropane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
1,2,4-Trimethylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
1,2-Dibromoethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
1,2-Dichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
1,2-Dichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
1,2-Dichloropropane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
1,3-Dichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

> **Client Sample ID LB26-5** Lab ID: 1400125-59

Volatile Organic Compounds by EPA 8260B

Analyta	Result	PQL (vg/kg)	MDL (ug/lsg)	Dilution	Datah	Dramarad	Date/Time	Natas
Analyte	(ug/kg)	(ug/kg)	(ug/kg)	Dilution	Batch	Prepared	Analyzed	Notes
1,3-Dichloropropane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
1,4-Dichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
2,2-Dichloropropane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
2-Chlorotoluene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
4-Chlorotoluene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
4-Isopropyltoluene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Benzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Bromobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Bromochloromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Bromodichloromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Bromoform	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Bromomethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Carbon disulfide	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Carbon tetrachloride	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Chlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Chloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Chloroform	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Chloromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
cis-1,2-Dichloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Di-isopropyl ether	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Dibromochloromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Dibromomethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Dichlorodifluoromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Ethyl Acetate	ND	50	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Ethyl Ether	ND	50	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Ethyl tert-butyl ether	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Ethylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Freon-113	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Hexachlorobutadiene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Isopropylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
m,p-Xylene	ND	10	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Methylene chloride	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
MTBE	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
n-Butylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
n-Propylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Naphthalene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

> **Client Sample ID LB26-5** Lab ID: 1400125-59

Volatile Organic Compounds by EPA 8260B

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
o-Xylene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
sec-Butylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Styrene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
tert-Amyl methyl ether	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
tert-Butanol	ND	100	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
tert-Butylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Tetrachloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Toluene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Trichloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Trichlorofluoromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Vinyl acetate	ND	50	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Vinyl chloride	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 18:54	
Surrogate: 1,2-Dichloroethane-d4	105 %	70	- 130		B4A0214	01/16/2014	01/16/14 18:54	
Surrogate: 4-Bromofluorobenzene	94.4 %	70	- 130		B4A0214	01/16/2014	01/16/14 18:54	
Surrogate: Dibromofluoromethane	100 %	70	- 130		B4A0214	01/16/2014	01/16/14 18:54	
Surrogate: Toluene-d8	100 %	70	- 130		B4A0214	01/16/2014	01/16/14 18:54	



Leighton Consulting, Inc. Project Number: Stratham Homes, 10557.003

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB26-10 Lab ID: 1400125-60

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C6-C12	ND	1.0	NA	1	B4A0266	01/20/2014	01/20/14 16:02	
Surrogate: 4-Rromofluorobenzene	111 %	48	- 137		B4A0266	01/20/2014	01/20/14 16:02	

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C8-C10	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 03:18	
T/R Hydrocarbons: C10-C18	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 03:18	
T/R Hydrocarbons: C18-C28	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 03:18	
T/R Hydrocarbons: C28-C36	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 03:18	
T/R Hydrocarbons: C36-C40	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 03:18	
T/R Hydrocarbons: C8-C40 Total (HS)	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 03:18	
Surrogate: p-Terphenyl	77.8 %	55	- 140		B4A0245	01/17/2014	01/18/14 03:18	

Volatile Organic Compounds by EPA 8260B

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
1,1,1-Trichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
1,1,2-Trichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
1,1-Dichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
1,1-Dichloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
1,1-Dichloropropene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
1,2,3-Trichloropropane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
1,2,4-Trimethylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
1,2-Dibromoethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
1,2-Dichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
1,2-Dichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
1,2-Dichloropropane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
1,3-Dichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB26-10 Lab ID: 1400125-60

Volatile Organic Compounds by EPA 8260B

Analyta	Result	PQL (ug/kg)	MDL (ug/kg)	Dilution	Ratah	Drangrad	Date/Time	Notes
Analyte	(ug/kg)	(ug/kg)	(ug/kg)	Dilution	Batch	Prepared	Analyzed	Notes
1,3-Dichloropropane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
1,4-Dichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
2,2-Dichloropropane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
2-Chlorotoluene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
4-Chlorotoluene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
4-Isopropyltoluene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Benzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Bromobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Bromochloromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Bromodichloromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Bromoform	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Bromomethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Carbon disulfide	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Carbon tetrachloride	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Chlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Chloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Chloroform	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Chloromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
cis-1,2-Dichloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Di-isopropyl ether	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Dibromochloromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Dibromomethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Dichlorodifluoromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Ethyl Acetate	ND	50	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Ethyl Ether	ND	50	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Ethyl tert-butyl ether	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Ethylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Freon-113	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Hexachlorobutadiene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Isopropylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
m,p-Xylene	ND	10	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Methylene chloride	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
MTBE	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
n-Butylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
n-Propylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Naphthalene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

> **Client Sample ID LB26-10** Lab ID: 1400125-60

Volatile Organic Compounds by EPA 8260B

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
o-Xylene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
sec-Butylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Styrene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
tert-Amyl methyl ether	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
tert-Butanol	ND	100	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
tert-Butylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Tetrachloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Toluene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Trichloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Trichlorofluoromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Vinyl acetate	ND	50	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Vinyl chloride	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:13	
Surrogate: 1,2-Dichloroethane-d4	104 %	70	- 130		B4A0214	01/16/2014	01/16/14 19:13	
Surrogate: 4-Bromofluorobenzene	94.7 %	70	- 130		B4A0214	01/16/2014	01/16/14 19:13	
Surrogate: Dibromofluoromethane	99.8 %	70	- 130		B4A0214	01/16/2014	01/16/14 19:13	
Surrogate: Toluene-d8	100 %	70	- 130		B4A0214	01/16/2014	01/16/14 19:13	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB26-16 Lab ID: 1400125-61

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C6-C12	ND	1.0	NA	1	B4A0266	01/20/2014	01/20/14 16:18	
Surrogate: 4-Bromofluorobenzene	115 %	48	- 137	•	B4A0266	01/20/2014	01/20/14 16:18	

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C8-C10	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 02:12	
T/R Hydrocarbons: C10-C18	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 02:12	
T/R Hydrocarbons: C18-C28	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 02:12	
T/R Hydrocarbons: C28-C36	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 02:12	
T/R Hydrocarbons: C36-C40	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 02:12	
T/R Hydrocarbons: C8-C40 Total (HS)	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 02:12	
Surrogate: p-Terphenyl	97.0 %	55	- 140		B4A0245	01/17/2014	01/18/14 02:12	



Leighton Consulting, Inc. Project Number: Stratham Homes, 10557.003

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB27-0.5 Lab ID: 1400125-62

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C6-C12	ND	1.0	NA	1	B4A0266	01/20/2014	01/20/14 16:34	
Surrogate: 4-Bromofluorobenzene	110 %	48	- 137		B4A0266	01/20/2014	01/20/14 16:34	

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C8-C10	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 03:35	
T/R Hydrocarbons: C10-C18	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 03:35	
T/R Hydrocarbons: C18-C28	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 03:35	
T/R Hydrocarbons: C28-C36	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 03:35	
T/R Hydrocarbons: C36-C40	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 03:35	
T/R Hydrocarbons: C8-C40 Total (HS)	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 03:35	
Surrogate: p-Terphenyl	83.1 %	55	- 140	·	B4A0245	01/17/2014	01/18/14 03:35	



Leighton Consulting, Inc. Project Number: Stratham Homes, 10557.003

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB27-5 Lab ID: 1400125-63

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C6-C12	ND	1.0	NA	1	B4A0266	01/20/2014	01/20/14 16:49	
Surrogate: 4-Rromofluorobenzene	110 %	48	- 137		B4A0266	01/20/2014	01/20/14 16:49	

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C8-C10	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 01:38	
T/R Hydrocarbons: C10-C18	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 01:38	
T/R Hydrocarbons: C18-C28	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 01:38	
T/R Hydrocarbons: C28-C36	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 01:38	
T/R Hydrocarbons: C36-C40	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 01:38	
T/R Hydrocarbons: C8-C40 Total (HS)	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 01:38	
Surrogate: p-Terphenyl	84.4 %	55	- 140		B4A0245	01/17/2014	01/18/14 01:38	

Volatile Organic Compounds by EPA 8260B

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
1,1,1-Trichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
1,1,2-Trichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
1,1-Dichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
1,1-Dichloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
1,1-Dichloropropene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
1,2,3-Trichloropropane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
1,2,4-Trimethylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
1,2-Dibromoethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
1,2-Dichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
1,2-Dichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
1,2-Dichloropropane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
1,3-Dichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

> **Client Sample ID LB27-5** Lab ID: 1400125-63

Volatile Organic Compounds by EPA 8260B

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,3-Dichloropropane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
1,4-Dichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
2,2-Dichloropropane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
2-Chlorotoluene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
4-Chlorotoluene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
4-Isopropyltoluene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Benzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Bromobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Bromochloromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Bromodichloromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Bromoform	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Bromomethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Carbon disulfide	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Carbon tetrachloride	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Chlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Chloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Chloroform	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Chloromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
cis-1,2-Dichloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Di-isopropyl ether	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Dibromochloromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Dibromomethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Dichlorodifluoromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Ethyl Acetate	ND	50	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Ethyl Ether	ND	50	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Ethyl tert-butyl ether	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Ethylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Freon-113	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Hexachlorobutadiene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Isopropylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
m,p-Xylene	ND	10	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Methylene chloride	ND	5.0	NA NA	1	B4A0214	01/16/2014	01/16/14 19:32	
MTBE	ND	5.0	NA NA	1	B4A0214	01/16/2014	01/16/14 19:32	
n-Butylbenzene	ND	5.0	NA NA	1	B4A0214	01/16/2014	01/16/14 19:32	
n-Propylbenzene	ND ND	5.0	NA NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Naphthalene								
rvapiitnaiene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

> **Client Sample ID LB27-5** Lab ID: 1400125-63

Volatile Organic Compounds by EPA 8260B

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
o-Xylene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
sec-Butylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Styrene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
tert-Amyl methyl ether	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
tert-Butanol	ND	100	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
tert-Butylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Tetrachloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Toluene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Trichloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Trichlorofluoromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Vinyl acetate	ND	50	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Vinyl chloride	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:32	
Surrogate: 1,2-Dichloroethane-d4	102 %	70	70 - 130		B4A0214	01/16/2014	01/16/14 19:32	
Surrogate: 4-Bromofluorobenzene	95.6 %	70	- 130		B4A0214	01/16/2014	01/16/14 19:32	
Surrogate: Dibromofluoromethane	100 %	70	- 130		B4A0214	01/16/2014	01/16/14 19:32	
Surrogate: Toluene-d8	99.5 %	70	- 130		B4A0214	01/16/2014	01/16/14 19:32	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB27-10 Lab ID: 1400125-64

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C6-C12	ND	1.0	NA	1	B4A0266	01/20/2014	01/20/14 17:05	
Surrogate: 4-Rromofluorobenzene	108 %	48	- 137		B4A0266	01/20/2014	01/20/14 17:05	

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: CR

	Result	PQL	MDL				Date/Time	-
Analyte	(mg/kg)	(mg/kg)	(mg/kg)	Dilution	Batch	Prepared	Analyzed	Notes
T/R Hydrocarbons: C8-C10	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 02:45	
T/R Hydrocarbons: C10-C18	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 02:45	
T/R Hydrocarbons: C18-C28	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 02:45	
T/R Hydrocarbons: C28-C36	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 02:45	
T/R Hydrocarbons: C36-C40	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 02:45	
T/R Hydrocarbons: C8-C40 Total (HS)	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 02:45	
Surrogate: p-Terphenyl	79.4 %	55	- 140		B4A0245	01/17/2014	01/18/14 02:45	

Volatile Organic Compounds by EPA 8260B

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
1,1,1-Trichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
1,1,2-Trichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
1,1-Dichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
1,1-Dichloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
1,1-Dichloropropene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
1,2,3-Trichloropropane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
1,2,4-Trimethylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
1,2-Dibromoethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
1,2-Dichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
1,2-Dichloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
1,2-Dichloropropane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
1,3-Dichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB27-10 Lab ID: 1400125-64

Volatile Organic Compounds by EPA 8260B

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,3-Dichloropropane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
1,4-Dichlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
2,2-Dichloropropane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
2-Chlorotoluene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
4-Chlorotoluene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
4-Isopropyltoluene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Benzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Bromobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Bromochloromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Bromodichloromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Bromoform	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Bromomethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Carbon disulfide	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Carbon tetrachloride	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Chlorobenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Chloroethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Chloroform	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Chloromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
cis-1,2-Dichloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Di-isopropyl ether	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Dibromochloromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Dibromomethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Dichlorodifluoromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Ethyl Acetate	ND	50	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Ethyl Ether	ND	50	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Ethyl tert-butyl ether	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Ethylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Freon-113	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Hexachlorobutadiene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Isopropylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
m,p-Xylene	ND	10	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Methylene chloride	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
MTBE	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
n-Butylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
n-Propylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Naphthalene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

> **Client Sample ID LB27-10** Lab ID: 1400125-64

Volatile Organic Compounds by EPA 8260B

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
o-Xylene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
sec-Butylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Styrene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
tert-Amyl methyl ether	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
tert-Butanol	ND	100	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
tert-Butylbenzene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Tetrachloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Toluene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Trichloroethene	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Trichlorofluoromethane	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Vinyl acetate	ND	50	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Vinyl chloride	ND	5.0	NA	1	B4A0214	01/16/2014	01/16/14 19:50	
Surrogate: 1,2-Dichloroethane-d4	110 %	70	70 - 130		B4A0214	01/16/2014	01/16/14 19:50	
Surrogate: 4-Bromofluorobenzene	98.0 %	70	- 130		B4A0214	01/16/2014	01/16/14 19:50	
Surrogate: Dibromofluoromethane	102 %	70 - 130			B4A0214	01/16/2014	01/16/14 19:50	
Surrogate: Toluene-d8	101 %	70	- 130		B4A0214	01/16/2014	01/16/14 19:50	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

> **Client Sample ID LB27-16** Lab ID: 1400125-65

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C6-C12	ND	1.0	NA	1	B4A0266	01/20/2014	01/20/14 17:21	
Surrogate: 4-Bromofluorobenzene	109 %	48	- 137		B4A0266	01/20/2014	01/20/14 17:21	

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C8-C10	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 03:02	
T/R Hydrocarbons: C10-C18	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 03:02	
T/R Hydrocarbons: C18-C28	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 03:02	
T/R Hydrocarbons: C28-C36	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 03:02	
T/R Hydrocarbons: C36-C40	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 03:02	
T/R Hydrocarbons: C8-C40 Total (HS)	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 03:02	
Surrogate: p-Terphenyl	74.7 %	55	- 140		B4A0245	01/17/2014	01/18/14 03:02	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB28-0.5 Lab ID: 1400125-66

Total Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	2.9	1.0	NA	1	B4A0287	01/20/2014	01/21/14 13:59	

Organochlorine Pesticides by EPA 8081

Analyst: PIL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:02	
4,4'-DDE [2C]	14	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:02	
4,4'-DDT [2C]	5.0	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:02	
Aldrin	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:02	
alpha-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:02	
alpha-Chlordane	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:02	
beta-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:02	
Chlordane	ND	8.5	NA	1	B4A0222	01/16/2014	01/16/14 18:02	
delta-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:02	
Dieldrin [2C]	13	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:02	
Endosulfan I	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:02	
Endosulfan II	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:02	
Endosulfan sulfate	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:02	
Endrin	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:02	
Endrin aldehyde	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:02	
Endrin ketone	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:02	
gamma-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:02	
gamma-Chlordane	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:02	
Heptachlor	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:02	
Heptachlor epoxide	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:02	
Methoxychlor	ND	5.0	NA	1	B4A0222	01/16/2014	01/16/14 18:02	
Toxaphene	ND	50	NA	1	B4A0222	01/16/2014	01/16/14 18:02	
Surrogate: Decachlorobiphenyl	75.9 %	29	- 143		B4A0222	01/16/2014	01/16/14 18:02	
Surrogate: Tetrachloro-m-xylene	78.1 %	52	- 114		B4A0222	01/16/2014	01/16/14 18:02	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB28-2.5 Lab ID: 1400125-67

Total Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	2.9	1.0	NA	1	B4A0287	01/20/2014	01/21/14 14:01	

Organochlorine Pesticides by EPA 8081

Analyst: PIL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:16	
4,4′-DDE	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:16	
4,4'-DDT	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:16	
Aldrin	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:16	
alpha-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:16	
alpha-Chlordane	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:16	
beta-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:16	
Chlordane	ND	8.5	NA	1	B4A0222	01/16/2014	01/16/14 18:16	
delta-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:16	
Dieldrin [2C]	2.8	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:16	
Endosulfan I	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:16	
Endosulfan II	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:16	
Endosulfan sulfate	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:16	
Endrin	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:16	
Endrin aldehyde	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:16	
Endrin ketone	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:16	
gamma-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:16	
gamma-Chlordane	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:16	
Heptachlor	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:16	
Heptachlor epoxide	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:16	
Methoxychlor	ND	5.0	NA	1	B4A0222	01/16/2014	01/16/14 18:16	
Toxaphene	ND	50	NA	1	B4A0222	01/16/2014	01/16/14 18:16	
Surrogate: Decachlorobiphenyl	73.8 %	29	- 143		B4A0222	01/16/2014	01/16/14 18:16	
Surrogate: Tetrachloro-m-xylene	87.4 %	52	- 114		B4A0222	01/16/2014	01/16/14 18:16	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB29-0.5 Lab ID: 1400125-68

Total Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	4.1	1.0	NA	1	B4A0287	01/20/2014	01/21/14 14:02	

Organochlorine Pesticides by EPA 8081

Analyst: PIL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:30	
4,4'-DDE	2.6	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:30	
4,4'-DDT	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:30	
Aldrin	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:30	
alpha-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:30	
alpha-Chlordane	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:30	
beta-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:30	
Chlordane	ND	8.5	NA	1	B4A0222	01/16/2014	01/16/14 18:30	
delta-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:30	
Dieldrin	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:30	
Endosulfan I	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:30	
Endosulfan II	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:30	
Endosulfan sulfate	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:30	
Endrin	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:30	
Endrin aldehyde	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:30	
Endrin ketone	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:30	
gamma-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:30	
gamma-Chlordane	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:30	
Heptachlor	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:30	
Heptachlor epoxide	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:30	
Methoxychlor	ND	5.0	NA	1	B4A0222	01/16/2014	01/16/14 18:30	
Toxaphene	ND	50	NA	1	B4A0222	01/16/2014	01/16/14 18:30	
Surrogate: Decachlorobiphenyl	70.6 %	29	- 143		B4A0222	01/16/2014	01/16/14 18:30	
Surrogate: Tetrachloro-m-xylene	71.1 %	52	- 114		B4A0222	01/16/2014	01/16/14 18:30	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB29-2.5 Lab ID: 1400125-69

Total Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	3.5	1.0	NA	1	B4A0287	01/20/2014	01/21/14 14:04	

Organochlorine Pesticides by EPA 8081

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:43	
4,4'-DDE	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:43	
4,4'-DDT	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:43	
Aldrin	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:43	
alpha-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:43	
alpha-Chlordane	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:43	
beta-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:43	
Chlordane	ND	8.5	NA	1	B4A0222	01/16/2014	01/16/14 18:43	
delta-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:43	
Dieldrin	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:43	
Endosulfan I	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:43	
Endosulfan II	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:43	
Endosulfan sulfate	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:43	
Endrin	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:43	
Endrin aldehyde	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:43	
Endrin ketone	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:43	
gamma-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:43	
gamma-Chlordane	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:43	
Heptachlor	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:43	
Heptachlor epoxide	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:43	
Methoxychlor	ND	5.0	NA	1	B4A0222	01/16/2014	01/16/14 18:43	
Toxaphene	ND	50	NA	1	B4A0222	01/16/2014	01/16/14 18:43	
Surrogate: Decachlorobiphenyl	78.7 %	29	- 143		B4A0222	01/16/2014	01/16/14 18:43	
Surrogate: Tetrachloro-m-xylene	79.3 %	52	- 114		B4A0222	01/16/2014	01/16/14 18:43	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB30-0.5 Lab ID: 1400125-70

Total Metals by ICP-AES EPA 6010B

Analyst: AG

	Result	PQL	MDL				Date/Time	
Analyte	(mg/kg)	(mg/kg)	(mg/kg)	Dilution	Batch	Prepared	Analyzed	Notes
Arsenic	5.3	1.0	NA	1	B4A0287	01/20/2014	01/21/14 14:05	

Organochlorine Pesticides by EPA 8081

	Result	PQL	MDL				Date/Time	
Analyte	(ug/kg)	PQL (ug/kg)	(ug/kg)	Dilution	Batch	Prepared	Analyzed	Notes
4,4′-DDD	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:57	
4,4′-DDE [2C]	33	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:57	
4,4'-DDT [2C]	87	20	NA	10	B4A0222	01/16/2014	01/17/14 12:21	
Aldrin	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:57	
alpha-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:57	
alpha-Chlordane	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:57	
oeta-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:57	
Chlordane	ND	8.5	NA	1	B4A0222	01/16/2014	01/16/14 18:57	
delta-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:57	
Dieldrin [2C]	74	20	NA	10	B4A0222	01/16/2014	01/17/14 12:21	
Endosulfan I	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:57	
Endosulfan II	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:57	
Endosulfan sulfate	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:57	
Endrin	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:57	
Endrin aldehyde	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:57	
Endrin ketone	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 18:57	
gamma-BHC [2C]	180	10	NA	10	B4A0222	01/16/2014	01/17/14 12:21	
gamma-Chlordane	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:57	
Heptachlor	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:57	
Heptachlor epoxide	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 18:57	
Methoxychlor	ND	5.0	NA	1	B4A0222	01/16/2014	01/16/14 18:57	
Гохарһепе	ND	50	NA	1	B4A0222	01/16/2014	01/16/14 18:57	
Surrogate: Decachlorobiphenyl	107 %	29	- 143		B4A0222	01/16/2014	01/16/14 18:57	
Surrogate: Decachlorobiphenyl	104 %	29	- 143		B4A0222	01/16/2014	01/17/14 12:21	
Surrogate: Tetrachloro-m-xylene	88.8 %	52	- 114		B4A0222	01/16/2014	01/17/14 12:21	
Surrogate: Tetrachloro-m-xylene	79.3 %	52	- 114		B4A0222	01/16/2014	01/16/14 18:57	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB30-2.5 Lab ID: 1400125-71

Total Metals by ICP-AES EPA 6010B

Analyst: AG

	Result	PQL	MDL				Date/Time	
Analyte	(mg/kg)	(mg/kg)	(mg/kg)	Dilution	Batch	Prepared	Analyzed	Notes
Arsenic	5.2	1.0	NA	1	B4A0287	01/20/2014	01/21/14 14:10	

Organochlorine Pesticides by EPA 8081

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 19:11	
4,4'-DDE	ND	2.0	NA NA	1	B4A0222	01/16/2014	01/16/14 19:11	
4,4'-DDT	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 19:11	
Aldrin	ND	1.0	NA NA	1	B4A0222	01/16/2014	01/16/14 19:11	
alpha-BHC	ND	1.0	NA NA	1	B4A0222	01/16/2014	01/16/14 19:11	
alpha-Chlordane	ND ND	1.0	NA NA	1	B4A0222	01/16/2014	01/16/14 19:11	
beta-BHC	ND	1.0	NA NA	1	B4A0222	01/16/2014	01/16/14 19:11	
Chlordane	ND ND		NA NA	1	B4A0222	01/16/2014	01/16/14 19:11	
delta-BHC	ND ND	8.5	NA NA	1	B4A0222		01/16/14 19:11	
		1.0		•		01/16/2014		
Dieldrin	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 19:11	
Endosulfan I	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 19:11	
Endosulfan II	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 19:11	
Endosulfan sulfate	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 19:11	
Endrin	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 19:11	
Endrin aldehyde	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 19:11	
Endrin ketone	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 19:11	
gamma-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 19:11	
gamma-Chlordane	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 19:11	
Heptachlor	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 19:11	
Heptachlor epoxide	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 19:11	
Methoxychlor	ND	5.0	NA	1	B4A0222	01/16/2014	01/16/14 19:11	
Toxaphene	ND	50	NA	1	B4A0222	01/16/2014	01/16/14 19:11	
Surrogate: Decachlorobiphenyl	68.5 %	29	- 143		B4A0222	01/16/2014	01/16/14 19:11	
Surrogate: Tetrachloro-m-xylene	76.0 %	52	- 114		B4A0222	01/16/2014	01/16/14 19:11	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB31-0.5 Lab ID: 1400125-72

Total Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	4.5	1.0	NA	1	B4A0287	01/20/2014	01/21/14 14:11	

Organochlorine Pesticides by EPA 8081

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 19:25	
4,4'-DDE	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 19:25	
4,4'-DDT	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 19:25	
Aldrin	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 19:25	
alpha-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 19:25	
alpha-Chlordane	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 19:25	
beta-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 19:25	
Chlordane	ND	8.5	NA	1	B4A0222	01/16/2014	01/16/14 19:25	
delta-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 19:25	
Dieldrin	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 19:25	
Endosulfan I	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 19:25	
Endosulfan II	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 19:25	
Endosulfan sulfate	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 19:25	
Endrin	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 19:25	
Endrin aldehyde	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 19:25	
Endrin ketone	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 19:25	
gamma-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 19:25	
gamma-Chlordane	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 19:25	
Heptachlor	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 19:25	
Heptachlor epoxide	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 19:25	
Methoxychlor	ND	5.0	NA	1	B4A0222	01/16/2014	01/16/14 19:25	
Toxaphene	ND	50	NA	1	B4A0222	01/16/2014	01/16/14 19:25	
Surrogate: Decachlorobiphenyl	78.8 %	29	- 143		B4A0222	01/16/2014	01/16/14 19:25	
Surrogate: Tetrachloro-m-xylene	86.3 %	52	- 114		B4A0222	01/16/2014	01/16/14 19:25	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB31-2.5 Lab ID: 1400125-73

Total Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	4.8	1.0	NA	1	B4A0287	01/20/2014	01/21/14 14:13	

Organochlorine Pesticides by EPA 8081

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 19:38	
4,4'-DDE	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 19:38	
4,4'-DDT	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 19:38	
Aldrin	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 19:38	
alpha-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 19:38	
alpha-Chlordane	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 19:38	
beta-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 19:38	
Chlordane	ND	8.5	NA	1	B4A0222	01/16/2014	01/16/14 19:38	
delta-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 19:38	
Dieldrin	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 19:38	
Endosulfan I	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 19:38	
Endosulfan II	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 19:38	
Endosulfan sulfate	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 19:38	
Endrin	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 19:38	
Endrin aldehyde	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 19:38	
Endrin ketone	ND	2.0	NA	1	B4A0222	01/16/2014	01/16/14 19:38	
gamma-BHC	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 19:38	
gamma-Chlordane	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 19:38	
Heptachlor	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 19:38	
Heptachlor epoxide	ND	1.0	NA	1	B4A0222	01/16/2014	01/16/14 19:38	
Methoxychlor	ND	5.0	NA	1	B4A0222	01/16/2014	01/16/14 19:38	
Toxaphene	ND	50	NA	1	B4A0222	01/16/2014	01/16/14 19:38	
Surrogate: Decachlorobiphenyl	79.9 %	29	- 143		B4A0222	01/16/2014	01/16/14 19:38	
Surrogate: Tetrachloro-m-xylene	84.6 %	52	- 114		B4A0222	01/16/2014	01/16/14 19:38	



Leighton Consulting, Inc. Project Number: Stratham Homes, 10557.003

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID LB32-5.0 Lab ID: 1400125-75

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C6-C12	ND	1.0	NA	1	B4A0266	01/20/2014	01/20/14 17:37	
Surrogate: 4-Bromofluorobenzene	101 %	48	- 137	•	B4A0266	01/20/2014	01/20/14 17:37	

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C8-C10	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 01:55	
T/R Hydrocarbons: C10-C18	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 01:55	
T/R Hydrocarbons: C18-C28	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 01:55	
T/R Hydrocarbons: C28-C36	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 01:55	
T/R Hydrocarbons: C36-C40	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 01:55	
T/R Hydrocarbons: C8-C40 Total (HS)	ND	10	NA	1	B4A0245	01/17/2014	01/18/14 01:55	
Surrogate: p-Terphenyl	82.4 %	55	- 140		B4A0245	01/17/2014	01/18/14 01:55	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

Report To: Brynn McCulloch 17781 Cowan Street

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID Composite LB1 through LB5 @ 0.5 Lab ID: 1400125-77

Organochlorine Pesticides by EPA 8081

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes		
4,4′-DDD	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:07			
4,4´-DDE	3.8	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:07			
4,4′-DDT	7.2	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:07			
Aldrin	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:07			
alpha-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:07			
alpha-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:07			
beta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:07			
Chlordane	ND	8.5	NA	1	B4A0215	01/16/2014	01/16/14 17:07			
delta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:07			
Dieldrin	6.6	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:07			
Endosulfan I	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:07			
Endosulfan II	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:07			
Endosulfan sulfate	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:07			
Endrin	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:07			
Endrin aldehyde	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:07			
Endrin ketone	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:07			
gamma-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:07			
gamma-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:07			
Heptachlor	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:07			
Heptachlor epoxide	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:07			
Methoxychlor	ND	5.0	NA	1	B4A0215	01/16/2014	01/16/14 17:07			
Toxaphene	ND	50	NA	1	B4A0215	01/16/2014	01/16/14 17:07			
Surrogate: Decachlorobiphenyl	95.2 %	29	- 143		B4A0215	01/16/2014	01/16/14 17:07			
Surrogate: Tetrachloro-m-xylene	90.1 %	52	- 114		B4A0215	01/16/2014	01/16/14 17:07			



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

Report To: Brynn McCulloch 17781 Cowan Street

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID Composite LB1 through LB5 @ 2.5 Lab ID: 1400125-78

Organochlorine Pesticides by EPA 8081

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:21	
4,4´-DDE	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:21	
4,4′-DDT	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:21	
Aldrin	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:21	
alpha-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:21	
alpha-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:21	
peta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:21	
Chlordane	ND	8.5	NA	1	B4A0215	01/16/2014	01/16/14 17:21	
delta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:21	
Dieldrin	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:21	
Endosulfan I	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:21	
Endosulfan II	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:21	
Endosulfan sulfate	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:21	
Endrin	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:21	
Endrin aldehyde	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:21	
Endrin ketone	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:21	
gamma-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:21	
gamma-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:21	
Heptachlor	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:21	
Heptachlor epoxide	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:21	
Methoxychlor	ND	5.0	NA	1	B4A0215	01/16/2014	01/16/14 17:21	
Toxaphene	ND	50	NA	1	B4A0215	01/16/2014	01/16/14 17:21	
Surrogate: Decachlorobiphenyl	94.3 %	29	- 143		B4A0215	01/16/2014	01/16/14 17:21	
Surrogate: Tetrachloro-m-xylene	88.1 %	52	- 114		B4A0215	01/16/2014	01/16/14 17:21	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

Report To: Brynn McCulloch 17781 Cowan Street

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID Composite LB6, LB9, LB10, and LB11 @ 0.5 Lab ID: 1400125-79

Organochlorine Pesticides by EPA 8081

organoemorme restrettes by E								Anaiyst. 1
Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:35	
4,4´-DDE	6.6	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:35	
4,4′-DDT [2C]	18	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:35	
Aldrin	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:35	
alpha-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:35	
lpha-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:35	
peta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:35	
Chlordane	ND	8.5	NA	1	B4A0215	01/16/2014	01/16/14 17:35	
lelta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:35	
Dieldrin	1700	200	NA	100	B4A0215	01/16/2014	01/17/14 11:38	
Endosulfan I	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:35	
Endosulfan II	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:35	
Endosulfan sulfate	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:35	
Endrin [2C]	27	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:35	
Endrin aldehyde	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:35	
Endrin ketone [2C]	12	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:35	
gamma-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:35	
gamma-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:35	
Heptachlor	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:35	
Heptachlor epoxide	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:35	
Methoxychlor	ND	5.0	NA	1	B4A0215	01/16/2014	01/16/14 17:35	
Toxaphene	ND	50	NA	1	B4A0215	01/16/2014	01/16/14 17:35	
Surrogate: Decachlorobiphenyl	87.6 %	29	- 143		B4A0215	01/16/2014	01/16/14 17:35	
Surrogate: Decachlorobiphenyl	0%	29	- 143		B4A0215	01/16/2014	01/17/14 11:38	S4
Surrogate: Tetrachloro-m-xylene	0%	52	- 114		B4A0215	01/16/2014	01/17/14 11:38	S4
Surrogate: Tetrachloro-m-xylene	79.3 %	52	- 114		B4A0215	01/16/2014	01/16/14 17:35	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

Report To: Brynn McCulloch 17781 Cowan Street

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID Composite LB6, LB9, LB10, and LB11 @ 2.5 Lab ID: 1400125-80

Organochlorine Pesticides by EPA 8081

Analyst: PIL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:49	
4,4´-DDE	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:49	
4,4´-DDT	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:49	
Aldrin	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:49	
alpha-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:49	
alpha-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:49	
beta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:49	
Chlordane	ND	8.5	NA	1	B4A0215	01/16/2014	01/16/14 17:49	
delta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:49	
Dieldrin	43	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:49	
Endosulfan I	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:49	
Endosulfan II	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:49	
Endosulfan sulfate	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:49	
Endrin	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:49	
Endrin aldehyde	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:49	
Endrin ketone	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 17:49	
gamma-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:49	
gamma-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:49	
Heptachlor	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:49	
Heptachlor epoxide	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 17:49	
Methoxychlor	ND	5.0	NA	1	B4A0215	01/16/2014	01/16/14 17:49	
Toxaphene	ND	50	NA	1	B4A0215	01/16/2014	01/16/14 17:49	
Surrogate: Decachlorobiphenyl	97.6 %	29	- 143		B4A0215	01/16/2014	01/16/14 17:49	
Surrogate: Tetrachloro-m-xylene	91.7 %	52	- 114		B4A0215	01/16/2014	01/16/14 17:49	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

Report To: Brynn McCulloch 17781 Cowan Street

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID Composite LB7 and LB8 @ 0.5 Lab ID: 1400125-81

Organochlorine Pesticides by EPA 8081

Analyst: PIL

organocinorine resticides by i						Analyst. 11		
Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:02	
4,4′-DDE	14	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:02	
4,4′-DDT	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:02	
Aldrin	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:02	
alpha-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:02	
alpha-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:02	
oeta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:02	
Chlordane	ND	8.5	NA	1	B4A0215	01/16/2014	01/16/14 18:02	
lelta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:02	
Dieldrin	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:02	
Endosulfan I	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:02	
Endosulfan II	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:02	
Endosulfan sulfate	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:02	
Endrin	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:02	
Endrin aldehyde	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:02	
Endrin ketone	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:02	
gamma-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:02	
gamma-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:02	
Heptachlor	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:02	
Heptachlor epoxide	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:02	
Methoxychlor	ND	5.0	NA	1	B4A0215	01/16/2014	01/16/14 18:02	
Гохарнепе	ND	50	NA	1	B4A0215	01/16/2014	01/16/14 18:02	
Surrogate: Decachlorobiphenyl	102 %	29	- 143		B4A0215	01/16/2014	01/16/14 18:02	
Surrogate: Tetrachloro-m-xylene	87.2 %	52	- 114		B4A0215	01/16/2014	01/16/14 18:02	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

Report To: Brynn McCulloch 17781 Cowan Street

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID Composite LB7 and LB8 @ 2.5 Lab ID: 1400125-82

Organochlorine Pesticides by EPA 8081

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:16	
4,4´-DDE	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:16	
4,4′-DDT	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:16	
Aldrin	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:16	
alpha-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:16	
alpha-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:16	
peta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:16	
Chlordane	ND	8.5	NA	1	B4A0215	01/16/2014	01/16/14 18:16	
delta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:16	
Dieldrin	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:16	
Endosulfan I	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:16	
Endosulfan II	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:16	
Endosulfan sulfate	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:16	
Endrin	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:16	
Endrin aldehyde	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:16	
Endrin ketone	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:16	
gamma-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:16	
gamma-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:16	
Heptachlor	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:16	
Heptachlor epoxide	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:16	
Methoxychlor	ND	5.0	NA	1	B4A0215	01/16/2014	01/16/14 18:16	
Toxaphene	ND	50	NA	1	B4A0215	01/16/2014	01/16/14 18:16	
Surrogate: Decachlorobiphenyl	94.3 %	29	- 143		B4A0215	01/16/2014	01/16/14 18:16	
Surrogate: Tetrachloro-m-xylene	83.8 %	52	- 114		B4A0215	01/16/2014	01/16/14 18:16	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

Report To: Brynn McCulloch 17781 Cowan Street

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID Composite LB12 and LB13 @ 0.5 Lab ID: 1400125-83

Organochlorine Pesticides by EPA 8081

- 8							-	inaryst. 1
Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:30	
4,4´-DDE	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:30	
4,4′-DDT	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:30	
Aldrin	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:30	
alpha-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:30	
alpha-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:30	
peta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:30	
Chlordane	ND	8.5	NA	1	B4A0215	01/16/2014	01/16/14 18:30	
delta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:30	
Dieldrin	11	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:30	
Endosulfan I	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:30	
Endosulfan II	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:30	
Endosulfan sulfate	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:30	
Endrin	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:30	
Endrin aldehyde	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:30	
Endrin ketone	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:30	
gamma-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:30	
gamma-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:30	
Heptachlor	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:30	
Heptachlor epoxide	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:30	
Methoxychlor	ND	5.0	NA	1	B4A0215	01/16/2014	01/16/14 18:30	
Toxaphene	ND	50	NA	1	B4A0215	01/16/2014	01/16/14 18:30	
Surrogate: Decachlorobiphenyl	97.0 %	29	- 143		B4A0215	01/16/2014	01/16/14 18:30	
Surrogate: Tetrachloro-m-xylene	77.6 %	52	- 114		B4A0215	01/16/2014	01/16/14 18:30	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

Report To: Brynn McCulloch 17781 Cowan Street

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID Composite LB12 and LB13 @ 2.5 Lab ID: 1400125-84

Organochlorine Pesticides by EPA 8081

- 8								mary st. 1
Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:44	
4,4´-DDE	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:44	
4,4′-DDT	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:44	
Aldrin	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:44	
alpha-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:44	
alpha-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:44	
oeta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:44	
Chlordane	ND	8.5	NA	1	B4A0215	01/16/2014	01/16/14 18:44	
delta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:44	
Dieldrin	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:44	
Endosulfan I	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:44	
Endosulfan II	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:44	
Endosulfan sulfate	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:44	
Endrin	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:44	
Endrin aldehyde	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:44	
Endrin ketone	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:44	
gamma-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:44	
gamma-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:44	
Heptachlor	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:44	
Heptachlor epoxide	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:44	
Methoxychlor	ND	5.0	NA	1	B4A0215	01/16/2014	01/16/14 18:44	
Toxaphene	ND	50	NA	1	B4A0215	01/16/2014	01/16/14 18:44	
Surrogate: Decachlorobiphenyl	101 %	29	- 143		B4A0215	01/16/2014	01/16/14 18:44	
Surrogate: Tetrachloro-m-xylene	90.4 %	52	- 114		B4A0215	01/16/2014	01/16/14 18:44	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

Report To: Brynn McCulloch 17781 Cowan Street

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID Composite LB15 and LB16 @ 0.5 Lab ID: 1400125-85

Organochlorine Pesticides by EPA 8081

Analyst: PIL

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:58	
4,4′-DDE	4.2	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:58	
4,4′-DDT	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:58	
Aldrin	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:58	
alpha-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:58	
alpha-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:58	
oeta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:58	
Chlordane	ND	8.5	NA	1	B4A0215	01/16/2014	01/16/14 18:58	
lelta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:58	
Dieldrin	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:58	
Endosulfan I	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:58	
Endosulfan II	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:58	
Endosulfan sulfate	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:58	
Endrin	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:58	
Endrin aldehyde	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:58	
Endrin ketone	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 18:58	
gamma-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:58	
gamma-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:58	
Heptachlor	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:58	
Heptachlor epoxide	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 18:58	
Methoxychlor	ND	5.0	NA	1	B4A0215	01/16/2014	01/16/14 18:58	
Гохарһепе	ND	50	NA	1	B4A0215	01/16/2014	01/16/14 18:58	
Surrogate: Decachlorobiphenyl	104 %	29	- 143		B4A0215	01/16/2014	01/16/14 18:58	
Surrogate: Tetrachloro-m-xylene	95.2 %	52	- 114		B4A0215	01/16/2014	01/16/14 18:58	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

Report To: Brynn McCulloch 17781 Cowan Street

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID Composite LB15 and LB16 @ 2.5 Lab ID: 1400125-86

Organochlorine Pesticides by EPA 8081

	Dl/	DOI	MDI					
Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:12	
4,4´-DDE	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:12	
4,4′-DDT	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:12	
Aldrin	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:12	
alpha-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:12	
alpha-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:12	
peta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:12	
Chlordane	ND	8.5	NA	1	B4A0215	01/16/2014	01/16/14 19:12	
lelta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:12	
Dieldrin	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:12	
Endosulfan I	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:12	
Endosulfan II	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:12	
Endosulfan sulfate	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:12	
Endrin	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:12	
Endrin aldehyde	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:12	
Endrin ketone	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:12	
gamma-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:12	
gamma-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:12	
Heptachlor	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:12	
Heptachlor epoxide	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:12	
Methoxychlor	ND	5.0	NA	1	B4A0215	01/16/2014	01/16/14 19:12	
Toxaphene	ND	50	NA	1	B4A0215	01/16/2014	01/16/14 19:12	
Surrogate: Decachlorobiphenyl	101 %	29	- 143		B4A0215	01/16/2014	01/16/14 19:12	
Surrogate: Tetrachloro-m-xylene	88.6 %	52	- 114		B4A0215	01/16/2014	01/16/14 19:12	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

Report To: Brynn McCulloch 17781 Cowan Street

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID Composite LB17 and LB18 @ 0.5 Lab ID: 1400125-87

Organochlorine Pesticides by EPA 8081

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes		
4,4′-DDD	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:25			
4,4´-DDE	17	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:25			
4,4′-DDT	11	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:25			
Aldrin	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:25			
alpha-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:25			
alpha-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:25			
beta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:25			
Chlordane	ND	8.5	NA	1	B4A0215	01/16/2014	01/16/14 19:25			
delta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:25			
Dieldrin	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:25			
Endosulfan I	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:25			
Endosulfan II	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:25			
Endosulfan sulfate	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:25			
Endrin	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:25			
Endrin aldehyde	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:25			
Endrin ketone	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:25			
gamma-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:25			
gamma-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:25			
Heptachlor	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:25			
Heptachlor epoxide	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:25			
Methoxychlor	ND	5.0	NA	1	B4A0215	01/16/2014	01/16/14 19:25			
Гохарhene	ND	50	NA	1	B4A0215	01/16/2014	01/16/14 19:25			
Surrogate: Decachlorobiphenyl	86.8 %	29	- 143		B4A0215	01/16/2014	01/16/14 19:25			
Surrogate: Tetrachloro-m-xylene	64.5 %	52	- 114		B4A0215	01/16/2014	01/16/14 19:25			



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

Report To: Brynn McCulloch 17781 Cowan Street

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID Composite LB17 and LB18 @ 2.5 Lab ID: 1400125-88

Organochlorine Pesticides by EPA 8081

	Result	PQL	MDL				Date/Time	
Analyte	(ug/kg)	(ug/kg)	(ug/kg)	Dilution	Batch	Prepared	Analyzed	Notes
4,4′-DDD	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:39	
4,4´-DDE	59	20	NA	10	B4A0215	01/16/2014	01/17/14 11:52	
4,4´-DDT	55	20	NA	10	B4A0215	01/16/2014	01/17/14 11:52	
Aldrin	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:39	
alpha-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:39	
alpha-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:39	
peta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:39	
Chlordane	ND	8.5	NA	1	B4A0215	01/16/2014	01/16/14 19:39	
delta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:39	
Dieldrin	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:39	
Endosulfan I	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:39	
Endosulfan II	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:39	
Endosulfan sulfate	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:39	
Endrin	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:39	
Endrin aldehyde	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:39	
Endrin ketone	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:39	
gamma-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:39	
gamma-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:39	
Heptachlor	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:39	
Heptachlor epoxide	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:39	
Methoxychlor	ND	5.0	NA	1	B4A0215	01/16/2014	01/16/14 19:39	
Toxaphene	ND	50	NA	1	B4A0215	01/16/2014	01/16/14 19:39	
Surrogate: Decachlorobiphenyl	83.2 %	29	- 143		B4A0215	01/16/2014	01/16/14 19:39	
Surrogate: Decachlorobiphenyl	80.2 %	29	- 143		B4A0215	01/16/2014	01/17/14 11:52	
Surrogate: Tetrachloro-m-xylene	65.6 %	52	- 114		B4A0215	01/16/2014	01/16/14 19:39	
Surrogate: Tetrachloro-m-xylene	54.9 %	52	- 114		B4A0215	01/16/2014	01/17/14 11:52	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

Report To: Brynn McCulloch 17781 Cowan Street

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID Composite LB21 and LB22 @ 0.5 Lab ID: 1400125-89

Organochlorine Pesticides by EPA 8081

	Result	PQL	MDL				Date/Time	
nalyte	(ug/kg)	(ug/kg)	(ug/kg)	Dilution	Batch	Prepared	Analyzed	Notes
4'-DDD	3.9	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:53	
4´-DDE	170	20	NA	10	B4A0215	01/16/2014	01/17/14 13:14	
4´-DDT	36	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:53	
ldrin	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:53	
pha-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:53	
pha-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:53	
eta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:53	
hlordane	ND	8.5	NA	1	B4A0215	01/16/2014	01/16/14 19:53	
elta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:53	
rieldrin	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:53	
ndosulfan I	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:53	
ndosulfan II	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:53	
ndosulfan sulfate	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:53	
ndrin	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:53	
ndrin aldehyde	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:53	
ndrin ketone	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 19:53	
amma-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:53	
amma-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:53	
eptachlor	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:53	
eptachlor epoxide	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 19:53	
lethoxychlor	ND	5.0	NA	1	B4A0215	01/16/2014	01/16/14 19:53	
oxaphene	ND	50	NA	1	B4A0215	01/16/2014	01/16/14 19:53	
urrogate: Decachlorobiphenyl	96.6 %	29	- 143		B4A0215	01/16/2014	01/17/14 13:14	
urrogate: Decachlorobiphenyl	106 %	29	- 143		B4A0215	01/16/2014	01/16/14 19:53	
urrogate: Tetrachloro-m-xylene	92.4 %	52	- 114		B4A0215	01/16/2014	01/16/14 19:53	
urrogate: Tetrachloro-m-xylene	83.8 %	52	- 114		B4A0215	01/16/2014	01/17/14 13:14	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

Report To: Brynn McCulloch 17781 Cowan Street

Irvine, CA 92614 Reported: 01/22/2014

Client Sample ID Composite LB21 and LB22 @ 2.5 Lab ID: 1400125-90

Organochlorine Pesticides by EPA 8081

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
						•		
4,4′-DDD	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 20:07	
4,4′-DDE	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 20:07	
4,4′-DDT	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 20:07	
Aldrin	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 20:07	
alpha-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 20:07	
alpha-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 20:07	
beta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 20:07	
Chlordane	ND	8.5	NA	1	B4A0215	01/16/2014	01/16/14 20:07	
delta-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 20:07	
Dieldrin	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 20:07	
Endosulfan I	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 20:07	
Endosulfan II	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 20:07	
Endosulfan sulfate	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 20:07	
Endrin	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 20:07	
Endrin aldehyde	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 20:07	
Endrin ketone	ND	2.0	NA	1	B4A0215	01/16/2014	01/16/14 20:07	
gamma-BHC	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 20:07	
gamma-Chlordane	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 20:07	
Heptachlor	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 20:07	
Heptachlor epoxide	ND	1.0	NA	1	B4A0215	01/16/2014	01/16/14 20:07	
Methoxychlor	ND	5.0	NA	1	B4A0215	01/16/2014	01/16/14 20:07	
Toxaphene	ND	50	NA	1	B4A0215	01/16/2014	01/16/14 20:07	
Surrogate: Decachlorobiphenyl	107 %	29	- 143		B4A0215	01/16/2014	01/16/14 20:07	
Surrogate: Tetrachloro-m-xylene	95.2 %	52	- 114		B4A0215	01/16/2014	01/16/14 20:07	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(mg/kg)	(mg/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
D 4 1 D440304 ED4 3050B									
Batch B4A0286 - EPA 3050B									
Blank (B4A0286-BLK1)				Prepared	: 1/20/2014	Analyzed: 1/21/	/2014		
Arsenic	ND	1.0			NR				
Lead	ND	1.0			NR				
LCS (B4A0286-BS1)				Prepared	: 1/20/2014	Analyzed: 1/21/	/2014		
Arsenic	46.5983	1.0	50.0000		93.2	80 - 120			
Lead	48.1314	1.0	50.0000		96.3	80 - 120			
Matrix Spike (B4A0286-MS1)		Source: 1400	125-01	Prepared	: 1/20/2014	Analyzed: 1/21/	/2014		
Arsenic	97.7250	1.0	125.000	10.4930	69.8	52 - 109			
Lead	88.0443	1.0	125.000	6.50664	65.2	43 - 120			
Matrix Spike Dup (B4A0286-MSD1)		Source: 1400	125-01	Prepared	: 1/20/2014	Analyzed: 1/21/	/2014		
Arsenic	103.408	1.0	125.000	10.4930	74.3	52 - 109	5.65	20	
Lead	94.4183	1.0	125.000	6.50664	70.3	43 - 120	6.99	20	
Batch B4A0287 - EPA 3050B									
Blank (B4A0287-BLK1)				Prepared	: 1/20/2014	Analyzed: 1/21/	/2014		
Arsenic	ND	1.0			NR				
Lead	ND	1.0			NR				
LCS (B4A0287-BS1)				Prepared	: 1/20/2014	Analyzed: 1/21/	/2014		
Arsenic	46.4041	1.0	50.0000		92.8	80 - 120			
Lead	47.4950	1.0	50.0000		95.0	80 - 120			
Matrix Spike (B4A0287-MS1)		Source: 1400	125-41	Prepared	: 1/20/2014	Analyzed: 1/21/	/2014		
Arsenic	103.316	1.0	125.000	5.80648	78.0	52 - 109			
Lead	123.392	1.0	125.000	33.3522	72.0	43 - 120			
Matrix Spike Dup (B4A0287-MSD1)		Source: 1400	125-41	Prepared	: 1/20/2014	Analyzed: 1/21/	/2014		
Arsenic	105.073	1.0	125.000	5.80648	79.4	52 - 109	1.69	20	
Lead	123.161	1.0	125.000	33.3522	71.8	43 - 120	0.187	20	



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

PQL

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Result

Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Spike

Source

	Result	1 QL	Брікс	Bource		70 RCC		KI D	
Analyte	(mg/kg)	(mg/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B4A0287 - EPA 3050B									
Blank (B4A0287-BLK1)				Prepared	: 1/20/2014	Analyzed: 1/21/	2014		
Antimony	ND	2.0			NR				
Arsenic	ND	1.0			NR				
Barium	ND	1.0			NR				
Beryllium	ND	1.0			NR				
Cadmium	ND	1.0			NR				
Chromium	ND	1.0			NR				
Cobalt	ND	1.0			NR				
Copper	ND	2.0			NR				
Lead	ND	1.0			NR				
Molybdenum	ND	1.0			NR				
Nickel	ND	1.0			NR				
Selenium	ND	1.0			NR				
Silver	ND	1.0			NR				
Thallium	ND	1.0			NR				
Vanadium	ND	1.0			NR				
Zinc	ND	1.0			NR				
LCS (B4A0287-BS1)				Prepared	: 1/20/2014	Analyzed: 1/21/	2014		
Antimony	46.3847	2.0	50.0000		92.8	80 - 120			
Arsenic	46.4041	1.0	50.0000		92.8	80 - 120			
Barium	46.7497	1.0	50.0000		93.5	80 - 120			
Beryllium	47.4215	1.0	50.0000		94.8	80 - 120			
Cadmium	46.3803	1.0	50.0000		92.8	80 - 120			
Chromium	48.4564	1.0	50.0000		96.9	80 - 120			
Cobalt	47.5445	1.0	50.0000		95.1	80 - 120			
Copper	48.4578	2.0	50.0000		96.9	80 - 120			
Lead	47.4950	1.0	50.0000		95.0	80 - 120			
Molybdenum	49.6814	1.0	50.0000		99.4	80 - 120			
Nickel	46.2345	1.0	50.0000		92.5	80 - 120			
Selenium	43.0747	1.0	50.0000		86.1	80 - 120			
Silver	44.7291	1.0	50.0000		89.5	80 - 120			
Thallium	47.4342	1.0	50.0000		94.9	80 - 120			
Vanadium	48.4128	1.0	50.0000		96.8	80 - 120			
Zinc	47.9423	1.0	50.0000		95.9	80 - 120			
Matrix Spike (B4A0287-MS1)		Source: 1400	125-41	Prepared	: 1/20/2014	Analyzed: 1/21/	2014		
Antimony	87.7753	2.0	125.000	0.347890	69.9	21 - 109			
Arsenic	103.316	1.0	125.000	5.80648	78.0	55 - 102			
Barium	155.103	1.0	125.000	55.6836	79.5	40 - 130			
Beryllium	100.660	1.0	125.000	0.290540	80.3	60 - 104			
Cadmium	92.3896	1.0	125.000	0.484343	73.5	52 - 100			
Chromium	116.352	1.0	125.000	15.1960	80.9	53 - 113			

RPD

% Rec



Zinc

Certificate of Analysis

Leighton Consulting, Inc. Project Number: Stratham Homes, 10557.003

PQL

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Result

334.151

1.0

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Spike

Source

Analyte	(mg/kg)	(mg/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B4A0287 - EPA 3050B (continued)									
Matrix Spike (B4A0287-MS1) - Continued		Source: 1400	125-41	Prepared	: 1/20/2014	Analyzed: 1/21/	2014		
Cobalt	101.378	1.0	125.000	6.28872	76.1	53 - 104			
Copper	130.297	2.0	125.000	21.0964	87.4	51 - 122			
Lead	123.392	1.0	125.000	33.3522	72.0	51 - 106			
Molybdenum	96.5242	1.0	125.000	0.641466	76.7	55 - 103			
Nickel	109.777	1.0	125.000	12.0702	78.2	48 - 112			
Selenium	94.0220	1.0	125.000	ND	75.2	53 - 104			
Silver	105.084	1.0	125.000	ND	84.1	61 - 109			
Thallium	91.5574	1.0	125.000	ND	73.2	44 - 103			
Vanadium	136.997	1.0	125.000	29.3978	86.1	55 - 115			
Zinc	396.501	1.0	125.000	333.827	50.1	24 - 130			
Matrix Spike Dup (B4A0287-MSD1)		Source: 1400	125-41	Prepared	: 1/20/2014	Analyzed: 1/21/	2014		
Antimony	92.1790	2.0	125.000	0.347890	73.5	21 - 109	4.89	20	
Arsenic	105.073	1.0	125.000	5.80648	79.4	55 - 102	1.69	20	
Barium	151.481	1.0	125.000	55.6836	76.6	40 - 130	2.36	20	
Beryllium	101.591	1.0	125.000	0.290540	81.0	60 - 104	0.920	20	
Cadmium	95.8048	1.0	125.000	0.484343	76.3	52 - 100	3.63	20	
Chromium	116.187	1.0	125.000	15.1960	80.8	53 - 113	0.143	20	
Cobalt	102.653	1.0	125.000	6.28872	77.1	53 - 104	1.25	20	
Copper	129.382	2.0	125.000	21.0964	86.6	51 - 122	0.705	20	
Lead	123.161	1.0	125.000	33.3522	71.8	51 - 106	0.187	20	
Molybdenum	100.634	1.0	125.000	0.641466	80.0	55 - 103	4.17	20	
Nickel	105.105	1.0	125.000	12.0702	74.4	48 - 112	4.35	20	
Selenium	95.5836	1.0	125.000	ND	76.5	53 - 104	1.65	20	
Silver	106.456	1.0	125.000	ND	85.2	61 - 109	1.30	20	
Thallium	93.0372	1.0	125.000	ND	74.4	44 - 103	1.60	20	
Vanadium	133.119	1.0	125.000	29.3978	83.0	55 - 115	2.87	20	

RPD

% Rec

24 - 130

17.1

20

R

125.000

333.827

0.259



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(mg/kg)	(mg/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B4A0272 - EPA 7471									
Blank (B4A0272-BLK1)				Prepared	: 1/21/2014	Analyzed: 1/21	/2014		
Mercury	ND	0.10			NR				
LCS (B4A0272-BS1)				Prepared	: 1/21/2014	Analyzed: 1/21	/2014		
Mercury	0.776342	0.10	0.833333		93.2	80 - 120			
Matrix Spike (B4A0272-MS1)		Source: 1400)125-41	Prepared	: 1/21/2014	Analyzed: 1/21	/2014		
Mercury	0.839153	0.10	0.833333	0.052633	94.4	70 - 130			
Matrix Spike Dup (B4A0272-MSD1)		Source: 1400)125-41	Prepared	: 1/21/2014	Analyzed: 1/21	/2014		
Mercury	0.855522	0.10	0.833333	0.052633	96.3	70 - 130	1.93	20	
Post Spike (B4A0272-PS1)		Source: 1400)125-41	Prepared	: 1/21/2014	Analyzed: 1/21	/2014		
Mercury	0.005832		5.00000E-3	0.000632	104	85 - 115			



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Gasoline Range Organics by EPA 8015B (Modified) - Quality Control

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(mg/kg)	(mg/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B4A0266 - GCVOAS									
Blank (B4A0266-BLK1)				Prepared	d: 1/20/2014	Analyzed: 1/20	/2014		
T/R Hydrocarbons: C6-C12	ND	1.0			NR				
Surrogate: 4-Bromofluorobenzene	0.2074		0.200000	_	104	48 - 137		•	_
LCS (B4A0266-BS1)				Prepared	d: 1/20/2014	Analyzed: 1/20	/2014		
T/R Hydrocarbons: C6-C12	5.28600	1.0	5.00000		106	70 - 130			
Surrogate: 4-Bromofluorobenzene	0.2218		0.200000		111	48 - 137			
LCS Dup (B4A0266-BSD1)				Prepared	d: 1/20/2014	Analyzed: 1/20	/2014		
T/R Hydrocarbons: C6-C12	5.29700	1.0	5.00000		106	70 - 130	0.208	20	
Surrogate: 4-Bromofluorobenzene	0.2142		0.200000		107	48 - 137	·		
Matrix Spike (B4A0266-MS1)		Source: 1400)125-53	Prepared	d: 1/20/2014	Analyzed: 1/20	/2014		
T/R Hydrocarbons: C6-C12	5.06600	1.0	5.00000	ND	101	50 - 122			
Surrogate: 4-Bromofluorobenzene	0.2220		0.200000		111	48 - 137			
Matrix Spike Dup (B4A0266-MSD1)		Source: 1400	0125-53	Prepared	d: 1/20/2014	Analyzed: 1/20	/2014		
T/R Hydrocarbons: C6-C12	4.90200	1.0	5.00000	ND	98.0	50 - 122	3.29	20	
Surrogate: 4-Bromofluorobenzene	0.2172		0.200000		109	48 - 137			



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Hydrocarbon Chain Distribution by EPA 8015B (Modified) - Quality Control

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(mg/kg)	(mg/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B4A0245 - GCSEMI_DRO									
Blank (B4A0245-BLK1)				Prepared	l: 1/17/2014	Analyzed: 1/17	/2014		
T/R Hydrocarbons: C8-C10	ND	10			NR				
T/R Hydrocarbons: C10-C18	ND	10			NR				
T/R Hydrocarbons: C18-C28	ND	10			NR				
T/R Hydrocarbons: C28-C36	ND	10			NR				
T/R Hydrocarbons: C36-C40	ND	10			NR				
T/R Hydrocarbons: C8-C40 Total (HS)	ND	10			NR				
Surrogate: p-Terphenyl	82.80		80.0000		104	55 - 140			
LCS (B4A0245-BS1)				Prepared	l: 1/17/2014	Analyzed: 1/17	/2014		
DRO	938.780	10	1000.00		93.9	53 - 161			
Surrogate: p-Terphenyl	66.00		80.0000		82.5	55 - 140			
Matrix Spike (B4A0245-MS1)		Source: 1400	125-52	Prepared	l: 1/17/2014 <i>i</i>	Analyzed: 1/17	/2014		
DRO	1109.29	10	1000.00	ND	111	43 - 171			
Surrogate: p-Terphenyl	83.56		80.0000		104	55 - 140			
Matrix Spike Dup (B4A0245-MSD1)	Source: 1400125-52 Prepared				l: 1/17/2014	Analyzed: 1/17	/2014		
DRO	940.290	10	1000.00	ND	94.0	43 - 171	16.5	20	
Surrogate: p-Terphenyl	60.18		80.0000		75.2	55 - 140			



Heptachlor epoxide

Methoxychlor

Heptachlor epoxide [2C]

Certificate of Analysis

Leighton Consulting, Inc. Project Number: Stratham Homes, 10557.003

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Organochlorine Pesticides by EPA 8081 - Quality Control

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B4A0215 - GCSEMI_PCB/PEST									
Blank (B4A0215-BLK1)				Prepared	d: 1/16/2014 A	Analyzed: 1/16	/2014		
4,4'-DDD	ND	2.0			NR				
4,4'-DDD [2C]	ND	2.0			NR				
4,4'-DDE	ND	2.0			NR				
4,4'-DDE [2C]	ND	2.0			NR				
4,4'-DDT	ND	2.0			NR				
4,4'-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
TT 4 11 11	NID	1.0) ID				

NR

NR

NR

ND

ND

ND

1.0

1.0

5.0



Surrogate: Decachlorobiphenyl

Certificate of Analysis

Leighton Consulting, Inc. Project Number: Stratham Homes, 10557.003

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 01/22/2014

13.79

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B4A0215 - GCSEMI_PCB/	PEST (continued)								
Blank (B4A0215-BLK1) - Continued				Prepare	d: 1/16/2014 A	Analyzed: 1/16	/2014		
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				

16.6667

82.7

29 - 143



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B4A0215 - GCSEMI_PCB/PEST	(continued)								
LCS (B4A0215-BS1)				Prepared	d: 1/16/2014 A	Analyzed: 1/16/	2014		
4,4′-DDT	16.1963	2.0	16.6667		97.2	50 - 110			
4,4'-DDT [2C]	14.0673	2.0	16.6667		84.4	50 - 110			
Aldrin	13.9317	1.0	16.6667		83.6	59 - 101			
Aldrin [2C]	12.3692	1.0	16.6667		74.2	59 - 101			
Dieldrin	14.7977	2.0	16.6667		88.8	55 - 101			
Dieldrin [2C]	12.7853	2.0	16.6667		76.7	55 - 101			
Endrin	16.0753	2.0	16.6667		96.5	49 - 109			
Endrin [2C]	14.4183	2.0	16.6667		86.5	49 - 109			
gamma-BHC	13.5008	1.0	16.6667		81.0	62 - 102			
gamma-BHC [2C]	12.2983	1.0	16.6667		73.8	62 - 102			
Heptachlor	14.9480	1.0	16.6667		89.7	50 - 123			
Heptachlor [2C]	13.8875	1.0	16.6667		83.3	50 - 123			
Surrogate: Decachlorobiphenyl	13.54		16.6667	•	81.3	29 - 143		•	
Surrogate: Decachlorobiphenyl [2C]	14.99		16.6667		90.0	29 - 143			
Surrogate: Tetrachloro-m-xylene	13.16		16.6667		79.0	52 - 114			
Surrogate: Tetrachloro-m-xylene [2C]	12.55		16.6667		75.3	52 - 114			



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes

Batch B4A0215 - GCSEMI_PCB/PEST (continued)

Matrix Spike (B4A0215-MS1)		Source: 140	Prepared: 1/16/2014 Analyzed: 1/16/2014			
Aldrin	13.9372	1.0	16.6667	ND	83.6	51 - 137
Aldrin [2C]	21.5867	1.0	16.6667	ND	130	51 - 137
Dieldrin	15.3257	2.0	16.6667	ND	92.0	39 - 150
Dieldrin [2C]	19.4317	2.0	16.6667	ND	117	39 - 150
Endrin	17.4887	2.0	16.6667	ND	105	41 - 160
Surrogate: Decachlorobiphenyl	13.82		16.6667		82.9	29 - 143
Surrogate: Decachlorobiphenyl [2C]	14.96		16.6667		89.8	29 - 143
Surrogate: Tetrachloro-m-xylene	9.549		16.6667		57.3	52 - 114
Surrogate: Tetrachloro-m-xylene [2C]	12.38		16.6667		74.3	52 - 114



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

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Irvine, CA 92614 Reported: 01/22/2014

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B4A0215 - GCSEMI PCB/P.	EST (continued)								
Matrix Spike (B4A0215-MS2)	201 (001111111111)	Source: 1400	127-01RE1	Prepared	: 1/16/2014	Analyzed: 1/16	/2014		
Endrin [2C]	424.600	50	16.6667	ND	2550	41 - 160			M1
gamma-BHC	170.788	25	16.6667	183.242	-74.7	63 - 126			M1
gamma-BHC [2C]	160.379	25	16.6667	178.729	-110	63 - 126			M1
Heptachlor	46.9958	25	16.6667	ND	282	32 - 177			M1
Heptachlor [2C]	29.9125	25	16.6667	ND	179	32 - 177			M1



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes

Batch B4A0215 - GCSEMI_PCB/PEST (continued)

Matrix Spike (B4A0215-MS3)	Source: 1400127-01RE2			Prepared	1/16/2014		
4,4′-DDT	1648.72	200	16.6667	2679.95	-6190	32 - 161	M1
4,4'-DDT [2C]	1565.63	200	16.6667	2618.55	-6320	32 - 161	M1
Surrogate: Decachlorobiphenyl	0.000		16.6667		NR	29 - 143	S4
Surrogate: Decachlorobiphenyl [2C]	0.000		16.6667		NR	29 - 143	S4
Surrogate: Tetrachloro-m-xylene	0.000		16.6667		NR	52 - 114	S4
Surrogate: Tetrachloro-m-xylene [2C]	0.000		16.6667		NR	52 - 114	S4



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B4A0215 - GCSEMI_PCB/PEST	(continued)								
Matrix Spike Dup (B4A0215-MSD1)		Source: 1400	127-01	Prepared	d: 1/16/2014 A	Analyzed: 1/16/	2014		
Aldrin	14.4187	1.0	16.6667	ND	86.5	51 - 137	3.40	20	
Aldrin [2C]	21.7398	1.0	16.6667	ND	130	51 - 137	0.707	20	

Dieldrin	15.6578	2.0	16.6667	ND	93.9	39 - 150	2.14	20	
Dieldrin [2C]	19.4548	2.0	16.6667	ND	117	39 - 150	0.119	20	
Endrin	17.5568	2.0	16.6667	ND	105	41 - 160	0.389	20	
Surrogate: Decachlorobiphenyl	13.43		16.6667		80.6	29 - 143			
Surrogate: Decachlorobiphenyl [2C]	14.92		16.6667		89.5	29 - 143			
Surrogate: Tetrachloro-m-xylene	9.610		16.6667		57.7	52 - 114			
Surrogate: Tetrachloro-m-xylene [2C]	12.44		16.6667		74.6	52 - 114			



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B4A0215 - GCSEMI_PCB/PEST	Γ (continued)								
Matrix Spike Dup (B4A0215-MSD2)		Source: 1400	127-01RE1	Prepared	: 1/16/2014	Analyzed: 1/16	/2014		
Endrin [2C]	438.962	50	16.6667	ND	2630	41 - 160	3.33	20	M1
gamma-BHC	172.179	25	16.6667	183.242	-66.4	63 - 126	0.812	20	M1
gamma-BHC [2C]	165.588	25	16.6667	178.729	-78.9	63 - 126	3.20	20	M1
Heptachlor	48.8375	25	16.6667	ND	293	32 - 177	3.84	20	M1
Heptachlor [2C]	43.3000	25	16.6667	ND	260	32 - 177	36.6	20	M1, R
Surrogate: Decachlorobiphenyl	0.000		16.6667	•	NR	29 - 143		•	S4
Surrogate: Decachlorobiphenyl [2C]	0.000		16.6667		NR	29 - 143			S4
Surrogate: Tetrachloro-m-xylene	0.000		16.6667		NR	52 - 114			S4
Surrogate: Tetrachloro-m-xylene [2C]	0.000		16.6667		NR	52 - 114			S4



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

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Irvine, CA 92614 Reported: 01/22/2014

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B4A0215 - GCSEMI PCR/PES	T (continued)								

Batch B4A0215 -	GCSEMI PCB/PEST ((continued)

Matrix Spike Dup (B4A0215-MSD3)	Source: 1400127-01RE2			Prepared: 1/16/2014 Analyzed: 1/16/2014					
4,4′-DDT	1644.72	200	16.6667	2679.95	-6210	32 - 161	0.243	20	M1
4,4'-DDT [2C]	1582.45	200	16.6667	2618.55	-6220	32 - 161	1.07	20	M1
Surrogate: Decachlorobiphenyl	0.000		16.6667		NR	29 - 143			S4
Surrogate: Decachlorobiphenyl [2C]	0.000		16.6667		NR	29 - 143			S4
Surrogate: Tetrachloro-m-xylene	0.000		16.6667		NR	52 - 114			S4
Surrogate: Tetrachloro-m-xylene [2C]	0.000		16.6667		NR	52 - 114			S4



Methoxychlor

Certificate of Analysis

Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B4A0222 - GCSEMI_PCB/PI	EST								
	LU I			D	1. 1/1//2011		/2014		
Blank (B4A0222-BLK1)				Prepared		Analyzed: 1/16	/2014		
4,4′-DDD	ND	2.0			NR				
4,4'-DDD [2C]	ND	2.0			NR				
4,4'-DDE	ND	2.0			NR				
4,4′-DDE [2C]	ND	2.0			NR				
4,4′-DDT	ND	2.0			NR				
4,4'-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				
3.6.4. 1.1	3.775	- 0			3.775				

ND

5.0

NR



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B4A0222 - GCSEMI_PC	B/PEST (continued)								
Blank (B4A0222-BLK1) - Continu	ed			Prepare	d: 1/16/2014 A	Analyzed: 1/16	/2014		
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
т 1 гост	N.ID	50) ID				



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B4A0222 - GCSEMI_PCB/PES	T (continued)								
Battii B4A0222 - GCSEMI_I CB/I ES	1 (continued)								
LCS (B4A0222-BS1)				Prepare	d: 1/16/2014 A	Analyzed: 1/16/	2014		
4,4′-DDT	11.8655	2.0	16.6667		71.2	50 - 110			
4,4'-DDT [2C]	11.9407	2.0	16.6667		71.6	50 - 110			
Aldrin	11.8807	1.0	16.6667		71.3	59 - 101			
Aldrin [2C]	12.2002	1.0	16.6667		73.2	59 - 101			
Dieldrin	11.9067	2.0	16.6667		71.4	55 - 101			
Dieldrin [2C]	12.3107	2.0	16.6667		73.9	55 - 101			
Endrin	12.6547	2.0	16.6667		75.9	49 - 109			
Endrin [2C]	12.2163	2.0	16.6667		73.3	49 - 109			
gamma-BHC	12.2208	1.0	16.6667		73.3	62 - 102			
gamma-BHC [2C]	12.3720	1.0	16.6667		74.2	62 - 102			
Heptachlor	12.1452	1.0	16.6667		72.9	50 - 123			
Heptachlor [2C]	12.4520	1.0	16.6667		74.7	50 - 123			
Surrogate: Decachlorobiphenyl	12.11		16.6667		72.7	29 - 143		•	
Surrogate: Decachlorobiphenyl [2C]	11.96		16.6667		71.8	29 - 143			
Surrogate: Tetrachloro-m-xylene	11.91		16.6667		71.4	52 - 114			
Surrogate: Tetrachloro-m-xylene [2C]	12.23		16.6667		73.4	52 - 114			



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes

Batch B4A0222 - GCSEMI_PCB/PEST (continued)

Matrix Spike (B4A0222-MS1)		Source: 140	00125-49	Prepared	d: 1/16/2014	Analyzed: 1/16/2014
4,4´-DDT	11.1330	2.0	16.6667	ND	66.8	32 - 161
4,4'-DDT [2C]	14.0250	2.0	16.6667	ND	84.1	32 - 161
Aldrin	13.9740	1.0	16.6667	ND	83.8	51 - 137
Aldrin [2C]	13.7785	1.0	16.6667	ND	82.7	51 - 137
Dieldrin	14.1252	2.0	16.6667	ND	84.8	39 - 150
Dieldrin [2C]	14.1825	2.0	16.6667	ND	85.1	39 - 150
Endrin	15.7195	2.0	16.6667	ND	94.3	41 - 160
Endrin [2C]	14.1878	2.0	16.6667	ND	85.1	41 - 160
gamma-BHC	14.7845	1.0	16.6667	ND	88.7	63 - 126
gamma-BHC [2C]	14.1883	1.0	16.6667	ND	85.1	63 - 126
Heptachlor	15.0838	1.0	16.6667	ND	90.5	32 - 177
Heptachlor [2C]	14.3183	1.0	16.6667	ND	85.9	32 - 177
Surrogate: Decachlorobiphenyl	14.07		16.6667		84.4	29 - 143
Surrogate: Decachlorobiphenyl [2C]	13.61		16.6667		81.7	29 - 143
Surrogate: Tetrachloro-m-xylene	14.03		16.6667		84.2	52 - 114
Surrogate: Tetrachloro-m-xylene [2C]	13.76		16.6667		82.6	52 - 114



Surrogate: Decachlorobiphenyl [2C]

 ${\it Surrogate: Tetrachloro-m-xylene~[2C]}$

Surrogate: Tetrachloro-m-xylene

Certificate of Analysis

Leighton Consulting, Inc. Project Number: Stratham Homes, 10557.003

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

14.51

14.63

13.93

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B4A0222 - GCSEMI PCB/PES'	T (continued)								
Matrix Spike Dup (B4A0222-MSD1)	i (continueu)	Source: 1400	1125-49	Prenare	d: 1/16/2014	Analyzed: 1/16/	/2014		
,	11 0000			1		,		20	
4,4′-DDT	11.9008	2.0	16.6667	ND	71.4	32 - 161	6.67	20	
4,4'-DDT [2C]	14.9472	2.0	16.6667	ND	89.7	32 - 161	6.37	20	
Aldrin	14.8553	1.0	16.6667	ND	89.1	51 - 137	6.11	20	
Aldrin [2C]	14.4937	1.0	16.6667	ND	87.0	51 - 137	5.06	20	
Dieldrin	15.1762	2.0	16.6667	ND	91.1	39 - 150	7.17	20	
Dieldrin [2C]	15.0903	2.0	16.6667	ND	90.5	39 - 150	6.20	20	
Endrin	16.9117	2.0	16.6667	ND	101	41 - 160	7.31	20	
Endrin [2C]	15.0417	2.0	16.6667	ND	90.2	41 - 160	5.84	20	
gamma-BHC	15.5953	1.0	16.6667	ND	93.6	63 - 126	5.34	20	
gamma-BHC [2C]	14.8293	1.0	16.6667	ND	89.0	63 - 126	4.42	20	
Heptachlor	16.1363	1.0	16.6667	ND	96.8	32 - 177	6.74	20	
Heptachlor [2C]	15.1162	1.0	16.6667	ND	90.7	32 - 177	5.42	20	
Surrogate: Decachlorobiphenyl	14.94		16.6667		89.6	29 - 143			

16.6667

16.6667

16.6667

29 - 143

52 - 114

52 - 114

87.1 87.8

83.6



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Volatile Organic Compounds by EPA 8260B - Quality Control

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B4A0214 - MSVOAS									
Blank (B4A0214-BLK1)				Prepared	d: 1/16/2014 A	Analyzed: 1/16	/2014		
1,1,1,2-Tetrachloroethane	ND	5.0			NR				
1,1,1-Trichloroethane	ND	5.0			NR				
1,1,2,2-Tetrachloroethane	ND	5.0			NR				
1,1,2-Trichloroethane	ND	5.0			NR				
1,1-Dichloroethane	ND	5.0			NR				
1,1-Dichloroethene	ND	5.0			NR				
1,1-Dichloropropene	ND	5.0			NR				
1,2,3-Trichloropropane	ND	5.0			NR				
1,2,3-Trichlorobenzene	ND	5.0			NR				
1,2,4-Trichlorobenzene	ND	5.0			NR				
1,2,4-Trimethylbenzene	ND	5.0			NR				
1,2-Dibromo-3-chloropropane	ND	10			NR				
1,2-Dibromoethane	ND	5.0			NR				
1,2-Dichlorobenzene	ND	5.0			NR				
1,2-Dichloroethane	ND	5.0			NR				
1,2-Dichloropropane	ND	5.0			NR				
1,3,5-Trimethylbenzene	ND	5.0			NR				
1,3-Dichlorobenzene	ND	5.0			NR				
1,3-Dichloropropane	ND	5.0			NR				
1,4-Dichlorobenzene	ND	5.0			NR				
2,2-Dichloropropane	ND	5.0			NR				
2-Chlorotoluene	ND	5.0			NR				
4-Chlorotoluene	ND	5.0			NR				
4-Isopropyltoluene	ND	5.0			NR				
Benzene	ND	5.0			NR				
Bromobenzene	ND	5.0			NR				
Bromochloromethane	ND	5.0			NR				
Bromodichloromethane	ND	5.0			NR				
Bromoform	ND	5.0			NR				
Bromomethane	ND	5.0			NR				
Carbon disulfide	ND	5.0			NR				
Carbon tetrachloride	ND	5.0			NR				
Chlorobenzene	ND	5.0			NR				
Chloroethane	ND	5.0			NR				
Chloroform	ND	5.0			NR				
Chloromethane	ND	5.0			NR				
cis-1,2-Dichloroethene	ND	5.0			NR				
cis-1,3-Dichloropropene	ND	5.0			NR				
Di-isopropyl ether	ND	5.0			NR				
Dibromochloromethane	ND	5.0			NR				
Dibromomethane	ND	5.0			NR				



Leighton Consulting, Inc. Project Number: Stratham Homes, 10557.003

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B4A0214 - MSVOAS (continued)									
Blank (B4A0214-BLK1) - Continued				Prepared	l: 1/16/2014 A	analyzed: 1/16/2	2014		
Dichlorodifluoromethane	ND	5.0			NR				
Ethyl Acetate	ND	50			NR				
Ethyl Ether	ND	50			NR				
Ethyl tert-butyl ether	ND	5.0			NR				
Ethylbenzene	ND	5.0			NR				
Freon-113	ND	5.0			NR				
Hexachlorobutadiene	ND	5.0			NR				
Isopropylbenzene	ND	5.0			NR				
m,p-Xylene	ND	10			NR				
Methylene chloride	ND	5.0			NR				
MTBE	ND	5.0			NR				
n-Butylbenzene	ND	5.0			NR				
n-Propylbenzene	ND	5.0			NR				
Naphthalene	ND	5.0			NR				
o-Xylene	ND	5.0			NR				
sec-Butylbenzene	ND	5.0			NR				
Styrene	ND	5.0			NR				
tert-Amyl methyl ether	ND	5.0			NR				
tert-Butanol	ND	100			NR				
tert-Butylbenzene	ND	5.0			NR				
Tetrachloroethene	ND	5.0			NR				
Toluene	ND	5.0			NR				
trans-1,2-Dichloroethene	ND	5.0			NR				
trans-1,3-Dichloropropene	ND	5.0			NR				
Trichloroethene	ND	5.0			NR				
Trichlorofluoromethane	ND	5.0			NR				
Vinyl acetate	ND	50			NR				
Vinyl chloride	ND	5.0			NR				
Surrogate: 1,2-Dichloroethane-d4	52.47		50.0000		105	70 - 130			
Surrogate: 4-Bromofluorobenzene	46.59		50.0000		93.2	70 - 130			
Surrogate: Dibromofluoromethane	50.52		50.0000		101	70 - 130			
Surrogate: Toluene-d8	49.31		50.0000		98.6	70 - 130			



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B4A0214 - MSVOAS (continued)									
LCS (B4A0214-BS1)				Prepared	d: 1/16/2014 A	Analyzed: 1/16/	2014		
1,1-Dichloroethene	49.5900	5.0	50.0000		99.2	70 - 130			
Benzene	51.2500	5.0	50.0000		102	70 - 130			
Chlorobenzene	51.8700	5.0	50.0000		104	70 - 130			
MTBE	45.8600	5.0	50.0000		91.7	70 - 130			
Toluene	52.7000	5.0	50.0000		105	70 - 130			
Trichloroethene	53.9100	5.0	50.0000		108	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	50.94		50.0000		102	70 - 130			
Surrogate: 4-Bromofluorobenzene	50.60		50.0000		101	70 - 130			
Surrogate: Dibromofluoromethane	49.85		50.0000		99.7	70 - 130			
Surrogate: Toluene-d8	50.78		50.0000		102	70 - 130			



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B4A0214 - MSVOAS (continue	'q)								
,	u,			Dronoro	d: 1/16/2014	Amakuzadi 1/16	/2014		
LCS Dup (B4A0214-BSD1)				rrepare	u. 1/16/2014 /	Analyzed: 1/16	/2014		
1,1-Dichloroethene	49.4000	5.0	50.0000		98.8	70 - 130	0.384	20	
Benzene	50.6300	5.0	50.0000		101	70 - 130	1.22	20	
Chlorobenzene	51.8000	5.0	50.0000		104	70 - 130	0.135	20	
MTBE	46.2300	5.0	50.0000		92.5	70 - 130	0.804	20	
Toluene	52.7700	5.0	50.0000		106	70 - 130	0.133	20	
Trichloroethene	55.5500	5.0	50.0000		111	70 - 130	3.00	20	
Surrogate: 1,2-Dichloroethane-d4	51.32	•	50.0000		103	70 - 130	•		
Surrogate: 4-Bromofluorobenzene	51.47		50.0000		103	70 - 130			
Surrogate: Dibromofluoromethane	52.26		50.0000		105	70 - 130			
Surrogate: Toluene-d8	50.73		50.0000		101	70 - 130			



Surrogate: Toluene-d8

Certificate of Analysis

Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

49.36

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B4A0214 - MSVOAS (continued)									
Duplicate (B4A0214-DUP1)		Source: 1400	125-51	Prepared	d: 1/16/2014 A	Analyzed: 1/16	/2014		
1,1-Dichloroethene	ND	5.0		ND	NR			20	
Benzene	ND	5.0		ND	NR			20	
Chlorobenzene	ND	5.0		ND	NR			20	
MTBE	ND	5.0		ND	NR			20	
Toluene	ND	5.0		ND	NR			20	
Trichloroethene	ND	5.0		ND	NR			20	
Surrogate: 1,2-Dichloroethane-d4	52.60		50.0000		105	70 - 130			
Surrogate: 4-Bromofluorobenzene	48.63		50.0000		97.3	70 - 130			
Surrogate: Dibromofluoromethane	51.48		50.0000		103	70 - 130			

50.0000

98.7

70 - 130



Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes

Batch B4A0214 - MSVOAS (continued)

Matrix Spike (B4A0214-MS1)		Source: 140	00125-51	Prepared	d: 1/16/2014	Analyzed: 1/16/2014
1,1-Dichloroethene	45.8600	5.0	50.0000	ND	91.7	70 - 130
Benzene	45.2900	5.0	50.0000	ND	90.6	70 - 130
Chlorobenzene	47.3900	5.0	50.0000	ND	94.8	70 - 130
MTBE	41.0200	5.0	50.0000	ND	82.0	70 - 130
Toluene	47.6400	5.0	50.0000	ND	95.3	70 - 130
Trichloroethene	50.1400	5.0	50.0000	ND	100	70 - 130
Surrogate: 1,2-Dichloroethane-d4	51.62		50.0000		103	70 - 130
Surrogate: 4-Bromofluorobenzene	51.31		50.0000		103	70 - 130
Surrogate: Dibromofluoromethane	48.92		50.0000		97.8	70 - 130
Surrogate: Toluene-d8	49.31		50.0000		98.6	70 - 130



Surrogate: Toluene-d8

Certificate of Analysis

Project Number: Stratham Homes, 10557.003 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 01/22/2014

49.49

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B4A0214 - MSVOAS (continued	l)								
Matrix Spike Dup (B4A0214-MSD1)		Source: 1400	125-51	Prepare	d: 1/16/2014	Analyzed: 1/16	/2014		
1,1-Dichloroethene	47.6800	5.0	50.0000	ND	95.4	70 - 130	3.89	20	
Benzene	45.9700	5.0	50.0000	ND	91.9	70 - 130	1.49	20	
Chlorobenzene	46.7000	5.0	50.0000	ND	93.4	70 - 130	1.47	20	
MTBE	43.0900	5.0	50.0000	ND	86.2	70 - 130	4.92	20	
Toluene	47.8600	5.0	50.0000	ND	95.7	70 - 130	0.461	20	
Trichloroethene	50.3300	5.0	50.0000	ND	101	70 - 130	0.378	20	
Surrogate: 1,2-Dichloroethane-d4	54.32		50.0000	•	109	70 - 130		•	•
Surrogate: 4-Bromofluorobenzene	48.53		50.0000		97.1	70 - 130			
Surrogate: Dibromofluoromethane	50.53		50.0000		101	70 - 130			

50.0000

99.0

70 - 130



Leighton Consulting, Inc. Project Number: Stratham Homes, 10557.003

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 01/22/2014

Notes and Definitions

S4 Surrogate was diluted out.

R RPD value outside acceptance criteria. Calculation is based on raw values.

M1 Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.

ND Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL,

analyte is not detected at or above the Method Detection Limit (MDL)

PQL Practical Quantitation Limit

MDL Method Detection Limit

NR Not Reported

RPD Relative Percent Difference

CA1 CA-NELAP (CDPH)

CA2 CA-ELAP (CDPH)

OR1 OR-NELAP (OSPHL)

TX1 TX-NELAP (TCEQ)

Notes:

(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.

(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.

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	: (562) 989-4045 • Fax		NOTE: Please in proper pricing of			o. to e	nsure		☐ Othe	r:		_	3. CON	TAINER	INTAC	ГҮ□	N□ 6	. PRE	SERVE)	Y 🗆 N 🗆
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proper pricing of your project.

Project #:

NOTE: Please include your Quote No. to ensure

Address:

City

ADVANCED TECHNOLOGY

LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755

Tel: (562) 989-4045 • Fax: (562) 989-4040

Client:

Project Name:

Attn:

Method of Transport

☐ Client

☐ FedEx

Other:

(Printed Name)

☐ GSO

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FOR LABORATORY USE ONLY:

3. CONTAINER INTACT Y□ N□ 6. PRESERVED

(Signature)

1. CHILLED

Zip Code

Sample Condition Upon Receipt

Y□ N□ 4. SEALED

2. HEADSPACE (VOA) Y N S. # OF SPLS MATCH COC Y N N

TEL:

FAX:

Page 121 of 130

Quote #:

P.O.#: ____

Logged By:____

NOTE: Please include your Quote No. to ensure

ADVANCED TECHNOLOGY

LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755

Method of Transport

☐ Client

☐ FedEx

☐ Other:

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FOR LABORATORY USE ONLY:

3. CONTAINER INTACT Y □ N □ 6. PRESERVED

1. CHILLED

Sample Condition Upon Receipt

Y□ N□ 4. SEALED

2. HEADSPACE (VOA) Y□ N□ 5. # OF SPLS MATCH COC Y□ N□

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P.O.#: _____

Logged By:

ADVANCED TECHNOLOGY

LABORATORIES

Method of Transport

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FOR LABORATORY USE ONLY:

1. CHILLED

Sample Condition Upon Receipt

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2. HEADSPACE (VOA) Y□ N□ 5. # OF SPLS MATCH COC Y□ N□

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Quote #:

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NOTE: Please include your Quote No. to ensure

proper pricing of your project.

Logged By:

Method of Transport

X ATL

☐ OnTrac

☐ Client

☐ FedEx

☐ Other:

☐ GSO

FOR LABORATORY USE ONLY:

3. CONTAINER INTACT Y □ N □ 6. PRESERVED

1. CHILLED

Zip Code

Sample Condition Upon Receipt

Y□ N□ 4. SEALED

2. HEADSPACE (VOA) Y□ N□ 5. # OF SPLS MATCH COC Y□ N□

TEL:

FAX:

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YONE

ADVANCED TECHNOLOGY

LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755

Tel: (562) 989-4045 • Fax: (562) 989-4040

Client:

Attn:

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Fernando Diwa

From:

Brynn McCulloch [bmcculloch@leightongroup.com]

Sent:

Wednesday, January 15, 2014 4:18 PM

To: Subject: Carmen Aguila RE: Sample Pick-up

Carmen,

Below is the analysis plan for the samples.

- LB1 through LB5, composite all 0.5' samples and analyze composite for OCPs. Individually analyze the 0.5' samples for lead (not the composite) and composite all 2.5' samples and analyze composite for OCPs.
- LB6, LB9, LB10, and LB11, composite all 0.5' samples and analyze composite for OCPs. Individually analyze the 0.5' samples for lead (not the composite) and composite all 2.5' samples and analyze composite for OCPs.
- LB7 and LB8, composite all 0.5' samples and analyze composite for OCPs. Individually analyze the 0.5' samples for lead (not the composite) and composite all 2.5' samples and analyze composite for OCPs.
- LB12 and LB13, composite all 0.5' samples and analyze composite for OCPs. Individually analyze the 0.5' samples for lead (not the composite) and composite all 2.5' samples and analyze composite for OCPs.
- LB14, analyze the 0.5' sample for OCPs and lead. Analyze the 2.5' sample for OCPs.
- LB15 and LB16, composite all 0.5' samples and analyze composite for OCPs. Individually analyze the 0.5' samples for lead (not the composite) and composite all 2.5' samples and analyze composite for OCPs.
- LB17 and LB18, composite all 0.5' samples and analyze composite for OCPs. Individually analyze the 0.5' samples for lead (not the composite) and composite all 2.5' samples and analyze composite for OCPs.
- LB19, analyze the 0.5' sample for OCPs and lead. Analyze the 2.5' sample for OCPs.
- LB20, analyze the 0.5' sample for OCPs and lead. Analyze the 2.5' sample for OCPs. Analyze the 5', 7.5', and 10' for TPH carbon chain, Title 22 metals, and OCPs.
- LB21 and LB22, composite all 0.5' samples and analyze composite for OCPs. Individually analyze the 0.5' samples for lead (not the composite) and composite all 2.5' samples and analyze composite for OCPs.
- LB23, analyze the 0.5' sample for OCPs and lead. Analyze the 2.5' sample for OCPs.
- LB24 through LB27, analyze all depths for TPH carbon chain (C6 thru C40 if possible) and analyze the 5' and 10' samples at each location for full scan VOCs, including oxygenates.
- LB28 through LB31, analyze each depth for OCPs and arsenic, individually.
- LB32, analyze the 5' sample for TPH carbon chain (same as above). Hold the 2.5' and 7.5' samples.

Hopefully this all makes sense, if not, please let me know.

Thanks!

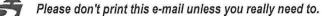
Brynn McCulloch, PG 8798

Project Geologist 17781 Cowan Irvine, Ca 92614 Cell – 949.394.2306 Office – 949.681.4287 Fax – 949.250.1114

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From: Carmen Aguila [mailto:Carmen@atlglobal.com]

Sent: Wednesday, January 15, 2014 1:58 PM

To: Brynn McCulloch

Subject: FW: Sample Pick-up

Hi Brynn,

Are the samples marked "Lb" means lead analysis and what test do we need to run for the composite samples? Are we compositing the 0.5 or 2.5 depth? Also, do you have a specific TPH carbon chain range. Our standard range is C8-C40. Please advise.

Thank you, Carmen

From: Carmen Aguila

Sent: Wednesday, January 15, 2014 1:48 PM

To: 'Brynn McCulloch'

Subject: RE: Sample Pick-up

Hi Brynn,

Attached are the CoC's for the samples we picked up at the Rancho Cucamonga office.

Thank you, Carmen

From: Brynn McCulloch [mailto:bmcculloch@leightongroup.com]

Sent: Monday, January 13, 2014 1:54 PM

To: Carmen Aguila

Subject: FW: Sample Pick-up

Carmen,

Please see below for my email sent to Rachelle.

Thank you!

Brynn McCulloch, PG 8798

Project Geologist 17781 Cowan Irvine, Ca 92614 Cell – 949.394.2306 Office – 949.681.4287 Fax – 949.250.1114

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Please don't print this e-mail unless you really need to.

From: Brynn McCulloch

Sent: Monday, January 13, 2014 1:53 PM **To:** Rachelle Arada (<u>rachelle@atlglobal.com</u>)

Subject: Sample Pick-up

Hi Rachelle,

I'll have some soil samples that'll need to be picked up from our Rancho Cucamonga office on Wednesday morning. The address is 10532 Acacia Street, Suite B-6. The samples will be dropped off tomorrow evening, one to two ice chests, and will be located right inside the front door.

Thanks!

Brynn McCulloch, PG 8798

Project Geologist 17781 Cowan Irvine, Ca 92614 Cell – 949.394.2306 Office – 949.681.4287 Fax – 949.250.1114

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Please don't print this e-mail unless you really need to.

January 22, 2014

Ms. Brynn McCulloch Leighton Consulting, Inc. 17781 Cowan, Suite 200 Irvine, CA 92614-6009

Re: Asbestos and lead paint survey for the property located at 4570 Francis Avenue, Chino, CA; performed January 14, 2014; HSA Project Number 140178LA.

Dear Ms. McCulloch:

Pursuant to your request, Health Science Associates (HSA) performed an asbestos and lead-based paint (LBP) survey at the above referenced location for the determination of asbestos containing and/or lead coated materials. This project was performed on January 14, 2014 by Kurt Seubert, California Certified Asbestos Consultant (CAC) and California Department of Public Health (CDPH), Certified Lead Inspector/Assessor/Project Monitor (I/A/PM), under the direction of Kathy S. Jones, Certified Industrial Hygienist (CIH), CAC, Certified Indoor Air Quality Manager (CIAQM), CDPH Lead Project Designer and Vice President.

The collection of suspect asbestos material samples was performed to determine if the sampled materials were either asbestos containing material (ACM), defined by the EPA as any material containing greater than one percent asbestos, or asbestos containing construction material (ACCM), defined by the State of California as any construction material containing greater than 0.1 percent asbestos.

The suspect asbestos material samples were collected and submitted to LA Testing's Garden Grove, CA, Environmental and Industrial Hygiene laboratory for analysis via polarized light microscopy (PLM) with dispersion staining in accordance with EPA method 600/R-93-116. The lower limit of detection for this method is one percent (1%). A total of twenty (20) suspect ACM samples were collected for this survey. None of the samples were determined to be ACM or ACCM. A description of the sampling locations with the PLM asbestos analytical results and estimated quantities are located on Table I.

The lead survey included non-destructive testing with an X-Ray Fluorescence (XRF) lead paint analyzer to identify potential sources of lead-based paint (LBP) and lead-containing paint (LCP). In conjunction with the XRF sampling, limited collection of bulk paint chip samples was performed for those materials considered inconclusive via the XRF. A total of forty five (45) XRF readings were collected at this location. Of these, none of the XRF tests were positive for LBP and four (4) of the tests were identified as positive for LCP. A description of the XRF test locations and their results are located on Table II.

The XRF analyzer is a direct-read instrument that provides the inspector with a lead concentration reported in milligrams per centimeter squared (mg/cm²). The readings are categorized as follows:

Ms. Brynn McCulloch HSA Project No.: 140178LA January 22, 2014 Page 2

Greater than or equal to (\ge) 1.0 mg/cm² = Lead-Based Paint (LBP); \ge 0.3 mg/cm² and less than (<) 1.0 mg/cm² = Lead-Containing Paint (LCP); and \ge 0.0 mg/cm² and < 0.3 mg/cm² = Possible Lead containing coating - paint chip sample recommended.

When paint chip sampling was deemed appropriate, it was performed utilizing accepted professional methodologies. These samples were analyzed in LA Testing's Garden Grove, CA, Environmental and Industrial Hygiene laboratory using inductively coupled argon plasma, atomic emission absorption (ICAP, AES) or Flame Atomic Absorption Spectroscopy (AA) in accordance with EPA method 6010 or 7000. A total of three (3) paint chips were collected. Of these, one was determined to be LBP. A description of the sampling locations and their analytical results are located in Table III.

It should be noted that the XRF analyzer is a direct-read instrument that is *not* capable of providing a negative determination for lead in coatings on components such as ceramic tile and porcelain. Therefore, anyone disposing of these or any lead components should conduct a waste profile prior to disposal. This is to comply with all local, State and Federal laws in regards to proper waste disposal.

After sample collection, all samples were transported via chain-of-custody procedures to the laboratory for analysis. The laboratory maintains accreditations by the American Industrial Hygiene Association (AIHA), the National Voluntary Laboratory Accreditation Program (NVLAP), the California Department of Public Health Environmental Laboratory Accreditation Program (ELAP), and AIHA's Environmental Lead Laboratory Accreditation Program (ELLAP).

Drawings either provided by Leighton Consulting, Inc., or generated by HSA have been used to depict sampling locations. These drawings are located in Appendix A. The laboratory reports with chain of custody documentation are located in Appendix B.

Exclusions/Limitations

HSA was required by Leighton Consulting, Inc., to avoid performing unnecessary and/or excessive destructive sampling during this survey. Therefore, HSA's on-site sampling investigation did not access hidden and unknown portions of the building, such as between walls, under inaccessible foundations, above plaster ceilings, etc. Site access was also limited to specific time periods acceptable to Leighton Consulting, Inc. Generally, furniture and fixtures/equipment were also excluded from this survey, unless specifically noted.

HSA's scope of work did not include collection of samples for any other suspect hazardous materials (i.e. ground water samples, suspect mercury switches, PCBs, hidden wiring, etc.), which may have been utilized or installed at the buildings during the course of normal operations.

Ms. Brynn McCulloch HSA Project No.: 140178LA January 22, 2014

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BUILDING GENERAL SITE DESCRIPTION

A variety of structures were present on the property located at 4570 Francis Avenue, Chino, CA, of these only five structures were suspected of containing asbestos or lead containing materials.

The southeast structure consisted of wood siding and corrugated metal over wood framing and wood studs, with a corrugated metal roofing system, on a slab foundation. The structure appears to have been used as a vehicle and equipment storage barn.

The east structure consisted of wood siding and corrugated metal over wood framing and wood studs, with a corrugated metal roofing system, on dirt. The structure appears to have been used for a rabbit pen with a storage room attached to the pens.

The northeast structure consisted of wood siding and chicken wire metal mesh over wood framing and wood studs with corrugated metal roofing system, on dirt. The structure appears to have been used for storage.

The northwest structure consists of wood siding over wood framing on a wood floor. No roofing system was present. This structure was used as a restroom.

Southwest structure consists of stucco covering wood framing, with wood stud and concrete on a slab foundation with a corrugated metal roof. The structure appears to have been used for storage.

ASBESTOS STANDARDS AND GUIDELINES

Asbestos Containing Material (ACM) - Any material containing more than one percent asbestos, as defined by the EPA.

Asbestos Containing Construction Material (ACCM) - Any manufactured construction material which contains more than one-tenth of one percent asbestos by weight, as defined by the State of California.

If the total amount of ACM or ACCM to be abated is greater than 100 square feet the following regulations must be met.

• South Coast Air Quality Management District (SCAQMD), Rule 1403, this rule requires District notification and removal of all ACM items (friable and non-friable) from a building prior to demolition. It requires the use of a state certified and a registered asbestos abatement contractor and a ten (10) day written notification for asbestos disturbance activities greater than 100 square feet. However, no notification is required if there is less than 100 square feet of ACM in the building.

HSA Project No.: 140178LA

January 22, 2014

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- Labor Code 6501.5, requires the use of a state certified and registered asbestos abatement contractor for all asbestos removal projects of more than 100 square feet of ACCM or ACM.
- Federal Occupational Safety and Health Administration (OSHA) 29 CFR 1926.1101, California Code of Regulation (CCR) Title 8 § 1529 and § 5208 require employers to monitor the exposure of their employees who may be exposed to asbestos. If employees are exposed above certain criteria, the employer must take action to limit the employee's exposure to asbestos and to protect the employee's health, per these regulations the permissible exposure limit (PEL) for asbestos is 0.1 fibers per cubic centimeter of air (f/cc) expressed as an eight-hour time weighted average (TWA).

LEAD STANDARDS AND GUIDELINES

- The Federal Department of Housing and Urban Development (HUD) suggests abatement when XRF readings are at or above 1.0 milligram per square centimeter (mg/cm²) or 0.5 WT% (percent lead by weight) via laboratory analysis.
- California Department of Public Health (CDPH), Title 17 defines "Lead Based Paint" (LBP) as paint or other surface coatings that contain an amount of lead equal to, or in excess of 1.0 mg/cm² or 0.5 WT%; "Lead Contaminated Dust" is defined as dust that contains an amount of lead equal to, or in excess of, 40 micrograms per square foot (μg/ft²) for interior floor surfaces, 250 μg/ft² for interior horizontal surfaces, and 400 μg/ft² for exterior floor and horizontal surfaces. "Lead Contaminated Soil" is defined as bare soil that contains an amount of lead equal to, or in excess of, 400 ppm in children's play areas and 1000 parts per million (ppm) in all other areas. "Lead Hazard" is defined as deteriorated LBP, lead contaminated dust, lead contaminated soil, disturbing LBP or presumed LBP without containment, or any other nuisance which may result in persistent and quantifiable lead exposure.
- Consumer Product Safety Commission's (CPSC) definition of lead containing paint is greater than 0.009 WT% or 90 ppm lead by weight effective August 2009. In 1978 the CPSC banned lead in excess of 0.06 WT% for paint used in residences or on toys.
- Los Angeles County Code, Title 11, Health and Safety Chapter 11.28 defines "Dangerous levels of lead-bearing substances" as any paint, varnish, lacquer, putty, plaster, or similar coating or structural material which contains lead or its compounds in excess of 0.7 mg/cm², when measured by a lead-detecting instrument approved by the director; or any substance, when measured by any scientifically accepted method, in a quantity determined by the director to constitute a hazard to children; or that level as determined in the most recent standards as established by the U. S. Department of Health, Education and Welfare, Public Health Service, Center for Disease Control.

HSA Project No.: 140178LA

January 22, 2014

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- *Title 8 CCR 1532.1*, the Cal/OSHA Lead in Construction Standard, establishes the requirements for worker protection. Elements covered by this standard include requirements associated with conducting trigger task activities (e.g. manual scraping, manual sanding), exposure monitoring, containments for lead-related tasks, training and certification, respiratory protection, medical surveillance, etc. Any trigger task performed on surfaces containing lead is covered by this regulation.
- California CCR §5194, Hazard Communication Standard, requires employers to notify their employees of hazardous material in their workplace.
- Lead waste is regulated under California Title 22, §66261.24. The standard defines lead hazardous waste as greater than 1,000 mg/kg of lead and/or lead compounds determined as a Total Threshold Limit Concentration (TTLC) or 5.0 milligrams per liter (mg/l) determined as a Soluble Threshold Limit Concentration (STLC).
- Federal EPA under the Resource Conservation and Recovery Act (RCRA) also mandates hazardous waste criteria for lead that is tested by the Toxicity Characteristic Leaching Procedure (TCLP). This method sets at limit for the quantity of lead that can be "soluble" or leach into the water. The EPA maximum toxicity characteristic for lead is equal to or greater than 5.0 mg/l.
- SB 460 makes it illegal to create a lead hazard or to have a condition that is a lead hazard in residential and public buildings. Title 17 defines "lead hazard" as deteriorated lead-based paint, lead contaminated dust, lead contaminated soil, disturbing lead-based paint or presumed lead-based paint without containment, or any other nuisance which may result in persistent and quantifiable lead exposure.
- SB 460 also provides the California Department of Public Health (CDPH) and local enforcement agencies(including local building, housing, health, and environmental health agencies) the authority to issue orders to abate or otherwise correct a lead hazard. Enforcement agencies can also issue orders to cease and desist any activities that create lead hazards (such as disturbing lead based paint without using containment and failing to follow other lead safe work practices). SB 460 applies to persons engaged in performing:
 - •remodeling and renovation work;
 - •abatement of lead hazards; and
 - •inspections and assessments of lead hazards.

ASBESTOS SAMPLING RESULTS

None of the materials sampled by HSA were determined to be ACM and/or ACCM at the 4570 Francis Avenue, Chino, CA property utilizing the PLM Method.

HSA Project No.: 140178LA

January 22, 2014

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A complete description of the samples collected, estimated quantities, and their results are located in Table I. Similar materials in color, texture and appearance as those sampled that may be located in other sections of the building are to be considered asbestos until undergoing further testing.

PAINT SAMPLING RESULTS

A total of forty five (45) XRF measurements were taken using the RMD LPA 1 XRF Analyzer, Serial Number 2745. Measurements of 1.0 mg/cm² or greater are classified as Lead-Based Paint (LBP) in accordance with the requirements of the Housing and Urban Development (HUD) and the California Department of Public Health (CDPH).

Additionally, some paint chip sampling was performed to determine coated surfaces containing greater than 0.009% (90 ppm) of lead. Those components with lead content greater than 1.0 mg/cm² or 0.5% are noted as LBP per regulatory definition. All components with paint similar in color and appearance to those identified on the components listed below should be treated as either LBP or LCP.

Sample No.	XRF Location/Description Paint Chip Location/Description	Lead F	Results	Designation LCP/LBP
XRF/ PC	2 mm	mg/cm ²	WT %	2017221
28	White paint on fascia of southwest structure	0.7		LCP
29/01PC	Green paint on fascia of southwest structure	0.2	1.1	LBP
31/02PC	Mural on interior wall of southwest structure	0.5	<0.054	LCP
33/03PC	Mural on interior wall of southwest structure	0.2	<0.017	LCP

A complete description of all the XRF surface coating evaluations, their locations, and specific concentrations is located in Table II. The complete description of all of the paint chip samples, their locations, and specific concentrations is located in Table III. All painted materials hidden or not sampled by HSA are to be presumed to be either LCP or LBP until sampled. The paint sampling was performed for the purpose of contractor notification for OSHA compliance.

RECOMMENDATIONS

LBP and LCP was identified at the 4570 Francis Avenue, Chino, CA property. It is HSA's understanding that the structures on the will undergo demolition that may require lead impact at some future date. All contractors performing lead related work at this location must notified of the

HSA Project No.: 140178LA

January 22, 2014

Page 7

presence of lead in the paint on the fascia of the southwest structure for the purpose OSHA compliance and perform their work pursuant to with all state, local and federal regulations.

Due to the age of the structures, hidden or unknown suspect ACM/ACCM or hazardous materials may be uncovered during demolition or renovation activities. Therefore, all contractors working on the project should be informed of Leighton Consulting, Inc. policies in regard to notifying Leighton Consulting, Inc. if previously unidentified suspect hazardous materials are discovered during the project.

All hazardous waste is required to be removed and disposed of in accordance with all local, state and federal regulations and procedures.

For any questions or clarifications, we may be contacted by calling (714) 220-3922.

Prepared By

JanMarie Bailey

Lead and Asbestos Services

Reviewed by

Jaime Steedman-Lyde, CIH

Project Manager/Technical Services

Ful - LyL

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Table I - BULK ASBESTOS SAMPLING RESULTS

HSA Project No.: 140178LA

Project: Munzer Property

4570 Francis Ave

Chino, CA

Date: January 14, 2014 Ind. Hyg.: K. Seubert

Sample Number	Location/Description	Asbestos Results Type and Percent (%)	Approximate Square/Linea r footage
	Southeast Structure		
11414 - 01A	Drywall board from northeast exterior side of southeast structure	ND	15 ft²
11414 - 01B	Drywall board from northeast exterior side of southeast structure	ND	
11414 - 01C	Drywall board from northeast exterior side of southeast structure	ND	
11414 - 02A	Wains-board from northeast exterior side of southeast structure	ND	10 ft²
11414 - 02B	Wains-board from northeast exterior side of southeast structure	ND	
11414 - 02C	Wains-board from northeast exterior side of southeast structure	ND	
	East Structure		
11414 - 03A	Grey asphalt roof shingles from pile at north interior area of east structure	ND	1000 ft²
11414 - 03B	Grey asphalt roof shingles from pile at north interior area of east structure	ND	
11414 - 03C	Grey asphalt roof shingles from pile at north interior area of east structure	ND	

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Table I - BULK ASBESTOS SAMPLING RESULTS (Cont'd)

HSA Project No.: 140178LA

Project: Munzer Property

4570 Francis Ave

Chino, CA

Date: January 14, 2014 Ind. Hyg.: K. Seubert

Date: January 14, 20	- ·	22.4. 22	yg IX. Deubert
Sample Number	Location/Description	Asbestos Results Type and Percent (%)	Approximate Square/Linea r footage
11414 - 04A	Window putty from exterior northwest side of east structure	ND	20 L ft
11414 - 04B	Window putty from exterior northwest side of east structure	ND	
11414 - 04C	Window putty from exterior northwest side of east structure	ND	
11414 - 05A	Grey/black penetration/seam mastic from exterior east side of east structure	ND	5 ft ²
11414 - 05B	Grey/black penetration/seam mastic from exterior east side of east structure	ND	
11414 - 05C	Grey/black penetration/seam mastic from exterior east side of east structure	ND	
	Southwest Structure		
11414 - 06A	Stucco from exterior southeast corner of southwest structure	ND	1800 ft²
11414 - 06B	Stucco from exterior southwest corner of southwest structure	ND	
11414 - 06C	Stucco from exterior northwest corner of southwest structure	ND	
11414 - 06D	Stucco from exterior northeast corner of southwest structure	ND	
11414 - 06E	Stucco from exterior east wall of southwest structure	ND	

Table I - BULK ASBESTOS SAMPLING RESULTS (Cont'd)

HSA Project No.: 140178LA

Project: Munzer Property

4570 Francis Ave

Chino, CA

Date: January 14, 2014 Ind. Hyg.: K. Seubert

Sample Number	Location/Description	Asbestos Results Type and Percent (%)	Approximate Square/Linea r footage
Standards			
EPA - ACM		1.0	
State of California - A	ACCM	0.1	

Abbreviations: ND = none detected; <= less than; % - percent; EPA = Environmental Protection Agency; ACM = Asbestos Containing Material; ACCM = Asbestos Containing Construction Material; L ft = linear feet; ft² = square feet; * = at or above regulatory limits

Disclaimer:

HSA's measurements and component identifications are approximations and **must be confirmed** by contractors bidding the project. In addition, hidden or unknown suspect asbestos containing materials (ACM)/asbestos containing construction materials (ACCM) or lead containing/coated materials may be uncovered during the project. Multiple layers of building materials exist, abatement includes all layers of both ACMs and non-ACMs including all residue. Similar materials in color, texture and appearance as those identified in HSA's report should be considered asbestos until sampled. All contractors working on the project should notify the Owner regarding the discovery of unidentified hazardous materials. All work to be performed in accordance with all state, local and federal regulations.



Table II - LEAD BASED PAINT XRF RESULTS

HSA Project No.: 140178LA

Project: Munzer Property

4570 Francis Ave

Chino, CA

Date: January 14, 2014 Ind. Hyg.: K. Seubert

	TESTED WITH RADIATION MONITORING DEVICE (RMD) MODEL LPA-1 XRF TYPE ANALYZER (Serial Number 2745)												
Test No.	Location	Side	Component	Substrate	Color	Paint Cond'n	Result (mg/cm²)						
1	Pre - Calibration						1.2						
2	Pre - Calibration						1.0						
3	Pre - Calibration						0.9						
4	Southeast Structure Exterior	Α	Wall	Wood	White	Poor	-0.1						
5	Southeast Structure Exterior	D	Wall	Metal	White	Poor	-0.1						
6	Southeast Structure Exterior - Southeast Corner	Α	Toilet 1	Ceramic	White	Poor	-1.1						
7	Southeast Structure Exterior - Southeast Corner	Α	Toilet 2	Ceramic	White	Poor	0.0						
8	Southeast Structure Exterior - Southeast Corner	Α	Toilet 3	Ceramic	White	Pooor	-0.9						
9	Southeast Structure Exterior	D	Door against exterior wall	Wood	White	Poor	-0.1						
10	Southeast Structure Interior		Rafter Boards	Wood	White	Poor	-0.4						



Table II - LEAD BASED PAINT XRF RESULTS cont'd

HSA Project No.: 140178LA

Project: Munzer Property

4570 Francis Ave

Chino, CA

Date: January 14, 2014

Ind. Hyg.: K. Seubert

TESTED WITH RADIATION MONITORING DEVICE (RMD) MODEL LPA-1 XRF TYPE ANALYZER (Serial Number 2745)													
Test No.	Location	Side	Component	Substrate	Color	Paint Cond'n	Result (mg/cm²)						
11	Southeast Structure Interior		Rafter Boards	Wood	White	Poor	-0.3						
12	East Structure Interior		Boards (at south end)	Wood	White	Poor	-0.1						
13	East Structure Interior	В	Loose Window Frame	Wood	White	Poor	-0.1						
14	East Structure Interior	В	Loose Door	Wood	White	Poor	-0.1						
15	East Structure Interior	В	Loose Door	Wood	Green	Poor	-0.3						
16	East Structure Exterior	В	Loose Window Frame	Wood	White	Poor	-0.4						
17	Northeast Structure - West Area		Loose Door	Wood	White	Poor	-0.5						
18	Northeast Structure - East Area		Base Kick Board	Wood	White	Poor	-0.3						
19	Northeast Structure - East Area		Base Kick Board	Wood	Grey	Poor	-0.3						
20	Northwest Structure - Restroom		Toilet	Ceramic	White	Poor	-0.6						
21	Northwest Structure - Restroom Interior	С	Wall	Wood	Tan	Poor	-0.2						
22	Northwest Structure - Restroom Interior	А	Wall	Wood	White	Poor	-0.2						



Table II - LEAD BASED PAINT XRF RESULTS cont'd

HSA Project No.: 140178LA

Project: Munzer Property

4570 Francis Ave

Chino, CA

Date: January 14, 2014

Ind. Hyg.: K. Seubert

	TESTED WITH RADIATION MONITORING DEVICE (RMD) MODEL LPA-1 XRF TYPE ANALYZER (Serial Number 2745)											
Test No.	Location	Side	Component	Substrate	Color	Paint Cond'n	Result (mg/cm²)					
23	Southwest Structure - Exterior	С	Wall	Stucco	Green	Poor	-0.1					
24	Southwest Structure - Exterior	С	Wall	Stucco	Tan	Poor	-0.2					
25	Southwest Structure - Exterior	D	Slide Door	Metal	White	Poor	-0.6					
26	Southwest Structure - Exterior	С	Slide Door	Metal	White	Poor	-0.4					
27	Southwest Structure - Exterior	С	Slide Door - Hanger Rail	Metal	White	Poor	-0.3					
28	Southwest Structure - Exterior	Α	Fascia	Wood	White	Poor	0.7					
29	Southwest Structure - Exterior	С	Fascia	Wood	Green	Poor	0.2					
30	Southwest Structure Interior	А	Wall	Concrete	Mural	Fair	-0.4					
31	Southwest Structure Interior	В	Wall	Concrete	Mural	Fair	0.5					
32	Southwest Structure Interior	С	Wall	Concrete	Mural	Fair	-0.3					
33	Southwest Structure Interior	D	Wall	Concrete	Mural	Fair	0.2					
34	Southwest Structure Interior		Rafter Boards	Wood	White	Poor	-0.3					



Table II - LEAD BASED PAINT XRF RESULTS cont'd

HSA Project No.: 140178LA

Project: Munzer Property

4570 Francis Ave

Chino, CA

Date: January 14, 2014

Ind. Hyg.: K. Seubert

est No.	Location	Side	Component	Substrate	Color	Paint Cond'n	Result (mg/cm²)
35	Southwest Structure Interior	В	Door	Wood	Mural	Fair	-0.7
36	Southwest Structure Interior	В	Door Frame	Wood	White	Fair	-0.1
37	Southwest Structure Interior	С	Slide Door	Metal	White	Fair	-0.1
38	Southwest Structure Interior	С	Slide Door Frame	Wood	White	Poor	-0.1
39	Southwest Structure Interior	С	Slide Door Casing	Wood	White	Poor	0.0
40	Southwest Structure Interior	D	Slide Door Frame	Wood	White	Poor	-0.3
41	Southwest Structure Interior	D	Slide Door Casing	Wood	White	Poor	-0.1
42	Southwest Structure Interior	С	Cabinet Casing	Wood	White	Poor	-0.2
43	Post - Calibration						1.0
44	Post - Calibration						1.2
45	Post - Calibration						1.1

PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT, 4570 FRANCIS AVENUE, CHINO, CALIFORNIA

Prepared for

William J. Munzer Trust

3450 East Spring Street, Suite 218 Long Beach, California 90806

> Project No. 10948.001 March 30, 2015





March 30, 2015

Project No. 10948.001

William J. Munzer Trust 3450 East Spring Street, Suite 218 Long Beach, California 90806

Attention: Mr. Daniel W. Munzer, Trustee

Subject: Phase II Environmental Site Assessment Report

4570 Francis Avenue, Chino, California

INTRODUCTION

Leighton and Associates, Inc. (Leighton) is pleased to present this report summarizing the Phase II Environmental Site Assessment (ESA) activities for the property located at 4570 Francis Avenue in the Chino area of Unincorporated San Bernardino County, California (Figure 1 – Site Location Map). The San Bernardino County Assessor's Office designates the Site as Assessor Parcel Number (APN) 1013-211-21.

The purpose of this investigation was to laterally and vertically delineate pesticide (dieldrin) impacted soil identified in the western and northeastern portions of the Site during our January 2014 investigation. References are included in Appendix A.

SCOPE OF WORK

This Phase II ESA was conducted based on the findings of our Draft Phase I ESA prepared for the Site, dated January 10, 2014 and our Limited Phase II ESA for the Site performed January 14, 2014. The scope of work included the following:

 Advancement of 23 soil borings (LB33 through LB55) to maximum depths of 2.5 and 5.0 feet below ground surface (bgs);

- Collection of soil samples from each boring for chemical analysis; and
- Preparation of this report summarizing our findings and conclusions, including tables, illustrations, and appendices.

PRE-FIELD ACTIVITIES

Health and Safety Plan

Prior to starting work, Leighton prepared a site-specific Health and Safety Plan (HSP) to include safety aspects of the work to be performed at the Site. The HSP was in compliance with the Occupational Safety and Health and Administration (OSHA) regulation 29 CFR 1910.120. The HSP was onsite with Leighton personnel at all times. This HSP outlined site procedures, potential hazards, and contained a hospital location map. All onsite Leighton personnel signed the HSP acknowledging acceptance.

Utility Clearance

Underground Service Alert (USA) was contacted at least 48 hours prior to the commencement of fieldwork to mark underground utility locations.

FIELD ACTIVITIES

On March 5, 2015, Leighton personnel directed the advancement of 23 soil borings (LB33 through LB55) using hand auger drilling equipment in the western and northeast portions of the Site. Sixteen (16) borings (LB33 through LB40, LB42, LB43, LB45, LB47, LB49, and LB53 though LB55) were advanced to an approximate depth of 2.5 feet below ground surface (bgs) and seven (7) borings (LB41, LB44, LB46, LB48, and LB50 through LB52) were advanced to an approximate depth of 5 feet bgs. The locations of the borings are shown on Figure 2 (Site Plan).

Soil samples were collected at depths of 0.5 feet, 1.5 feet, and 2.5 feet bgs from the above 16 shallow boring locations and at depths of 0.5 feet, 2.5 feet, and 5 feet bgs from the 7 deeper boring locations. Soil samples were retained in 4-ounce laboratory-supplied glass jars and placed in an ice-cooled chest for storage and delivery to Advanced Technology Laboratories (ATL) in Signal Hill, California for chemical analysis. ATL is a State of California ELAP-certified laboratory.



Drilling equipment was appropriately decontaminated before the commencement of any drilling activities and in between boreholes.

Upon completion of sampling, all borings were backfilled with soil cuttings and the surface was returned to its original finish.

Laboratory Analysis

A copy of the chain of custody form and complete analytical reports are included in Appendix B.

Soil samples were analyzed for organochlorine pesticides (OCPs) by EPA Method 8081A.

DISCUSSION

Geology

The Site is located within the Chino Basin in the northern portion of the Peninsular Range Geomorphic Province of California. Major structural features surrounding this region include the Cucamonga fault and the San Gabriel Mountains to the north, the Chino fault and Puente/Chino Hills to the west, and the San Jacinto fault to the east. This is an area of large-scale crustal disturbance as the relatively northwestward-moving Peninsular Range Province collides with the Transverse Range Province (San Gabriel and San Bernardino Mountains) to the north. Several active or potentially active faults have been mapped in the region and are believed to accommodate compression associated with this collision. The Site is underlain by younger alluvial soil deposits eroded from the mountains surrounding the basin and deposited in the Site vicinity (Leighton, 2014).

The Site is underlain by Quaternary alluvial fan deposits. The alluvial soil encountered within our soil borings generally consisted of sand and silty sand with some interbedded layers of discontinuous clay and gravels.

Soil Sample Laboratory Analysis

The results of the laboratory analyses for the soil samples collected on March 5, 2015 are summarized in Table 1 and as follows:



- Concentrations of one OCP (dieldrin) were detected above the EPA Region 9
 Regional Screening Level (RSL) for residential land use [33 micrograms per
 kilogram (μg/kg)] at the following locations and depths: LB43 at 0.5 feet bgs, LB48 at
 0.5 feet bgs and 2.5 feet bgs, LB49 at 0.5 feet bgs, and LB52 at 0.5 feet bgs.
 Concentrations of dieldrin ranged from 43 μg/kg to 13,000 μg/kg in the soil samples
 listed above.
- Trace concentrations of 13 additional OCPs (4,4-DDD, 4,4-DDE, 4,4-DDT, aldrin, alpha-chlordane, beta-BHC, chlordane, delta-BHC, endrin, endrin ketone, gamma-BHC, gamma-chlordane, and methoxychlor) were detected below the EPA Region 9 RSLs for residential land use.

Results of the previous soil assessment activities conducted in January 2014 are summarized in Table 2.

CONCLUSIONS AND RECOMMENDATIONS

Results of this assessment, in conjunction with previous assessments, indicate that concentrations of dieldrin identified in the near-surface soils (surface to 5 feet bgs) located primarily in the southwest portion of the Site adjacent to existing concrete slab foundations and along the southern boundary of the existing open-ended shed, as well as a small area in the northeast portion within a historic stream bed exceed the current RSLs for soil in a residential setting. The lateral and vertical extent of the dieldrin-impacted soil has been adequately defined. The approximate limits of the areas recommended for soil removal are shown on Figure 3 (Removal Area Map). Removals should occur at the following locations and approximate dimensions shown below:

- Area of boring LB43 25 feet by 30 feet by 1 foot deep;
- Area of borings LB11 and LB48 25 feet by 55 feet by 5 feet deep;
- Area of boring LB49 25 feet by 40 feet by 1 foot deep;
- Area of borings LB14 and LB52 20 feet by 25 feet by 1 foot deep; and
- Area of boring LB30 15 feet by 15 feet by 1 foot deep.

A total of approximately 560 tons (*i.e.*, 350 cubic yards) of dieldrin-impacted soil will require removal and offsite disposal prior to redevelopment of the Site for residential use. Upon removal of the impacted soil, confirmation soil samples should be collected from the resulting excavation sidewalls and bottoms to determine if the dieldrin-impacted soil exceeding the residential RSL has been removed. Soil removed from the



impacted areas should be stockpiled on and covered with plastic sheeting. Soil samples should be collected from the resulting stockpile for chemical analysis and waste profiling. Once the waste is properly profiled and accepted at an appropriately licensed disposal facility, the stockpiled soil can be transported offsite. Removal activities should be conducted under the oversight of an environmental consultant and State of California Licensed Geologist or Civil Engineer.

In general, observations should be made by the environmental consultant during future Site redevelopment to identify areas of possible contamination such as, but not limited to, the presence of underground utilities, buried debris, waste drums, tanks, and stained soil or odorous soils. Should such materials be encountered, further investigation and analysis may be necessary at that time.

CLOSING

We appreciate the opportunity to work with you on this project. If you have any questions regarding this report, please call us at your convenience.



Respectfully submitted,

LEIGHTON AND ASSOCIATES, INC.

Brynn McCulloch, PG Sr. Project Geologist

BFM/lr/KAB

Attachments: Table 1 – Pesticide Concentrations in Soil, March 2015

Table 2 – Pesticide Concentrations in Soil, January 2014

Figure 1 – Site Location Map

Figure 2 – Site Plan

Figure 3 – Removal Area Map

Appendix A – References

Appendix B – Laboratory Reports and Chain-of-Custody Records

Distribution: (1) Addressee



TABLES

Table 1
Pesticide Concentrations in Soil, March 2015
4570 Francis Avenue,
Chino, California

SAMPLE NAME	SAMPLE DATE	UNITS	4,4′-DDD	4,4′-DDE	4,4´-DDT	Aldrin	alpha-Chlordane	beta-BHC	Chlordane	delta-BHC	Dieldrin	Endrin	Endrin ketone	gamma-BHC	gamma- Chlordane	Methoxychlor
			_				_	_	_					_		
LB33-0.5	3/5/2015	ug/kg	4.3	<2.0	14	<1.0	<1.0	<1.0	<8.5	<1.0	14	<2.0	<2.0	<1.0	<1.0	<5.0
LB33-1.5	3/5/2015	ug/kg	<2.0	<2.0	4.7	<1.0	<1.0	<1.0	<8.5	<1.0	<2.0	<2.0	<2.0	<1.0	<1.0	<5.0
LB33-2.5	3/5/2015	ug/kg														
LB34-0.5	3/5/2015	ug/kg	<2.0	<2.0	4.8	<1.0	<1.0	<1.0	<8.5	<1.0	5.6	<2.0	<2.0	<1.0	<1.0	<5.0
LB34-1.5	3/5/2015	ug/kg	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<8.5	<1.0	<2.0	<2.0	<2.0	<1.0	<1.0	<5.0
LB34-2.5	3/5/2015	ug/kg														
LB35-0.5	3/5/2015	ug/kg	<2.0	<2.0	2.6	<1.0	<1.0	<1.0	<8.5	<1.0	4.1	<2.0	<2.0	<1.0	<1.0	<5.0
LB35-1.5	3/5/2015	ug/kg	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<8.5	<1.0	<2.0	<2.0	<2.0	<1.0	<1.0	<5.0
LB35-2.5	3/5/2015	ug/kg														
LB36-0.5	3/5/2015	ug/kg	<2.0	<2.0	2.7	<1.0	<1.0	<1.0	<8.5	<1.0	5.3	<2.0	<2.0	<1.0	<1.0	<5.0
LB36-1.5	3/5/2015	ug/kg	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<8.5	<1.0	2.4	<2.0	<2.0	<1.0	<1.0	<5.0
LB36-2.5	3/5/2015	ug/kg														
LB37-0.5	3/5/2015	ug/kg	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<8.5	<1.0	<2.0	<2.0	<2.0	<1.0	<1.0	<5.0
LB37-1.5	3/5/2015	ug/kg	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<8.5	<1.0	<2.0	<2.0	<2.0	<1.0	<1.0	<5.0
LB37-2.5	3/5/2015	ug/kg														
LB38-0.5	3/5/2015	ug/kg	<2.0	<2.0	4.2	<1.0	<1.0	1.1	<8.5	<1.0	15	<2.0	<2.0	<1.0	<1.0	<5.0
LB38-1.5	3/5/2015	ug/kg	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<8.5	<1.0	<2.0	<2.0	<2.0	<1.0	<1.0	<5.0
LB38-2.5	3/5/2015	ug/kg														
LB39-0.5	3/5/2015	ug/kg	<2.0	<2.0	2.1	<1.0	<1.0	<1.0	<8.5	<1.0	2.6	<2.0	<2.0	<1.0	<1.0	<5.0
LB39-1.5	3/5/2015	ug/kg	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<8.5	<1.0	<2.0	<2.0	<2.0	<1.0	<1.0	<5.0
LB39-2.5	3/5/2015	ug/kg														
LB40-0.5	3/5/2015	ug/kg	<2.0	<2.0	2.7	<1.0	<1.0	<1.0	<8.5	<1.0	7.4	<2.0	<2.0	<1.0	<1.0	<5.0
LB40-1.5	3/5/2015	ug/kg	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<8.5	<1.0	<2.0	<2.0	<2.0	<1.0	<1.0	<5.0
LB40-2.5	3/5/2015	ug/kg														
LB41-0.5	3/5/2015	ug/kg	<2.0	<2.0	5.5	<1.0	<1.0	<1.0	<8.5	<1.0	15	<2.0	<2.0	<1.0	<1.0	8.5
LB41-2.5	3/5/2015	ug/kg	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<8.5	<1.0	<2.0	<2.0	<2.0	<1.0	<1.0	<5.0
LB41-5.0	3/5/2015	ug/kg	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<8.5	<1.0	3.3	<2.0	<2.0	<1.0	<1.0	<5.0
LB42-0.5	3/5/2015	ug/kg	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<8.5	<1.0	<2.0	<2.0	<2.0	<1.0	<1.0	<5.0
LB42-1.5	3/5/2015	ug/kg	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<8.5	<1.0	4.2	<2.0	<2.0	<1.0	<1.0	<5.0
LB42-2.5	3/5/2015	ug/kg														
LB43-0.5	3/5/2015	ug/kg	<2.0	21	50	<1.0	<1.0	<1.0	18	<1.0	480	4.6	3.9	<1.0	<1.0	<5.0
LB43-1.5	3/5/2015	ug/kg	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<8.5	<1.0	<2.0	<2.0	<2.0	<1.0	<1.0	<5.0
LB43-2.5	3/5/2015	ug/kg														

Table 1
Pesticide Concentrations in Soil, March 2015
4570 Francis Avenue,
Chino, California

SAMPLE NAME	SAMPLE DATE	UNITS	4 4′ DDD	4.4´-DDE	4.4′ DDT	Aldrin	alpha-Chlordane	beta-BHC	Chlordane	delta-BHC	Dieldrin	Endrin	Endrin ketone	gamma PUC	gamma-	Mathawyshlar
SAIVIPLE NAIVIE	SAIVIPLE DATE	UNITS	4,4 -000	4,4 -DDE	4,4 -001	Alarin	aipna-Chiordane	рега-впс	Chiordane	иена-впс	Dielarin	Enarin	Endrin ketone	датта-впс	Chlordane	Methoxychlor
LB44-0.5	3/5/2015	ug/kg	<2.0	20	30	<1.0	<1.0	2.0	9.3	<1.0	19	<2.0	<2.0	<1.0	<1.0	5.8
LB44-2.5	3/5/2015	ug/kg	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<8.5	<1.0	<2.0	<2.0	<2.0	<1.0	<1.0	<5.0
LB44-5.0	3/5/2015	ug/kg	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<8.5	<1.0	<2.0	<2.0	<2.0	<1.0	<1.0	<5.0
LB45-0.5	3/5/2015	ug/kg	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<8.5	<1.0	<2.0	<2.0	<2.0	<1.0	<1.0	<5.0
LB45-1.5	3/5/2015	ug/kg	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<8.5	<1.0	<2.0	<2.0	<2.0	<1.0	<1.0	<5.0
LB45-2.5	3/5/2015	ug/kg														
LB46-0.5	3/5/2015	ug/kg	<2.0	<2.0	8.5	<1.0	<1.0	<1.0	<8.5	<1.0	4.8	<2.0	<2.0	<1.0	<1.0	<5.0
LB46-2.5	3/5/2015	ug/kg	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<8.5	<1.0	<2.0	<2.0	<2.0	<1.0	<1.0	<5.0
LB46-5.0	3/5/2015	ug/kg	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<8.5	<1.0	<2.0	<2.0	<2.0	<1.0	<1.0	<5.0
LB47-0.5	3/5/2015	ug/kg	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<8.5	<1.0	<2.0	<2.0	<2.0	<1.0	<1.0	<5.0
LB47-1.5	3/5/2015	ug/kg	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<8.5	<1.0	<2.0	<2.0	<2.0	<1.0	<1.0	<5.0
LB47-2.5	3/5/2015	ug/kg														
LB48-0.5	3/5/2015	ug/kg	<2.0	26	60	1.2	<1.0	2.4	<8.5	1.6	13,000	59	80	<1.0	<1.0	9.7
LB48-2.5	3/5/2015	ug/kg	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<8.5	<1.0	530	<2.0	<2.0	<1.0	<1.0	<5.0
LB48-5.0	3/5/2015	ug/kg	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<8.5	<1.0	33	<2.0	<2.0	<1.0	<1.0	<5.0
LB49-0.5	3/5/2015	ug/kg	<2.0	35	31	<1.0	1.6	<1.0	17	<1.0	520	2.2	4.1	<1.0	2.5	<5.0
LB49-1.5	3/5/2015	ug/kg	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<8.5	<1.0	4.2	<2.0	<2.0	<1.0	<1.0	<5.0
LB49-2.5	3/5/2015	ug/kg														
LB50-0.5	3/5/2015	ug/kg	<2.0	<2.0	2.2	<1.0	4.4	1.6	54	<1.0	30	<2.0	<2.0	<1.0	4.9	<5.0
LB50-2.5	3/5/2015	ug/kg	<2.0	<2.0	<2.0	<1.0	1.2	<1.0	15	<1.0	2.4	<2.0	<2.0	<1.0	16	<5.0
LB50-5.0	3/5/2015	ug/kg	<2.0	<2.0	<2.0	<1.0	1.2	<1.0	16	<1.0	4.0	<2.0	<2.0	<1.0	1.5	<5.0
LB51-0.5	3/5/2015	ug/kg	<2.0	<2.0	3.8	<1.0	8.8	<1.0	110	<1.0	28	<2.0	<2.0	<1.0	8.6	<5.0
LB51-2.5	3/5/2015	ug/kg	<2.0	<2.0	<2.0	<1.0	1.1	<1.0	13	<1.0	3.5	<2.0	<2.0	<1.0	1.5	<5.0
LB51-5.0	3/5/2015	ug/kg	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	8.6	<1.0	<2.0	<2.0	<2.0	<1.0	1.2	<5.0
LB52-0.5	3/5/2015	ug/kg	<2.0	37	40	<1.0	1.3	<1.0	24	<1.0	43	<2.0	<2.0	<1.0	1.1	12
LB52-2.5	3/5/2015	ug/kg	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<8.5	<1.0	<2.0	<2.0	<2.0	<1.0	<1.0	<5.0
LB52-5.0	3/5/2015	ug/kg	<2.0	2.4	2.5	<1.0	<1.0	<1.0	<8.5	<1.0	3.4	<2.0	<2.0	<1.0	<1.0	<5.0
LB53-0.5	3/5/2015	ug/kg	<2.0	180	310	<1.0	<1.0	<1.0	<8.5	<1.0	2.9	<2.0	<2.0	<1.0	<1.0	<5.0
LB53-1.5	3/5/2015	ug/kg	<2.0	55	86	<1.0	<1.0	<1.0	<8.5	<1.0	<2.0	<2.0	<2.0	<1.0	<1.0	<5.0
LB53-2.5	3/5/2015	ug/kg														
LB54-0.5	3/5/2015	ug/kg	<2.0	19	8.1	<1.0	<1.0	<1.0	<8.5	<1.0	3.5	<2.0	<2.0	<1.0	<1.0	<5.0
LB54-1.5	3/5/2015	ug/kg	<2.0	5.3	2.2	<1.0	<1.0	<1.0	<8.5	<1.0	<2.0	<2.0	<2.0	<1.0	<1.0	<5.0
LB54-2.5	3/5/2015	ug/kg														

Table 1Pesticide Concentrations in Soil, March 2015
4570 Francis Avenue,
Chino, California

SAMPLE NAME	SAMPLE DATE	UNITS	4,4´-DDD	4,4′-DDE	4,4´-DDT	Aldrin	alpha-Chlordane	beta-BHC	Chlordane	delta-BHC	Dieldrin	Endrin	Endrin ketone	gamma-BHC	gamma- Chlordane	Methoxychlor
LB55-0.5	3/5/2015	ug/kg	<2.0	290	250	<1.0	<1.0	1.1	<8.5	<1.0	5.6	<2.0	<2.0	1.3	<1.0	<5.0
LB55-1.5	3/5/2015	ug/kg	<2.0	550	720	<1.0	<1.0	<1.0	<8.5	<1.0	<2.0	<2.0	<2.0	<1.0	<1.0	<5.0
LB55-2.5	3/5/2015	ug/kg						1	-							
	Residential RSL	ug/kg	2,200	1,600	1,900	31	NA	NA	1,800	NA	33	18,000	NA	NA	NA	310,000

Notes:

<2.0 = Not dected above laboratory reporting limit

ug/kg = Micrograms per kilogram

RSL = US EPA Regional Screening Level for residential soil (January 2015)

Highlighted values exceed the residential RSL

Table 2

Pesticide Concentrations in Soil, January 2014 4570 Francis Avenue, Chino, California

SAMPLE NAME	SAMPLE DATE	UNITS	4,4´-DDD	4,4′-DDE	4,4′-DDT	Dieldrin	Endrin	Endrin ketone	gamma- BHC
Composite LB1 through LB5 @ 0.5	1/14/2014	ug/kg	<2.0	3.8	7.2	6.6	<2.0	<2.0	<1.0
Composite LB1 through LB5 @ 2.5	1/14/2014	ug/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0
Composite LB12 and LB13 @ 0.5	1/14/2014	ug/kg	<2.0	<2.0	<2.0	11	<2.0	<2.0	<1.0
Composite LB12 and LB13 @ 2.5	1/14/2014	ug/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0
Composite LB15 and LB16 @ 0.5	1/14/2014	ug/kg	<2.0	4.2	<2.0	<2.0	<2.0	<2.0	<1.0
Composite LB15 and LB16 @ 2.5	1/14/2014	ug/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0
Composite LB17 and LB18 @ 0.5	1/14/2014	ug/kg	<2.0	17	11	<2.0	<2.0	<2.0	<1.0
Composite LB17 and LB18 @ 2.5	1/14/2014	ug/kg	<2.0	59	55	<2.0	<2.0	<2.0	<1.0
Composite LB21 and LB22 @ 0.5	1/14/2014	ug/kg	3.9	170	36	<2.0	<2.0	<2.0	<1.0
Composite LB21 and LB22 @ 2.5	1/14/2014	ug/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0
Composite LB6, LB9, LB10, and LB11 @ 0.5	1/14/2014	ug/kg	<2.0	6.6	18	1,700	25	12	<1.0
Composite LB6, LB9, LB10, and LB11 @ 2.5	1/14/2014	ug/kg	<2.0	<2.0	<2.0	43	<2.0	<2.0	<1.0
Composite LB7 and LB8 @ 0.5	1/14/2014	ug/kg	<2.0	14	<2.0	<2.0	<2.0	<2.0	<1.0
Composite LB7 and LB8 @ 2.5	1/14/2014	ug/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0
LB14-0.5	1/14/2014	ug/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0
LB14-2.5	1/14/2014	ug/kg	<2.0	64	50	49	<2.0	<2.0	<1.0
LB19-0.5	1/14/2014	ug/kg	<2.0	1,300	360	<2.0	<2.0	<2.0	<1.0
LB19-2.5	1/14/2014	ug/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0
LB20-0.5	1/14/2014	ug/kg	<2.0	280	64	6.9	<2.0	<2.0	<1.0
LB20-10	1/14/2014	ug/kg	<2.0	69	7.3	<2.0	<2.0	<2.0	<1.0
LB20-2.5	1/14/2014	ug/kg	<2.0	210	19	7.3	<2.0	<2.0	<1.0
LB20-5	1/14/2014	ug/kg	<2.0	280	28	<2.0	<2.0	<2.0	<1.0
LB20-7.5	1/14/2014	ug/kg	<2.0	63	7.0	<2.0	<2.0	<2.0	<1.0
LB23-0.5	1/14/2014	ug/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0
LB23-2.5	1/14/2014	ug/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0
LB28-0.5	1/14/2014	ug/kg	<2.0	14	4.4	13	<2.0	<2.0	<1.0
LB28-2.5	1/14/2014	ug/kg	<2.0	<2.0	<2.0	2.7	<2.0	<2.0	<1.0
LB29-0.5	1/14/2014	ug/kg	<2.0	2.6	<2.0	<2.0	<2.0	<2.0	<1.0
LB29-2.5	1/14/2014	ug/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0
LB30-0.5	1/14/2014	ug/kg	<2.0	31	78	74	<2.0	<2.0	170
LB30-2.5	1/14/2014	ug/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0
LB31-0.5	1/14/2014	ug/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0
LB31-2.5	1/14/2014	ug/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0
	Residential RSL	ug/kg	2,200	1,600	1,900	33	18,000	NA	NA

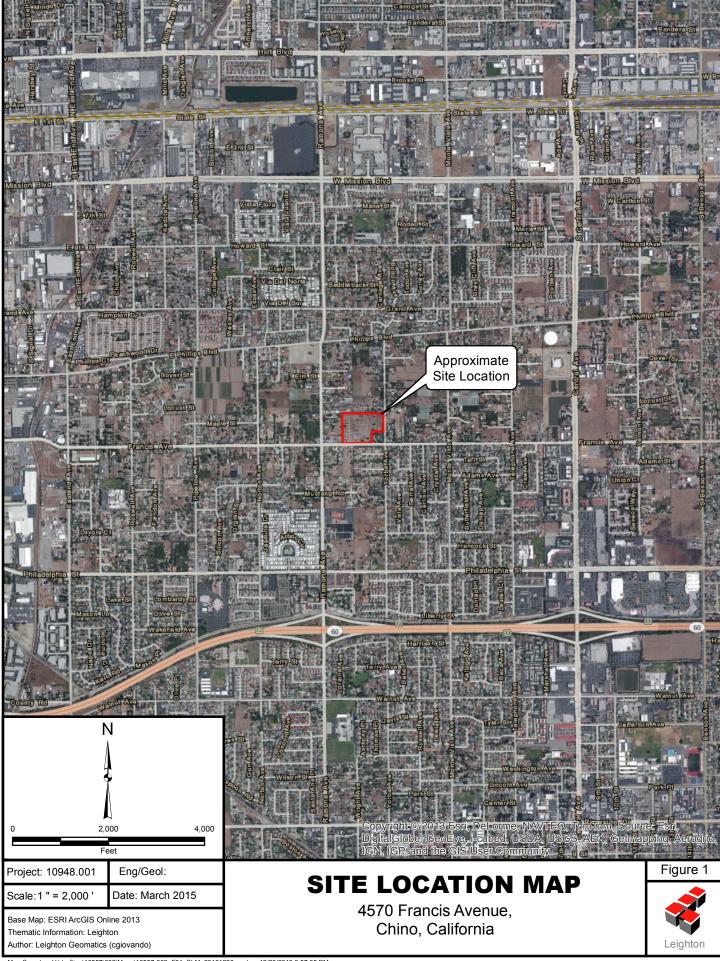
NOTES:

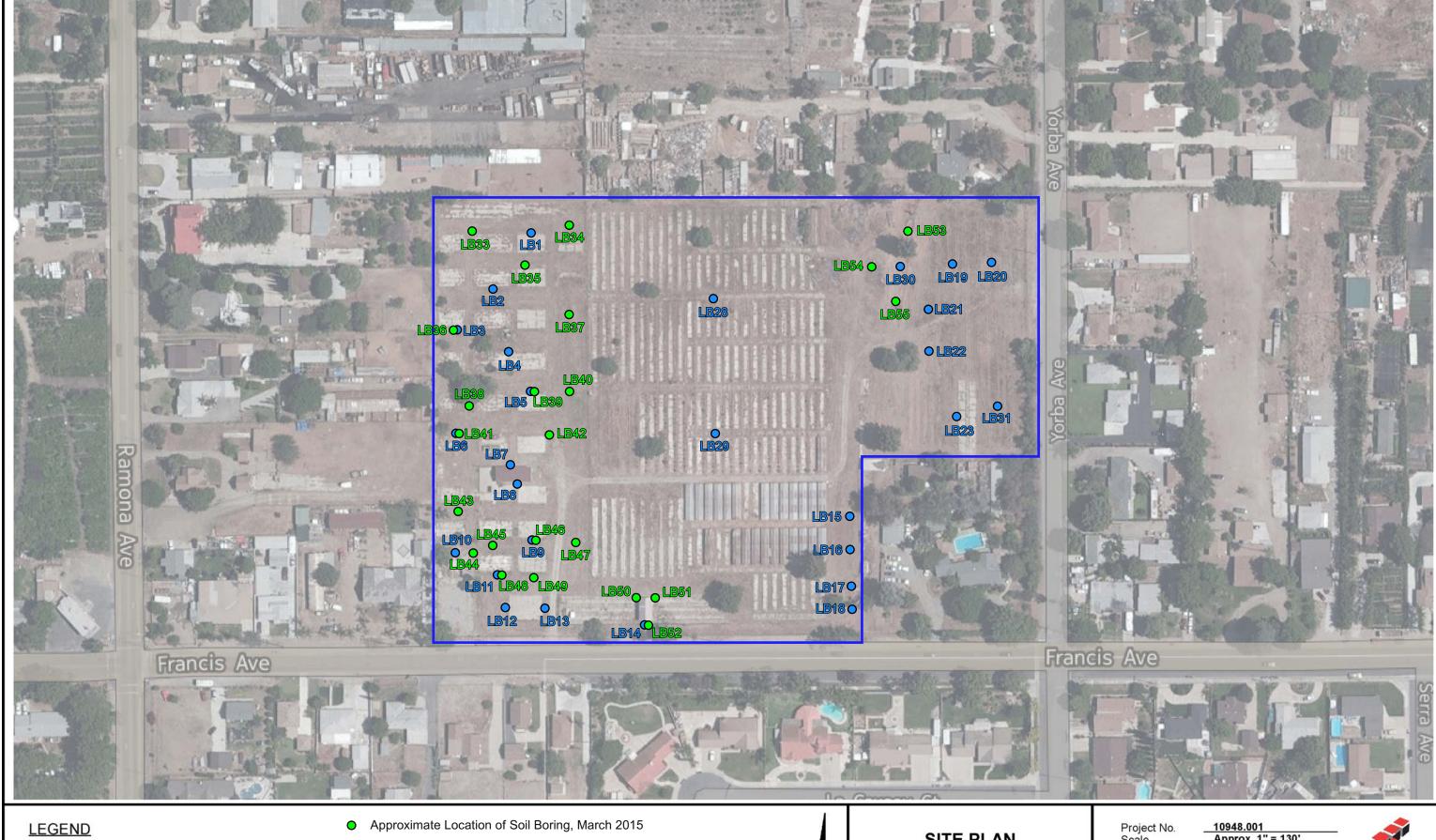
<2.0 = Not dected above laboratory reporting limit

ug/kg = Micrograms per kilogram

RSL = US EPA Regional Screening Level for residential soil (January 2015)

FIGURES





Approximate Site Boundary

Approximate Location of Soil Boring, January 2014



SITE PLAN

4570 Francis Avenue Chino, California

Project No. Scale Engr./Geol. Drafted By Date

10948.001 Approx. 1" = 130' BFM BFM January 2015



Figure No. 2

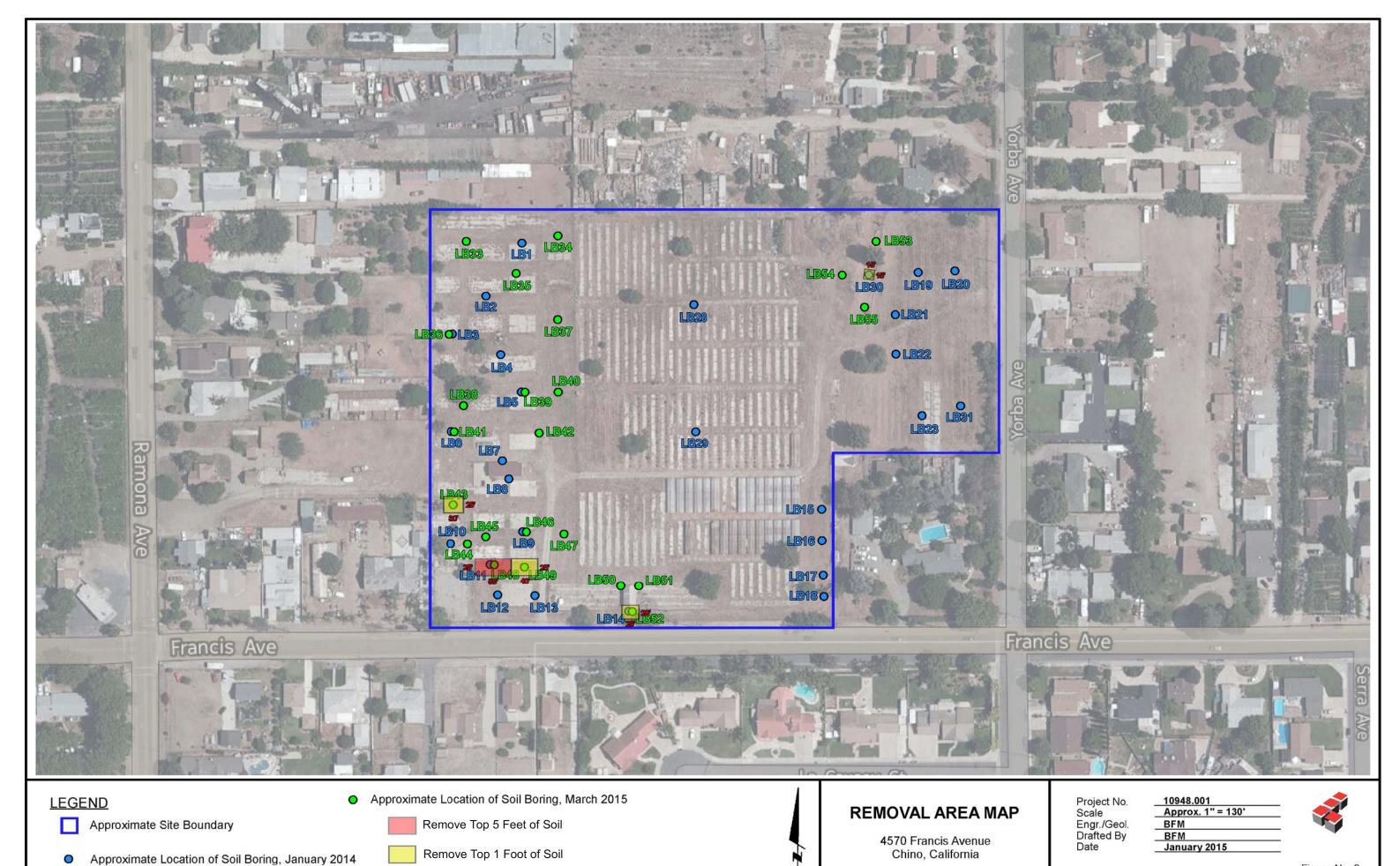


Figure No. 3

APPENDIX A

APPENDIX A

References

Environmental Protection Agency, Region 9 Regional Screening Levels, January 2015.

- Leighton and Associates, Inc., 2014a, Draft Phase I Environmental Site Assessment, 4570 Francis Avenue, Assessor Parcel Number 1012-211-21, Chino, California, dated January 10, 2014.
- Leighton and Associates, Inc., 2014b, Summary of Limited Phase II Environmental Site Assessment, 4570 Francis Avenue, Assessor Parcel Number 1013-211-21, Chino, California, dated January 23, 2014.



APPENDIX B



March 13, 2015

Brynn McCulloch Leighton Consulting, Inc. 17781 Cowan Street Irvine, CA 92614

Tel: (949) 394-2306 Fax:(949) 250-1114 ELAP No.: 1838 CSDLAC No.: 10196 ORELAP No.: CA300003 TCEQ No.: T104704502

Re: ATL Work Order Number: 1500847

Client Reference: Munzer, 10948.001

Enclosed are the results for sample(s) received on March 05, 2015 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez

Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 03/13/2015

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LB33-0.5	1500847-01	Soil	3/05/15 14:30	3/05/15 16:15
LB33-1.5	1500847-02	Soil	3/05/15 14:35	3/05/15 16:15
LB34-0.5	1500847-04	Soil	3/05/15 14:03	3/05/15 16:15
LB34-1.5	1500847-05	Soil	3/05/15 14:15	3/05/15 16:15
LB35-0.5	1500847-07	Soil	3/05/15 14:03	3/05/15 16:15
LB35-1.5	1500847-08	Soil	3/05/15 14:05	3/05/15 16:15
LB36-0.5	1500847-10	Soil	3/05/15 14:28	3/05/15 16:15
LB36-1.5	1500847-11	Soil	3/05/15 14:38	3/05/15 16:15
LB37-0.5	1500847-13	Soil	3/05/15 13:33	3/05/15 16:15
LB37-1.5	1500847-14	Soil	3/05/15 13:35	3/05/15 16:15
LB38-0.5	1500847-16	Soil	3/05/15 13:10	3/05/15 16:15
LB38-1.5	1500847-17	Soil	3/05/15 13:12	3/05/15 16:15
LB39-0.5	1500847-19	Soil	3/05/15 12:09	3/05/15 16:15
LB39-1.5	1500847-20	Soil	3/05/15 12:13	3/05/15 16:15
LB40-0.5	1500847-22	Soil	3/05/15 13:32	3/05/15 16:15
LB40-1.5	1500847-23	Soil	3/05/15 13:35	3/05/15 16:15
LB41-0.5	1500847-25	Soil	3/05/15 8:15	3/05/15 16:15
LB41-2.5	1500847-26	Soil	3/05/15 8:22	3/05/15 16:15
LB41-5.0	1500847-27	Soil	3/05/15 8:43	3/05/15 16:15
LB42-0.5	1500847-28	Soil	3/05/15 12:21	3/05/15 16:15
LB42-1.5	1500847-29	Soil	3/05/15 12:25	3/05/15 16:15
LB43-0.5	1500847-31	Soil	3/05/15 12:26	3/05/15 16:15
LB43-1.5	1500847-32	Soil	3/05/15 12:29	3/05/15 16:15
LB44-0.5	1500847-34	Soil	3/05/15 8:17	3/05/15 16:15
LB44-2.5	1500847-35	Soil	3/05/15 8:25	3/05/15 16:15
LB44-5.0	1500847-36	Soil	3/05/15 8:29	3/05/15 16:15
LB45-0.5	1500847-37	Soil	3/05/15 12:03	3/05/15 16:15
LB45-1.5	1500847-38	Soil	3/05/15 12:06	3/05/15 16:15
LB46-0.5	1500847-40	Soil	3/05/15 9:00	3/05/15 16:15
LB46-2.5	1500847-41	Soil	3/05/15 9:07	3/05/15 16:15
LB46-5.0	1500847-42	Soil	3/05/15 9:16	3/05/15 16:15
LB47-0.5	1500847-43	Soil	3/05/15 11:34	3/05/15 16:15
LB47-1.5	1500847-44	Soil	3/05/15 11:37	3/05/15 16:15
LB48-0.5	1500847-46	Soil	3/05/15 8:58	3/05/15 16:15
LB48-2.5	1500847-47	Soil	3/05/15 9:02	3/05/15 16:15
LB49-0.5	1500847-49	Soil	3/05/15 12:03	3/05/15 16:15
LB49-1.5	1500847-50	Soil	3/05/15 12:05	3/05/15 16:15



T the G the T	D : (3)	1 Manager 10049 001		
Leighton Consulting, Inc.	Project Nun	nber: Munzer, 10948.001		
17781 Cowan Street	Repor	t To: Brynn McCulloch		
Irvine , CA 92614	Repo	rted: 03/13/2015		
LB50-0.5 15	00847-52 Soil	3/05/15	9:30 3/05/15	16:15
LB50-2.5	00847-53 Soil	3/05/15	9:45 3/05/15	16:15
LB50-5.0 15	00847-54 Soil	3/05/15	10:08 3/05/15	16:15
LB51-0.5	00847-55 Soil	3/05/15	9:38 3/05/15	16:15
LB51-2.5 15	00847-56 Soil	3/05/15	9:45 3/05/15	16:15
LB51-5.0 15	00847-57 Soil	3/05/15	10:12 3/05/15	16:15
LB52-0.5 15	00847-58 Soil	3/05/15	10:42 3/05/15	16:15
LB52-2.5 15	00847-59 Soil	3/05/15	10:47 3/05/15	16:15
LB52-5.0 15	00847-60 Soil	3/05/15	10:55 3/05/15	16:15
LB53-0.5	00847-61 Soil	3/05/15	11:13 3/05/15	16:15
LB53-1.5 15	00847-62 Soil	3/05/15	11:27 3/05/15	16:15
LB54-0.5	00847-64 Soil	3/05/15	11:03 3/05/15	16:15
LB54-1.5 15	00847-65 Soil	3/05/15	11:10 3/05/15	16:15
LB55-0.5	00847-67 Soil	3/05/15	10:47 3/05/15	16:15
LB55-1.5	00847-68 Soil	3/05/15	10:50 3/05/15	16:15



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB33-0.5 Lab ID: 1500847-01

Organochlorine Pesticides by EPA 8081

organication inc resticides by r	21 71 0001						Allalyst. CI
Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	4.3	2.0	1	B5C0223	03/09/2015	03/10/15 14:54	
4,4´-DDE	ND	2.0	1	B5C0223	03/09/2015	03/10/15 14:54	
4,4´-DDT	14	2.0	1	B5C0223	03/09/2015	03/10/15 14:54	
Aldrin	ND	1.0	1	B5C0223	03/09/2015	03/10/15 14:54	
alpha-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 14:54	
alpha-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 14:54	
beta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 14:54	
Chlordane	ND	8.5	1	B5C0223	03/09/2015	03/10/15 14:54	
delta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 14:54	
Dieldrin	14	2.0	1	B5C0223	03/09/2015	03/10/15 14:54	
Endosulfan I	ND	1.0	1	B5C0223	03/09/2015	03/10/15 14:54	
Endosulfan II	ND	2.0	1	B5C0223	03/09/2015	03/10/15 14:54	
Endosulfan sulfate	ND	2.0	1	B5C0223	03/09/2015	03/10/15 14:54	
Endrin [2C]	ND	2.0	1	B5C0223	03/09/2015	03/10/15 14:54	
Endrin aldehyde	ND	2.0	1	B5C0223	03/09/2015	03/10/15 14:54	
Endrin ketone	ND	2.0	1	B5C0223	03/09/2015	03/10/15 14:54	
gamma-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 14:54	
gamma-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 14:54	
Heptachlor	ND	1.0	1	B5C0223	03/09/2015	03/10/15 14:54	
Heptachlor epoxide	ND	1.0	1	B5C0223	03/09/2015	03/10/15 14:54	
Methoxychlor	ND	5.0	1	B5C0223	03/09/2015	03/10/15 14:54	
Toxaphene	ND	50	1	B5C0223	03/09/2015	03/10/15 14:54	
Surrogate: Decachlorobiphenyl	77.6 %	16 - 137		B5C0223	03/09/2015	03/10/15 14:54	
Surrogate: Tetrachloro-m-xylene	60.8 %	16 - 105		B5C0223	03/09/2015	03/10/15 14:54	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB33-1.5 Lab ID: 1500847-02

Organochlorine Pesticides by EPA 8081

Organochiornic resticites by r	2171 0001						Allalyst, CL
Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:05	
4,4'-DDE	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:05	
4,4'-DDT	4.7	2.0	1	B5C0223	03/09/2015	03/10/15 15:05	
Aldrin	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:05	
alpha-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:05	
alpha-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:05	
beta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:05	
Chlordane	ND	8.5	1	B5C0223	03/09/2015	03/10/15 15:05	
delta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:05	
Dieldrin	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:05	
Endosulfan I	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:05	
Endosulfan II	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:05	
Endosulfan sulfate	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:05	
Endrin	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:05	
Endrin aldehyde	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:05	
Endrin ketone	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:05	
gamma-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:05	
gamma-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:05	
Heptachlor	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:05	
Heptachlor epoxide	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:05	
Methoxychlor	ND	5.0	1	B5C0223	03/09/2015	03/10/15 15:05	
Toxaphene	ND	50	1	B5C0223	03/09/2015	03/10/15 15:05	
Surrogate: Decachlorobiphenyl	73.9 %	16 - 137		B5C0223	03/09/2015	03/10/15 15:05	
Surrogate: Tetrachloro-m-xylene	67.5 %	16 - 105		B5C0223	03/09/2015	03/10/15 15:05	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB34-0.5 Lab ID: 1500847-04

Organochlorine Pesticides by EPA 8081

<u> </u>							rmaryst. C
Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:15	
4,4′-DDE	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:15	
4,4'-DDT	4.8	2.0	1	B5C0223	03/09/2015	03/10/15 15:15	
Aldrin	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:15	
alpha-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:15	
alpha-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:15	
beta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:15	
Chlordane [2C]	ND	8.5	1	B5C0223	03/09/2015	03/10/15 15:15	
delta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:15	
Dieldrin	5.6	2.0	1	B5C0223	03/09/2015	03/10/15 15:15	
Endosulfan I	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:15	
Endosulfan II	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:15	
Endosulfan sulfate	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:15	
Endrin	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:15	
Endrin aldehyde	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:15	
Endrin ketone	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:15	
gamma-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:15	
gamma-Chlordane [2C]	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:15	
Heptachlor	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:15	
Heptachlor epoxide	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:15	
Methoxychlor	ND	5.0	1	B5C0223	03/09/2015	03/10/15 15:15	
Toxaphene	ND	50	1	B5C0223	03/09/2015	03/10/15 15:15	
Surrogate: Decachlorobiphenyl	83.4 %	16 - 137		B5C0223	03/09/2015	03/10/15 15:15	
Surrogate: Tetrachloro-m-xylene	59.9 %	16 - 105		B5C0223	03/09/2015	03/10/15 15:15	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB34-1.5 Lab ID: 1500847-05

Organochlorine Pesticides by EPA 8081

organisement esticides by							Analyst. CL
Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:26	
4,4′-DDE	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:26	
4,4′-DDT	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:26	
Aldrin	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:26	
alpha-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:26	
alpha-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:26	
beta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:26	
Chlordane	ND	8.5	1	B5C0223	03/09/2015	03/10/15 15:26	
delta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:26	
Dieldrin	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:26	
Endosulfan I	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:26	
Endosulfan II	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:26	
Endosulfan sulfate	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:26	
Endrin	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:26	
Endrin aldehyde	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:26	
Endrin ketone	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:26	
gamma-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:26	
gamma-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:26	
Heptachlor	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:26	
Heptachlor epoxide	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:26	
Methoxychlor	ND	5.0	1	B5C0223	03/09/2015	03/10/15 15:26	
Toxaphene	ND	50	1	B5C0223	03/09/2015	03/10/15 15:26	
Surrogate: Decachlorobiphenyl	81.1 %	16 - 137		B5C0223	03/09/2015	03/10/15 15:26	
Surrogate: Tetrachloro-m-xylene	76.5 %	16 - 105		B5C0223	03/09/2015	03/10/15 15:26	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB35-0.5 Lab ID: 1500847-07

Organochlorine Pesticides by EPA 8081

organisemorme restrettes by r							Analyst. C
Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:36	
4,4´-DDE	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:36	
4,4´-DDT	2.6	2.0	1	B5C0223	03/09/2015	03/10/15 15:36	
Aldrin	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:36	
alpha-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:36	
alpha-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:36	
beta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:36	
Chlordane [2C]	ND	8.5	1	B5C0223	03/09/2015	03/10/15 15:36	
delta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:36	
Dieldrin [2C]	4.1	2.0	1	B5C0223	03/09/2015	03/10/15 15:36	
Endosulfan I	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:36	
Endosulfan II	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:36	
Endosulfan sulfate	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:36	
Endrin	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:36	
Endrin aldehyde	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:36	
Endrin ketone	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:36	
gamma-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:36	
gamma-Chlordane [2C]	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:36	
Heptachlor	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:36	
Heptachlor epoxide	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:36	
Methoxychlor	ND	5.0	1	B5C0223	03/09/2015	03/10/15 15:36	
Toxaphene	ND	50	1	B5C0223	03/09/2015	03/10/15 15:36	
Surrogate: Decachlorobiphenyl	87.9 %	16 - 137		B5C0223	03/09/2015	03/10/15 15:36	
Surrogate: Tetrachloro-m-xylene	62.7 %	16 - 105		B5C0223	03/09/2015	03/10/15 15:36	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB35-1.5 Lab ID: 1500847-08

Organochlorine Pesticides by EPA 8081

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Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:47	
4,4´-DDE	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:47	
4,4´-DDT	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:47	
Aldrin	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:47	
alpha-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:47	
alpha-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:47	
beta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:47	
Chlordane	ND	8.5	1	B5C0223	03/09/2015	03/10/15 15:47	
delta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:47	
Dieldrin	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:47	
Endosulfan I	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:47	
Endosulfan II	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:47	
Endosulfan sulfate	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:47	
Endrin	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:47	
Endrin aldehyde	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:47	
Endrin ketone	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:47	
gamma-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:47	
gamma-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:47	
Heptachlor	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:47	
Heptachlor epoxide	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:47	
Methoxychlor [2C]	ND	5.0	1	B5C0223	03/09/2015	03/10/15 15:47	
Toxaphene	ND	50	1	B5C0223	03/09/2015	03/10/15 15:47	
Surrogate: Decachlorobiphenyl	80.8 %	16 - 137		B5C0223	03/09/2015	03/10/15 15:47	
Surrogate: Tetrachloro-m-xylene	68.2 %	16 - 105		B5C0223	03/09/2015	03/10/15 15:47	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB36-0.5 Lab ID: 1500847-10

Organochlorine Pesticides by EPA 8081

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:57	
4,4'-DDE [2C]	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:57	
4,4′-DDT	2.7	2.0	1	B5C0223	03/09/2015	03/10/15 15:57	
Aldrin	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:57	
alpha-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:57	
alpha-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:57	
beta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:57	
Chlordane	ND	8.5	1	B5C0223	03/09/2015	03/10/15 15:57	
delta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:57	
Dieldrin	5.3	2.0	1	B5C0223	03/09/2015	03/10/15 15:57	
Endosulfan I	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:57	
Endosulfan II	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:57	
Endosulfan sulfate	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:57	
Endrin	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:57	
Endrin aldehyde	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:57	
Endrin ketone	ND	2.0	1	B5C0223	03/09/2015	03/10/15 15:57	
gamma-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:57	
gamma-Chlordane [2C]	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:57	
Heptachlor	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:57	
Heptachlor epoxide	ND	1.0	1	B5C0223	03/09/2015	03/10/15 15:57	
Methoxychlor [2C]	ND	5.0	1	B5C0223	03/09/2015	03/10/15 15:57	
Toxaphene	ND	50	1	B5C0223	03/09/2015	03/10/15 15:57	
Surrogate: Decachlorobiphenyl	68.2 %	16 - 137		B5C0223	03/09/2015	03/10/15 15:57	
Surrogate: Tetrachloro-m-xylene	59.6 %	16 - 105		B5C0223	03/09/2015	03/10/15 15:57	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 03/13/2015

Client Sample ID LB36-1.5 Lab ID: 1500847-11

Organochlorine Pesticides by EPA 8081

organicemornic restrettes by r							Analyst. C
Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:08	
4,4´-DDE	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:08	
4,4′-DDT	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:08	
Aldrin	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:08	
alpha-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:08	
alpha-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:08	
beta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:08	
Chlordane	ND	8.5	1	B5C0223	03/09/2015	03/10/15 16:08	
delta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:08	
Dieldrin	2.4	2.0	1	B5C0223	03/09/2015	03/10/15 16:08	
Endosulfan I	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:08	
Endosulfan II	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:08	
Endosulfan sulfate	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:08	
Endrin	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:08	
Endrin aldehyde	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:08	
Endrin ketone	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:08	
gamma-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:08	
gamma-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:08	
Heptachlor	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:08	
Heptachlor epoxide	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:08	
Methoxychlor	ND	5.0	1	B5C0223	03/09/2015	03/10/15 16:08	
Toxaphene	ND	50	1	B5C0223	03/09/2015	03/10/15 16:08	
Surrogate: Decachlorobiphenyl	81.3 %	16 - 137		B5C0223	03/09/2015	03/10/15 16:08	
Surrogate: Tetrachloro-m-xylene	69.4 %	16 - 105		B5C0223	03/09/2015	03/10/15 16:08	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB37-0.5 Lab ID: 1500847-13

Organochlorine Pesticides by EPA 8081

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:18	
4,4′-DDE	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:18	
4,4′-DDT	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:18	
Aldrin	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:18	
alpha-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:18	
alpha-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:18	
beta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:18	
Chlordane	ND	8.5	1	B5C0223	03/09/2015	03/10/15 16:18	
delta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:18	
Dieldrin	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:18	
Endosulfan I	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:18	
Endosulfan II	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:18	
Endosulfan sulfate	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:18	
Endrin	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:18	
Endrin aldehyde	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:18	
Endrin ketone	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:18	
gamma-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:18	
gamma-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:18	
Heptachlor	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:18	
Heptachlor epoxide	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:18	
Methoxychlor	ND	5.0	1	B5C0223	03/09/2015	03/10/15 16:18	
Toxaphene	ND	50	1	B5C0223	03/09/2015	03/10/15 16:18	
Surrogate: Decachlorobiphenyl	77.0 %	16 - 137		B5C0223	03/09/2015	03/10/15 16:18	
Surrogate: Tetrachloro-m-xylene	72.5 %	16 - 105		B5C0223	03/09/2015	03/10/15 16:18	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB37-1.5 Lab ID: 1500847-14

Organochlorine Pesticides by EPA 8081

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Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:29	
4,4´-DDE	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:29	
4,4'-DDT	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:29	
Aldrin	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:29	
alpha-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:29	
alpha-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:29	
beta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:29	
Chlordane	ND	8.5	1	B5C0223	03/09/2015	03/10/15 16:29	
delta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:29	
Dieldrin	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:29	
Endosulfan I	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:29	
Endosulfan II	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:29	
Endosulfan sulfate	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:29	
Endrin	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:29	
Endrin aldehyde	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:29	
Endrin ketone	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:29	
gamma-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:29	
gamma-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:29	
Heptachlor	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:29	
Heptachlor epoxide	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:29	
Methoxychlor	ND	5.0	1	B5C0223	03/09/2015	03/10/15 16:29	
Toxaphene	ND	50	1	B5C0223	03/09/2015	03/10/15 16:29	
Surrogate: Decachlorobiphenyl	87.4 %	16 - 137		B5C0223	03/09/2015	03/10/15 16:29	
Surrogate: Tetrachloro-m-xylene	80.5 %	16 - 105		B5C0223	03/09/2015	03/10/15 16:29	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB38-0.5 Lab ID: 1500847-16

Organochlorine Pesticides by EPA 8081

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Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:39	
4,4´-DDE	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:39	
4,4´-DDT	4.2	2.0	1	B5C0223	03/09/2015	03/10/15 16:39	
Aldrin	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:39	
alpha-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:39	
alpha-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:39	
beta-BHC	1.1	1.0	1	B5C0223	03/09/2015	03/10/15 16:39	
Chlordane	ND	8.5	1	B5C0223	03/09/2015	03/10/15 16:39	
delta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:39	
Dieldrin	15	2.0	1	B5C0223	03/09/2015	03/10/15 16:39	
Endosulfan I	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:39	
Endosulfan II	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:39	
Endosulfan sulfate	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:39	
Endrin	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:39	
Endrin aldehyde	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:39	
Endrin ketone	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:39	
gamma-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:39	
gamma-Chlordane [2C]	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:39	
Heptachlor	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:39	
Heptachlor epoxide	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:39	
Methoxychlor	ND	5.0	1	B5C0223	03/09/2015	03/10/15 16:39	
Toxaphene	ND	50	1	B5C0223	03/09/2015	03/10/15 16:39	
Surrogate: Decachlorobiphenyl	72.0 %	16 - 137		B5C0223	03/09/2015	03/10/15 16:39	
Surrogate: Tetrachloro-m-xylene	55.9 %	16 - 105		B5C0223	03/09/2015	03/10/15 16:39	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB38-1.5 Lab ID: 1500847-17

Organochlorine Pesticides by EPA 8081

-							maryst. CL
Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:49	
4,4´-DDE	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:49	
4,4´-DDT	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:49	
Aldrin	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:49	
alpha-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:49	
alpha-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:49	
beta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:49	
Chlordane	ND	8.5	1	B5C0223	03/09/2015	03/10/15 16:49	
delta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:49	
Dieldrin	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:49	
Endosulfan I	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:49	
Endosulfan II	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:49	
Endosulfan sulfate	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:49	
Endrin	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:49	
Endrin aldehyde	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:49	
Endrin ketone	ND	2.0	1	B5C0223	03/09/2015	03/10/15 16:49	
gamma-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:49	
gamma-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:49	
Heptachlor	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:49	
Heptachlor epoxide	ND	1.0	1	B5C0223	03/09/2015	03/10/15 16:49	
Methoxychlor	ND	5.0	1	B5C0223	03/09/2015	03/10/15 16:49	
Toxaphene	ND	50	1	B5C0223	03/09/2015	03/10/15 16:49	
Surrogate: Decachlorobiphenyl	87.2 %	16 - 137		B5C0223	03/09/2015	03/10/15 16:49	
Surrogate: Tetrachloro-m-xylene	77.7 %	16 - 105		B5C0223	03/09/2015	03/10/15 16:49	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB39-0.5 Lab ID: 1500847-19

Organochlorine Pesticides by EPA 8081

	D14	DOI				Date/Time	11mily see G
Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Analyzed	Notes
4,4′-DDD	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:00	
4,4´-DDE	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:00	
4,4′-DDT	2.1	2.0	1	B5C0223	03/09/2015	03/10/15 17:00	
Aldrin	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:00	
alpha-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:00	
alpha-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:00	
beta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:00	
Chlordane [2C]	ND	8.5	1	B5C0223	03/09/2015	03/10/15 17:00	
delta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:00	
Dieldrin	2.6	2.0	1	B5C0223	03/09/2015	03/10/15 17:00	
Endosulfan I	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:00	
Endosulfan II	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:00	
Endosulfan sulfate	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:00	
Endrin	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:00	
Endrin aldehyde	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:00	
Endrin ketone	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:00	
gamma-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:00	
gamma-Chlordane [2C]	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:00	
Heptachlor	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:00	
Heptachlor epoxide	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:00	
Methoxychlor [2C]	ND	5.0	1	B5C0223	03/09/2015	03/10/15 17:00	
Toxaphene	ND	50	1	B5C0223	03/09/2015	03/10/15 17:00	
Surrogate: Decachlorobiphenyl	72.4 %	16 - 137		B5C0223	03/09/2015	03/10/15 17:00	
Surrogate: Tetrachloro-m-xylene	59.3 %	16 - 105		B5C0223	03/09/2015	03/10/15 17:00	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB39-1.5 Lab ID: 1500847-20

Organochlorine Pesticides by EPA 8081

organisement esticides by							Analyst. CL
Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:10	
4,4′-DDE	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:10	
4,4′-DDT	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:10	
Aldrin	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:10	
alpha-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:10	
alpha-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:10	
beta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:10	
Chlordane	ND	8.5	1	B5C0223	03/09/2015	03/10/15 17:10	
delta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:10	
Dieldrin	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:10	
Endosulfan I	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:10	
Endosulfan II	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:10	
Endosulfan sulfate	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:10	
Endrin	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:10	
Endrin aldehyde	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:10	
Endrin ketone	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:10	
gamma-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:10	
gamma-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:10	
Heptachlor	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:10	
Heptachlor epoxide	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:10	
Methoxychlor	ND	5.0	1	B5C0223	03/09/2015	03/10/15 17:10	
Toxaphene	ND	50	1	B5C0223	03/09/2015	03/10/15 17:10	
Surrogate: Decachlorobiphenyl	80.0 %	16 - 137		B5C0223	03/09/2015	03/10/15 17:10	
Surrogate: Tetrachloro-m-xylene	73.0 %	16 - 105		B5C0223	03/09/2015	03/10/15 17:10	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB40-0.5 Lab ID: 1500847-22

Organochlorine Pesticides by EPA 8081

<i>g</i> ,							rmaryst. CL
Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:21	
4,4′-DDE	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:21	
4,4'-DDT	2.7	2.0	1	B5C0223	03/09/2015	03/10/15 17:21	
Aldrin	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:21	
alpha-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:21	
alpha-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:21	
beta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:21	
Chlordane	ND	8.5	1	B5C0223	03/09/2015	03/10/15 17:21	
delta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:21	
Dieldrin	7.4	2.0	1	B5C0223	03/09/2015	03/10/15 17:21	
Endosulfan I	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:21	
Endosulfan II	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:21	
Endosulfan sulfate	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:21	
Endrin	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:21	
Endrin aldehyde	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:21	
Endrin ketone	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:21	
gamma-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:21	
gamma-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:21	
Heptachlor	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:21	
Heptachlor epoxide	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:21	
Methoxychlor	ND	5.0	1	B5C0223	03/09/2015	03/10/15 17:21	
Toxaphene	ND	50	1	B5C0223	03/09/2015	03/10/15 17:21	
Surrogate: Decachlorobiphenyl	79.5 %	16 - 137		B5C0223	03/09/2015	03/10/15 17:21	
Surrogate: Tetrachloro-m-xylene	64.5 %	16 - 105		B5C0223	03/09/2015	03/10/15 17:21	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB40-1.5 Lab ID: 1500847-23

Organochlorine Pesticides by EPA 8081

organisemorme restrettes by r							Analyst. CD
Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:31	
4,4′-DDE	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:31	
4,4′-DDT	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:31	
Aldrin	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:31	
alpha-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:31	
alpha-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:31	
beta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:31	
Chlordane	ND	8.5	1	B5C0223	03/09/2015	03/10/15 17:31	
delta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:31	
Dieldrin	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:31	
Endosulfan I	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:31	
Endosulfan II	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:31	
Endosulfan sulfate	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:31	
Endrin	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:31	
Endrin aldehyde	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:31	
Endrin ketone	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:31	
gamma-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:31	
gamma-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:31	
Heptachlor	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:31	
Heptachlor epoxide	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:31	
Methoxychlor	ND	5.0	1	B5C0223	03/09/2015	03/10/15 17:31	
Toxaphene	ND	50	1	B5C0223	03/09/2015	03/10/15 17:31	
Surrogate: Decachlorobiphenyl	84.3 %	16 - 137		B5C0223	03/09/2015	03/10/15 17:31	
Surrogate: Tetrachloro-m-xylene	75.0 %	16 - 105		B5C0223	03/09/2015	03/10/15 17:31	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB41-0.5 Lab ID: 1500847-25

Organochlorine Pesticides by EPA 8081

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4′-DDD	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:41	
1,4′-DDE	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:41	
4,4′-DDT	5.5	2.0	1	B5C0223	03/09/2015	03/10/15 17:41	
Aldrin	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:41	
alpha-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:41	
alpha-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:41	
peta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:41	
Chlordane	ND	8.5	1	B5C0223	03/09/2015	03/10/15 17:41	
lelta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:41	
Dieldrin	15	2.0	1	B5C0223	03/09/2015	03/10/15 17:41	
Endosulfan I	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:41	
Endosulfan II	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:41	
Endosulfan sulfate	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:41	
Endrin	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:41	
Endrin aldehyde	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:41	
Endrin ketone	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:41	
gamma-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:41	
gamma-Chlordane [2C]	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:41	
Heptachlor	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:41	
Heptachlor epoxide	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:41	
Methoxychlor	8.5	5.0	1	B5C0223	03/09/2015	03/10/15 17:41	
Гохарhene	ND	50	1	B5C0223	03/09/2015	03/10/15 17:41	
Surrogate: Decachlorobiphenyl	74.5 %	16 - 137		B5C0223	03/09/2015	03/10/15 17:41	
Surrogate: Tetrachloro-m-xylene	60.0 %	16 - 105		B5C0223	03/09/2015	03/10/15 17:41	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 03/13/2015

Client Sample ID LB41-2.5 Lab ID: 1500847-26

Organochlorine Pesticides by EPA 8081

,							maryst. CL
Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:52	
4,4′-DDE	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:52	
4,4'-DDT	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:52	
Aldrin	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:52	
alpha-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:52	
alpha-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:52	
beta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:52	
Chlordane	ND	8.5	1	B5C0223	03/09/2015	03/10/15 17:52	
delta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:52	
Dieldrin	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:52	
Endosulfan I	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:52	
Endosulfan II	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:52	
Endosulfan sulfate	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:52	
Endrin	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:52	
Endrin aldehyde	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:52	
Endrin ketone	ND	2.0	1	B5C0223	03/09/2015	03/10/15 17:52	
gamma-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:52	
gamma-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:52	
Heptachlor	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:52	
Heptachlor epoxide	ND	1.0	1	B5C0223	03/09/2015	03/10/15 17:52	
Methoxychlor	ND	5.0	1	B5C0223	03/09/2015	03/10/15 17:52	
Toxaphene	ND	50	1	B5C0223	03/09/2015	03/10/15 17:52	
Surrogate: Decachlorobiphenyl	72.3 %	16 - 137		B5C0223	03/09/2015	03/10/15 17:52	
Surrogate: Tetrachloro-m-xylene	63.0 %	16 - 105		B5C0223	03/09/2015	03/10/15 17:52	



Project Number: Munzer, 10948.001 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 03/13/2015

Client Sample ID LB41-5.0 Lab ID: 1500847-27

Organochlorine Pesticides by EPA 8081

organicanionine restretues by r							Analyst. CD
Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B5C0223	03/09/2015	03/10/15 18:02	
4,4'-DDE	ND	2.0	1	B5C0223	03/09/2015	03/10/15 18:02	
4,4'-DDT	ND	2.0	1	B5C0223	03/09/2015	03/10/15 18:02	
Aldrin	ND	1.0	1	B5C0223	03/09/2015	03/10/15 18:02	
alpha-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 18:02	
alpha-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 18:02	
beta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 18:02	
Chlordane	ND	8.5	1	B5C0223	03/09/2015	03/10/15 18:02	
delta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 18:02	
Dieldrin	3.3	2.0	1	B5C0223	03/09/2015	03/10/15 18:02	
Endosulfan I	ND	1.0	1	B5C0223	03/09/2015	03/10/15 18:02	
Endosulfan II	ND	2.0	1	B5C0223	03/09/2015	03/10/15 18:02	
Endosulfan sulfate	ND	2.0	1	B5C0223	03/09/2015	03/10/15 18:02	
Endrin	ND	2.0	1	B5C0223	03/09/2015	03/10/15 18:02	
Endrin aldehyde	ND	2.0	1	B5C0223	03/09/2015	03/10/15 18:02	
Endrin ketone	ND	2.0	1	B5C0223	03/09/2015	03/10/15 18:02	
gamma-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 18:02	
gamma-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 18:02	
Heptachlor	ND	1.0	1	B5C0223	03/09/2015	03/10/15 18:02	
Heptachlor epoxide	ND	1.0	1	B5C0223	03/09/2015	03/10/15 18:02	
Methoxychlor	ND	5.0	1	B5C0223	03/09/2015	03/10/15 18:02	
Toxaphene	ND	50	1	B5C0223	03/09/2015	03/10/15 18:02	
Surrogate: Decachlorobiphenyl	78.6 %	16 - 137		B5C0223	03/09/2015	03/10/15 18:02	
Surrogate: Tetrachloro-m-xylene	67.8 %	16 - 105		B5C0223	03/09/2015	03/10/15 18:02	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB42-0.5 Lab ID: 1500847-28

Organochlorine Pesticides by EPA 8081

A4-4-DDD	Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDE ND 2,0 1 B5C0223 03/09/2015 03/10/15 18:13 4,4'-DDT ND 2,0 1 B5C0223 03/09/2015 03/10/15 18:13 Aldrin ND 1,0 1 B5C0223 03/09/2015 03/10/15 18:13 alpha-BHC ND 1,0 1 B5C0223 03/09/2015 03/10/15 18:13 alpha-Chlordane ND 1,0 1 B5C0223 03/09/2015 03/10/15 18:13 beta-BHC ND 1,0 1 B5C0223 03/09/2015 03/10/15 18:13 Chlordane ND 1,0 1 B5C0223 03/09/2015 03/10/15 18:13 Chlordane ND 8.5 1 B5C0223 03/09/2015 03/10/15 18:13 Chlordane ND 1,0 1 B5C0223 03/09/2015 03/10/15 18:13 Dieldrin ND 1,0 1 B5C0223 03/09/2015 03/10/15 18:13 Endosulfan II ND 2,0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin aldehyde ND 2,0 <	Analyte	(ug/kg)	(ug/kg)	Ditution	Daten	Теригеа	7 Hary Zea	rotes
4.4°-DDT ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Aldrin ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 alpha-BHC ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 alpha-Chlordane ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 beta-BHC ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Chlordane ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Chlordane ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 delta-BHC ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Dieldrin ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endosulfan II ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin sulfate ND 2.0 1 B5C0223	4,4′-DDD	ND	2.0	1	B5C0223	03/09/2015	03/10/15 18:13	
Aldrin ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 alpha-BHC ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 alpha-Chlordane ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 beta-BHC ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Chlordane ND 8.5 1 B5C0223 03/09/2015 03/10/15 18:13 Ochlordane ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Ochlordane ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Ochlordane ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Dieldrin ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endosulfan II ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin sulfate ND 2.0 1 B5C0223	4,4′-DDE	ND	2.0	1	B5C0223	03/09/2015	03/10/15 18:13	
alpha-BHC ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 alpha-Chlordane ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 beta-BHC ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Chlordane ND 8.5 1 B5C0223 03/09/2015 03/10/15 18:13 delta-BHC ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Dieldrin ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endosulfan I ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endosulfan Sulfate ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin aldehyde ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 2.0 1 B5C	4,4′-DDT	ND	2.0	1	B5C0223	03/09/2015	03/10/15 18:13	
alpha-Chlordane ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 beta-BHC ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Chlordane ND 8.5 1 B5C0223 03/09/2015 03/10/15 18:13 delta-BHC ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Dieldrin ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endosulfan I ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endosulfan III ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin sulfate ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin aldehyde ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 gamma-BHC ND 1.0 1 <td< td=""><td>Aldrin</td><td>ND</td><td>1.0</td><td>1</td><td>B5C0223</td><td>03/09/2015</td><td>03/10/15 18:13</td><td></td></td<>	Aldrin	ND	1.0	1	B5C0223	03/09/2015	03/10/15 18:13	
beta-BHC ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Chlordane ND 8.5 1 B5C0223 03/09/2015 03/10/15 18:13 delta-BHC ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Dieldrin ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endosulfan I ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endosulfan II ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endosulfan sulfate ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin aldehyde ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 gamma-BHC ND 1.0 1 <t< td=""><td>alpha-BHC</td><td>ND</td><td>1.0</td><td>1</td><td>B5C0223</td><td>03/09/2015</td><td>03/10/15 18:13</td><td></td></t<>	alpha-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 18:13	
Chlordane ND 8.5 1 B5C0223 03/09/2015 03/10/15 18:13 delta-BHC ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Dieldrin ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endosulfan I ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endosulfan II ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endosulfan sulfate ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin aldehyde ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 gamma-BHC ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Heptachlor ND 1.0 1 B5C	alpha-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 18:13	
delta-BHC ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Dieldrin ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endosulfan I ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endosulfan II ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endosulfan sulfate ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin aldehyde ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 gamma-BHC ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Heptachlor ND 1.0 1 <td< td=""><td>beta-BHC</td><td>ND</td><td>1.0</td><td>1</td><td>B5C0223</td><td>03/09/2015</td><td>03/10/15 18:13</td><td></td></td<>	beta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 18:13	
Dieldrin	Chlordane	ND	8.5	1	B5C0223	03/09/2015	03/10/15 18:13	
Endosulfan I ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endosulfan II ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endosulfan sulfate ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin aldehyde ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 gamma-BHC ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Heptachlor ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Methoxychlor ND 5.0 1	delta-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 18:13	
Endosulfan II ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endosulfan sulfate ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin aldehyde ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 5.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 50 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 50 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 50 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 50 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 50 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 50 1 B5C0223 03/09/2015 03/10/15 18:13	Dieldrin	ND	2.0	1	B5C0223	03/09/2015	03/10/15 18:13	
Endosulfan sulfate ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin aldehyde ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 gamma-BHC ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 gamma-Chlordane ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Heptachlor ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Heptachlor epoxide ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Heptachlor epoxide ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Heptachlor epoxide ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Toxaphene ND 5.0 1 B5C0223 03/09/2015 03/10/15 18:13 Toxaphene ND 50 1 B5C0223 03/09/2015 03/10/15 18:13 Surrogate: Decachlorobiphenyl 81.2 % 16 - 137 B5C0223 03/09/2015 03/10/15 18:13	Endosulfan I	ND	1.0	1	B5C0223	03/09/2015	03/10/15 18:13	
Endrin ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin aldehyde ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 gamma-BHC ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 gamma-Chlordane ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Heptachlor ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Heptachlor epoxide ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Heptachlor epoxide ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Methoxychlor ND 5.0 1 B5C0223 03/09/2015 03/10/15 18:13 Toxaphene ND 50 1 B5C0223 03/09/2015 03/10/15 18:13 Surrogate: Decachlorobiphenyl 81.2 % 16 - 137 B5C0223 03/09/2015 03/10/15 18:13	Endosulfan II	ND	2.0	1	B5C0223	03/09/2015	03/10/15 18:13	
Endrin aldehyde ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 Endrin ketone ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13 gamma-BHC ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 gamma-Chlordane ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Heptachlor ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Heptachlor epoxide ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Heptachlor epoxide ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Methoxychlor ND 5.0 1 B5C0223 03/09/2015 03/10/15 18:13 Toxaphene ND 50 1 B5C0223 03/09/2015 03/10/15 18:13 Surrogate: Decachlorobiphenyl 81.2 % 16 - 137 B5C0223 03/09/2015 03/10/15 18:13	Endosulfan sulfate	ND	2.0	1	B5C0223	03/09/2015	03/10/15 18:13	
Endrin ketone ND 2.0 1 B5C0223 03/09/2015 03/10/15 18:13	Endrin	ND	2.0	1	B5C0223	03/09/2015	03/10/15 18:13	
gamma-BHC ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 gamma-Chlordane ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Heptachlor ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Heptachlor epoxide ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Methoxychlor ND 5.0 1 B5C0223 03/09/2015 03/10/15 18:13 Toxaphene ND 50 1 B5C0223 03/09/2015 03/10/15 18:13 Surrogate: Decachlorobiphenyl 81.2 % 16 - 137 B5C0223 03/09/2015 03/10/15 18:13	Endrin aldehyde	ND	2.0	1	B5C0223	03/09/2015	03/10/15 18:13	
gamma-Chlordane ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Heptachlor ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Heptachlor epoxide ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Methoxychlor ND 5.0 1 B5C0223 03/09/2015 03/10/15 18:13 Toxaphene ND 50 1 B5C0223 03/09/2015 03/10/15 18:13 Surrogate: Decachlorobiphenyl 81.2 % 16 - 137 B5C0223 03/09/2015 03/10/15 18:13	Endrin ketone	ND	2.0	1	B5C0223	03/09/2015	03/10/15 18:13	
Heptachlor ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Heptachlor epoxide ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Methoxychlor ND 5.0 1 B5C0223 03/09/2015 03/10/15 18:13 Toxaphene ND 50 1 B5C0223 03/09/2015 03/10/15 18:13 Surrogate: Decachlorobiphenyl 81.2 % 16 - 137 B5C0223 03/09/2015 03/10/15 18:13	gamma-BHC	ND	1.0	1	B5C0223	03/09/2015	03/10/15 18:13	
Heptachlor epoxide ND 1.0 1 B5C0223 03/09/2015 03/10/15 18:13 Methoxychlor ND 5.0 1 B5C0223 03/09/2015 03/10/15 18:13 Toxaphene ND 50 1 B5C0223 03/09/2015 03/10/15 18:13 Surrogate: Decachlorobiphenyl 81.2 % 16 - 137 B5C0223 03/09/2015 03/10/15 18:13	gamma-Chlordane	ND	1.0	1	B5C0223	03/09/2015	03/10/15 18:13	
Methoxychlor ND 5.0 1 B5C0223 03/09/2015 03/10/15 18:13 Toxaphene ND 50 1 B5C0223 03/09/2015 03/10/15 18:13 Surrogate: Decachlorobiphenyl 81.2 % 16 - 137 B5C0223 03/09/2015 03/10/15 18:13	Heptachlor	ND	1.0	1	B5C0223	03/09/2015	03/10/15 18:13	
Toxaphene ND 50 1 B5C0223 03/09/2015 03/10/15 18:13 Surrogate: Decachlorobiphenyl 81.2 % 16 - 137 B5C0223 03/09/2015 03/10/15 18:13	Heptachlor epoxide	ND	1.0	1	B5C0223	03/09/2015	03/10/15 18:13	
Toxaphene ND 50 1 B5C0223 03/09/2015 03/10/15 18:13 Surrogate: Decachlorobiphenyl 81.2 % 16 - 137 B5C0223 03/09/2015 03/10/15 18:13	Methoxychlor	ND	5.0	1	B5C0223	03/09/2015	03/10/15 18:13	
· · · · · · · · · · · · · · · · · · ·		ND	50	1	B5C0223	03/09/2015	03/10/15 18:13	
	Surrogate: Decachlorobiphenyl	81.2 %	16 - 137		B5C0223	03/09/2015	03/10/15 18:13	
Surrogate: Tetrachloro-m-xylene 67.9 % 16 - 105 B5C0223 03/09/2015 03/10/15 18:13	Surrogate: Tetrachloro-m-xylene	67.9 %	16 - 105		B5C0223	03/09/2015	03/10/15 18:13	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB42-1.5 Lab ID: 1500847-29

Organochlorine Pesticides by EPA 8081

organismine restretues by r							Analyst. CL
Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B5C0262	03/10/2015	03/11/15 11:32	
4,4′-DDE	ND	2.0	1	B5C0262	03/10/2015	03/11/15 11:32	
4,4′-DDT	ND	2.0	1	B5C0262	03/10/2015	03/11/15 11:32	
Aldrin	ND	1.0	1	B5C0262	03/10/2015	03/11/15 11:32	
alpha-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 11:32	
alpha-Chlordane	ND	1.0	1	B5C0262	03/10/2015	03/11/15 11:32	
beta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 11:32	
Chlordane	ND	8.5	1	B5C0262	03/10/2015	03/11/15 11:32	
delta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 11:32	
Dieldrin	4.2	2.0	1	B5C0262	03/10/2015	03/11/15 11:32	
Endosulfan I	ND	1.0	1	B5C0262	03/10/2015	03/11/15 11:32	
Endosulfan II	ND	2.0	1	B5C0262	03/10/2015	03/11/15 11:32	
Endosulfan sulfate	ND	2.0	1	B5C0262	03/10/2015	03/11/15 11:32	
Endrin	ND	2.0	1	B5C0262	03/10/2015	03/11/15 11:32	
Endrin aldehyde	ND	2.0	1	B5C0262	03/10/2015	03/11/15 11:32	
Endrin ketone	ND	2.0	1	B5C0262	03/10/2015	03/11/15 11:32	
gamma-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 11:32	
gamma-Chlordane	ND	1.0	1	B5C0262	03/10/2015	03/11/15 11:32	
Heptachlor	ND	1.0	1	B5C0262	03/10/2015	03/11/15 11:32	
Heptachlor epoxide	ND	1.0	1	B5C0262	03/10/2015	03/11/15 11:32	
Methoxychlor	ND	5.0	1	B5C0262	03/10/2015	03/11/15 11:32	
Toxaphene	ND	50	1	B5C0262	03/10/2015	03/11/15 11:32	
Surrogate: Decachlorobiphenyl	76.0 %	16 - 137		B5C0262	03/10/2015	03/11/15 11:32	
Surrogate: Tetrachloro-m-xylene	60.0 %	16 - 105		B5C0262	03/10/2015	03/11/15 11:32	



Project Number: Munzer, 10948.001 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 03/13/2015

Client Sample ID LB43-0.5 Lab ID: 1500847-31

Organochlorine Pesticides by EPA 8081

Analyte (ug/kg) (ug/kg) Dilution Batch Prepared Analyzed Not 4,4'-DDD ND 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 4.4'-DDE 21 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 4.4'-DDE 4.4'-DDE 50 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 4.4'-DDE 4.4'-DDE 50 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 4.4'-DDE 4.4'-DDE 10 1 B5C0262 03/10/2015 03/11/15 14:19 4.4'-DDE 4.4'-DDE 03/10/2015 03/11/15 14:19 10 1 B5C0262 03/10/2015 03/11/15 14:19 10 1		Result	DOI				Date/Time	rinarysti er
4,4'-DDE 21 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 4,4'-DDT 50 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 Aldrin [2C] ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 alpha-BHC ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 alpha-Chlordane ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 beta-BHC ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Chlordane [2C] 18 8.5 1 B5C0262 03/10/2015 03/11/15 14:19 beta-BHC ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 beta-BHC ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 beta-BHC ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 biddefin ND 2.0 1 B5C0262	Analyte			Dilution	Batch	Prepared		Notes
4,4'-DDT 50 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 Aldrin [2C] ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 alpha-BHC ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 alpha-Chlordane ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 beta-BHC ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Chlordane [2C] 18 8.5 1 B5C0262 03/10/2015 03/11/15 14:19 Dieldrin 480 40 20 B5C0262 03/10/2015 03/11/15 14:19 Endosulfan I ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Endosulfan Sulfate ND 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 Endrin J2C 4.6 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 Endrin ketone [2C] 3.9 2.0 1	4,4′-DDD	ND	2.0	1	B5C0262	03/10/2015	03/11/15 14:19	
Aldrin [2C] ND 1.0 1 BSC0262 03/10/2015 03/11/15 14:19 alpha-BHC ND 1.0 1 BSC0262 03/10/2015 03/11/15 14:19 alpha-Chlordane ND 1.0 1 BSC0262 03/10/2015 03/11/15 14:19 beta-BHC ND 1.0 1 BSC0262 03/10/2015 03/11/15 14:19 beta-BHC ND 1.0 1 BSC0262 03/10/2015 03/11/15 14:19 Chlordane [2C] 18 8.5 1 BSC0262 03/10/2015 03/11/15 14:19 Dieddrin ND 1.0 1 BSC0262 03/10/2015 03/11/15 14:19 Dieddrin A80 40 20 BSC0262 03/10/2015 03/11/15 14:19 Dieddrin ND 1.0 1 BSC0262 03/10/2015 03/11/15 14:19 Endosulfan II ND 1.0 1 BSC0262 03/10/2015 03/11/15 14:19 Endosulfan II ND 2.0 1 BSC0262 03/10/2015 03/11/15 14:19 Endrin part	4,4′-DDE	21	2.0	1	B5C0262	03/10/2015	03/11/15 14:19	
alpha-BHC ND 1.0 1 BSC0262 03/10/2015 03/11/15 14:19 alpha-Chlordane ND 1.0 1 BSC0262 03/10/2015 03/11/15 14:19 beta-BHC ND 1.0 1 BSC0262 03/10/2015 03/11/15 14:19 Chlordane [2C] 18 8.5 1 BSC0262 03/10/2015 03/11/15 14:19 delta-BHC ND 1.0 1 BSC0262 03/10/2015 03/11/15 14:19 Dieddrin 480 40 2.0 1 BSC0262 03/10/2015 03/11/15 14:19 Endosulfan sulfate ND 2.0 1 BSC0262 03/10/2015 03/11/15 14:19 Endrin [2C] 4.6 2.0 1 </td <td>4,4′-DDT</td> <td>50</td> <td>2.0</td> <td>1</td> <td>B5C0262</td> <td>03/10/2015</td> <td>03/11/15 14:19</td> <td></td>	4,4′-DDT	50	2.0	1	B5C0262	03/10/2015	03/11/15 14:19	
ND 1.0 1 85C0262 03/10/2015 03/11/15 14:19 beta-BHC	Aldrin [2C]	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:19	
beta-BHC ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Chlordane [2C] 18 8.5 1 B5C0262 03/10/2015 03/11/15 14:19 delta-BHC ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Dieldrin 480 40 20 B5C0262 03/10/2015 03/11/15 14:19 Endosulfan I ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Endosulfan II ND 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 Endrin gLCI 4.6 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 Endrin aldehyde ND 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 Endrin ketone [2C] 3.9 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 gamma-BHC ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Heptachlor ND 1.0 1	alpha-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:19	
Chlordane [2C] 18 8.5 1 B5C0262 03/10/2015 03/11/15 14:19 delta-BHC ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Dieldrin 480 40 20 B5C0262 03/10/2015 03/12/15 06:52 Endosulfan I ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Endosulfan Sulfate ND 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 Endrin J2CJ 4.6 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 Endrin aldehyde ND 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 Endrin ketone [2C] 3.9 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 Emma-BHC ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Heptachlor ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Heptachlor epoxide ND 1.0	alpha-Chlordane	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:19	
delta-BHC ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Dieldrin 480 40 20 B5C0262 03/10/2015 03/12/15 06:52 Endosulfan I ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Endosulfan II ND 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 Endosulfan sulfate ND 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 Endrin [2C] 4.6 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 Endrin aldehyde ND 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 Endrin ladehyde ND 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 Endrin ladehyde ND 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 Endrin ladehyde ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Endrin ladehyde ND 1.0	beta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:19	
Dieldrin	Chlordane [2C]	18	8.5	1	B5C0262	03/10/2015	03/11/15 14:19	
Endosulfan I ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Endosulfan II ND 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 Endosulfan sulfate ND 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 Endrin [2C] 4.6 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 Endrin ketone [2C] 3.9 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 Endrin ketone [2C] 3.9 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 gamma-BHC ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 gamma-Chlordane [2C] ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Heptachlor ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Methoxychlor ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Toxaphene ND 5.0	delta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:19	
Endosulfan II	Dieldrin	480	40	20	B5C0262	03/10/2015	03/12/15 06:52	
Endosulfan sulfate ND 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 Endrin [2C] 4.6 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 Endrin aldehyde ND 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 Endrin ketone [2C] 3.9 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 gamma-BHC ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 gamma-Chlordane [2C] ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Heptachlor epoxide ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Methoxychlor ND 5.0 1 B5C0262 03/10/2015 03/11/15 14:19 Toxaphene ND 5.0 1 B5C0262 03/10/2015 03/11/15 14:19 Surrogate: Decachlorobiphenyl 84.9 % 16 - 137 B5C0262 03/10/2015 03/11/15 14:19 Surrogate: Tetrachloro-m-xylene 61.	Endosulfan I	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:19	
Endrin [2C] 4.6 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 Endrin aldehyde ND 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 Endrin ketone [2C] 3.9 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 gamma-BHC ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 gamma-Chlordane [2C] ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Heptachlor ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Heptachlor epoxide ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Methoxychlor ND 5.0 1 B5C0262 03/10/2015 03/11/15 14:19 Toxaphene ND 50 1 B5C0262 03/10/2015 03/11/15 14:19 Surrogate: Decachlorobiphenyl 84.9 % 16 - 137 B5C0262 03/10/2015 03/11/15 14:19 Surrogate: Tetrachloro-m-xylene 61.0 %	Endosulfan II	ND	2.0	1	B5C0262	03/10/2015	03/11/15 14:19	
Endrin aldehyde ND 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 Endrin ketone [2C] 3.9 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 gamma-BHC ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 gamma-Chlordane [2C] ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Heptachlor ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Heptachlor epoxide ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Heptachlor epoxide ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Methoxychlor ND 5.0 1 B5C0262 03/10/2015 03/11/15 14:19 Toxaphene ND 50 1 B5C0262 03/10/2015 03/11/15 14:19 Surrogate: Decachlorobiphenyl 84.9 % 16 - 137 B5C0262 03/10/2015 03/11/15 14:19 Surrogate: Decachlorobiphenyl 85.9 % 16 - 137 B5C0262 03/10/2015 03/11/15 14:19 Surrogate: Tetrachloro-m-xylene 61.0 % 16 - 105 B5C0262 03/10/2015 03/11/15 14:19	Endosulfan sulfate	ND	2.0	1	B5C0262	03/10/2015	03/11/15 14:19	
Endrin ketone [2C] 3.9 2.0 1 B5C0262 03/10/2015 03/11/15 14:19 gamma-BHC ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 gamma-Chlordane [2C] ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Heptachlor ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Heptachlor epoxide ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Methoxychlor ND 5.0 1 B5C0262 03/10/2015 03/11/15 14:19 Toxaphene ND 50 1 B5C0262 03/10/2015 03/11/15 14:19 Surrogate: Decachlorobiphenyl 84.9 % 16 - 137 B5C0262 03/10/2015 03/11/15 14:19 Surrogate: Decachlorobiphenyl 85.9 % 16 - 137 B5C0262 03/10/2015 03/11/15 14:19 Surrogate: Tetrachloro-m-xylene 61.0 % 16 - 105 B5C0262 03/10/2015 03/11/15 14:19	Endrin [2C]	4.6	2.0	1	B5C0262	03/10/2015	03/11/15 14:19	
gamma-BHC ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 gamma-Chlordane [2C] ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Heptachlor ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Heptachlor epoxide ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Methoxychlor ND 5.0 1 B5C0262 03/10/2015 03/11/15 14:19 Toxaphene ND 50 1 B5C0262 03/10/2015 03/11/15 14:19 Surrogate: Decachlorobiphenyl 84.9 % 16 - 137 B5C0262 03/10/2015 03/11/15 14:19 Surrogate: Decachlorobiphenyl 85.9 % 16 - 137 B5C0262 03/10/2015 03/12/15 06:52 Surrogate: Tetrachloro-m-xylene 61.0 % 16 - 105 B5C0262 03/10/2015 03/11/15 14:19	Endrin aldehyde	ND	2.0	1	B5C0262	03/10/2015	03/11/15 14:19	
gamma-Chlordane [2C] ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Heptachlor ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Heptachlor epoxide ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Methoxychlor ND 5.0 1 B5C0262 03/10/2015 03/11/15 14:19 Toxaphene ND 50 1 B5C0262 03/10/2015 03/11/15 14:19 Surrogate: Decachlorobiphenyl 84.9 % 16 - 137 B5C0262 03/10/2015 03/11/15 14:19 Surrogate: Decachlorobiphenyl 85.9 % 16 - 137 B5C0262 03/10/2015 03/12/15 06:52 Surrogate: Tetrachloro-m-xylene 61.0 % 16 - 105 B5C0262 03/10/2015 03/11/15 14:19	Endrin ketone [2C]	3.9	2.0	1	B5C0262	03/10/2015	03/11/15 14:19	
Heptachlor ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Heptachlor epoxide ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Methoxychlor ND 5.0 1 B5C0262 03/10/2015 03/11/15 14:19 Toxaphene ND 50 1 B5C0262 03/10/2015 03/11/15 14:19 Surrogate: Decachlorobiphenyl 84.9 % 16 - 137 B5C0262 03/10/2015 03/11/15 14:19 Surrogate: Decachlorobiphenyl 85.9 % 16 - 137 B5C0262 03/10/2015 03/12/15 06:52 Surrogate: Tetrachloro-m-xylene 61.0 % 16 - 105 B5C0262 03/10/2015 03/11/15 14:19	gamma-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:19	
Heptachlor epoxide ND 1.0 1 B5C0262 03/10/2015 03/11/15 14:19 Methoxychlor ND 5.0 1 B5C0262 03/10/2015 03/11/15 14:19 Toxaphene ND 50 1 B5C0262 03/10/2015 03/11/15 14:19 Surrogate: Decachlorobiphenyl 84.9 % 16 - 137 B5C0262 03/10/2015 03/11/15 14:19 Surrogate: Decachlorobiphenyl 85.9 % 16 - 137 B5C0262 03/10/2015 03/12/15 06:52 Surrogate: Tetrachloro-m-xylene 61.0 % 16 - 105 B5C0262 03/10/2015 03/11/15 14:19	gamma-Chlordane [2C]	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:19	
Methoxychlor ND 5.0 1 B5C0262 03/10/2015 03/11/15 14:19 Toxaphene ND 50 1 B5C0262 03/10/2015 03/11/15 14:19 Surrogate: Decachlorobiphenyl 84.9 % 16 - 137 B5C0262 03/10/2015 03/11/15 14:19 Surrogate: Decachlorobiphenyl 85.9 % 16 - 137 B5C0262 03/10/2015 03/12/15 06:52 Surrogate: Tetrachloro-m-xylene 61.0 % 16 - 105 B5C0262 03/10/2015 03/11/15 14:19	Heptachlor	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:19	
Toxaphene ND 50 1 B5C0262 03/10/2015 03/11/15 14:19 Surrogate: Decachlorobiphenyl 84.9 % 16 - 137 B5C0262 03/10/2015 03/11/15 14:19 Surrogate: Decachlorobiphenyl 85.9 % 16 - 137 B5C0262 03/10/2015 03/12/15 06:52 Surrogate: Tetrachloro-m-xylene 61.0 % 16 - 105 B5C0262 03/10/2015 03/11/15 14:19	Heptachlor epoxide	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:19	
Surrogate: Decachlorobiphenyl 84.9 % 16 - 137 B5C0262 03/10/2015 03/11/15 14:19 Surrogate: Decachlorobiphenyl 85.9 % 16 - 137 B5C0262 03/10/2015 03/12/15 06:52 Surrogate: Tetrachloro-m-xylene 61.0 % 16 - 105 B5C0262 03/10/2015 03/11/15 14:19	Methoxychlor	ND	5.0	1	B5C0262	03/10/2015	03/11/15 14:19	
Surrogate: Decachlorobiphenyl 85.9 % 16 - 137 B5C0262 03/10/2015 03/12/15 06:52 Surrogate: Tetrachloro-m-xylene 61.0 % 16 - 105 B5C0262 03/10/2015 03/11/15 14:19	Toxaphene	ND	50	1	B5C0262	03/10/2015	03/11/15 14:19	
Surrogate: Tetrachloro-m-xylene 61.0 % 16 - 105 B5C0262 03/10/2015 03/11/15 14:19	Surrogate: Decachlorobiphenyl	84.9 %	16 - 137		B5C0262	03/10/2015	03/11/15 14:19	
	Surrogate: Decachlorobiphenyl	85.9 %	16 - 137		B5C0262	03/10/2015	03/12/15 06:52	
Surrogate: Tetrachloro-m-xylene 63.2 % 16 - 105 B5C0262 03/10/2015 03/12/15 06:52	Surrogate: Tetrachloro-m-xylene	61.0 %	16 - 105		B5C0262	03/10/2015	03/11/15 14:19	
	Surrogate: Tetrachloro-m-xylene	63.2 %	16 - 105		B5C0262	03/10/2015	03/12/15 06:52	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB43-1.5 Lab ID: 1500847-32

Organochlorine Pesticides by EPA 8081

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Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B5C0262	03/10/2015	03/11/15 11:43	
4,4´-DDE	ND	2.0	1	B5C0262	03/10/2015	03/11/15 11:43	
4,4′-DDT	ND	2.0	1	B5C0262	03/10/2015	03/11/15 11:43	
Aldrin	ND	1.0	1	B5C0262	03/10/2015	03/11/15 11:43	
alpha-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 11:43	
alpha-Chlordane	ND	1.0	1	B5C0262	03/10/2015	03/11/15 11:43	
beta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 11:43	
Chlordane	ND	8.5	1	B5C0262	03/10/2015	03/11/15 11:43	
delta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 11:43	
Dieldrin [2C]	ND	2.0	1	B5C0262	03/10/2015	03/11/15 11:43	
Endosulfan I	ND	1.0	1	B5C0262	03/10/2015	03/11/15 11:43	
Endosulfan II	ND	2.0	1	B5C0262	03/10/2015	03/11/15 11:43	
Endosulfan sulfate	ND	2.0	1	B5C0262	03/10/2015	03/11/15 11:43	
Endrin	ND	2.0	1	B5C0262	03/10/2015	03/11/15 11:43	
Endrin aldehyde	ND	2.0	1	B5C0262	03/10/2015	03/11/15 11:43	
Endrin ketone	ND	2.0	1	B5C0262	03/10/2015	03/11/15 11:43	
gamma-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 11:43	
gamma-Chlordane	ND	1.0	1	B5C0262	03/10/2015	03/11/15 11:43	
Heptachlor	ND	1.0	1	B5C0262	03/10/2015	03/11/15 11:43	
Heptachlor epoxide	ND	1.0	1	B5C0262	03/10/2015	03/11/15 11:43	
Methoxychlor	ND	5.0	1	B5C0262	03/10/2015	03/11/15 11:43	
Toxaphene	ND	50	1	B5C0262	03/10/2015	03/11/15 11:43	
Surrogate: Decachlorobiphenyl	78.0 %	16 - 137		B5C0262	03/10/2015	03/11/15 11:43	
Surrogate: Tetrachloro-m-xylene	73.7 %	16 - 105		B5C0262	03/10/2015	03/11/15 11:43	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB44-0.5 Lab ID: 1500847-34

Organochlorine Pesticides by EPA 8081

g : : : : : : : : : : : : : : : : : : :							rmaryst. C
Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B5C0262	03/10/2015	03/11/15 14:30	
4,4'-DDE	20	2.0	1	B5C0262	03/10/2015	03/11/15 14:30	
4,4'-DDT [2C]	30	2.0	1	B5C0262	03/10/2015	03/11/15 14:30	
Aldrin	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:30	
alpha-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:30	
alpha-Chlordane	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:30	
beta-BHC	2.0	1.0	1	B5C0262	03/10/2015	03/11/15 14:30	
Chlordane	9.3	8.5	1	B5C0262	03/10/2015	03/11/15 14:30	
delta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:30	
Dieldrin	19	2.0	1	B5C0262	03/10/2015	03/11/15 14:30	
Endosulfan I	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:30	
Endosulfan II	ND	2.0	1	B5C0262	03/10/2015	03/11/15 14:30	
Endosulfan sulfate	ND	2.0	1	B5C0262	03/10/2015	03/11/15 14:30	
Endrin	ND	2.0	1	B5C0262	03/10/2015	03/11/15 14:30	
Endrin aldehyde	ND	2.0	1	B5C0262	03/10/2015	03/11/15 14:30	
Endrin ketone	ND	2.0	1	B5C0262	03/10/2015	03/11/15 14:30	
gamma-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:30	
gamma-Chlordane [2C]	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:30	
Heptachlor	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:30	
Heptachlor epoxide	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:30	
Methoxychlor [2C]	5.8	5.0	1	B5C0262	03/10/2015	03/11/15 14:30	
Toxaphene	ND	50	1	B5C0262	03/10/2015	03/11/15 14:30	
Surrogate: Decachlorobiphenyl	79.7 %	16 - 137		B5C0262	03/10/2015	03/11/15 14:30	
Surrogate: Tetrachloro-m-xylene	59.7 %	16 - 105		B5C0262	03/10/2015	03/11/15 14:30	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB44-2.5 Lab ID: 1500847-35

Organochlorine Pesticides by EPA 8081

							rmaryst. CL
Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B5C0262	03/10/2015	03/11/15 11:53	
4,4′-DDE	ND	2.0	1	B5C0262	03/10/2015	03/11/15 11:53	
4,4'-DDT	ND	2.0	1	B5C0262	03/10/2015	03/11/15 11:53	
Aldrin	ND	1.0	1	B5C0262	03/10/2015	03/11/15 11:53	
alpha-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 11:53	
alpha-Chlordane	ND	1.0	1	B5C0262	03/10/2015	03/11/15 11:53	
beta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 11:53	
Chlordane	ND	8.5	1	B5C0262	03/10/2015	03/11/15 11:53	
delta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 11:53	
Dieldrin	ND	2.0	1	B5C0262	03/10/2015	03/11/15 11:53	
Endosulfan I	ND	1.0	1	B5C0262	03/10/2015	03/11/15 11:53	
Endosulfan II	ND	2.0	1	B5C0262	03/10/2015	03/11/15 11:53	
Endosulfan sulfate	ND	2.0	1	B5C0262	03/10/2015	03/11/15 11:53	
Endrin	ND	2.0	1	B5C0262	03/10/2015	03/11/15 11:53	
Endrin aldehyde	ND	2.0	1	B5C0262	03/10/2015	03/11/15 11:53	
Endrin ketone	ND	2.0	1	B5C0262	03/10/2015	03/11/15 11:53	
gamma-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 11:53	
gamma-Chlordane	ND	1.0	1	B5C0262	03/10/2015	03/11/15 11:53	
Heptachlor	ND	1.0	1	B5C0262	03/10/2015	03/11/15 11:53	
Heptachlor epoxide	ND	1.0	1	B5C0262	03/10/2015	03/11/15 11:53	
Methoxychlor	ND	5.0	1	B5C0262	03/10/2015	03/11/15 11:53	
Toxaphene	ND	50	1	B5C0262	03/10/2015	03/11/15 11:53	
Surrogate: Decachlorobiphenyl	80.5 %	16 - 137		B5C0262	03/10/2015	03/11/15 11:53	
Surrogate: Tetrachloro-m-xylene	68.0 %	16 - 105		B5C0262	03/10/2015	03/11/15 11:53	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB44-5.0 Lab ID: 1500847-36

Organochlorine Pesticides by EPA 8081

<u> </u>							rinaryst. Ci
Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:03	
4,4´-DDE	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:03	
4,4'-DDT	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:03	
Aldrin	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:03	
alpha-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:03	
alpha-Chlordane	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:03	
beta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:03	
Chlordane	ND	8.5	1	B5C0262	03/10/2015	03/11/15 12:03	
delta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:03	
Dieldrin	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:03	
Endosulfan I	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:03	
Endosulfan II	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:03	
Endosulfan sulfate	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:03	
Endrin	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:03	
Endrin aldehyde	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:03	
Endrin ketone	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:03	
gamma-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:03	
gamma-Chlordane	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:03	
Heptachlor	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:03	
Heptachlor epoxide	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:03	
Methoxychlor	ND	5.0	1	B5C0262	03/10/2015	03/11/15 12:03	
Toxaphene	ND	50	1	B5C0262	03/10/2015	03/11/15 12:03	
Surrogate: Decachlorobiphenyl	83.2 %	16 - 137		B5C0262	03/10/2015	03/11/15 12:03	
Surrogate: Tetrachloro-m-xylene	70.0 %	16 - 105		B5C0262	03/10/2015	03/11/15 12:03	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB45-0.5 Lab ID: 1500847-37

Organochlorine Pesticides by EPA 8081

•	111 0001						Analyst. C
Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:14	
4,4′-DDE	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:14	
4,4′-DDT	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:14	
Aldrin	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:14	
alpha-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:14	
alpha-Chlordane	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:14	
beta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:14	
Chlordane	ND	8.5	1	B5C0262	03/10/2015	03/11/15 12:14	
delta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:14	
Dieldrin [2C]	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:14	
Endosulfan I	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:14	
Endosulfan II	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:14	
Endosulfan sulfate	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:14	
Endrin	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:14	
Endrin aldehyde	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:14	
Endrin ketone	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:14	
gamma-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:14	
gamma-Chlordane	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:14	
Heptachlor	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:14	
Heptachlor epoxide	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:14	
Methoxychlor	ND	5.0	1	B5C0262	03/10/2015	03/11/15 12:14	
Гохарһепе	ND	50	1	B5C0262	03/10/2015	03/11/15 12:14	
Surrogate: Decachlorobiphenyl	81.9 %	16 - 137	·	B5C0262	03/10/2015	03/11/15 12:14	
Surrogate: Tetrachloro-m-xylene	64.7 %	16 - 105		B5C0262	03/10/2015	03/11/15 12:14	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB45-1.5 Lab ID: 1500847-38

Organochlorine Pesticides by EPA 8081

organisemornie restrettes by r							Analyst. CL
Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:24	
4,4'-DDE	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:24	
4,4'-DDT	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:24	
Aldrin	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:24	
alpha-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:24	
alpha-Chlordane	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:24	
beta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:24	
Chlordane	ND	8.5	1	B5C0262	03/10/2015	03/11/15 12:24	
delta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:24	
Dieldrin	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:24	
Endosulfan I	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:24	
Endosulfan II	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:24	
Endosulfan sulfate	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:24	
Endrin	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:24	
Endrin aldehyde	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:24	
Endrin ketone	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:24	
gamma-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:24	
gamma-Chlordane	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:24	
Heptachlor	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:24	
Heptachlor epoxide	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:24	
Methoxychlor	ND	5.0	1	B5C0262	03/10/2015	03/11/15 12:24	
Toxaphene	ND	50	1	B5C0262	03/10/2015	03/11/15 12:24	
Surrogate: Decachlorobiphenyl	81.7 %	16 - 137		B5C0262	03/10/2015	03/11/15 12:24	
Surrogate: Tetrachloro-m-xylene	69.4 %	16 - 105		B5C0262	03/10/2015	03/11/15 12:24	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB46-0.5 Lab ID: 1500847-40

Organochlorine Pesticides by EPA 8081

<i>-</i>							rinaryst. Ci
Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B5C0262	03/10/2015	03/11/15 14:40	
4,4′-DDE	ND	2.0	1	B5C0262	03/10/2015	03/11/15 14:40	
4,4'-DDT	8.5	2.0	1	B5C0262	03/10/2015	03/11/15 14:40	
Aldrin	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:40	
alpha-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:40	
alpha-Chlordane [2C]	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:40	
beta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:40	
Chlordane [2C]	ND	8.5	1	B5C0262	03/10/2015	03/11/15 14:40	
delta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:40	
Dieldrin	4.8	2.0	1	B5C0262	03/10/2015	03/11/15 14:40	
Endosulfan I	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:40	
Endosulfan II	ND	2.0	1	B5C0262	03/10/2015	03/11/15 14:40	
Endosulfan sulfate	ND	2.0	1	B5C0262	03/10/2015	03/11/15 14:40	
Endrin	ND	2.0	1	B5C0262	03/10/2015	03/11/15 14:40	
Endrin aldehyde	ND	2.0	1	B5C0262	03/10/2015	03/11/15 14:40	
Endrin ketone	ND	2.0	1	B5C0262	03/10/2015	03/11/15 14:40	
gamma-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:40	
gamma-Chlordane [2C]	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:40	
Heptachlor	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:40	
Heptachlor epoxide	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:40	
Methoxychlor [2C]	ND	5.0	1	B5C0262	03/10/2015	03/11/15 14:40	
Toxaphene	ND	50	1	B5C0262	03/10/2015	03/11/15 14:40	
Surrogate: Decachlorobiphenyl	71.4 %	16 - 137		B5C0262	03/10/2015	03/11/15 14:40	
Surrogate: Tetrachloro-m-xylene	58.9 %	16 - 105		B5C0262	03/10/2015	03/11/15 14:40	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB46-2.5 Lab ID: 1500847-41

Organochlorine Pesticides by EPA 8081

organicame restretues by 1							Analyst. C
Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:35	
4,4′-DDE	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:35	
4,4´-DDT	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:35	
Aldrin	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:35	
alpha-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:35	
alpha-Chlordane	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:35	
beta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:35	
Chlordane	ND	8.5	1	B5C0262	03/10/2015	03/11/15 12:35	
delta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:35	
Dieldrin	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:35	
Endosulfan I	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:35	
Endosulfan II	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:35	
Endosulfan sulfate	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:35	
Endrin	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:35	
Endrin aldehyde	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:35	
Endrin ketone	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:35	
gamma-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:35	
gamma-Chlordane	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:35	
Heptachlor	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:35	
Heptachlor epoxide	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:35	
Methoxychlor	ND	5.0	1	B5C0262	03/10/2015	03/11/15 12:35	
Toxaphene	ND	50	1	B5C0262	03/10/2015	03/11/15 12:35	
Surrogate: Decachlorobiphenyl	83.0 %	16 - 137		B5C0262	03/10/2015	03/11/15 12:35	
Surrogate: Tetrachloro-m-xylene	75.2 %	16 - 105		B5C0262	03/10/2015	03/11/15 12:35	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB46-5.0 Lab ID: 1500847-42

Organochlorine Pesticides by EPA 8081

<u> </u>							rinaryst. Ci
Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:45	
4,4´-DDE	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:45	
4,4'-DDT	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:45	
Aldrin	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:45	
alpha-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:45	
alpha-Chlordane	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:45	
beta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:45	
Chlordane	ND	8.5	1	B5C0262	03/10/2015	03/11/15 12:45	
delta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:45	
Dieldrin	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:45	
Endosulfan I	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:45	
Endosulfan II	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:45	
Endosulfan sulfate	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:45	
Endrin	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:45	
Endrin aldehyde	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:45	
Endrin ketone	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:45	
gamma-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:45	
gamma-Chlordane	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:45	
Heptachlor	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:45	
Heptachlor epoxide	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:45	
Methoxychlor	ND	5.0	1	B5C0262	03/10/2015	03/11/15 12:45	
Toxaphene	ND	50	1	B5C0262	03/10/2015	03/11/15 12:45	
Surrogate: Decachlorobiphenyl	85.4 %	16 - 137		B5C0262	03/10/2015	03/11/15 12:45	
Surrogate: Tetrachloro-m-xylene	75.5 %	16 - 105		B5C0262	03/10/2015	03/11/15 12:45	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB47-0.5 Lab ID: 1500847-43

Organochlorine Pesticides by EPA 8081

organicemornic restretues by E							Analyst. C
Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:56	
4,4´-DDE	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:56	
4,4´-DDT	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:56	
Aldrin	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:56	
alpha-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:56	
alpha-Chlordane	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:56	
beta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:56	
Chlordane	ND	8.5	1	B5C0262	03/10/2015	03/11/15 12:56	
delta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:56	
Dieldrin [2C]	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:56	
Endosulfan I	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:56	
Endosulfan II	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:56	
Endosulfan sulfate	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:56	
Endrin	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:56	
Endrin aldehyde	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:56	
Endrin ketone	ND	2.0	1	B5C0262	03/10/2015	03/11/15 12:56	
gamma-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:56	
gamma-Chlordane	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:56	
Heptachlor	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:56	
Heptachlor epoxide	ND	1.0	1	B5C0262	03/10/2015	03/11/15 12:56	
Methoxychlor	ND	5.0	1	B5C0262	03/10/2015	03/11/15 12:56	
Toxaphene	ND	50	1	B5C0262	03/10/2015	03/11/15 12:56	
Surrogate: Decachlorobiphenyl	80.8 %	16 - 137		B5C0262	03/10/2015	03/11/15 12:56	
Surrogate: Tetrachloro-m-xylene	65.3 %	16 - 105		B5C0262	03/10/2015	03/11/15 12:56	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB47-1.5 Lab ID: 1500847-44

Organochlorine Pesticides by EPA 8081

organocinornic resticites by E	111 0001						Analyst. C
Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:06	
4,4′-DDE	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:06	
4,4′-DDT	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:06	
Aldrin	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:06	
alpha-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:06	
alpha-Chlordane	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:06	
beta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:06	
Chlordane	ND	8.5	1	B5C0262	03/10/2015	03/11/15 13:06	
delta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:06	
Dieldrin [2C]	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:06	
Endosulfan I	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:06	
Endosulfan II	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:06	
Endosulfan sulfate	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:06	
Endrin	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:06	
Endrin aldehyde	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:06	
Endrin ketone	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:06	
gamma-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:06	
gamma-Chlordane	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:06	
Heptachlor	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:06	
Heptachlor epoxide	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:06	
Methoxychlor	ND	5.0	1	B5C0262	03/10/2015	03/11/15 13:06	
Гохарhene	ND	50	1	B5C0262	03/10/2015	03/11/15 13:06	
Surrogate: Decachlorobiphenyl	87.0 %	16 - 137		B5C0262	03/10/2015	03/11/15 13:06	
Surrogate: Tetrachloro-m-xylene	76.2 %	16 - 105		B5C0262	03/10/2015	03/11/15 13:06	



Project Number: Munzer, 10948.001 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 03/13/2015

Client Sample ID LB48-0.5 Lab ID: 1500847-46

Organochlorine Pesticides by EPA 8081

Organioemornic resticides by E	2171 0001						Allalyst. Cl
Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B5C0262	03/10/2015	03/11/15 14:50	
4,4'-DDE	26	2.0	1	B5C0262	03/10/2015	03/11/15 14:50	
4,4'-DDT [2C]	60	2.0	1	B5C0262	03/10/2015	03/11/15 14:50	
Aldrin	1.2	1.0	1	B5C0262	03/10/2015	03/11/15 14:50	
alpha-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:50	
alpha-Chlordane	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:50	
beta-BHC [2C]	2.4	1.0	1	B5C0262	03/10/2015	03/11/15 14:50	
Chlordane	ND	8.5	1	B5C0262	03/10/2015	03/11/15 14:50	
delta-BHC [2C]	1.6	1.0	1	B5C0262	03/10/2015	03/11/15 14:50	
Dieldrin	13000	1000	500	B5C0262	03/10/2015	03/12/15 15:30	
Endosulfan I	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:50	
Endosulfan II	ND	2.0	1	B5C0262	03/10/2015	03/11/15 14:50	
Endosulfan sulfate	ND	2.0	1	B5C0262	03/10/2015	03/11/15 14:50	
Endrin [2C]	59	2.0	1	B5C0262	03/10/2015	03/11/15 14:50	
Endrin aldehyde	ND	2.0	1	B5C0262	03/10/2015	03/11/15 14:50	
Endrin ketone [2C]	80	10	5	B5C0262	03/10/2015	03/13/15 09:49	
gamma-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:50	
gamma-Chlordane	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:50	
Heptachlor	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:50	
Heptachlor epoxide	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:50	
Methoxychlor	9.7	5.0	1	B5C0262	03/10/2015	03/11/15 14:50	
Toxaphene	ND	50	1	B5C0262	03/10/2015	03/11/15 14:50	
Surrogate: Decachlorobiphenyl	93.7 %	16 - 137		B5C0262	03/10/2015	03/13/15 09:49	
Surrogate: Decachlorobiphenyl	79.5 %	16 - 137		B5C0262	03/10/2015	03/11/15 14:50	
Surrogate: Decachlorobiphenyl	0%	16 - 137		B5C0262	03/10/2015	03/12/15 15:30	S4
Surrogate: Tetrachloro-m-xylene	62.6 %	16 - 105		B5C0262	03/10/2015	03/11/15 14:50	
Surrogate: Tetrachloro-m-xylene	71.7 %	16 - 105		B5C0262	03/10/2015	03/13/15 09:49	
Surrogate: Tetrachloro-m-xylene	0%	16 - 105		B5C0262	03/10/2015	03/12/15 15:30	S4



Project Number: Munzer, 10948.001 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 03/13/2015

Client Sample ID LB48-2.5 Lab ID: 1500847-47

Organochlorine Pesticides by EPA 8081

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Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:17	
4,4′-DDE	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:17	
4,4′-DDT	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:17	
Aldrin	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:17	
alpha-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:17	
alpha-Chlordane	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:17	
beta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:17	
Chlordane	ND	8.5	1	B5C0262	03/10/2015	03/11/15 13:17	
delta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:17	
Dieldrin	530	40	20	B5C0262	03/10/2015	03/12/15 06:31	
Endosulfan I	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:17	
Endosulfan II	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:17	
Endosulfan sulfate	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:17	
Endrin	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:17	
Endrin aldehyde	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:17	
Endrin ketone	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:17	
gamma-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:17	
gamma-Chlordane	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:17	
Heptachlor	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:17	
Heptachlor epoxide	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:17	
Methoxychlor	ND	5.0	1	B5C0262	03/10/2015	03/11/15 13:17	
Toxaphene	ND	50	1	B5C0262	03/10/2015	03/11/15 13:17	
Surrogate: Decachlorobiphenyl	100 %	16 - 137		B5C0262	03/10/2015	03/12/15 06:31	
Surrogate: Decachlorobiphenyl	86.3 %	16 - 137		B5C0262	03/10/2015	03/11/15 13:17	
Surrogate: Tetrachloro-m-xylene	76.8 %	16 - 105		B5C0262	03/10/2015	03/12/15 06:31	
Surrogate: Tetrachloro-m-xylene	75.1 %	16 - 105		B5C0262	03/10/2015	03/11/15 13:17	



Project Number: Munzer, 10948.001 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 03/13/2015

Client Sample ID LB49-0.5 Lab ID: 1500847-49

Organochlorine Pesticides by EPA 8081

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Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:58	
4,4′-DDE	35	2.0	1	B5C0262	03/10/2015	03/11/15 13:58	
4,4′-DDT	31	2.0	1	B5C0262	03/10/2015	03/11/15 13:58	
Aldrin	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:58	
alpha-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:58	
alpha-Chlordane	1.6	1.0	1	B5C0262	03/10/2015	03/11/15 13:58	
beta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:58	
Chlordane [2C]	17	8.5	1	B5C0262	03/10/2015	03/11/15 13:58	
delta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:58	
Dieldrin	520	40	20	B5C0262	03/10/2015	03/12/15 06:41	
Endosulfan I	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:58	
Endosulfan II	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:58	
Endosulfan sulfate	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:58	
Endrin [2C]	2.2	2.0	1	B5C0262	03/10/2015	03/11/15 13:58	
Endrin aldehyde	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:58	
Endrin ketone [2C]	4.1	2.0	1	B5C0262	03/10/2015	03/11/15 13:58	
gamma-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:58	
gamma-Chlordane	2.5	1.0	1	B5C0262	03/10/2015	03/11/15 13:58	
Heptachlor	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:58	
Heptachlor epoxide	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:58	
Methoxychlor	ND	5.0	1	B5C0262	03/10/2015	03/11/15 13:58	
Toxaphene	ND	50	1	B5C0262	03/10/2015	03/11/15 13:58	
Surrogate: Decachlorobiphenyl	80.0 %	16 - 137		B5C0262	03/10/2015	03/11/15 13:58	
Surrogate: Decachlorobiphenyl	94.0 %	16 - 137		B5C0262	03/10/2015	03/12/15 06:41	
Surrogate: Tetrachloro-m-xylene	64.6 %	16 - 105		B5C0262	03/10/2015	03/11/15 13:58	
Surrogate: Tetrachloro-m-xylene	71.5 %	16 - 105		B5C0262	03/10/2015	03/12/15 06:41	



Project Number: Munzer, 10948.001 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 03/13/2015

Client Sample ID LB49-1.5 Lab ID: 1500847-50

Organochlorine Pesticides by EPA 8081

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Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:27	
4,4'-DDE	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:27	
4,4'-DDT	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:27	
Aldrin	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:27	
alpha-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:27	
alpha-Chlordane	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:27	
beta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:27	
Chlordane	ND	8.5	1	B5C0262	03/10/2015	03/11/15 13:27	
delta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:27	
Dieldrin	4.2	2.0	1	B5C0262	03/10/2015	03/11/15 13:27	
Endosulfan I	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:27	
Endosulfan II	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:27	
Endosulfan sulfate	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:27	
Endrin	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:27	
Endrin aldehyde	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:27	
Endrin ketone	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:27	
gamma-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:27	
gamma-Chlordane	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:27	
Heptachlor	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:27	
Heptachlor epoxide	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:27	
Methoxychlor	ND	5.0	1	B5C0262	03/10/2015	03/11/15 13:27	
Toxaphene	ND	50	1	B5C0262	03/10/2015	03/11/15 13:27	
Surrogate: Decachlorobiphenyl	82.4 %	16 - 137		B5C0262	03/10/2015	03/11/15 13:27	
Surrogate: Tetrachloro-m-xylene	71.0 %	16 - 105		B5C0262	03/10/2015	03/11/15 13:27	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB50-0.5 Lab ID: 1500847-52

Organochlorine Pesticides by EPA 8081

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Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B5C0262	03/10/2015	03/11/15 14:09	
4,4′-DDE	ND	2.0	1	B5C0262	03/10/2015	03/11/15 14:09	
4,4'-DDT	2.2	2.0	1	B5C0262	03/10/2015	03/11/15 14:09	
Aldrin	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:09	
alpha-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:09	
alpha-Chlordane	4.4	1.0	1	B5C0262	03/10/2015	03/11/15 14:09	
beta-BHC	1.6	1.0	1	B5C0262	03/10/2015	03/11/15 14:09	
Chlordane [2C]	54	8.5	1	B5C0262	03/10/2015	03/11/15 14:09	
delta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:09	
Dieldrin	30	2.0	1	B5C0262	03/10/2015	03/11/15 14:09	
Endosulfan I	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:09	
Endosulfan II	ND	2.0	1	B5C0262	03/10/2015	03/11/15 14:09	
Endosulfan sulfate	ND	2.0	1	B5C0262	03/10/2015	03/11/15 14:09	
Endrin	ND	2.0	1	B5C0262	03/10/2015	03/11/15 14:09	
Endrin aldehyde	ND	2.0	1	B5C0262	03/10/2015	03/11/15 14:09	
Endrin ketone	ND	2.0	1	B5C0262	03/10/2015	03/11/15 14:09	
gamma-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:09	
gamma-Chlordane	4.9	1.0	1	B5C0262	03/10/2015	03/11/15 14:09	
Heptachlor	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:09	
Heptachlor epoxide	ND	1.0	1	B5C0262	03/10/2015	03/11/15 14:09	
Methoxychlor	ND	5.0	1	B5C0262	03/10/2015	03/11/15 14:09	
Toxaphene	ND	50	1	B5C0262	03/10/2015	03/11/15 14:09	
Surrogate: Decachlorobiphenyl	77.0 %	16 - 137		B5C0262	03/10/2015	03/11/15 14:09	
Surrogate: Tetrachloro-m-xylene	66.9 %	16 - 105		B5C0262	03/10/2015	03/11/15 14:09	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 03/13/2015

Client Sample ID LB50-2.5 Lab ID: 1500847-53

Organochlorine Pesticides by EPA 8081

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Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:38	
4,4′-DDE	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:38	
4,4'-DDT	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:38	
Aldrin	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:38	
alpha-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:38	
alpha-Chlordane [2C]	1.2	1.0	1	B5C0262	03/10/2015	03/11/15 13:38	
beta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:38	
Chlordane [2C]	15	8.5	1	B5C0262	03/10/2015	03/11/15 13:38	
delta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:38	
Dieldrin [2C]	2.4	2.0	1	B5C0262	03/10/2015	03/11/15 13:38	
Endosulfan I	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:38	
Endosulfan II	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:38	
Endosulfan sulfate	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:38	
Endrin	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:38	
Endrin aldehyde	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:38	
Endrin ketone	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:38	
gamma-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:38	
gamma-Chlordane	1.6	1.0	1	B5C0262	03/10/2015	03/11/15 13:38	
Heptachlor	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:38	
Heptachlor epoxide	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:38	
Methoxychlor	ND	5.0	1	B5C0262	03/10/2015	03/11/15 13:38	
Toxaphene	ND	50	1	B5C0262	03/10/2015	03/11/15 13:38	
Surrogate: Decachlorobiphenyl	82.2 %	16 - 137		B5C0262	03/10/2015	03/11/15 13:38	
Surrogate: Tetrachloro-m-xylene	72.5 %	16 - 105		B5C0262	03/10/2015	03/11/15 13:38	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB50-5.0 Lab ID: 1500847-54

Organochlorine Pesticides by EPA 8081

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:48	
4,4′-DDE	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:48	
4,4′-DDT	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:48	
Aldrin	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:48	
alpha-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:48	
alpha-Chlordane	1.2	1.0	1	B5C0262	03/10/2015	03/11/15 13:48	
beta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:48	
Chlordane [2C]	16	8.5	1	B5C0262	03/10/2015	03/11/15 13:48	
delta-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:48	
Dieldrin [2C]	4.0	2.0	1	B5C0262	03/10/2015	03/11/15 13:48	
Endosulfan I	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:48	
Endosulfan II	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:48	
Endosulfan sulfate	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:48	
Endrin	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:48	
Endrin aldehyde	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:48	
Endrin ketone	ND	2.0	1	B5C0262	03/10/2015	03/11/15 13:48	
gamma-BHC	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:48	
gamma-Chlordane	1.5	1.0	1	B5C0262	03/10/2015	03/11/15 13:48	
Heptachlor	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:48	
Heptachlor epoxide	ND	1.0	1	B5C0262	03/10/2015	03/11/15 13:48	
Methoxychlor	ND	5.0	1	B5C0262	03/10/2015	03/11/15 13:48	
Гохарһепе	ND	50	1	B5C0262	03/10/2015	03/11/15 13:48	
Surrogate: Decachlorobiphenyl	85.9 %	16 - 137		B5C0262	03/10/2015	03/11/15 13:48	
Surrogate: Tetrachloro-m-xylene	75.0 %	16 - 105		B5C0262	03/10/2015	03/11/15 13:48	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB51-0.5 Lab ID: 1500847-55

Organochlorine Pesticides by EPA 8081

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Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B5C0285	03/11/2015	03/12/15 03:55	
4,4′-DDE	ND	2.0	1	B5C0285	03/11/2015	03/12/15 03:55	
4,4'-DDT	3.8	2.0	1	B5C0285	03/11/2015	03/12/15 03:55	
Aldrin	ND	1.0	1	B5C0285	03/11/2015	03/12/15 03:55	
alpha-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 03:55	
alpha-Chlordane	8.8	1.0	1	B5C0285	03/11/2015	03/12/15 03:55	
beta-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 03:55	
Chlordane [2C]	110	8.5	1	B5C0285	03/11/2015	03/12/15 03:55	
delta-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 03:55	
Dieldrin	28	2.0	1	B5C0285	03/11/2015	03/12/15 03:55	
Endosulfan I	ND	1.0	1	B5C0285	03/11/2015	03/12/15 03:55	
Endosulfan II	ND	2.0	1	B5C0285	03/11/2015	03/12/15 03:55	
Endosulfan sulfate	ND	2.0	1	B5C0285	03/11/2015	03/12/15 03:55	
Endrin	ND	2.0	1	B5C0285	03/11/2015	03/12/15 03:55	
Endrin aldehyde	ND	2.0	1	B5C0285	03/11/2015	03/12/15 03:55	
Endrin ketone	ND	2.0	1	B5C0285	03/11/2015	03/12/15 03:55	
gamma-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 03:55	
gamma-Chlordane	8.6	1.0	1	B5C0285	03/11/2015	03/12/15 03:55	
Heptachlor	ND	1.0	1	B5C0285	03/11/2015	03/12/15 03:55	
Heptachlor epoxide	ND	1.0	1	B5C0285	03/11/2015	03/12/15 03:55	
Methoxychlor	ND	5.0	1	B5C0285	03/11/2015	03/12/15 03:55	
Toxaphene	ND	50	1	B5C0285	03/11/2015	03/12/15 03:55	
Surrogate: Decachlorobiphenyl	70.0 %	16 - 137		B5C0285	03/11/2015	03/12/15 03:55	
Surrogate: Tetrachloro-m-xylene	56.7 %	16 - 105		B5C0285	03/11/2015	03/12/15 03:55	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB51-2.5 Lab ID: 1500847-56

Organochlorine Pesticides by EPA 8081

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Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:05	
4,4´-DDE	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:05	
4,4´-DDT	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:05	
Aldrin	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:05	
alpha-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:05	
alpha-Chlordane	1.1	1.0	1	B5C0285	03/11/2015	03/12/15 04:05	
beta-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:05	
Chlordane [2C]	13	8.5	1	B5C0285	03/11/2015	03/12/15 04:05	
delta-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:05	
Dieldrin [2C]	3.5	2.0	1	B5C0285	03/11/2015	03/12/15 04:05	
Endosulfan I	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:05	
Endosulfan II	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:05	
Endosulfan sulfate	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:05	
Endrin	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:05	
Endrin aldehyde	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:05	
Endrin ketone	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:05	
gamma-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:05	
gamma-Chlordane	1.5	1.0	1	B5C0285	03/11/2015	03/12/15 04:05	
Heptachlor	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:05	
Heptachlor epoxide	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:05	
Methoxychlor	ND	5.0	1	B5C0285	03/11/2015	03/12/15 04:05	
Toxaphene	ND	50	1	B5C0285	03/11/2015	03/12/15 04:05	
Surrogate: Decachlorobiphenyl	75.0 %	16 - 137		B5C0285	03/11/2015	03/12/15 04:05	
Surrogate: Tetrachloro-m-xylene	68.0 %	16 - 105		B5C0285	03/11/2015	03/12/15 04:05	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB51-5.0 Lab ID: 1500847-57

Organochlorine Pesticides by EPA 8081

							Time just es
Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:16	
4,4´-DDE	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:16	
4,4′-DDT	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:16	
Aldrin	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:16	
alpha-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:16	
alpha-Chlordane	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:16	
beta-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:16	
Chlordane [2C]	8.6	8.5	1	B5C0285	03/11/2015	03/12/15 04:16	
delta-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:16	
Dieldrin [2C]	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:16	
Endosulfan I	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:16	
Endosulfan II	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:16	
Endosulfan sulfate	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:16	
Endrin	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:16	
Endrin aldehyde	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:16	
Endrin ketone	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:16	
gamma-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:16	
gamma-Chlordane	1.2	1.0	1	B5C0285	03/11/2015	03/12/15 04:16	
Heptachlor	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:16	
Heptachlor epoxide	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:16	
Methoxychlor	ND	5.0	1	B5C0285	03/11/2015	03/12/15 04:16	
Toxaphene	ND	50	1	B5C0285	03/11/2015	03/12/15 04:16	
Surrogate: Decachlorobiphenyl	81.2 %	16 - 137		B5C0285	03/11/2015	03/12/15 04:16	
Surrogate: Tetrachloro-m-xylene	70.7 %	16 - 105		B5C0285	03/11/2015	03/12/15 04:16	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB52-0.5 Lab ID: 1500847-58

Organochlorine Pesticides by EPA 8081

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:26	
4,4′-DDE	37	2.0	1	B5C0285	03/11/2015	03/12/15 04:26	
4,4'-DDT [2C]	40	2.0	1	B5C0285	03/11/2015	03/12/15 04:26	
Aldrin	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:26	
alpha-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:26	
alpha-Chlordane	1.3	1.0	1	B5C0285	03/11/2015	03/12/15 04:26	
beta-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:26	
Chlordane	24	8.5	1	B5C0285	03/11/2015	03/12/15 04:26	
delta-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:26	
Dieldrin [2C]	43	2.0	1	B5C0285	03/11/2015	03/12/15 04:26	
Endosulfan I	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:26	
Endosulfan II	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:26	
Endosulfan sulfate	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:26	
Endrin	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:26	
Endrin aldehyde	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:26	
Endrin ketone	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:26	
gamma-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:26	
gamma-Chlordane [2C]	1.1	1.0	1	B5C0285	03/11/2015	03/12/15 04:26	
Heptachlor	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:26	
Heptachlor epoxide	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:26	
Methoxychlor	12	5.0	1	B5C0285	03/11/2015	03/12/15 04:26	
Toxaphene	ND	50	1	B5C0285	03/11/2015	03/12/15 04:26	
Surrogate: Decachlorobiphenyl	90.3 %	16 - 137		B5C0285	03/11/2015	03/12/15 04:26	
Surrogate: Tetrachloro-m-xylene	67.2 %	16 - 105		B5C0285	03/11/2015	03/12/15 04:26	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB52-2.5 Lab ID: 1500847-59

Organochlorine Pesticides by EPA 8081

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Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:36	
4,4′-DDE	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:36	
4,4´-DDT	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:36	
Aldrin	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:36	
alpha-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:36	
alpha-Chlordane	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:36	
beta-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:36	
Chlordane	ND	8.5	1	B5C0285	03/11/2015	03/12/15 04:36	
delta-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:36	
Dieldrin	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:36	
Endosulfan I	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:36	
Endosulfan II	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:36	
Endosulfan sulfate	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:36	
Endrin	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:36	
Endrin aldehyde	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:36	
Endrin ketone	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:36	
gamma-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:36	
gamma-Chlordane	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:36	
Heptachlor	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:36	
Heptachlor epoxide	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:36	
Methoxychlor	ND	5.0	1	B5C0285	03/11/2015	03/12/15 04:36	
Toxaphene	ND	50	1	B5C0285	03/11/2015	03/12/15 04:36	
Surrogate: Decachlorobiphenyl	71.0 %	16 - 137		B5C0285	03/11/2015	03/12/15 04:36	
Surrogate: Tetrachloro-m-xylene	72.0 %	16 - 105		B5C0285	03/11/2015	03/12/15 04:36	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB52-5.0 Lab ID: 1500847-60

Organochlorine Pesticides by EPA 8081

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:47	
4,4′-DDE	2.4	2.0	1	B5C0285	03/11/2015	03/12/15 04:47	
4,4′-DDT	2.5	2.0	1	B5C0285	03/11/2015	03/12/15 04:47	
Aldrin	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:47	
alpha-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:47	
alpha-Chlordane	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:47	
beta-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:47	
Chlordane	ND	8.5	1	B5C0285	03/11/2015	03/12/15 04:47	
delta-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:47	
Dieldrin	3.4	2.0	1	B5C0285	03/11/2015	03/12/15 04:47	
Endosulfan I	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:47	
Endosulfan II	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:47	
Endosulfan sulfate	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:47	
Endrin	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:47	
Endrin aldehyde	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:47	
Endrin ketone	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:47	
gamma-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:47	
gamma-Chlordane	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:47	
Heptachlor	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:47	
Heptachlor epoxide	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:47	
Methoxychlor	ND	5.0	1	B5C0285	03/11/2015	03/12/15 04:47	
Гохарһепе	ND	50	1	B5C0285	03/11/2015	03/12/15 04:47	
Surrogate: Decachlorobiphenyl	81.4 %	16 - 137		B5C0285	03/11/2015	03/12/15 04:47	
Surrogate: Tetrachloro-m-xylene	70.2 %	16 - 105		B5C0285	03/11/2015	03/12/15 04:47	



Project Number: Munzer, 10948.001 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 03/13/2015

Client Sample ID LB53-0.5 Lab ID: 1500847-61

Organochlorine Pesticides by EPA 8081

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Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:57	
4,4´-DDE	180	20	10	B5C0285	03/11/2015	03/12/15 14:19	
4,4′-DDT	310	20	10	B5C0285	03/11/2015	03/12/15 14:19	
Aldrin	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:57	
alpha-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:57	
alpha-Chlordane	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:57	
beta-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:57	
Chlordane	ND	8.5	1	B5C0285	03/11/2015	03/12/15 04:57	
delta-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:57	
Dieldrin [2C]	2.9	2.0	1	B5C0285	03/11/2015	03/12/15 04:57	
Endosulfan I	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:57	
Endosulfan II	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:57	
Endosulfan sulfate	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:57	
Endrin	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:57	
Endrin aldehyde	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:57	
Endrin ketone	ND	2.0	1	B5C0285	03/11/2015	03/12/15 04:57	
gamma-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:57	
gamma-Chlordane	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:57	
Heptachlor	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:57	
Heptachlor epoxide	ND	1.0	1	B5C0285	03/11/2015	03/12/15 04:57	
Methoxychlor	ND	5.0	1	B5C0285	03/11/2015	03/12/15 04:57	
Toxaphene	ND	50	1	B5C0285	03/11/2015	03/12/15 04:57	
Surrogate: Decachlorobiphenyl	35.6 %	16 - 137		B5C0285	03/11/2015	03/12/15 04:57	
Surrogate: Decachlorobiphenyl	92.7 %	16 - 137		B5C0285	03/11/2015	03/12/15 14:19	
Surrogate: Tetrachloro-m-xylene	38.4 %	16 - 105		B5C0285	03/11/2015	03/12/15 14:19	
Surrogate: Tetrachloro-m-xylene	36.3 %	16 - 105		B5C0285	03/11/2015	03/12/15 04:57	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB53-1.5 Lab ID: 1500847-62

Organochlorine Pesticides by EPA 8081

	Result	PQL				Date/Time	
Analyte	(ug/kg)	(ug/kg)	Dilution	Batch	Prepared	Analyzed	Notes
4,4´-DDD	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:08	
4,4'-DDE	55	2.0	1	B5C0285	03/11/2015	03/12/15 05:08	
4,4′-DDT	86	10	5	B5C0285	03/11/2015	03/12/15 14:30	
Aldrin	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:08	
alpha-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:08	
alpha-Chlordane	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:08	
beta-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:08	
Chlordane	ND	8.5	1	B5C0285	03/11/2015	03/12/15 05:08	
delta-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:08	
Dieldrin	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:08	
Endosulfan I	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:08	
Endosulfan II	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:08	
Endosulfan sulfate	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:08	
Endrin	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:08	
Endrin aldehyde	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:08	
Endrin ketone	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:08	
gamma-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:08	
gamma-Chlordane	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:08	
Heptachlor	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:08	
Heptachlor epoxide	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:08	
Methoxychlor	ND	5.0	1	B5C0285	03/11/2015	03/12/15 05:08	
Toxaphene	ND	50	1	B5C0285	03/11/2015	03/12/15 05:08	
Surrogate: Decachlorobiphenyl	78.0 %	16 - 137		B5C0285	03/11/2015	03/12/15 05:08	
Surrogate: Decachlorobiphenyl	94.9 %	16 - 137		B5C0285	03/11/2015	03/12/15 14:30	
Surrogate: Tetrachloro-m-xylene	60.1 %	16 - 105		B5C0285	03/11/2015	03/12/15 14:30	
Surrogate: Tetrachloro-m-xylene	55.9 %	16 - 105		B5C0285	03/11/2015	03/12/15 05:08	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB54-0.5 Lab ID: 1500847-64

Organochlorine Pesticides by EPA 8081

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Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:18	
4,4'-DDE	19	2.0	1	B5C0285	03/11/2015	03/12/15 05:18	
4,4´-DDT	8.1	2.0	1	B5C0285	03/11/2015	03/12/15 05:18	
Aldrin	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:18	
alpha-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:18	
alpha-Chlordane	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:18	
beta-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:18	
Chlordane [2C]	ND	8.5	1	B5C0285	03/11/2015	03/12/15 05:18	
delta-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:18	
Dieldrin	3.5	2.0	1	B5C0285	03/11/2015	03/12/15 05:18	
Endosulfan I	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:18	
Endosulfan II	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:18	
Endosulfan sulfate	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:18	
Endrin	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:18	
Endrin aldehyde	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:18	
Endrin ketone	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:18	
gamma-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:18	
gamma-Chlordane [2C]	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:18	
Heptachlor	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:18	
Heptachlor epoxide	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:18	
Methoxychlor	ND	5.0	1	B5C0285	03/11/2015	03/12/15 05:18	
Toxaphene	ND	50	1	B5C0285	03/11/2015	03/12/15 05:18	
Surrogate: Decachlorobiphenyl	65.9 %	16 - 137		B5C0285	03/11/2015	03/12/15 05:18	
Surrogate: Tetrachloro-m-xylene	48.7 %	16 - 105		B5C0285	03/11/2015	03/12/15 05:18	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Client Sample ID LB54-1.5 Lab ID: 1500847-65

Organochlorine Pesticides by EPA 8081

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Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:29	
4,4´-DDE	5.3	2.0	1	B5C0285	03/11/2015	03/12/15 05:29	
4,4′-DDT	2.2	2.0	1	B5C0285	03/11/2015	03/12/15 05:29	
Aldrin	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:29	
alpha-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:29	
alpha-Chlordane	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:29	
beta-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:29	
Chlordane	ND	8.5	1	B5C0285	03/11/2015	03/12/15 05:29	
delta-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:29	
Dieldrin [2C]	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:29	
Endosulfan I	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:29	
Endosulfan II	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:29	
Endosulfan sulfate	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:29	
Endrin	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:29	
Endrin aldehyde	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:29	
Endrin ketone	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:29	
gamma-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:29	
gamma-Chlordane	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:29	
Heptachlor	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:29	
Heptachlor epoxide	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:29	
Methoxychlor	ND	5.0	1	B5C0285	03/11/2015	03/12/15 05:29	
Toxaphene	ND	50	1	B5C0285	03/11/2015	03/12/15 05:29	
Surrogate: Decachlorobiphenyl	76.5 %	16 - 137		B5C0285	03/11/2015	03/12/15 05:29	
Surrogate: Tetrachloro-m-xylene	65.5 %	16 - 105		B5C0285	03/11/2015	03/12/15 05:29	



Project Number: Munzer, 10948.001 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 03/13/2015

Client Sample ID LB55-0.5 Lab ID: 1500847-67

Organochlorine Pesticides by EPA 8081

Analyst: CL

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Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:39	
4,4'-DDE	290	20	10	B5C0285	03/11/2015	03/12/15 14:40	
4,4´-DDT	250	20	10	B5C0285	03/11/2015	03/12/15 14:40	
Aldrin	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:39	
alpha-BHC [2C]	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:39	
alpha-Chlordane	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:39	
beta-BHC [2C]	1.1	1.0	1	B5C0285	03/11/2015	03/12/15 05:39	
Chlordane	ND	8.5	1	B5C0285	03/11/2015	03/12/15 05:39	
delta-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:39	
Dieldrin [2C]	5.6	2.0	1	B5C0285	03/11/2015	03/12/15 05:39	
Endosulfan I	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:39	
Endosulfan II	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:39	
Endosulfan sulfate	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:39	
Endrin	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:39	
Endrin aldehyde	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:39	
Endrin ketone	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:39	
gamma-BHC [2C]	1.3	1.0	1	B5C0285	03/11/2015	03/12/15 05:39	
gamma-Chlordane	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:39	
Heptachlor	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:39	
Heptachlor epoxide	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:39	
Methoxychlor	ND	5.0	1	B5C0285	03/11/2015	03/12/15 05:39	
Toxaphene	ND	50	1	B5C0285	03/11/2015	03/12/15 05:39	
Surrogate: Decachlorobiphenyl	101 %	16 - 137		B5C0285	03/11/2015	03/12/15 14:40	
Surrogate: Decachlorobiphenyl	65.8 %	16 - 137		B5C0285	03/11/2015	03/12/15 05:39	
Surrogate: Tetrachloro-m-xylene	52.9 %	16 - 105		B5C0285	03/11/2015	03/12/15 14:40	
Surrogate: Tetrachloro-m-xylene	50.3 %	16 - 105		B5C0285	03/11/2015	03/12/15 05:39	



Project Number: Munzer, 10948.001 Leighton Consulting, Inc.

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 03/13/2015

Client Sample ID LB55-1.5 Lab ID: 1500847-68

Organochlorine Pesticides by EPA 8081

Analyst: CL

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Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:50	
4,4'-DDE	550	40	20	B5C0285	03/11/2015	03/12/15 14:50	
4,4'-DDT	720	40	20	B5C0285	03/11/2015	03/12/15 14:50	
Aldrin	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:50	
alpha-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:50	
alpha-Chlordane	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:50	
beta-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:50	
Chlordane	ND	8.5	1	B5C0285	03/11/2015	03/12/15 05:50	
delta-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:50	
Dieldrin [2C]	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:50	
Endosulfan I	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:50	
Endosulfan II	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:50	
Endosulfan sulfate	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:50	
Endrin	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:50	
Endrin aldehyde	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:50	
Endrin ketone	ND	2.0	1	B5C0285	03/11/2015	03/12/15 05:50	
gamma-BHC	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:50	
gamma-Chlordane	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:50	
Heptachlor	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:50	
Heptachlor epoxide	ND	1.0	1	B5C0285	03/11/2015	03/12/15 05:50	
Methoxychlor	ND	5.0	1	B5C0285	03/11/2015	03/12/15 05:50	
Toxaphene	ND	50	1	B5C0285	03/11/2015	03/12/15 05:50	
Surrogate: Decachlorobiphenyl	87.8 %	16 - 137		B5C0285	03/11/2015	03/12/15 05:50	
Surrogate: Decachlorobiphenyl	114 %	16 - 137		B5C0285	03/11/2015	03/12/15 14:50	
Surrogate: Tetrachloro-m-xylene	62.4 %	16 - 105		B5C0285	03/11/2015	03/12/15 05:50	
Surrogate: Tetrachloro-m-xylene	74.5 %	16 - 105		B5C0285	03/11/2015	03/12/15 14:50	



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 03/13/2015

Result

QUALITY CONTROL SECTION

Organochlorine Pesticides by EPA 8081 - Quality Control

Spike

Source

PQL

Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B5C0223 - GCSEMI_PCB/P	PEST_S								
Blank (B5C0223-BLK1)				Prepare	d: 3/9/2015 A	nalyzed: 3/10/2	2015		
4,4'-DDD	ND	2.0			NR				
4,4'-DDD [2C]	ND	2.0			NR				
4,4′-DDE	ND	2.0			NR				
4,4'-DDE [2C]	ND	2.0			NR				
4,4'-DDT	ND	2.0			NR				
4,4'-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
першенног сроинс	ND	1.0			1117				

RPD

% Rec



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
A L DECOMMA COSENIA DODERDO	ra								
Batch B5C0223 - GCSEMI_PCB/PES	I_S (continued)								
Blank (B5C0223-BLK1) - Continued				Prepared	d: 3/9/2015 A	nalyzed: 3/10/2	015		
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	13.25		16.6667		79.5	16 - 137			
Surrogate: Decachlorobiphenyl [2C]	13.91		16.6667		83.5	16 - 137			
Surrogate: Tetrachloro-m-xylene	11.72		16.6667		70.3	16 - 105			
Surrogate: Tetrachloro-m-xylene [2C]	11.44		16.6667		68.6	16 - 105			
LCS (B5C0223-BS1)				Prepared	d: 3/9/2015 A	nalyzed: 3/10/2	015		
4,4′-DDD	9.83050	2.0	16.6667		59.0	58 - 100			
1,4'-DDD [2C]	10.8610	2.0	16.6667		65.2	58 - 100			
4,4′-DDE	11.8603	2.0	16.6667		71.2	65 - 99			
,, ,,4´-DDE [2C]	11.6618	2.0	16.6667		70.0	65 - 99			
,4′-DDT	14.4717	2.0	16.6667		86.8	39 - 116			
,4′-DDT [2C]	14.2335	2.0	16.6667		85.4	39 - 116			
Aldrin	12.4635	1.0	16.6667		74.8	57 - 94			
Aldrin [2C]	11.8233	1.0	16.6667		70.9	57 - 94			
lpha-BHC	12.4740	1.0	16.6667		74.8	58 - 84			
ılpha-BHC [2C]	12.1258	1.0	16.6667		72.8	58 - 84			
alpha-Chlordane	12.1772	1.0	16.6667		73.1	58 - 96			
alpha-Chlordane [2C]	11.6227	1.0	16.6667		69.7	58 - 96			
peta-BHC	12.2335	1.0	16.6667		73.4	58 - 87			
peta-BHC [2C]	11.3052	1.0	16.6667		67.8	58 - 87			
lelta-BHC	10.9177	1.0	16.6667		65.5	18 - 75			
delta-BHC [2C]	13.4568	1.0	16.6667		80.7	18 - 75			L3
Dieldrin	11.8402	2.0	16.6667		71.0	62 - 94			
Dieldrin [2C]	11.3545	2.0	16.6667		68.1	62 - 94			
Endosulfan I	11.7300	1.0	16.6667		70.4	58 - 90			
Endosulfan I [2C]	11.0088	1.0	16.6667		66.1	58 - 90			
Endosulfan II	12.0128	2.0	16.6667		72.1	63 - 95			
Endosulfan II [2C]	11.5490	2.0	16.6667		69.3	63 - 95			
Endosulfan sulfate	12.7788	2.0	16.6667		76.7	59 - 89			
Endosulfan Sulfate [2C]	12.8145	2.0	16.6667		76.9	59 - 89			
Endrin	11.3813	2.0	16.6667		68.3	64 - 96			
Endrin [2C]	11.3583	2.0	16.6667		68.1	64 - 96			
Endrin aldehyde	11.7232	2.0	16.6667		70.3	65 - 95			
Endrin aldehyde [2C]	11.3908	2.0	16.6667		68.3	65 - 95			
Endrin ketone	13.1365	2.0	16.6667		78.8	59 - 101			
Endrin ketone [2C]	14.2312	2.0	16.6667		85.4	59 - 101			



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 03/13/2015

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
atch B5C0223 - GCSEMI_PCB/PES	Γ_S (continued))							
CS (B5C0223-BS1) - Continued				Prepared	d: 3/9/2015 A	nalyzed: 3/10/2	015		
gamma-BHC	12.7563	1.0	16.6667		76.5	63 - 89			
gamma-BHC [2C]	12.3710	1.0	16.6667		74.2	63 - 89			
gamma-Chlordane	12.3722	1.0	16.6667		74.2	61 - 95			
gamma-Chlordane [2C]	11.5905	1.0	16.6667		69.5	61 - 95			
Ieptachlor	17.3650	1.0	16.6667		104	65 - 102			L3
Ieptachlor [2C]	12.4213	1.0	16.6667		74.5	65 - 102			
leptachlor epoxide	12.6262	1.0	16.6667		75.8	61 - 95			
Heptachlor epoxide [2C]	11.6885	1.0	16.6667		70.1	61 - 95			
Methoxychlor	10.5175	5.0	16.6667		63.1	29 - 128			
Methoxychlor [2C]	12.6153	5.0	16.6667		75.7	29 - 128			
Surrogate: Decachlorobiphenyl	12.49		16.6667		74.9	16 - 137			
Gurrogate: Decachlorobiphenyl [2C]	12.49		16.6667		74.9	16 - 137			
Gurrogate: Tetrachloro-m-xylene	11.23		16.6667		67.4	16 - 105			
Gurrogate: Tetrachloro-m-xylene [2C]	10.81		16.6667		64.9	16 - 105			
Matrix Spike (B5C0223-MS1)		Source: 1500	847-05	Prepared	l: 3/9/2015 A	nalyzed: 3/10/2	015		
,4′-DDD	13.0172	2.0	16.6667	ND	78.1	27 - 123			
,4′-DDD [2C]	12.4467	2.0	16.6667	ND	74.7	27 - 123			
,4′-DDE	11.4513	2.0	16.6667	ND	68.7	28 - 126			
,4′-DDE [2C]	12.9447	2.0	16.6667	ND	77.7	28 - 126			
,4′-DDT	13.1478	2.0	16.6667	ND	78.9	12 - 149			
,4′-DDT [2C]	15.9673	2.0	16.6667	ND	95.8	12 - 149			
Aldrin	14.1692	1.0	16.6667	ND	85.0	29 - 116			
Aldrin [2C]	12.6660	1.0	16.6667	ND	76.0	29 - 116			
lpha-BHC	13.7222	1.0	16.6667	ND	82.3	27 - 104			
lpha-BHC [2C]	13.0140	1.0	16.6667	ND	78.1	27 - 104			
llpha-Chlordane	13.2203	1.0	16.6667	ND	79.3	14 - 130			
lpha-Chlordane [2C]	12.4912	1.0	16.6667	ND	74.9	14 - 130			
eeta-BHC	13.2475	1.0	16.6667	ND	79.5	20 - 115			
eta-BHC [2C]	12.0438	1.0	16.6667	ND	72.3	20 - 115			
elta-BHC	15.3962	1.0	16.6667	ND	92.4	8 - 78			M7
lelta-BHC [2C]	15.3798	1.0	16.6667	ND	92.3	8 - 78			M7
Dieldrin	12.4413	2.0	16.6667	ND	74.6	20 - 134			
Dieldrin [2C]	12.4647	2.0	16.6667	ND	74.8	20 - 134			
ndosulfan I	12.4962	1.0	16.6667	ND	75.0	27 - 114			
ndosulfan I [2C]	11.7072	1.0	16.6667	ND	70.2	27 - 114			
Endosulfan II	12.5590	2.0	16.6667	ND	75.4	16 - 125			
Endosulfan II [2C]	12.6472	2.0	16.6667	ND	75.9	16 - 125			
Endosulfan sulfate	14.1912	2.0	16.6667	ND	85.1	1 - 126			
Endosulfan Sulfate [2C]	14.2263	2.0	16.6667	ND	85.4	1 - 126			
Endrin	12.9805	2.0	16.6667	ND	77.9	33 - 122			



Analyte

delta-BHC

Dieldrin

delta-BHC [2C]

Dieldrin [2C]

Endosulfan I

Endosulfan I [2C]

Certificate of Analysis

Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

PQL

(ug/kg)

Irvine, CA 92614 Reported: 03/13/2015

Result

(ug/kg)

13.8390

14.2860

11.3892

11.2408

11.5555

10.6032

1.0

1.0

2.0

2.0

1.0

1.0

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Spike

Level

Source

Result

% Rec

% Rec

Limits

RPD

Limit

Notes

RPD

1 mary te	(ug/ng)	(ug/Rg)	20101	resurt	, 5 100	Ziiiiti	D	Lillin	110105
Batch B5C0223 - GCSEMI_PCB/PEST_	S (continued	 I)							
		Source: 1500	0847-05	Prepared	d: 3/9/2015 A	analyzed: 3/10/2	2015		
Endrin [2C]	12.4863	2.0	16.6667	ND	74.9	33 - 122			
Endrin aldehyde	10.9782	2.0	16.6667	ND	65.9	0 - 137			
Endrin aldehyde [2C]	11.1977	2.0	16.6667	ND	67.2	0 - 137			
Endrin ketone	14.5967	2.0	16.6667	ND	87.6	10 - 126			
Endrin ketone [2C]	16.2677	2.0	16.6667	ND	97.6	10 - 126			
gamma-BHC	14.0500	1.0	16.6667	ND	84.3	30 - 111			
gamma-BHC [2C]	13.2265	1.0	16.6667	ND	79.4	30 - 111			
gamma-Chlordane	13.8102	1.0	16.6667	ND	82.9	16 - 130			
gamma-Chlordane [2C]	12.4590	1.0	16.6667	ND	74.8	16 - 130			
Heptachlor	16.8603	1.0	16.6667	ND	101	34 - 127			
Heptachlor [2C]	13.5522	1.0	16.6667	ND	81.3	34 - 127			
Heptachlor epoxide	13.5813	1.0	16.6667	ND	81.5	19 - 130			
Heptachlor epoxide [2C]	12.5843	1.0	16.6667	ND	75.5	19 - 130			
Methoxychlor	15.2272	5.0	16.6667	ND	91.4	16 - 153			
Methoxychlor [2C]	14.6513	5.0	16.6667	ND	87.9	16 - 153			
Surrogate: Decachlorobiphenyl	14.15		16.6667		84.9	16 - 137			
Surrogate: Decachlorobiphenyl [2C]	13.97		16.6667		83.8	16 - 137			
Surrogate: Tetrachloro-m-xylene	12.45		16.6667		74.7	16 - 105			
Surrogate: Tetrachloro-m-xylene [2C]	11.38		16.6667		68.3	16 - 105			
Matrix Spike Dup (B5C0223-MSD1)		Source: 1500	0847-05	Prepared	Prepared: 3/9/2015 Analyzed: 3/10/2		2015		
4,4′-DDD	11.4245	2.0	16.6667	ND	68.5	27 - 123	13.0	20	
4,4'-DDD [2C]	10.9222	2.0	16.6667	ND	65.5	27 - 123	13.0	20	
4,4'-DDE	10.3882	2.0	16.6667	ND	62.3	28 - 126	9.74	20	
4,4'-DDE [2C]	11.4725	2.0	16.6667	ND	68.8	28 - 126	12.1	20	
4,4′-DDT	11.5737	2.0	16.6667	ND	69.4	12 - 149	12.7	20	
4,4'-DDT [2C]	13.9328	2.0	16.6667	ND	83.6	12 - 149	13.6	20	
Aldrin	13.3205	1.0	16.6667	ND	79.9	29 - 116	6.17	20	
Aldrin [2C]	11.7658	1.0	16.6667	ND	70.6	29 - 116	7.37	20	
alpha-BHC	13.2815	1.0	16.6667	ND	79.7	27 - 104	3.26	20	
alpha-BHC [2C]	12.5080	1.0	16.6667	ND	75.0	27 - 104	3.97	20	
alpha-Chlordane	12.1930	1.0	16.6667	ND	73.2	14 - 130	8.08	20	
alpha-Chlordane [2C]	11.2662	1.0	16.6667	ND	67.6	14 - 130	10.3	20	
beta-BHC	12.4087	1.0	16.6667	ND	74.5	20 - 115	6.54	20	
beta-BHC [2C]	11.4248	1.0	16.6667	ND	68.5	20 - 115	5.28	20	
1.1. DUG	12.0200	1.0	16.6667	NID	02.0	0 70	10.7	20	

20

20

20

20

20

20

10.7

7.37

8.83

10.3

7.82

9.90

M7

M7

16.6667

16.6667

16.6667

16.6667

16.6667

16.6667

ND

ND

ND

ND

ND

ND

83.0

85.7

68.3

67.4

69.3

63.6

8 - 78

8 - 78

20 - 134

20 - 134

27 - 114

27 - 114



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 03/13/2015

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

	Result	PQL		Source		% Rec		RPD						
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes					
Batch B5C0223 - GCSEMI_PCB/PEST_S (continued) Matrix Spike Dup (B5C0223-MSD1) - Continued Source: 1500847-05 Prepared: 3/9/2015 Analyzed: 3/10/2015														
Matrix Spike Dup (B5C0223-MSD1) - Continued		Source: 1500	947.05	D	J. 2/0/2015 A	malrigadi 2/10/2	015							
Matrix Spike Dup (B5C0223-MSD1)	- Continued	Source: 1500	047-03	Prepare	u: 3/9/2015 A	naryzeu. 3/10/2	.015							
Matrix Spike Dup (B5C0223-MSD1) - Endosulfan II	- Continued 11.3730	2.0	16.6667	ND	68.2	16 - 125	9.91	20						
/				1		,		20 20						

Endosulfan Sulfate [2C]	12.5613	2.0	16.6667	ND	75.4	1 - 126	12.4	20
Endrin	11.8703	2.0	16.6667	ND	71.2	33 - 122	8.93	20
Endrin [2C]	11.2072	2.0	16.6667	ND	67.2	33 - 122	10.8	20
Endrin aldehyde	9.87283	2.0	16.6667	ND	59.2	0 - 137	10.6	20
Endrin aldehyde [2C]	9.58517	2.0	16.6667	ND	57.5	0 - 137	15.5	20
Endrin ketone	12.8647	2.0	16.6667	ND	77.2	10 - 126	12.6	20

Endrin ketone [2C] 14.1957 2.0 16.6667 ND 85.2 10 - 126 13.6 20 gamma-BHC 13.4552 1.0 16.6667 ND 80.7 30 - 111 4.33 20 30 - 111 gamma-BHC [2C] 12.6407 1.0 16.6667 ND 75.8 4 53 20 gamma-Chlordane 12.6783 1.0 16.6667 ND 76.1 16 - 130 8.55 20 gamma-Chlordane [2C] 16 - 130 11.2575 1.0 16.6667 ND 67.5 10.1 20 Heptachlor 17.0575 1.0 16.6667 ND 102 34 - 127 20 1 16

ND 20 Heptachlor [2C] 12.6003 1.0 16.6667 75.6 34 - 127 7.28 Heptachlor epoxide 12.6933 1.0 16.6667 ND 76.2 19 - 130 6.76 20 Heptachlor epoxide [2C] 11.5407 1.0 16.6667 ND 69.2 19 - 130 8.65 20 16 - 153 5.0 ND 76.2 20 Methoxychlor 12.6935 16.6667 18.1 75.9 Methoxychlor [2C] 12.6525 5.0 16.6667 ND 16 - 153 14.6 20

16.6667

75.5

16 - 137

 Surrogate: Decachlorobiphenyl [2C]
 12.07
 16.6667
 72.4
 16-137

 Surrogate: Tetrachloro-m-xylene
 12.11
 16.6667
 72.7
 16-105

 Surrogate: Tetrachloro-m-xylene [2C]
 11.13
 16.6667
 66.8
 16-105

$Batch\ B5C0262-GCSEMI_PCB/PEST_S$

Surrogate: Decachlorobiphenyl

Blank (B5C0262-BLK1) Prepared: 3/10/2015 Analyzed: 3/11/2015

4,4'-DDD ND 2.0 NR ND 2.0 NR 4,4'-DDD [2C] 4,4'-DDE 2.0 NR ND 4,4'-DDE [2C] ND 2.0 NR 4,4'-DDT ND 2.0 NR 4,4'-DDT [2C] ND 2.0 NR Aldrin ND 1.0 NR Aldrin [2C] ND 1.0 NR alpha-BHC ND 1.0 NR alpha-BHC [2C] ND 1.0 NR alpha-Chlordane ND 1.0 NR alpha-Chlordane [2C] ND 1.0 NR beta-BHC ND 1.0 NR

12.58



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
D / L DECOA/A CCCCDLG DOD TO	TO CONTRACT								
Batch B5C0262 - GCSEMI_PCB/PES	I_S (continued)								
Blank (B5C0262-BLK1) - Continued				Prepared	d: 3/10/2015 A	Analyzed: 3/11	/2015		
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	14.09		16.6667		84.5	16 - 137			
Surrogate: Decachlorobiphenyl [2C]	14.25		16.6667		85.5	16 - 137			
Surrogate: Tetrachloro-m-xylene	12.06		16.6667		72.3	16 - 105			
Surrogate: Tetrachloro-m-xylene [2C]	11.74		16.6667		70.5	16 - 105			
LCS (B5C0262-BS1)				Prepared	d: 3/10/2015 A	Analyzed: 3/11	/2015		
4,4´-DDD	10.7467	2.0	16.6667		64.5	58 - 100			
4,4′-DDD [2C]	11.3867	2.0	16.6667		68.3	58 - 100			
4,4´-DDE	12.2453	2.0	16.6667		73.5	65 - 99			
4,4'-DDE [2C]	12.1707	2.0	16.6667		73.0	65 - 99			



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/13/2015

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B5C0262 - GCSEMI_PCB/PES	T S (continued)								
	1_5 (continueu)			D	L 2/10/2015	Al d. 2/11	/2015		
LCS (B5C0262-BS1) - Continued				Preparec		Analyzed: 3/11	/2015		
4,4´-DDT	15.2832	2.0	16.6667		91.7	39 - 116			
4,4′-DDT [2C]	14.7560	2.0	16.6667		88.5	39 - 116			
Aldrin	12.6467	1.0	16.6667		75.9	57 - 94			
Aldrin [2C]	12.0492	1.0	16.6667		72.3	57 - 94			
lpha-BHC	12.5228	1.0	16.6667		75.1	58 - 84			
lpha-BHC [2C]	12.2588	1.0	16.6667		73.6	58 - 84			
lpha-Chlordane	12.4085	1.0	16.6667		74.5	58 - 96			
llpha-Chlordane [2C]	11.9058	1.0	16.6667		71.4	58 - 96			
peta-BHC	11.5067	1.0	16.6667		69.0	58 - 87			
eta-BHC [2C]	11.5172	1.0	16.6667		69.1	58 - 87			
lelta-BHC	11.2253	1.0	16.6667		67.4	18 - 75			
lelta-BHC [2C]	13.6318	1.0	16.6667		81.8	18 - 75			L3
Dieldrin	11.9602	2.0	16.6667		71.8	62 - 94			
Dieldrin [2C]	11.6483	2.0	16.6667		69.9	62 - 94			
Endosulfan I	11.8207	1.0	16.6667		70.9	58 - 90			
Endosulfan I [2C]	11.2502	1.0	16.6667		67.5	58 - 90			
Endosulfan II	12.0445	2.0	16.6667		72.3	63 - 95			
indosulfan II [2C]	11.9033	2.0	16.6667		71.4	63 - 95			
indosulfan sulfate	12.7093	2.0	16.6667		76.3	59 - 89			
Endosulfan Sulfate [2C]	12.7900	2.0	16.6667		76.7	59 - 89			
Endrin	11.8740	2.0	16.6667		71.2	64 - 96			
Endrin [2C]	11.7662	2.0	16.6667		70.6	64 - 96			
Endrin aldehyde	11.7315	2.0	16.6667		70.4	65 - 95			
Endrin aldehyde [2C]	11.6688	2.0	16.6667		70.0	65 - 95			
Endrin ketone	12.9180	2.0	16.6667		77.5	59 - 101			
Endrin ketone [2C]	14.0908	2.0	16.6667		84.5	59 - 101			
gamma-BHC	12.8092	1.0	16.6667		76.9	63 - 89			
gamma-BHC [2C]	12.5578	1.0	16.6667		75.3	63 - 89			
gamma-Chlordane	12.4720	1.0	16.6667		74.8	61 - 95			
gamma-Chlordane [2C]	11.8673	1.0	16.6667		71.2	61 - 95			
Heptachlor	17.7948	1.0	16.6667		107	65 - 102			L3
Heptachlor [2C]	12.7078	1.0	16.6667		76.2	65 - 102			23
Reptachlor epoxide	12.7180	1.0	16.6667		76.3	61 - 95			
Heptachlor epoxide [2C]	11.9672	1.0	16.6667		70.3	61 - 95			
Methoxychlor	11.9858	5.0	16.6667		71.8	29 - 128			
Methoxychlor [2C]	13.4445	5.0	16.6667		80.7	29 - 128 29 - 128			
		3.0							
Surrogate: Decachlorobiphenyl	13.15		16.6667		78.9	16 - 137			
Surrogate: Decachlorobiphenyl [2C]	13.05		16.6667		78.3	16 - 137			
Surrogate: Tetrachloro-m-xylene	10.88		16.6667		65.3	16 - 105			
Surrogate: Tetrachloro-m-xylene [2C]	10.90		16.6667		65.4	16 - 105			

Matrix Spike (B5C0262-MS1) Source: 1500847-35 Prepared: 3/10/2015 Analyzed: 3/11/2015



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 03/13/2015

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B5C0262 - GCSEMI PCB/PES	T S (continued)								
-	_ ` ´		16.6667	ND	70.0	27 122			
4,4′-DDD	13.1345	2.0	16.6667	ND	78.8	27 - 123			
4,4′-DDD [2C]	12.8593	2.0	16.6667	ND	77.2	27 - 123			
4,4′-DDE	13.7758	2.0	16.6667	ND	82.7	28 - 126			
4,4'-DDE [2C]	13.3142	2.0	16.6667	ND	79.9	28 - 126			
4,4'-DDT 4,4'-DDT [2C]	14.4180 16.2673	2.0 2.0	16.6667 16.6667	ND ND	86.5 97.6	12 - 149 12 - 149			
Aldrin	14.1080		16.6667	ND ND	97.6 84.6	12 - 149 29 - 116			
	12.7345	1.0 1.0	16.6667	ND ND	76.4	29 - 116 29 - 116			
Aldrin [2C] alpha-BHC	13.7038	1.0	16.6667	ND ND	82.2	29 - 116 27 - 104			
	12.9965		16.6667	ND ND	78.0	27 - 104			
alpha-BHC [2C] alpha-Chlordane	13.6452	1.0 1.0	16.6667	ND ND	78.0 81.9	14 - 130			
alpha-Chlordane [2C]	12.8458	1.0	16.6667	ND ND	77.1	14 - 130			
beta-BHC	13.1617	1.0	16.6667	ND ND	79.0	20 - 115			
beta-BHC [2C]	12.2635	1.0	16.6667	ND ND	73.6	20 - 115			
delta-BHC	14.8512	1.0	16.6667	ND ND	89.1	8 - 78			M1
delta-BHC [2C]	15.2142	1.0	16.6667	ND ND	91.3	8 - 78			M1
Dieldrin	12.8902	2.0	16.6667	ND ND	77.3	20 - 134			IVI I
Dieldrin [2C]	12.7860	2.0	16.6667	ND ND	76.7	20 - 134			
Endosulfan I	12.9073	1.0	16.6667	ND	77.4	27 - 114			
Endosulfan I [2C]	12.0368	1.0	16.6667	ND	72.2	27 - 114			
Endosulfan II	12.7963	2.0	16.6667	ND	76.8	16 - 125			
Endosulfan II [2C]	12.9033	2.0	16.6667	ND	77.4	16 - 125			
Endosulfan sulfate	14.0807	2.0	16.6667	ND	84.5	1 - 126			
Endosulfan Sulfate [2C]	14.2775	2.0	16.6667	ND	85.7	1 - 126			
Endrin	13.4248	2.0	16.6667	ND	80.5	33 - 122			
Endrin [2C]	12.8863	2.0	16.6667	ND	77.3	33 - 122			
Endrin aldehyde	11.6347	2.0	16.6667	ND	69.8	0 - 137			
Endrin aldehyde [2C]	11.4222	2.0	16.6667	ND	68.5	0 - 137			
Endrin ketone	14.4372	2.0	16.6667	ND	86.6	10 - 126			
Endrin ketone [2C]	16.2550	2.0	16.6667	ND	97.5	10 - 126			
gamma-BHC	14.1545	1.0	16.6667	ND	84.9	30 - 111			
gamma-BHC [2C]	13.3447	1.0	16.6667	ND	80.1	30 - 111			
gamma-Chlordane	14.0547	1.0	16.6667	ND	84.3	16 - 130			
gamma-Chlordane [2C]	12.8223	1.0	16.6667	ND	76.9	16 - 130			
Heptachlor	17.3745	1.0	16.6667	ND	104	34 - 127			
Heptachlor [2C]	13.7800	1.0	16.6667	ND	82.7	34 - 127			
Heptachlor epoxide	13.9478	1.0	16.6667	ND	83.7	19 - 130			
Heptachlor epoxide [2C]	12.8277	1.0	16.6667	ND	77.0	19 - 130			
Methoxychlor	15.1082	5.0	16.6667	ND	90.6	16 - 153			
Methoxychlor [2C]	15.0503	5.0	16.6667	ND	90.3	16 - 153			
Surrogate: Decachlorobiphenyl	14.42		16.6667		86.5	16 - 137			
Surrogate: Decachlorobiphenyl [2C]	14.34		16.6667		86.1	16 - 137			
Surrogate: Tetrachloro-m-xylene	12.15		16.6667		72.9	16 - 105			



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

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Irvine, CA 92614 Reported: 03/13/2015

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

	Result	PQL	Spike	Source		% Rec		RPD		
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes	

Batch B5C0262 - GCSEMI_PCB/PEST_S (continued)

Matrix Spike (B5C0262-MS1) - Continued Source: 1500847-35 Prepared: 3/10/2015 Analyzed: 3/11/2015	
Surrogate: Tetrachloro-m-xylene [2C] 11.32 16.6667 67.9 16 - 105	
Matrix Spike Dup (B5C0262-MSD1) Source: 1500847-35 Prepared: 3/10/2015 Analyzed: 3/11/2015	
4,4'-DDD 13.6525 2.0 16.6667 ND 81.9 27 - 123 3.87 2	0
4,4'-DDD [2C] 13.3353 2.0 16.6667 ND 80.0 27 - 123 3.63 2	0
4,4'-DDE 14.9248 2.0 16.6667 ND 89.5 28 - 126 8.01 2	0
4,4'-DDE [2C] 14.0165 2.0 16.6667 ND 84.1 28 - 126 5.14 2	0
4,4'-DDT 14.4025 2.0 16.6667 ND 86.4 12 - 149 0.108 2	0
, t j	0
Aldrin 15.2658 1.0 16.6667 ND 91.6 29 - 116 7.88 2	0
Aldrin [2C] 13.6937 1.0 16.6667 ND 82.2 29 - 116 7.26 2	0
alpha-BHC 14.9660 1.0 16.6667 ND 89.8 27 - 104 8.80 2	0
alpha-BHC [2C] 14.3498 1.0 16.6667 ND 86.1 27 - 104 9.90 2	0
alpha-Chlordane 14.6032 1.0 16.6667 ND 87.6 14 - 130 6.78 2	0
alpha-Chlordane [2C] 13.6468 1.0 16.6667 ND 81.9 14 - 130 6.05 2	0
beta-BHC 14.1485 1.0 16.6667 ND 84.9 20 - 115 7.23 2	0
beta-BHC [2C] 13.4030 1.0 16.6667 ND 80.4 20 - 115 8.88 2	0
delta-BHC 15.1248 1.0 16.6667 ND 90.7 8 - 78 1.83 2	0 M1
delta-BHC [2C] 16.3188 1.0 16.6667 ND 97.9 8 - 78 7.01 2	0 M1
Dieldrin 13.6588 2.0 16.6667 ND 82.0 20 - 134 5.79 2	0
Dieldrin [2C] 13.4792 2.0 16.6667 ND 80.9 20 - 134 5.28 2	0
Endosulfan I 13.8690 1.0 16.6667 ND 83.2 27 - 114 7.18 2	0
Endosulfan I [2C] 12.8388 1.0 16.6667 ND 77.0 27 - 114 6.45 2	0
Endosulfan II 13.7838 2.0 16.6667 ND 82.7 16 - 125 7.43 2	0
Endosulfan II [2C] 13.4985 2.0 16.6667 ND 81.0 16 - 125 4.51 2	0
Endosulfan sulfate 14.8790 2.0 16.6667 ND 89.3 1 - 126 5.51 2	0
Endosulfan Sulfate [2C] 14.8700 2.0 16.6667 ND 89.2 1 - 126 4.07 2	0
Endrin 14.2530 2.0 16.6667 ND 85.5 33 - 122 5.98 2	0
Endrin [2C] 13.6003 2.0 16.6667 ND 81.6 33 - 122 5.39 2	0
Endrin aldehyde 11.7817 2.0 16.6667 ND 70.7 0 - 137 1.26 2	0
Endrin aldehyde [2C] 11.9998 2.0 16.6667 ND 72.0 0 - 137 4.93 2	0
Endrin ketone 15.2075 2.0 16.6667 ND 91.2 10 - 126 5.20 2	0
Endrin ketone [2C] 17.0105 2.0 16.6667 ND 102 10 - 126 4.54 2	0
gamma-BHC 15.4100 1.0 16.6667 ND 92.5 30 - 111 8.49 2	0
gamma-BHC [2C] 14.6048 1.0 16.6667 ND 87.6 30 - 111 9.02 2	0
gamma-Chlordane 15.0238 1.0 16.6667 ND 90.1 16 - 130 6.67 2	0
gamma-Chlordane [2C] 13.6305 1.0 16.6667 ND 81.8 16 - 130 6.11 2	0
Heptachlor 20.3843 1.0 16.6667 ND 122 34 - 127 15.9 2	0
Heptachlor [2C] 14.8160 1.0 16.6667 ND 88.9 34 - 127 7.25 2	0
Heptachlor epoxide 14.9957 1.0 16.6667 ND 90.0 19 - 130 7.24 2	0
Heptachlor epoxide [2C] 13.6838 1.0 16.6667 ND 82.1 19 - 130 6.46 2	0
Methoxychlor 15.3078 5.0 16.6667 ND 91.8 16 - 153 1.31 2	0



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Irvine, CA 92614 Reported: 03/13/2015

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

	Result	PQL	Spike	Source		% Rec		RPD		
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes	

Batch B5C0262 - GCSEMI_PCB/PEST_S (continued)

Matrix Spike Dup (B5C0262-MSD1) - Contin	Source: 150	00847-35	Prepared						
Methoxychlor [2C]	5.0	16.6667	ND	93.3	16 - 153	3.22	20		
Surrogate: Decachlorobiphenyl	15.40		16.6667		92.4	16 - 137			
Surrogate: Decachlorobiphenyl [2C]	14.98		16.6667		89.9	16 - 137			
Surrogate: Tetrachloro-m-xylene	13.45		16.6667		80.7	16 - 105			
Surrogate: Tetrachloro-m-xylene [2C] 12.58			16.6667		75.5	16 - 105			

Batch B5C0285 - GCSEMI PCR/PEST S

Batch B5C0285 - GCSEMI_PCB	/PEST_S			
Blank (B5C0285-BLK1)			Prepared: 3/11/2015 Analyzed: 3/12/2015	
4,4'-DDD	ND	2.0	NR	
4,4'-DDD [2C]	ND	2.0	NR	
4,4'-DDE	ND	2.0	NR	
4,4′-DDE [2C]	ND	2.0	NR	
4,4′-DDT	ND	2.0	NR	
4,4'-DDT [2C]	ND	2.0	NR	
Aldrin	ND	1.0	NR	
Aldrin [2C]	ND	1.0	NR	
alpha-BHC	ND	1.0	NR	
alpha-BHC [2C]	ND	1.0	NR	
alpha-Chlordane	ND	1.0	NR	
alpha-Chlordane [2C]	ND	1.0	NR	
beta-BHC	ND	1.0	NR	
beta-BHC [2C]	ND	1.0	NR	
Chlordane	ND	8.5	NR	
Chlordane [2C]	ND	8.5	NR	
delta-BHC	ND	1.0	NR	
delta-BHC [2C]	ND	1.0	NR	
Dieldrin	ND	2.0	NR	
Dieldrin [2C]	ND	2.0	NR	
Endosulfan I	ND	1.0	NR	
Endosulfan I [2C]	ND	1.0	NR	
Endosulfan II	ND	2.0	NR	
Endosulfan II [2C]	ND	2.0	NR	
Endosulfan sulfate	ND	2.0	NR	
Endosulfan Sulfate [2C]	ND	2.0	NR	
Endrin	ND	2.0	NR	
Endrin [2C]	ND	2.0	NR	
Endrin aldehyde	ND	2.0	NR	
Endrin aldehyde [2C]	ND	2.0	NR	
Endrin ketone	ND	2.0	NR	
Endrin ketone [2C]	ND	2.0	NR	



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Irvine , CA 92614 Reported: 03/13/2015

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B5C0285 - GCSEMI_PCB/PES	T_S (continued)								
Blank (B5C0285-BLK1) - Continued				Prepared	l: 3/11/2015 A	Analyzed: 3/12/	2015		
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	13.88		16.6667		83.3	16 - 137			
Surrogate: Decachlorobiphenyl [2C]	14.20		16.6667		85.2	16 - 137			
Surrogate: Tetrachloro-m-xylene	12.05		16.6667		72.3	16 - 105			
Surrogate: Tetrachloro-m-xylene [2C]	11.81		16.6667		70.9	16 - 105			
LCS (B5C0285-BS1)				Prepared	l: 3/11/2015 A	Analyzed: 3/12/	2015		
1,4′-DDD	9.78783	2.0	16.6667		58.7	58 - 100			
4,4′-DDD [2C]	10.5392	2.0	16.6667		63.2	58 - 100			
1,4′-DDE	11.3038	2.0	16.6667		67.8	65 - 99			
4,4'-DDE [2C]	11.3262	2.0	16.6667		68.0	65 - 99			
4,4'-DDT	13.8817	2.0	16.6667		83.3	39 - 116			
4,4'-DDT [2C]	13.6317	2.0	16.6667		81.8	39 - 116			
Aldrin	11.9940	1.0	16.6667		72.0	57 - 94			
Aldrin [2C]	11.4428	1.0	16.6667		68.7	57 - 94			
alpha-BHC	12.1580	1.0	16.6667		72.9	58 - 84			
alpha-BHC [2C]	11.9448	1.0	16.6667		71.7	58 - 84			
alpha-Chlordane	11.5885	1.0	16.6667		69.5	58 - 96			
alpha-Chlordane [2C]	11.1633	1.0	16.6667		67.0	58 - 96			
peta-BHC	10.9880	1.0	16.6667		65.9	58 - 87			
peta-BHC [2C]	11.0312	1.0	16.6667		66.2	58 - 87			
delta-BHC	10.3763	1.0	16.6667		62.3	18 - 75			
delta-BHC [2C]	13.2832	1.0	16.6667		79.7	18 - 75			L3
Dieldrin	11.1335	2.0	16.6667		66.8	62 - 94			
Dieldrin [2C]	10.9018	2.0	16.6667		65.4	62 - 94			
Endosulfan I	11.0827	1.0	16.6667		66.5	58 - 90			
Endosulfan I [2C]	10.5530	1.0	16.6667		63.3	58 - 90			
Endosulfan II	11.2782	2.0	16.6667		67.7	63 - 95			
Endosulfan II [2C]	11.0423	2.0	16.6667		66.3	63 - 95			
Endosulfan sulfate	12.0635	2.0	16.6667		72.4	59 - 89			



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	Result	PQL	Spike	Source		% Rec		RPD				
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes			
Batch B5C0285 - GCSEMI_PCB/PES	Γ_S (continued)	1										
LCS (B5C0285-BS1) - Continued				Prepared	d: 3/11/2015 A	Analyzed: 3/12/	2015					
Endosulfan Sulfate [2C]	12.1927	2.0	16.6667		73.2	59 - 89						
Endrin	10.9302	2.0	16.6667		65.6	64 - 96						
Endrin [2C]	11.0492	2.0	16.6667		66.3	64 - 96						
Endrin aldehyde	10.4583	2.0	16.6667		62.7	65 - 95			L4			
Endrin aldehyde [2C]	10.7913	2.0	16.6667		64.7	65 - 95			L4			
Endrin ketone	12.2085	2.0	16.6667		73.3	59 - 101						
Endrin ketone [2C]	13.3113	2.0	16.6667		79.9	59 - 101						
gamma-BHC	12.3513	1.0	16.6667		74.1	63 - 89						
gamma-BHC [2C]	12.1903	1.0	16.6667		73.1	63 - 89						
gamma-Chlordane	11.6642	1.0	16.6667		70.0	61 - 95						
gamma-Chlordane [2C]	11.1618	1.0	16.6667		67.0	61 - 95						
Heptachlor	16.7922	1.0	16.6667		101	65 - 102						
Heptachlor [2C]	12.0657	1.0	16.6667		72.4	65 - 102						
Heptachlor epoxide	11.9458	1.0	16.6667		71.7	61 - 95						
Heptachlor epoxide [2C]	11.2818	1.0	16.6667		67.7	61 - 95						
Methoxychlor	10.4393	5.0	16.6667		62.6	29 - 128						
Methoxychlor [2C]	12.1193	5.0	16.6667		72.7	29 - 128						
Surrogate: Decachlorobiphenyl	11.96		16.6667		71.7	16 - 137						
Surrogate: Decachlorobiphenyl [2C]	12.04		16.6667		72.2	16 - 137						
Surrogate: Tetrachloro-m-xylene	10.95		16.6667		65.7	16 - 105						
Surrogate: Tetrachloro-m-xylene [2C]	10.70		16.6667		64.2	16 - 105						
Matrix Spike (B5C0285-MS1)		Source: 1500	847-59	Prepared	d: 3/11/2015 A	Analyzed: 3/12/	2015					
4,4′-DDD	12.3142	2.0	16.6667	ND	73.9	27 - 123						
4,4′-DDD [2C]	12.2860	2.0	16.6667	ND	73.7	27 - 123						
1,4'-DDE	13.4782	2.0	16.6667	ND	80.9	28 - 126						
4,4'-DDE [2C]	12.9610	2.0	16.6667	ND	77.8	28 - 126						
1,4'-DDT	13.2675	2.0	16.6667	ND	79.6	12 - 149						
4,4'-DDT [2C]	15.6440	2.0	16.6667	ND	93.9	12 - 149						
Aldrin	14.0140	1.0	16.6667	ND	84.1	29 - 116						
Aldrin [2C]	12.7577	1.0	16.6667	ND	76.5	29 - 116						
alpha-BHC	13.7412	1.0	16.6667	ND	82.4	27 - 104						
alpha-BHC [2C]	13.3808	1.0	16.6667	ND	80.3	27 - 104						
alpha-Chlordane	13.2282	1.0	16.6667	ND	79.4	14 - 130						
alpha-Chlordane [2C]	12.6095	1.0	16.6667	ND	75.7	14 - 130						
peta-BHC	12.8562	1.0	16.6667	ND	77.1	20 - 115						
peta-BHC [2C]	12.4255	1.0	16.6667	ND	74.6	20 - 115						
delta-BHC	13.4302	1.0	16.6667	ND	80.6	8 - 78			M1			
delta-BHC [2C]	15.2892	1.0	16.6667	ND	91.7	8 - 78			M1			
Dieldrin	12.2727	2.0	16.6667	ND	73.6	20 - 134						
Dieldrin [2C]	12.4560	2.0	16.6667	ND	74.7	20 - 134						



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Irvine, CA 92614 Reported: 03/13/2015

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes

Batch B5C0285 - GCSEMI_PCB/PEST_S (continued)

Matrix Spike (B5C0285-MS1) - Continued	Source: 1500847-59		Prepared	1: 3/11/2015	Analyzed: 3/12/	2015			
Endosulfan I	12.5967 1.0 16.6667		ND	75.6	27 - 114				
Endosulfan I [2C]	11.8702	1.0	16.6667	ND	71.2	27 - 114			
Endosulfan II	12.4605	2.0	16.6667	ND	74.8	16 - 125			
Endosulfan II [2C]	12.4622	2.0	16.6667	ND	74.8	16 - 125			
Endosulfan sulfate	13.5643	2.0	16.6667	ND	81.4	1 - 126			
Endosulfan Sulfate [2C]	13.8145	2.0	16.6667	ND	82.9	1 - 126			
Endrin	12.8190	2.0	16.6667	ND	76.9	33 - 122			
Endrin [2C]	12.4985	2.0	16.6667	ND	75.0	33 - 122			
Endrin aldehyde	10.4807	2.0	16.6667	ND	62.9	0 - 137			
Endrin aldehyde [2C]	10.7313	2.0	16.6667	ND	64.4	0 - 137			
Endrin ketone	13.8978	2.0	16.6667	ND	83.4	10 - 126			
Endrin ketone [2C]	15.5645	2.0	16.6667	ND	93.4	10 - 126			
gamma-BHC	14.1050	1.0	16.6667	ND	84.6	30 - 111			
gamma-BHC [2C]	13.6388	1.0	16.6667	ND	81.8	30 - 111			
gamma-Chlordane	13.5715	1.0	16.6667	ND	81.4	16 - 130			
gamma-Chlordane [2C]	12.6290	1.0	16.6667	ND	75.8	16 - 130			
Heptachlor	18.2188	1.0	16.6667	ND	109	34 - 127			
Heptachlor [2C]	13.5638	1.0	16.6667	ND	81.4	34 - 127			
Heptachlor epoxide	13.6313	1.0	16.6667	ND	81.8	19 - 130			
Heptachlor epoxide [2C]	12.7355	1.0	16.6667	ND	76.4	19 - 130			
Methoxychlor	13.4532	5.0	16.6667	ND	80.7	16 - 153			
Methoxychlor [2C]	13.9288	5.0	16.6667	ND	83.6	16 - 153			
Surrogate: Decachlorobiphenyl	13.12		16.6667		78.7	16 - 137			
Surrogate: Decachlorobiphenyl [2C]	13.24		16.6667		79.4	16 - 137			
Surrogate: Tetrachloro-m-xylene	11.98		16.6667		71.8	16 - 105			
Surrogate: Tetrachloro-m-xylene [2C]	11.61		16.6667		69.6	16 - 105			
Matrix Spike Dup (B5C0285-MSD1)		Source: 150	00847-59	Prepared	1: 3/11/2015	Analyzed: 3/12/	2015		
4,4′-DDD	12.4375	2.0	16.6667	ND	74.6	27 - 123	0.997	20	
4,4′-DDD [2C]	12.3228	2.0	16.6667	ND	73.9	27 - 123	0.299	20	
4,4´-DDE	13.5387	2.0	16.6667	ND	81.2	28 - 126	0.448	20	
4,4′-DDE [2C]	12.9948	2.0	16.6667	ND	78.0	28 - 126	0.261	20	
4,4′-DDT	13.3275	2.0	16.6667	ND	80.0	12 - 149	0.451	20	
4,4'-DDT [2C]	15.8370	2.0	16.6667	ND	95.0	12 - 149	1.23	20	
Aldrin	14.1172	1.0	16.6667	ND	84.7	29 - 116	0.733	20	
Aldrin [2C]	12.7760	1.0	16.6667	ND	76.7	29 - 116	0.144	20	
alpha-BHC			16.6667	ND	82.9	27 - 104	0.539	20	
alpha-BHC [2C]	13.4217	1.0	16.6667	ND	80.5	27 - 104	0.305	20	
alpha-Chlordane	13.3288	1.0	16.6667	ND	80.0	14 - 130	0.758	20	
alpha-Chlordane [2C]	12.6273	1.0	16.6667	ND	75.8	14 - 130	0.141	20	
beta-BHC	12.9928	1.0	16.6667	ND	78.0	20 - 115	1.06	20	



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	Result	PQL	Spike	Source		% Rec		RPD		
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes	
D. I. D. COACE. G. COELER D. C. COELER	G (
Batch B5C0285 - GCSEMI_PCB/PEST_	S (continued)								
Matrix Spike Dup (B5C0285-MSD1) - Contin	nued	Source: 1500	847-59	Prepared	1: 3/11/2015 A	1/2015 Analyzed: 3/12/2				
beta-BHC [2C]	12.4552	1.0	16.6667	ND	74.7	20 - 115	0.238	20		
delta-BHC	13.7200	1.0	16.6667	ND	82.3	8 - 78	2.14	20	M1	
delta-BHC [2C]	15.4080	1.0	16.6667	ND	92.4	8 - 78	0.774	20	M1	
Dieldrin	12.3705	2.0	16.6667	ND	74.2	20 - 134	0.794	20		
Dieldrin [2C]	12.5252	2.0	16.6667	ND	75.2	20 - 134	0.554	20		
Endosulfan I	12.6512	1.0	16.6667	ND	75.9	27 - 114	0.432	20		
Endosulfan I [2C]	11.8820	1.0	16.6667	ND	71.3	27 - 114	0.0996	20		
Endosulfan II	12.5238	2.0	16.6667	ND	75.1	16 - 125	0.507	20		
Endosulfan II [2C]	12.4185	2.0	16.6667	ND	74.5	16 - 125	0.351	20		
Endosulfan sulfate	13.6727	2.0	16.6667	ND	82.0	1 - 126	0.796	20		
Endosulfan Sulfate [2C]	13.9690	2.0	16.6667	ND	83.8	1 - 126	1.11	20		
Endrin	12.9070	2.0	16.6667	ND	77.4	33 - 122	0.684	20		
Endrin [2C]	12.5033	2.0	16.6667	ND	75.0	33 - 122	0.0386	20		
Endrin aldehyde	10.5313	2.0	16.6667	ND	63.2	0 - 137	0.482	20		
Endrin aldehyde [2C]	10.9555	2.0	16.6667	ND	65.7	0 - 137	2.07	20		
Endrin ketone	13.9580	2.0	16.6667	ND	83.7	10 - 126	0.432	20		
Endrin ketone [2C]	15.6107	2.0	16.6667	ND	93.7	10 - 126	0.296	20		
gamma-BHC	14.2070	1.0	16.6667	ND	85.2	30 - 111	0.721	20		
gamma-BHC [2C]	13.6670	1.0	16.6667	ND	82.0	30 - 111	0.206	20		
gamma-Chlordane	13.6823	1.0	16.6667	ND	82.1	16 - 130	0.813	20		
gamma-Chlordane [2C]	12.6598	1.0	16.6667	ND	76.0	16 - 130	0.244	20		
Heptachlor	18.2452	1.0	16.6667	ND	109	34 - 127	0.144	20		
Heptachlor [2C]	13.6263	1.0	16.6667	ND	81.8	34 - 127	0.460	20		
Heptachlor epoxide	13.7123	1.0	16.6667	ND	82.3	19 - 130	0.592	20		
Heptachlor epoxide [2C]	12.7720	1.0	16.6667	ND	76.6	19 - 130	0.286	20		
Methoxychlor	13.6770	5.0	16.6667	ND	82.1	16 - 153	1.65	20		
Methoxychlor [2C]	13.9418	5.0	16.6667	ND	83.7	16 - 153	0.0933	20		
Surrogate: Decachlorobiphenyl	13.14		16.6667		78.8	16 - 137				
Surrogate: Decachlorobiphenyl [2C]	12.76		16.6667		76.6	16 - 137				
Surrogate: Tetrachloro-m-xylene	11.99		16.6667		71.9	16 - 105				
Surrogate: Tetrachloro-m-xylene [2C]	11.59		16.6667		69.6	16 - 105				



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 03/13/2015

Notes and Definitions

54	Surrogate	was alluted out.	

S10 Surrogate recovery was outside of laboratory acceptance limit due to possible matrix interference.

M7 Matrix spike was high biased. Sample result/s was non-detect (ND) for the target analyte; therefore reanalysis was not necessary.

M1 Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.

L4 Laboratory Control Sample outside of control limit but within Marginal Exceedance (ME) limit.

L3 Laboratory control sample outside in-house established limits but within method criteria.

ND Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL,

analyte is not detected at or above the Method Detection Limit (MDL)

PQL Practical Quantitation Limit

MDL Method Detection Limit

NR Not Reported

RPD Relative Percent Difference

CA2 CA-ELAP (CDPH)

OR1 OR-NELAP (OSPHL)

TX1 TX-NELAP (TCEQ)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
- (3) Results are wet unless otherwise specified.



Page _ \ _ of _ 7

,	For Laboratory Use Only ATLCOC Ver												
		Sai	nple Cor	ditio	ons Upon Receipt								
Method	of Transport	Condition	Y	N	Condition	Y	N						
☐ Client	□ ATL	1. CHILLED			5. # OF SAMPLES MATCH COC								
☐ FedEx	□ OnTrac	2. HEADSPACE (VOA)			6. PRESERVED								
□ GSO		3. CONTAINER INTACT			7. COOLER TEMP, deg C:								
Other:		4. SEALED											

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	Con	npany:			•		Address:	17	178	(0	wan								Tel:	94	9-	250)-14	121	
			Leighto	n Consulting, Inc.			City:		7/7/					State:			1:92(014	Fax	: 94	9-	257	7-1	1114	[
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	San	npler:	10.001	10948.00) I			Volatiles		orine	le 22				. 1		TER	G/GF WAS	GED - (TAT	1	A; 3=L Caniste	2=Plast	# 3	Level I
		BSP/	TMR	10 / (0 /				4		i-vol	7000(Title						WIPE/FI	ORM /	LAYE			3; 2=VC ar; 7 =	:Glass;	e: 1=H	
	Σ			Sa	ample Description		·	0/6	8015(GRO) 8015(DRO)	8270(Semi-volatiles) 8081(Organochlorine	5 70	9					S/W	WATER - DRINKING / GROUND WATER - STORM / WASTE	sno:	300		1=Tube 6=Tedl	rial: 1=	rvativ (Ac)2; 6	REMARKS
ES	ITEM	Li	ab No.	Sample ID / Loc	cation	Date	Time	826	8015	8270(6010 / TO-15	HOLD					SOLIDS /	WATE	AQUE		#	Type: 5=Jar;	Material:	Prese 5=Zn (REM
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_l _s	3. TI	TAT = 0 : 300 TAT = 1 : 100	0% Surcharge NEXT BU:	JSINESS DAY if received by 9:00 AM SINESS DAY (COB 5:00 PM)	 Hard copy reports w Storage and Report 	vill be disposed of after	r 45 calendar days fr	om repo		rom receipt o	of camples: \$7	/sample/me	oth if		hase la							show	vn ak	oove	and
8		TAT = 3:309 TAT = 4:209	% Surcharge 3RD BUSIN % Surcharge 4TH BUSIN	NESS DAY (COB 5:00 PM) NESS DAY (COB 5:00 PM) NESS DAY (COB 5:00 PM)	extended storage of - Air samples: Comp	pies. Complimentary st or hold is requested. ilimentary storage for t								here	by gua	arante	e pay	ment	as qu	ioted	۱.	/	$\overline{}$		
ΤE	5. S	leekend, holiday, abcontract TAT is	after-hours work - ask 10 - 15 business days.	Projects requiring shorter TATs will incur a surcharge	\$35 per reprocesse	enerated reports/EDD:				; \$50.00 per	regenerated/i	reforma? ed	report;			a Pa				_//	<u> [] </u>	1	E	D	
	l re	spective to the si	ubcontract lab ask f	or quote. of after 45 calendar days from receipt of samples; ai	10. Rush TCLP/STLC sa	ction on	procedure.						ubmit	ter Pri	nt Na	me		1	$2/\!\!/$	Sign	natur	re			
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Page <u>2</u> of <u>7</u>

		For Laboratory Us	e Only		ATLCOC Ver: 2	0130	715
		Sai	mple Cor	ditio	ons Upon Receipt		
Method	of Transport	Condition	Y	N	Condition	Y	N
☐ Client	□ ATL	1. CHILLED			5. # OF SAMPLES MATCH COC		
☐ FedEx	☐ OnTrac	2. HEADSPACE (VOA)		0	6. PRESERVED		
☐ GSO		3. CONTAINER INTACT			7. COOLER TEMP, deg C:		
Other:		4. SEALED					

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Relinquished by: (Signature and Printed Name)

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			וכע	/ 11VIK		Description				627	(Q) (Q)	8270(Semi-volatiles)	8081 Organochlorine 8082 (PCBs)	7000(Title							SOIL) SEDIMENT / SEUDGE	WIPE/	WATER - DRINKING / GROUND	WATER - STORM / WASTE	12/17			rube; ?	: 1=Gl	2; 6=N:	KS
	اا	ITEM		Lab No.		Description	т			8260 / 62	8015(GRO) 8015(DRO)	70(Sr	8081(PI	6010 / 7	6-15	HOLD					C) SE	lDS/	TER -	TER-	negr	STATE OF THE STATE	Mare 2.00	r; 6=T	Material:	Serva ((Ac):	REMARKS
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Page <u>3</u> of <u>7</u>

		For Laboratory Us	e Only		ATLCOC Ver: 2	0130	715
		Sa	mple Cor	nditio	ns Upon Receipt		
Method	of Transport	Condition	Υ	N	Condition	Y	N
☐ Client	□ATL	1. CHILLED			S. # OF SAMPLES MATCH COC		
☐ FedEx	□ OnTrac	2. HEADSPACE (VOA)			6. PRESERVED		
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	ITEM	Lab No.	Sample	Description				00	8015(GRO)	8015(DRO) 8270(Semi-	808110rgan	0/7	15	HOLD				1		SED			EOUS	1922	2000		: 1=Tu ; 6=Tec	Material:	Preservative: 5=Zn ((Ac)2; 6=N	REMARKS
LES		Lab No.	Sample ID / Location		D	ate	Time	8260	801	801		6010 /	TO-15	H)	:					SS SS	SOLI	WATER -	AQU	DECENTED BY		#	Type: 5=Jar;	Mat	Pres 5=Zn	REN
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П	1. Sam 2. Sam 3. The	ple receiving hours: 7:30 AM to 7:30 ples Submitted AFTER 3:00 PM, are c	PM Monday - Friday; Saturday 8:00 AM to 12:00 PM. onsidered received the following Business day at 8:00 AM. s apply:	samples will be dispo 7. Electronic records ma	aintained fo	r fi ve (5) y	ears from report d	ate.																	npan					
۱S	J. 111c	following turnaround time condition: TAT = 0:300% Surcharge SAME BU TAT = 1:100% Surcharge NEXT BU: TAT = 2:50% Surcharge 2ND BUSIN	SINESS DAY (COB 5:00 PM)	 Hard copy reports will Storage and Report Financial Liquid & solid sample 	ees: les: Complir	mentary sto		•			n receipt i	of sample	es; \$2/sa	ımple/m	onth if		urch: ereb								ATL	as s	how	n ab	ove	and
E R M		TAT = 2: 50% Surcharge 2ND BUSIN TAT = 3: 30% Surcharge 3RD BUSIN TAT = 4: 20% Surcharge 4TH BUSIN TAT = 5: NO SURCHARGE 5th BUSI	IESS DAY (COB 5:00 PM) IESS DAY (COB 5:00 PM)	extended storage or - Air samples: Compline requested.			n (19) calendar da	ys from r	eceipt	of samp	les; \$20/	sample/v	week if e	xtended	storage is		cieb	y gu	aran	lee i	payı	пеп	t as	quo	/	7	1	7	/	1
=	5. Subo	kend, holiday, after-hours work - ask contract TAT is 10 - 15 business days.	for quote. Projects requiring shorter TATs will incur a surcharge	 Hard copy and reger \$35 per reprocessed 	EDD.						50.00 per	regener	ated/ref	orma? e	d report;	-			PO					_	K	200	K	100		
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Page 4 of 7

		For Laboratory Us	e Only		ATLCOC Ver: 2	0130	715
		Sai	mple Cor	nditio	ons Upon Receipt		
Method	of Transport	Condition	Y	N	Condition	Y	N
☐ Client	□ ATL	1. CHILLED			5. # OF SAMPLES MATCH COC		
☐ FedEx	☐ OnTrac	2. HEADSPACE (VOA)			6. PRESERVED		
□ GSO		3. CONTAINER INTACT			7. COOLER TEMP, deg C:	_	
Other:		4. SEALED					

3275 Walnut Ave., Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040

Instruction: Complete all shaded areas.

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			IMA	Sampl	e Description		8260 / 62	(S)	8270(Semi-	8082(PCBs) 6010 / 7000(Title 22		9				SOIL AFDIMENT / SLUDGE	SOLIDS / WIPE/ FILTER	WATER - DRINKING /	1 - 1	energene		Tube;	5 0	ative:	RKS
S	ITEM		Lab No.	Sample ID / Location		e Time	260	8015(DRO)	8270(Semi 8081(§rgar	8082(PCBs) 6010 / 700	TO-15	HOLD				Ê	orio	WATER	QUEC	SACK HOUSE	#	Type: 1	5=Jar; 6=Tedle Material: 1=	Preser	S=Zn ((Ac)2; 6: REMARKS
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MS	1. Sa 2. Sa 3. Ti	ne following t TAT = 0 : TAT = 1 : TAT = 2 :	urnaround time condition	USINESS DAY if received by 9:00 AM ISINESS DAY (COB 5:00 PM) NESS DAY (COB 5:00 PM)	samples will be disposed of after 14 7. Electronic records maintained for fi 8. Hard copy reports will be disposed 9. Storage and Report Fees: - Liquid & solid samples: Complimer extended storage or hold is reques	i ve (5) years from report i of after 45 calendar days ntary storage for forty-fi v	date. from report	date.	from recei	ot of samp	oles; \$2/sar	nple/month	r	As the ourcha	se lab	orate	ory s	ervic	es fro	m AT	ΓL as				eby ve and

TAT = 3: 30% Surcharge 3RD BUSINESS DAY (CUB 5:00 PM)
TAT = 4: 20% Surcharge 4TH BUSINESS DAY (CUB 5:00 PM)
TAX = 5: NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.

Weekenin, Industry, alternation with a six option.
 Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab — ask for quote.
 Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air

- Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; \$20/ sample/week if extended storage is requested.

- Hard copy and regenerated reports/EDDs: \$17.50 per hard copy report requested; \$50.00 per regenerated/reforma? ed report; \$35 per reprocessed EDD.

10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.

11. Unanalyzed samples will incur a disposal fee of \$7 per sample.

Bina	Pate 1	
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Received by: (Signature and Printed)

Received by: (Signature and Printed Name)

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Page <u>5</u> of <u>7</u>

16		For Laboratory Us	e Only		ATLCOC Ver: 2	0130	715
		Sar	mple Cor	ditic	ons Upon Receipt		
Method	l of Transport	Condition	Υ	N	Condition	Y	N
☐ Client	□ ATL	1. CHILLED			5. # OF SAMPLES MATCH COC		
☐ FedEx	☐ OnTrac	2. HEADSPACE (VOA)		D	6. PRESERVED		
☐ GSO		3. CONTAINER INTACT			7. COOLER TEMP, deg C:		
Other:		4. SEALED					

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ES	ITEM	La	ab No.	Sample ID / Lo	ocation	Da	ate	Time	8260 / 62	8015(DRO)	8270(Semi-volatiles)	8082(PCBs) 6010 / 7000(Title	10-15	HOLD					(jg)	SOLIDS / WIPE/ FILTER WATER - DRINKING / GROUNE	WATER - STORM / WASTE	AQUEOI		#	Type: 5=Jar; 6	Material:	Preser 5=Zn ((/	REMARKS
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Page <u>6</u> of <u>7</u>

lo.		For Laboratory Us	e Only		ATLCOC Ver: 2	0130	715
S		Sai	mple Cor	ditio	ons Upon Receipt		
Method	of Transport	Condition	Υ	N	Condition	Y	2
☐ Client	□ ATL	1. CHILLED			5. # OF SAMPLES MATCH COC		
☐ FedEx	□ OnTrac	2. HEADSPACE (VOA)			6. PRESERVED		
□ GSO		3. CONTAINER INTACT			7. COOLER TEMP, deg C:		
Other:		4. SEALED					

Date:

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	Com	pany:					Address:															Te	l:						
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		pler:	17 18,001 17MR	PO #: 10948.001				524 (Volatiles)	(0	8015(DRO) 8270(Semi-volatiles)	8081 Organochlorine Pesticides)	7000(Title 22 Metals)							IMENT / SLUDGE	WIPE/ FILTER	FORM / WASTE	AQUEOUS / LAYERED - OIL		rat		oe; 2=VOA; 3=Liter; 4=Pint; lar; 7 = Canister	=Glass; 2=Plastic; 3≃Metal Ve: 1=HCl; 2=HNO3; 3=H2SO4; 4	A25203	Routine Caltrans Legal RWQCB Level IV
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Page <u>7</u> of <u>7</u>

	5 (4)4	For Laboratory Us	e Only		ATLCOC Ver: 2	0130	715
		Sai	mple Cor	ditio	ons Upon Receipt		
Method	of Transport	Condition	Υ	N	Condition	Y	N
☐ Client	□ ATL	1. CHILLED			5. # OF SAMPLES MATCH COC		
☐ FedEx	□ OnTrac	2. HEADSPACE (VOA)			6. PRESERVED		
☐ GSO		3. CONTAINER INTACT			7. COOLER TEMP, deg C:		
Other:	_~~~	4. SEALED				_	

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Instruction: Complete all shaded areas.

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		8		- 57	LB55 - 0.5			1047				X	Ш						Ш	Ш			\perp	Ц		Ш	Ш	\coprod	Ш	
		9		-(8	LB55-15			1050				Х	Ш							Ш	Ш				Ш		Ш	Щ	Ш	
		LO		1 -69	1855-2.5		1	1053							X					\downarrow					Ψ	1	1	1	<u> </u>	
ERMS	3	. Samp . The fo	les Submitter ollowing turn TAT = 0 : 300 TAT = 1 : 100 TAT = 2 : 500 TAT = 3 : 300 TAT = 4 : 200	d AFTER 3:00 PM, are of around time conditions 0% Surcharge SAME BU 0% Surcharge NEXT BU! % Surcharge 2ND BUSIN % Surcharge 3RD BUSIN % Surcharge 4TH BUSIN % Surcharge 4TH BUSIN % Surcharge 4TH BUSIN	PM Monday - Friday; Saturday 8:00 AM to 12:00 PM. onsidered received the following Business day at 8:00 AM. s apply: USINESS DAY if received by 9:00 AM SINESS DAY (COB 5:00 PM) USSS DAY (COB 5:00 PM) USSS DAY (COB 5:00 PM)	extended storage or - Air samples: Complin	aintained for five (5) y Il be disposed of after ecs: es: Complimentary sti hold is requested.	years from report of 45 calendar days f orage for forty-fi ve	ate. rom repo : (45) cale	rt date endar d	ays from		-				pur	chase		rato	ory s	ervio	es fr	om	ATL		bove, shown			
TE	5	. Subco	end, holiday, ontract TAT is ctive to the s	, after-hours work - ask s 10 - 15 business days. subcontract lab ask f	Projects requiring shorter TATs will incur a surcharge	requested Hard copy and reger \$35 per reprocessed 10. Rush TCLP/STLC sam 11. Unanalyzed samples	l EDD. iples: add 2 days to ar	nalysis TAT for extr	action on			0.00 per	egenerate	d/reforr	na? ed re	oort;			<i>Po</i> itter					<u>-</u>	5,	A.	Signa	tur	<u>≵</u> e	

Relinquished by: (Signature and Printed Name)

Received by: (Signature and Printed N

Received by: (Signature and Printed Name)

Date:

Fernando Diwa

From:

Brynn McCulloch [bmcculloch@leightongroup.com]

Sent:

Friday, March 06, 2015 12:43 PM

To:

Fernando Diwa

Cc:

Carmen Aguila; Rachelle Arada

Subject:

RE: Munzer, 10948.001

Fernando,

The sample labels are correct, the COCs should read LB48-2.5 at 0902 and LB48-5.0 at 0906.

Thank you!

Brynn McCulloch, PG 8798

Sr. Project Geologist 17781 Cowan Irvine, Ca 92614 Cell – 949.394.2306 Office – 949.681.4287 Fax – 949.250.1114

Leighton

Solutions You Can Build On

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Please don't print this e-mail unless you really need to.

From: Fernando Diwa [mailto:fernando@atlglobal.com]

Sent: Friday, March 06, 2015 11:27 AM

To: Brynn McCulloch

Cc: Carmen Aguila; Rachelle Arada **Subject:** Munzer, 10948.001

Hi Brynn,

Sample ID discrepancy was noted on the following samples: The sample collected @ 0902 listed on coc as LB48-1.5, but the sample we received labeled as LB48-2.5. Likewise, the sample collected @ 0906 listed on coc as LB48-2.5, but the sample we received labeled as LB48-5.0.

Please advise. Attached is a copy of the coc for your reference.

Regards,

Fernando Diwa





March 19, 2015

Brynn McCulloch Leighton Consulting, Inc. 17781 Cowan Street Irvine, CA 92614

Tel: (949) 394-2306 Fax:(949) 250-1114 ELAP No.: 1838 CSDLAC No.: 10196 ORELAP No.: CA300003 TCEQ No.: T104704502

Re: ATL Work Order Number: 1500847

Client Reference: Munzer, 10948.001

Enclosed are the results for sample(s) received on March 05, 2015 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez

Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/19/2015

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LB48-5.0	1500847-48	Soil	3/05/15 9:06	3/05/15 16:15



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/19/2015

Client Sample ID LB48-5.0 Lab ID: 1500847-48

Organochlorine Pesticides by EPA 8081

Analyst: CL

							Milaryst. CL
Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B5C0465	03/18/2015	03/19/15 11:58	
4,4′-DDE	ND	2.0	1	B5C0465	03/18/2015	03/19/15 11:58	
4,4′-DDT	ND	2.0	1	B5C0465	03/18/2015	03/19/15 11:58	
Aldrin	ND	1.0	1	B5C0465	03/18/2015	03/19/15 11:58	
alpha-BHC	ND	1.0	1	B5C0465	03/18/2015	03/19/15 11:58	
alpha-Chlordane	ND	1.0	1	B5C0465	03/18/2015	03/19/15 11:58	
beta-BHC	ND	1.0	1	B5C0465	03/18/2015	03/19/15 11:58	
Chlordane	ND	8.5	1	B5C0465	03/18/2015	03/19/15 11:58	
delta-BHC	ND	1.0	1	B5C0465	03/18/2015	03/19/15 11:58	
Dieldrin [2C]	33	2.0	1	B5C0465	03/18/2015	03/19/15 11:58	
Endosulfan I	ND	1.0	1	B5C0465	03/18/2015	03/19/15 11:58	
Endosulfan II	ND	2.0	1	B5C0465	03/18/2015	03/19/15 11:58	
Endosulfan sulfate	ND	2.0	1	B5C0465	03/18/2015	03/19/15 11:58	
Endrin	ND	2.0	1	B5C0465	03/18/2015	03/19/15 11:58	
Endrin aldehyde	ND	2.0	1	B5C0465	03/18/2015	03/19/15 11:58	
Endrin ketone	ND	2.0	1	B5C0465	03/18/2015	03/19/15 11:58	
gamma-BHC	ND	1.0	1	B5C0465	03/18/2015	03/19/15 11:58	
gamma-Chlordane	ND	1.0	1	B5C0465	03/18/2015	03/19/15 11:58	
Heptachlor	ND	1.0	1	B5C0465	03/18/2015	03/19/15 11:58	
Heptachlor epoxide	ND	1.0	1	B5C0465	03/18/2015	03/19/15 11:58	
Methoxychlor	ND	5.0	1	B5C0465	03/18/2015	03/19/15 11:58	
Toxaphene	ND	50	1	B5C0465	03/18/2015	03/19/15 11:58	
Surrogate: Decachlorobiphenyl	83.0 %	16 - 137		B5C0465	03/18/2015	03/19/15 11:58	
Surrogate: Tetrachloro-m-xylene	77.4 %	16 - 105		B5C0465	03/18/2015	03/19/15 11:58	



Leighton Consulting, Inc.

Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

PQL

Irvine , CA 92614 Reported: 03/19/2015

Result

QUALITY CONTROL SECTION

Organochlorine Pesticides by EPA 8081 - Quality Control

Spike

Source

% Rec

RPD

	Result	1 QL	Брікс	Bource		/0 ICCC		KI D	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B5C0465 - GCSEMI_PCB/	PEST_S								
- Blank (B5C0465-BLK1)	_			Prepare	d: 3/18/2015	Analyzed: 3/19	/2015		
4,4'-DDD	ND	2.0			NR				
4,4'-DDD [2C]	ND	2.0			NR				
4,4′-DDE	ND	2.0			NR				
4,4'-DDE [2C]	ND	2.0			NR				
4,4′-DDT	ND	2.0			NR				
4,4'-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				



Leighton Consulting, Inc.

Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/19/2015

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B5C0465 - GCSEMI_PCB/PES	T S (continued)								
Blank (B5C0465-BLK1) - Continued	i_s (continueu)			Prepared	d: 3/18/2015 A	Analyzed: 3/19/	2015		
Heptachlor epoxide [2C]	ND	1.0		1	NR	,			
Methoxychlor	ND	5.0			NR				
Methoxychlor [2C]	ND	5.0			NR				
Foxaphene	ND	50			NR				
Гохарнене [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	12.57		16.6667		75.4	16 - 137			
Surrogate: Decachlorobiphenyl [2C]	12.59		16.6667		75.6	16 - 137			
Surrogate: Tetrachloro-m-xylene	12.47		16.6667		74.8	16 - 105			
Surrogate: Tetrachloro-m-xylene [2C]	12.79		16.6667		7 4 .8	16 - 105			
	12.//		10.0007						
LCS (B5C0465-BS1)				Prepared	d: 3/18/2015 A	Analyzed: 3/19/	2015		
,4´-DDD	13.3930	2.0	16.6667		80.4	58 - 100			
4,4′-DDD [2C]	14.0193	2.0	16.6667		84.1	58 - 100			
l,4´-DDE	14.1732	2.0	16.6667		85.0	65 - 99			
,4´-DDE [2C]	14.8235	2.0	16.6667		88.9	65 - 99			
-,4´-DDT	13.3072	2.0	16.6667		79.8	39 - 116			
,4′-DDT [2C]	13.4662	2.0	16.6667		80.8	39 - 116			
Aldrin	13.8700	1.0	16.6667		83.2	57 - 94			
Aldrin [2C]	14.4402	1.0	16.6667		86.6	57 - 94			
llpha-BHC	13.5610	1.0	16.6667		81.4	58 - 84			
lpha-BHC [2C]	14.0062	1.0	16.6667		84.0	58 - 84			
llpha-Chlordane	13.8250	1.0	16.6667		82.9	58 - 96			
lpha-Chlordane [2C]	14.4112	1.0	16.6667		86.5	58 - 96			
peta-BHC	13.0245	1.0	16.6667		78.1	58 - 87			
eta-BHC [2C]	13.3797	1.0	16.6667		80.3	58 - 87			
lelta-BHC	14.1657	1.0	16.6667		85.0	18 - 75			L3
lelta-BHC [2C]	14.7840	1.0	16.6667		88.7	18 - 75			L3
Dieldrin	13.6055	2.0	16.6667		81.6	62 - 94			
Dieldrin [2C]	13.7450	2.0	16.6667		82.5	62 - 94			
Endosulfan I	12.8685	1.0	16.6667		77.2	58 - 90			
Endosulfan I [2C]	13.2758	1.0	16.6667		79.7	58 - 90			
Endosulfan II	13.2595	2.0	16.6667		79.6	63 - 95			
Endosulfan II [2C]	13.4582	2.0	16.6667		80.7	63 - 95			
Endosulfan sulfate	16.4165	2.0	16.6667		98.5	59 - 89			L3
Endosulfan Sulfate [2C]	16.4815	2.0	16.6667		98.9	59 - 89			L3
Endrin	13.9743	2.0	16.6667		83.8	64 - 96			
Endrin [2C]	14.2412	2.0	16.6667		85.4	64 - 96			
Endrin aldehyde	13.0182	2.0	16.6667		78.1	65 - 95			
Endrin aldehyde [2C]	13.7038	2.0	16.6667		82.2	65 - 95			
Endrin ketone	13.4513	2.0	16.6667		80.7	59 - 101			
Endrin ketone [2C]	13.5082	2.0	16.6667		81.0	59 - 101			



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/19/2015

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B5C0465 - GCSEMI_PCB/PES	T_S (continued)							
LCS (B5C0465-BS1) - Continued				Prepared	: 3/18/2015	Analyzed: 3/19/	2015		
gamma-BHC	13.8350	1.0	16.6667		83.0	63 - 89			
gamma-BHC [2C]	14.3990	1.0	16.6667		86.4	63 - 89			
gamma-Chlordane	13.8437	1.0	16.6667		83.1	61 - 95			
gamma-Chlordane [2C]	14.2912	1.0	16.6667		85.7	61 - 95			
Heptachlor	14.2130	1.0	16.6667		85.3	65 - 102			
Heptachlor [2C]	14.5852	1.0	16.6667		87.5	65 - 102			
Heptachlor epoxide	13.9460	1.0	16.6667		83.7	61 - 95			
Heptachlor epoxide [2C]	14.3002	1.0	16.6667		85.8	61 - 95			
Methoxychlor	13.7193	5.0	16.6667		82.3	29 - 128			
Methoxychlor [2C]	12.6877	5.0	16.6667		76.1	29 - 128			
Surrogate: Decachlorobiphenyl	13.56		16.6667		81.4	16 - 137			
Surrogate: Decachlorobiphenyl [2C]	13.49		16.6667		80.9	16 - 137			
Surrogate: Tetrachloro-m-xylene	13.34		16.6667		80.1	16 - 105			
urrogate: Tetrachloro-m-xylene [2C]	13.81		16.6667		82.9	16 - 105			
Matrix Spike (B5C0465-MS1)		Source: 1500	847-48	Prepared	: 3/18/2015	Analyzed: 3/19/	2015		
,4´-DDD	13.7897	2.0	16.6667	ND	82.7	27 - 123			
,4′-DDD [2C]	14.4150	2.0	16.6667	ND	86.5	27 - 123			
,4´-DDE	14.5283	2.0	16.6667	ND	87.2	28 - 126			
,4′-DDE [2C]	15.1865	2.0	16.6667	ND	91.1	28 - 126			
,4′-DDT	13.9278	2.0	16.6667	ND	83.6	12 - 149			
I,4´-DDT [2C]	14.3732	2.0	16.6667	ND	86.2	12 - 149			
Aldrin	14.0705	1.0	16.6667	ND	84.4	29 - 116			
Aldrin [2C]	14.7202	1.0	16.6667	ND	88.3	29 - 116			
lpha-BHC	14.0178	1.0	16.6667	ND	84.1	27 - 104			
lpha-BHC [2C]	14.5227	1.0	16.6667	ND	87.1	27 - 104			
lpha-Chlordane	14.2207	1.0	16.6667	ND	85.3	14 - 130			
lpha-Chlordane [2C]	14.7487	1.0	16.6667	ND	88.5	14 - 130			
eta-BHC	13.5192	1.0	16.6667	ND	81.1	20 - 115			
peta-BHC [2C]	13.8423	1.0	16.6667	ND	83.1	20 - 115			
lelta-BHC	15.0513	1.0	16.6667	ND	90.3	8 - 78			M1
lelta-BHC [2C]	15.6353	1.0	16.6667	ND	93.8	8 - 78			M1
Dieldrin	46.6110	2.0	16.6667	31.4797	90.8	20 - 134			
Dieldrin [2C]	49.7183	2.0	16.6667	33.0995	99.7	20 - 134			
Endosulfan I	13.2175	1.0	16.6667	ND	79.3	27 - 114			
Endosulfan I [2C]	13.5702	1.0	16.6667	ND	81.4	27 - 114			
Endosulfan II	13.7878	2.0	16.6667	ND	82.7	16 - 125			
Endosulfan II [2C]	13.7673	2.0	16.6667	ND	82.6	16 - 125			
Endosulfan sulfate	16.9447	2.0	16.6667	ND	102	1 - 126			
Endosulfan Sulfate [2C]	17.0665	2.0	16.6667	ND	102	1 - 126			
Endrin	14.4610	2.0	16.6667	ND	86.8	33 - 122			



Endosulfan I [2C]

Certificate of Analysis

Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine , CA 92614 Reported: 03/19/2015

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B5C0465 - GCSEMI_PCB/PEST_	S (continued)							
Matrix Spike (B5C0465-MS1) - Continued		Source: 1500	847-48	Prepared	: 3/18/2015	Analyzed: 3/19/	2015		
Endrin [2C]	14.6247	2.0	16.6667	ND	87.7	33 - 122			
Endrin aldehyde	13.2582	2.0	16.6667	ND	79.5	0 - 137			
Endrin aldehyde [2C]	13.2370	2.0	16.6667	ND	79.4	0 - 137			
Endrin ketone	14.0788	2.0	16.6667	ND	84.5	10 - 126			
Endrin ketone [2C]	14.5530	2.0	16.6667	ND	87.3	10 - 126			
gamma-BHC	14.3640	1.0	16.6667	ND	86.2	30 - 111			
gamma-BHC [2C]	14.8948	1.0	16.6667	ND	89.4	30 - 111			
gamma-Chlordane	14.3247	1.0	16.6667	ND	85.9	16 - 130			
gamma-Chlordane [2C]	14.6210	1.0	16.6667	ND	87.7	16 - 130			
Heptachlor	14.6172	1.0	16.6667	ND	87.7	34 - 127			
Heptachlor [2C]	15.0740	1.0	16.6667	ND	90.4	34 - 127			
Heptachlor epoxide	14.2955	1.0	16.6667	ND	85.8	19 - 130			
Heptachlor epoxide [2C]	14.6560	1.0	16.6667	ND	87.9	19 - 130			
Methoxychlor	14.2172	5.0	16.6667	ND	85.3	16 - 153			
Methoxychlor [2C]	13.6008	5.0	16.6667	ND	81.6	16 - 153			
Surrogate: Decachlorobiphenyl	13.54		16.6667		81.3	16 - 137			
Surrogate: Decachlorobiphenyl [2C]	13.35		16.6667		80.1	16 - 137			
Surrogate: Tetrachloro-m-xylene	13.13		16.6667		78.8	16 - 105			
Surrogate: Tetrachloro-m-xylene [2C]	13.47		16.6667		80.8	16 - 105			
, , ,	13.77	G 1500		D 1			2015		
Matrix Spike Dup (B5C0465-MSD1)		Source: 1500	847-48	•		Analyzed: 3/19/	2015		
4,4'-DDD	14.3060	2.0	16.6667	ND	85.8	27 - 123	3.68	20	
4,4'-DDD [2C]	15.0708	2.0	16.6667	ND	90.4	27 - 123	4.45	20	
4,4´-DDE	15.1517	2.0	16.6667	ND	90.9	28 - 126	4.20	20	
4,4′-DDE [2C]	15.8165	2.0	16.6667	ND	94.9	28 - 126	4.06	20	
4,4'-DDT	14.6493	2.0	16.6667	ND	87.9	12 - 149	5.05	20	
4,4'-DDT [2C]	15.0980	2.0	16.6667	ND	90.6	12 - 149	4.92	20	
Aldrin	14.7118	1.0	16.6667	ND	88.3	29 - 116	4.46	20	
Aldrin [2C]	15.3288	1.0	16.6667	ND	92.0	29 - 116	4.05	20	
alpha-BHC	14.6803	1.0	16.6667	ND	88.1	27 - 104	4.62	20	
alpha-BHC [2C]	15.1233	1.0	16.6667	ND	90.7	27 - 104	4.05	20	
alpha-Chlordane	14.8445	1.0	16.6667	ND	89.1	14 - 130	4.29	20	
alpha-Chlordane [2C]	15.3693	1.0	16.6667	ND	92.2	14 - 130	4.12	20	
beta-BHC	14.1687	1.0	16.6667	ND	85.0	20 - 115	4.69	20	
beta-BHC [2C]	14.4297	1.0	16.6667	ND	86.6	20 - 115	4.15	20	
delta-BHC	15.7848	1.0	16.6667	ND	94.7	8 - 78	4.76	20	M1
delta-BHC [2C]	16.3765	1.0	16.6667	ND	98.3	8 - 78	4.63	20	M1
Dieldrin	48.2370	2.0	16.6667	31.4797	101	20 - 134	3.43	20	
Dieldrin [2C]	51.4495	2.0	16.6667	33.0995	110	20 - 134	3.42	20	
Endosulfan I	13.7957	1.0	16.6667	ND	82.8	27 - 114	4.28	20	

20

4.24

16.6667

ND

85.0

27 - 114

14.1585

1.0



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 03/19/2015

	Result	PQL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Datah DECOACE COSEMI DOD/DEC	T C (conf 1	Λ							
Batch B5C0465 - GCSEMI_PCB/PES	o1_5 (continued	IJ							
Matrix Spike Dup (B5C0465-MSD1) - Co	ntinued	Source: 1500	0847-48	Prepared	d: 3/18/2015 2	Analyzed: 3/19/	/2015		
Endosulfan II	14.4170	2.0	16.6667	ND	86.5	16 - 125	4.46	20	
Endosulfan II [2C]	14.3198	2.0	16.6667	ND	85.9	16 - 125	3.93	20	
Endosulfan sulfate	17.7925	2.0	16.6667	ND	107	1 - 126	4.88	20	
Endosulfan Sulfate [2C]	17.8528	2.0	16.6667	ND	107	1 - 126	4.50	20	
Endrin	14.9967	2.0	16.6667	ND	90.0	33 - 122	3.64	20	
Endrin [2C]	15.4248	2.0	16.6667	ND	92.5	33 - 122	5.33	20	
Endrin aldehyde	13.8827	2.0	16.6667	ND	83.3	0 - 137	4.60	20	
Endrin aldehyde [2C]	13.8373	2.0	16.6667	ND	83.0	0 - 137	4.43	20	
Endrin ketone	14.7575	2.0	16.6667	ND	88.5	10 - 126	4.71	20	
Endrin ketone [2C]	15.2692	2.0	16.6667	ND	91.6	10 - 126	4.80	20	
gamma-BHC	15.0063	1.0	16.6667	ND	90.0	30 - 111	4.37	20	
gamma-BHC [2C]	15.4977	1.0	16.6667	ND	93.0	30 - 111	3.97	20	
gamma-Chlordane	14.9958	1.0	16.6667	ND	90.0	16 - 130	4.58	20	
gamma-Chlordane [2C]	15.2547	1.0	16.6667	ND	91.5	16 - 130	4.24	20	
Heptachlor	15.2707	1.0	16.6667	ND	91.6	34 - 127	4.37	20	
Heptachlor [2C]	15.7313	1.0	16.6667	ND	94.4	34 - 127	4.27	20	
Heptachlor epoxide	14.9397	1.0	16.6667	ND	89.6	19 - 130	4.41	20	
Heptachlor epoxide [2C]	15.2658	1.0	16.6667	ND	91.6	19 - 130	4.08	20	
Methoxychlor	14.8710	5.0	16.6667	ND	89.2	16 - 153	4.50	20	
Methoxychlor [2C]	14.1662	5.0	16.6667	ND	85.0	16 - 153	4.07	20	
Surrogate: Decachlorobiphenyl	13.75		16.6667		82.5	16 - 137			
Surrogate: Decachlorobiphenyl [2C]	13.72		16.6667		82.3	16 - 137			
Surrogate: Tetrachloro-m-xylene	13.50		16.6667		81.0	16 - 105			
Surrogate: Tetrachloro-m-xylene [2C]	13.78		16.6667		82.7	16 - 105			



Leighton Consulting, Inc. Project Number: Munzer, 10948.001

17781 Cowan Street Report To: Brynn McCulloch

Irvine, CA 92614 Reported: 03/19/2015

Notes and Definitions

M1 Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.

L3 Laboratory control sample outside in-house established limits but within method criteria.

ND Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL,

analyte is not detected at or above the Method Detection Limit (MDL)

PQL Practical Quantitation Limit

MDL Method Detection Limit

NR Not Reported

RPD Relative Percent Difference

CA2 CA-ELAP (CDPH)

OR1 OR-NELAP (OSPHL)

TX1 TX-NELAP (TCEQ)

Notes:

(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.

(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.

(3) Results are wet unless otherwise specified.

Rachelle Arada

From:

Diane Galvan

Sent:

Monday, March 16, 2015 10:49 AM

To:

Rachelle Arada

Cc:

customer.relations@atlglobal.com

Subject:

FW: Results/EDD - Munzer, 10948.001 (1500847)

From: Brynn McCulloch [mailto:bmcculloch@leightongroup.com]

Sent: Monday, March 16, 2015 10:33 AM

To: Diane Galvan

Subject: RE: Results/EDD - Munzer, 10948.001 (1500847)

Diane,

Can you please analyze sample LB48-5.0 collected 9:06am (incorrectly labeled at LB48-2.5 on our original COCs) for OCPs on 3 day TAT?

Thanks!

Brynn McCulloch

Sr. Project Geologist 17781 Cowan Irvine, CA 92614 949-394-2306 cell 949-681-4287 office

Leighton

Solutions You Can Build On



Please don't print this e-mail unless you really need to.

From: Diane Galvan [mailto:Diane@atlglobal.com]

Sent: Friday, March 13, 2015 4:39 PM

To: Brynn McCulloch

Subject: Results/EDD - Munzer, 10948.001 (1500847)

Hi Brynn,

Here are the results and EDD for the project referenced above.

Thanks,

Diane Galvan Project Manager



APPENDIX E – SITE PHOTOGRAPHS



Photo: 1

Description:

View of Site looking north from Francis Avenue (main entrance).



Photo: 2

Description:

View of Site looking east from Francis Avenue (main entrance).





Photo: 3

Description:

View of Site looking southwest of southwest corner of Site.



Photo: 4

Description:

View of previous basement and concrete foundation located on southwestern portion of Site.





Photo: 5

Description:

View of Site looking northwest of southwest corner of Site.



Photo: 6

Description:

View of northern and eastern side of western concrete shed looking southwest, UST piping, former fueling station, tires and miscellaneous debris pictured, southwest portion of Site.





Photo: 7

Description:

View of eastern and southern side of western concrete shed looking west, tires and miscellaneous debris pictured, southwest portion of Site.



Photo: 8

Description:

View of gasoline canister and oil container stored on top of tractor attachment and water drum located near western concrete shed on southwestern portion of Site.





Photo: 9

Description:

View of interior western concrete shed, miscellaneous storage containing oil canisters pictured, western portion of Site.



Photo: 10

Description:

View of Site looking east of central portion of Site, pole-mounted transformer pictured.





Photo: 11

Description:

View of Site looking north of northern boundary of Site.



Photo: 12

Description:

View of Site looking southeast of southern portion of Site, covered animal enclosures pictured.





Photo: 13

Description:

View of Site looking south of southern portion of Site, covered animal enclosures and northeastern corrugated metal shed pictured.



Photo: 14

Description:

View of Site looking south of southern portion of Site, northeastern corrugated metal shed, main entrance area and trailer pictured.





Photo: 15

Description:

View of central eastern shed and wood debris pile located near western side of northeastern corrugated metal shed, northern portion of Site,



Photo: 16

Description:

View of debris piles located near southern side of northeastern corrugated metal shed, northern portion of Site.





Photo: 17

Description:

View of interior northeastern corrugated metal shed, animal enclosures and miscellaneous debris pictured, northern portion of Site.



Photo: 18

Description:

View of interior northeastern corrugated metal shed, paint buckets and oil cans pictured, northern portion of Site.





Photo: 19

Description:

View of Site looking north of northeastern portion of Site, wood debris piles and chain-link fence pictured.



Photo: 20

Description:

View of Site looking south of northeastern portion of Site, undeveloped vacant land and area of depression pictured.





Photo: 21

Description:

View of Site looking west of southern portion of Site from central portion of Site, covered animal enclosures pictured.



Photo: 22

Description:

View of previous building foundation and apparent sewer piping, southeastern corner of Site.





Photo: 23

Description:

View of Site looking east of southern portion of Site near main entrance area, southern corrugated metal shed and miscellaneous debris pictured.



Photo: 24

Description:

View of interior southern corrugated metal shed, miscellaneous debris pictured, located on southern portion of Site.





Photo: 25

Description:

View of presumed slaughter pit with green algae water, located southwest of western concrete shed, western portion of Site.



Photo: 26

Description:

View of UST vent pipes and possible UST location, located west of western concrete shed, western portion of Site.





Photo: 27

Description:

View of Site looking southeast of empty water AST and western concrete shed and miscellaneous debris, western portion of Site.



Photo: 28

Description:

View of Site looking northeast of mulch area observed on northern portion of Site.





Photo: 29

Description:

View of Site looking east of main residential building located on residential parcel of Site.



Photo: 30

Description:

View of Site looking east of main residential building located on residential parcel of Site, presumed area of septic tank and wood chip pile pictured.





Photo: 31

Description:

View of Site looking north of construction material storage area located on western portion of residential parcel of Site.



Photo: 32

Description:

View of Site looking northeast of studio home located on residential parcel of Site.





Photo: 33

Description:

View of Site looking northeast of mobile home located on residential parcel of Site.



Photo: 34

Description:

View of Site looking east of storage area and bird cages located on northeastern portion of residential parcel on Site.





Photo: 35

Description:

View of Site looking northwest of storage shed located on northwestern portion of residential parcel on Site.



Photo: 36

Description:

View of Site looking east of dry swimming pool located on central portion of residential parcel on Site.





Photo: 37

Description:

View of Site looking east of patio area located on central portion of residential parcel on Site.



Photo: 38

Description:

View looking north of north adjacent property: 11588 Yorba Avenue.





Photo: 39

Description:

Additional view looking north of north adjacent property: 11588 Yorba Avenue, wood and miscellaneous debris stockpile pictured.



Photo: 40

Description:

View looking northeast of northeast adjacent properties: 11617 Yorba Avenue (background).





Photo: 41

Description:

View looking northeast of east adjacent properties across Yorba Avenue.



Photo: 42

Description:

View looking south of south adjacent properties across Francis Avenue (background).





Photo: 43

Description:

View looking northwest of west adjacent properties (background).



APPENDIX F – LABORATORY ANALYTICAL REPORTS



02 August 2016

Ravi Limaye Tetra Tech -- Irvine 17885 Von Karman Ave. #500 Irvine, CA 92614

Saniel & Chivy

RE: Borstein - Chino

Enclosed are the results of analyses for samples received by the laboratory on 07/22/16 11:39. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Chavez

Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/02/16 12:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LB49-S1-0.5	T161658-04	Soil	07/21/16 10:46	07/22/16 11:39
LB49-N1-0.5	T161658-07	Soil	07/21/16 11:00	07/22/16 11:39
LB49-E1-0.5	T161658-14	Soil	07/21/16 11:40	07/22/16 11:39
LB49-W1-0.5	T161658-17	Soil	07/21/16 11:46	07/22/16 11:39
LB48-E1-0.5	T161658-23	Soil	07/21/16 12:08	07/22/16 11:39
LB48-E1-2.5	T161658-24	Soil	07/21/16 12:08	07/22/16 11:39
LB48-W1-0.5	T161658-27	Soil	07/21/16 12:18	07/22/16 11:39
LB48-W1-1.5	T161658-28	Soil	07/21/16 12:18	07/22/16 11:39
LB48-S1-0.5	T161658-42	Soil	07/21/16 12:48	07/22/16 11:39
LB48-S1-1.5	T161658-43	Soil	07/21/16 12:48	07/22/16 11:39
LB48-N1-0.5	T161658-47	Soil	07/21/16 12:58	07/22/16 11:39
LB48-N1-1.5	T161658-48	Soil	07/21/16 12:58	07/22/16 11:39
LB10-0.5	T161658-57	Soil	07/21/16 13:24	07/22/16 11:39
LB10-2.5	T161658-59	Soil	07/21/16 13:24	07/22/16 11:39

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500 Project Number: [none] Reported:
Irvine CA, 92614 Project Manager: Ravi Limaye 08/02/16 12:09

DETECTIONS SUMMARY

Sample ID:	LB49-S1-0.5	Laborato	ry ID:	T161658-04		
		I	Reporting			
Analyte		Result	Limit	Units	Method	Notes
4,4'-DDE		45	5.0	ug/kg	EPA 8081A	
Dieldrin		180	50	ug/kg	EPA 8081A	
4,4'-DDT		22	5.0	ug/kg	EPA 8081A	
Sample ID:	LB49-N1-0.5	Laborato	ry ID:	T161658-07		

No Results Detected

Sample ID:	ample ID: LB49-E1-0.5		tory ID:	T161658-14		
			Reporting			
Analyte		Result	Limit	Units	Method	Notes
4,4'-DDE		12	5.0	ug/kg	EPA 8081A	
Dieldrin		120	50	ug/kg	EPA 8081A	
4,4'-DDT		7.1	5.0	ug/kg	EPA 8081A	
Sample ID:	LB49-W1-0.5	Labora	tory ID:	T161658-17		
			Reporting			
Analyte		Result	Limit	Units	Method	Notes
4,4′-DDE		6.9	5.0	ug/kg	EPA 8081A	
Dieldrin		530	50	ug/kg	EPA 8081A	
4,4′-DDT		7.7	5.0	ug/kg	EPA 8081A	
Sample ID:	LB48-E1-0.5	Labora	tory ID:	T161658-23		
			Reporting			
Analyte		Result	Limit	Units	Method	Notes
Aldrin		14	5.0	ug/kg	EPA 8081A	
4,4′-DDE		38	5.0	ug/kg	EPA 8081A	
Dieldrin		2000	50	ug/kg	EPA 8081A	Е

SunStar Laboratories, Inc.

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Samil & Chivy



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/02/16 12:09

Sample ID:	LB48-E1-0.5	Labora	tory ID:	T161658-23		
			Reporting			
Analyte		Result	Limit	Units	Method	Notes
Endrin		170	50	ug/kg	EPA 8081A	
4,4'-DDT		40	5.0	ug/kg	EPA 8081A	
Endrin keto	ne	120	50	ug/kg	EPA 8081A	
Sample ID:	LB48-E1-2.5	Labora	tory ID:	T161658-24		
			Reporting			
Analyte		Result	Limit	Units	Method	Notes
Dieldrin		1200	50	ug/kg	EPA 8081A	Е
Endrin keto	ne	6.1	5.0	ug/kg	EPA 8081A	
Sample ID:	LB48-W1-0.5	Labora	tory ID:	T161658-27		
			Reporting			
Analyte		Result	Limit	Units	Method	Notes
4,4′-DDE		8.1	5.0	ug/kg	EPA 8081A	
Dieldrin		1300	50	ug/kg	EPA 8081A	E
Endrin		6.2	5.0	ug/kg	EPA 8081A	
4,4′-DDT		9.4	5.0	ug/kg	EPA 8081A	
Endrin keto	ne	16	5.0	ug/kg	EPA 8081A	
Sample ID:	LB48-W1-1.5	Labora	tory ID:	T161658-28		
			Reporting			
Analyte		Result	Limit	Units	Method	Notes
Dieldrin		19	5.0	ug/kg	EPA 8081A	
Sample ID:	LB48-S1-0.5	Labora	tory ID:	T161658-42		
			Reporting			
Analyte		Result	Limit	Units	Method	Notes
4,4′-DDE		5.9	5.0	ug/kg	EPA 8081A	
Dieldrin		330	50	ug/kg	EPA 8081A	

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Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/02/16 12:09

Sample ID:	LB48-S1-1.5	Labor	atory ID:	T161658-43		
			Reporting			
Analyte		Result	Limit	Units	Method	Notes
Dieldrin		180	50	ug/kg	EPA 8081A	
Sample ID:	LB48-N1-0.5	Labor	atory ID:	T161658-47		
			Reporting			
Analyte		Result	Limit	Units	Method	Notes
Dieldrin		160	50	ug/kg	EPA 8081A	
Sample ID:	LB48-N1-1.5	Labor	atory ID:	T161658-48		
			Reporting			
Analyte		Result	Limit	Units	Method	Notes
Dieldrin		47	5.0	ug/kg	EPA 8081A	
Sample ID:	LB10-0.5	Labor	atory ID:	T161658-57		
No Results Do	etected					
Sample ID:	LB10-2.5	Labor	atory ID:	T161658-59		

No Results Detected

SunStar Laboratories, Inc.

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Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/02/16 12:09

LB49-S1-0.5 T161658-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Organochlorine Pesticides by EPA Mo	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6072619	07/26/16	08/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	45	5.0	"	"	"	"	"	"	
Dieldrin	180	50	"	10	"	"	"	"	
Endrin	ND	5.0	"	1	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	22	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		41.0 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		49.4 %	35-	140	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Chavez, Project Manager

Saniel of Chivy



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/02/16 12:09

LB49-N1-0.5 T161658-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6072619	07/26/16	08/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4′-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		71.1 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		100 %	35-	140	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/02/16 12:09

LB49-E1-0.5 T161658-14 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Mo	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6072619	07/26/16	08/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	12	5.0	"	"	"	"	"	"	
Dieldrin	120	50	"	10	"	"	"	"	
Endrin	ND	5.0	"	1	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4´-DDT	7.1	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		69.1 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		116 %	35-	140	"	"	"	"	

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Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/02/16 12:09

LB49-W1-0.5 T161658-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6072619	07/26/16	08/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	6.9	5.0	"	"	"	"	"	"	
Dieldrin	530	50	"	10	"	"	"	"	
Endrin	ND	5.0	"	1	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4′-DDT	7.7	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		77.2 %	35-	140	"	"	"	"	<u> </u>
Surrogate: Decachlorobiphenyl		72.9 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager

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Tetra Tech -- Irvine Project: Borstein - Chino

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LB48-E1-0.5 T161658-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Mo	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6072619	07/26/16	08/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	14	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	38	5.0	"	"	"	"	"	"	
Dieldrin	2000	50	"	10	"	"	"	"	E
Endrin	170	50	"	"	"	"	"	"	
4,4´-DDD	ND	5.0	"	1	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4´-DDT	40	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	120	50	"	10	"	"	"	"	
Toxaphene	ND	200	"	1	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		48.0 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		103 %	35-	140	"	"	"	"	

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LB48-E1-2.5 T161658-24 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6072619	07/26/16	08/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	1200	50	"	10	"	"	"	"	Е
Endrin	ND	5.0	"	1	"	"	"	"	
4,4´-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4′-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	6.1	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		90.0 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		102 %	35-	140	"	"	"	"	

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LB48-W1-0.5 T161658-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Mo	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6072619	07/26/16	08/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	8.1	5.0	"	"	"	"	"	"	
Dieldrin	1300	50	"	10	"	"	"	"	E
Endrin	6.2	5.0	"	1	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	9.4	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	16	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		56.6 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		72.1 %	35-	140	"	"	"	"	

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LB48-W1-1.5 T161658-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6072619	07/26/16	08/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	19	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4´-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		69.7 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		89.3 %	35-	140	"	"	"	"	

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LB48-S1-0.5 T161658-42 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6072619	07/26/16	08/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	5.9	5.0	"	"	"	"	"	"	
Dieldrin	330	50	"	10	"	"	"	"	
Endrin	ND	5.0	"	1	"	"	"	"	
4,4´-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4´-DDT	12	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		88.5 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		93.1 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

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LB48-S1-1.5 T161658-43 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aborator	ies, Inc.					
Organochlorine Pesticides by EPA Mo	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6072619	07/26/16	08/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	180	50	"	10	"	"	"	"	
Endrin	ND	5.0	"	1	"	"	"	"	
4,4´-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4′-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		70.3 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		71.6 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/02/16 12:09

LB48-N1-0.5 T161658-47 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6072619	07/26/16	08/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4′-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	160	50	"	10	"	"	"	"	
Endrin	ND	5.0	"	1	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4′-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		68.2 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		92.2 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

 17885 Von Karman Ave. #500
 Project Number: [none]
 Reported:

 Irvine CA, 92614
 Project Manager: Ravi Limaye
 08/02/16 12:09

LB48-N1-1.5 T161658-48 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6072619	07/26/16	08/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	47	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		77.8 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		80.4 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/02/16 12:09

LB10-0.5 T161658-57 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6072619	07/26/16	08/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4´-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		73.3 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		101 %	35-	140	"	"	"	"	

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/02/16 12:09

LB10-2.5 T161658-59 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6072619	07/26/16	08/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		79.1 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		114 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager

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Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/02/16 12:09

Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (6072619-BLK1)				Prepared: 07/26/	16 Analyzed: 08	/01/16
alpha-BHC	ND	5.0	ug/kg			
gamma-BHC (Lindane)	ND	5.0	"			
eta-BHC	ND	5.0	"			
lelta-BHC	ND	5.0	"			
Ieptachlor	ND	5.0	"			
ldrin	ND	5.0	"			
eptachlor epoxide	ND	5.0	"			
amma-Chlordane	ND	5.0	"			
lpha-Chlordane	ND	5.0	"			
Endosulfan I	ND	5.0	"			
-,4'-DDE	ND	5.0	"			
Dieldrin	ND	5.0	"			
Endrin	ND	5.0	"			
,4′-DDD	ND	5.0	"			
Endosulfan II	ND	5.0	"			
4,4′-DDT	ND	5.0	"			
ndrin aldehyde	ND	5.0	"			
indosulfan sulfate	ND	5.0	"			
1ethoxychlor	ND	10	"			
ndrin ketone	ND	5.0	"			
oxaphene	ND	200	"			
urrogate: Tetrachloro-meta-xylene	7.05		"	9.98	70.6	35-140
urrogate: Decachlorobiphenyl	9.87		"	9.98	98.9	35-140
LCS (6072619-BS1)				Prepared: 07/26/	16 Analyzed: 08	/01/16
gamma-BHC (Lindane)	23.7	5.0	ug/kg	39.9	59.4	40-120
Ieptachlor	26.1	5.0	"	39.9	65.6	40-120
Aldrin	21.8	5.0	"	39.9	54.6	40-120
Dieldrin	24.5	5.0	"	39.9	61.5	40-120
ndrin	27.4	5.0	"	39.9	68.8	40-120
,4′-DDT	23.8	5.0	"	39.9	59.8	33-147
urrogate: Tetrachloro-meta-xylene	6.74		"	9.97	67.6	35-140
urrogate: Decachlorobiphenyl	10.3		"	9.97	103	35-140

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/02/16 12:09

Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6072619 - EPA 3550 ECD/GCMS										
Matrix Spike (6072619-MS1)	Sou	rce: T161658-	04	Prepared: (07/26/16 A	nalyzed: 08	/01/16			
gamma-BHC (Lindane)	26.0	5.0	ug/kg	39.8	ND	65.3	30-120			
Heptachlor	26.4	5.0	"	39.8	ND	66.3	30-120			
Aldrin	20.1	5.0	"	39.8	ND	50.4	30-120			
Dieldrin	156	5.0	"	39.8	182	NR	30-120			QM-07
Endrin	26.9	5.0	"	39.8	ND	67.5	30-120			
4,4′-DDT	62.6	5.0	"	39.8	21.9	102	30-120			
Surrogate: Tetrachloro-meta-xylene	9.23		"	9.96		92.7	35-140			
Surrogate: Decachlorobiphenyl	12.2		"	9.96		122	35-140			
Matrix Spike Dup (6072619-MSD1)	Sou	rce: T161658-	04	Prepared: (07/26/16 A	nalyzed: 08	/01/16			
gamma-BHC (Lindane)	18.7	5.0	ug/kg	39.9	ND	46.9	30-120	32.9	30	QM-07
Heptachlor	27.9	5.0	"	39.9	ND	70.0	30-120	5.46	30	
Aldrin	19.0	5.0	"	39.9	ND	47.6	30-120	5.64	30	
Dieldrin	129	5.0	"	39.9	182	NR	30-120	NR	30	QM-07
Endrin	28.6	5.0	"	39.9	ND	71.7	30-120	5.97	30	
4,4′-DDT	40.7	5.0	"	39.9	21.9	47.1	30-120	73.8	30	QM-07
Surrogate: Tetrachloro-meta-xylene	6.48		"	9.97		65.0	35-140			
Surrogate: Decachlorobiphenyl	11.2		"	9.97		112	35-140			

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Daniel Chavez, Project Manager

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Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/02/16 12:09

Notes and Definitions

QM-07 The spike recovery and or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable

LCS recovery.

E The concentration indicated for this analyte is above the calibration range of the instrument. This value should be considered as an

estimate as the actual value may be higher.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Chain of Cuedy Record

Providing Quality Analytical Services Nationwide 25712 Commercentre Drive, Lake Forest, CA 92630 949-297-5020

Client: Tetra Tech Address: 17855 Von Kamon Avenue, Sude 500,				-					-	-							Pag	e:		Of _	8-			
Address: 17855 Von Kom Phone: (949) 804 - 5038 Project Manager: Roy: Li					- -			Coll	ect l ecto ch #:	r: H	~ 0 1	240	44		1.'nc	<u> </u>			-	 ject #:	<u>.</u>			
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							r only					on Chain	22 Metals	etals		٠				12.1	TA. ₩#.)			ners
						+ OXY	втех, оху		8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22	6020 ICP-MS Metals	OCF3			aboratory ID #						Total # of containers
Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260	8260	8270	8021	8015	8015	8015	60,10/	6020	8081			Labor		Commer	nts/Pres	servative		Total
LB49-02-05	7/2/16	1036	Soil	Achte											X	-		6 1		HOLD	_			
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	7-22-16	1139	1	Men		7/2	z fi	6	1:39		Re	eceiv	ved g	ood	cond	ition/	cold	4.6			* **			
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Sample disposal Instructions:	Disposal @ \$2.00	each	Retur	n to client		Pick	(up																	

Su tar Laboratories, Inc.

Chain of Cuandy Record

Providing Quality Analytical Services Nationwide 25712 Commercentre Drive, Lake Forest, CA 92630 949-297-5020

Client: Tetra Tech				ate:_	7/2	21/10	_ما				Pag	ge:	<u> ユ</u>	Of	8	_
Address: 17855 Vin Karmon Avenue, Snite 500, Irving C	<u> </u>		· F	rojec	Nan	ne:_	Bor	Hein	- C	hino						_
Phone: (949) 809-5038 Fax: (949) 809-				Collec							Clie	nt Pr	oject #:			
Project Manager: Rowi Limny e				Batch:		T	161	658	i		_ EDF			."		_
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Sample ID Sampled Time Type		8260 8260	8260 BTEX,	8270 8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon	6010/7000 Title 22 Metals	6020 ICP-MS Metals	(8 o &)	Laboratory ID		Comme	nts/Prese	rvative	Total # of containers
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Sample disposal Instructions: Disposal @ \$2.00 each Re	ırn to client	Pic	kup			urr	n aro	und t	ıme:	STANDAR	<u> </u>		<u>. Y</u>			

Sur ar Laboratories, Inc.

Chain of Cu dy Record

Providing Quality Analytical Services Nationwide 25712 Commercentre Drive, Lake Forest, CA 92630 949-297-5020

Client: Tehm Tech	Total Tech 17855 Von Karman Avenue, Snite 500, Irane, CA								e:									Page):	3	Of	- 8		-
Address: 17855 Von Karn	an Avenue, S	wite 500,	Imhe, CA	·	-										<u>Ch17</u>									-
Phone: (949)809-5038	•	_Fax: <u>_(</u> 9ฯ	4) 809-50	10				Col	lecto	or: <u> }</u>	tao	ると	ana				c	lien	Projec	xt #:				~
Project Manager: Kan Liv	maye				-			Bat	ch#	:	7	T16	165	² 8			E	DF 7	#:					-
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LB48-W2-25		1278																34						
LB48-W2-3,5		1228																35				-		
LB 48-W2-50		1228							Ĺ									36						
1848-52-0.5		1238		· \		_											_	37						<u> </u>
B 48-52-1.5		1238						`								_		38						<u> </u>
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Sample disposal Instructions: D	Disposal @ \$2.00	each	Return	to client		Picl	cup .											_	-			1		

Su tar Laboratories, Inc.

Chain of Cuandy Record

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive, Lake Forest, CA 92630 949-297-5020

Client: Tetra Tech		-					[Date	:	7/2	1/16						Page	ə:	4	Of _	8	_ ,	
Address: <u>17835 Von Korna</u> Phone: <u>(944) & 9 - 50 3 &</u>	Avenue	Suite 500,	Daving C	<u>h</u>															-			_	
		Fax: <u>_(ч</u> ұ	1)809-56	,10 ₁				Olle	ctor:	140	uo t	then.	<u>گ</u>				Clien	-	ect #:				
Project Manager: <u>الأسائل كم</u>	78						E	3atc	h #:_		71(916	58				EDF	#:				_	
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Sample ID	Date Sample	d Time	Sample Type	Container Type	8260	260 +	260 B	8270	8021 BTEX		015M	010/70	020 IC	1305			aboratory ID	(Commo	ote/Pro	servative	Total #	
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LB 10-1.5		1324								1		T					58		HOLD				1
LB10-25		1324								T				×			59					\top	٦
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	7-22-16		Page	Mars	7/	/22/	16	//:3	39	_	Rec	eive	l good	l con	dition/	cold	4.4						\dagger
Relinquished by: (signature)	Date	e / Time	Received	oy: (signature)		ı	uate	/ 11	ie									- ;					
Sample disposal Instructions: Di		000h	Dat	to client		Pickı					Turn a	irou	nd tin	ne:	STAND	ard			***				╛

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #:	T161658		
Client Name:	Totra Tech-J	Project:	Borstein-Chino
Delivered by:	☐ Client 🗵 SunSt	ar Courier 🔲 GSO	☐ FedEx ☐ Other
If Courier, Received by:	Dam	Date/Time Co	7-22-16 1030
Lab Received by:	Brian	Date/Time La Received:	7-22-16 1139
Total number of coolers re	eceived: o		
Temperature: Cooler #1	4.8 °C +/- the CF	$F(-0.2^{\circ}C) = u.6$	°C corrected temperature
Temperature: Cooler #2	°C +/- the CF	$(-0.2^{\circ}C) =$	°C corrected temperature
Temperature: Cooler #3	°C +/- the CF	$(-0.2^{\circ}C) =$	°C corrected temperature
Temperature criteria = 5 (no frozen containers)	≤6°C	Within criteria?	⊠Yes □No
If NO:			
Samples received	on ice?	□Yes	☐No → Complete Non-Conformance Sheet
If on ice, samples collected?	received same day	☐Yes → Acceptable	□No → Complete Non-Conformance Sheet
Custody seals intact on co	oler/sample		∐Yes ∐No* ⊠N/A
Sample containers intact			
•			⊠Yes □No*
Sample labels match Chai	n of Custody IDs		
			· ·
Sample labels match Chai	s received match COC	on COC	¥Yes □No*
Sample labels match Chai Total number of container	s received match COC		Yes □No* □Yes ☑No*
Sample labels match Chair Total number of container Proper containers received	s received match COC I for analyses requested of ted on COC/containers f ed in good condition wit	or analyses requested h correct temperatures,	Yes □No* □Yes ☑No* ☑Yes □No*
Sample labels match Chair Total number of container Proper containers received Proper preservative indicat Complete shipment received containers, labels, volume	s received match COC I for analyses requested of ted on COC/containers f ed in good condition with s preservatives and with	or analyses requested h correct temperatures, n method specified	☑Yes □No* □Yes ☑No* □Yes □No* □Yes □No* □Yes □No* □Yes □No* □Yes □No* □Yes □No* □Yes □No* □No* □No* □No* □No* □No* □No* □No*
Sample labels match Chair Total number of containers Proper containers received Proper preservative indicates Complete shipment received containers, labels, volume holding times	s received match COC I for analyses requested of ted on COC/containers f ed in good condition with s preservatives and with	or analyses requested h correct temperatures, n method specified	☐Yes ☐No* ☐Yes ☐No* ☐Yes ☐No* ☐Yes ☐No* ☐Yes ☐No*

Page 1 of 2

SAMPLE NON-CONFORMANCE SHEET

COOLE	RS							LABEI	S				
	Received ((received	COC	only)						sample	e ID / in	fo as on	the COC
	ing/Dama	•							mplete I	-			
Other	_	500							kings/Int				
CUSTOI		S					=	SAMPI					
Li None		••	1							T REC	EIVED	but list	ed on CC
□ Not I													D on CO
TEMPE		Temp	criteri	$a = 4^{\circ}C$	± 2°C	\circ	*		to the second				and not
	er/Sample						and the second	-					not CO
	perature E		termina.	e d	11.				ged in, C				
CHAIN			COC					,	ficient of				
	elinquish	•		date/tin	ne relii	auish	ed		oper co	•			• • •
	nplete inf	-							abeled a			vatives	. etc.
	not recei												D and te
CONTA			- J	1 1 1		-	18.9		preserve				
🗆 Leaki		□Br	oken				* * · · · · · · · · · · · · · · · · · ·			•			container
□ Extra	_	□ Mi						□ Othe		<i>'</i>			
	41 - 41												1.2
Comments										4		8 (4)	ta .
2		101	A ~\					10.1		^ • •			
Leceived													······································
omples 12	(LB49	~ E2 -1.	5) +	13 (LB	49 - E	2-25) conta	in some	water	from a	the cool	er they	Were St
								**					
ple fractioni	ing only if	broken co	ontainer	comproi	nises o	ther sa	mples or	if out of	temp rea	ding imp	oacts mor	e than o	ne coole
				T			T					3" · · · · 1."	Preser.
Fraction													
VOA		1									-		
			-	1							<u> </u>		
					.								
VOA													
VOA													



WORK ORDER

T161658

Client: Tetra Tech -- Irvine Project Manager: Daniel Chavez

Project: Borstein - Chino Project Number: [none]

Report To:

Tetra Tech -- Irvine Ravi Limaye

17885 Von Karman Ave. #500

Irvine, CA 92614

Date Due: 07/29/16 15:00 (5 day TAT)

Received By: Brian Charon Date Received: 07/22/16 11:39
Logged In By: Dan Marteski Date Logged In: 07/22/16 12:05

Samples Received at: 4.6°C

Custody Seals No Received On Ice Yes

Containers Intact Yes
COC/Labels Agree Yes
Preservation Confir No

Analysis	Due	TAT	Expires	Comments
T161658-01 LB49-S2-0.5 Time (US & [NO ANALYSES]	[Soil] Sampled 07/	21/16 10:36 (G	MT-08:00) Pa	ncific HOLD
T161658-02 LB49-S2-1.5 Time (US & [NO ANALYSES]	[Soil] Sampled 07/	21/16 10:36 (G.	MT-08:00) Pa	acific HOLD
T161658-03 LB49-S2-2.5 Time (US & [NO ANALYSES]	[Soil] Sampled 07/	21/16 10:36 (G	MT-08:00) Pa	ncific HOLD
T161658-04 LB49-S1-0.5 Time (US &	- •	·	·	
8081 Pesticides T161658-05 LB49-S1-1.5 Time (US & [NO ANALYSES]	07/29/16 15:([Soil] Sampled 07/		08/04/16 10 MT-08:00) Pa	
T161658-06 LB49-S1-2.5 Time (US & [NO ANALYSES]	[Soil] Sampled 07/	21/16 10:46 (G	MT-08:00) Pa	acific HOLD
T161658-07 LB49-N1-0.5 Time (US &	[Soil] Sampled 07	/21/16 11:00 (G	MT-08:00) Pa	acific
8081 Pesticides	07/29/16 15:	00 5	08/04/16 11	:00
T161658-08 LB49-N1-2.5 Time (US & [NO ANALYSES]	[Soil] Sampled 07/	/21/16 11:00 (G	MT-08:00) Pa	acific HOLD



WORK ORDER

T161658

Client: Tetra Tech -- Irvine **Project Manager: Daniel Chavez** Project: Borstein - Chino **Project Number:** [none] TAT **Analysis** Due **Expires** Comments T161658-09 LB49-N2-0.5 [Soil] Sampled 07/21/16 11:15 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-10 LB49-N2-2.5 [Soil] Sampled 07/21/16 11:15 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-11 LB49-E2-0.5 [Soil] Sampled 07/21/16 11:30 (GMT-08:00) Pacific **HOLD** Time (US & [NO ANALYSES] T161658-12 LB49-E2-1.5 [Soil] Sampled 07/21/16 11:30 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-13 LB49-E2-2.5 [Soil] Sampled 07/21/16 11:30 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-14 LB49-E1-0.5 [Soil] Sampled 07/21/16 11:40 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 08/04/16 11:40 T161658-15 LB49-E1-1.5 [Soil] Sampled 07/21/16 11:40 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-16 LB49-E1-2.5 [Soil] Sampled 07/21/16 11:40 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-17 LB49-W1-0.5 [Soil] Sampled 07/21/16 11:46 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 5 08/04/16 11:46 T161658-18 LB49-W1-1.5 [Soil] Sampled 07/21/16 11:46 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-19 LB49-W1-2.5 [Soil] Sampled 07/21/16 11:46 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-20 LB48-E2-0.5 [Soil] Sampled 07/21/16 12:00 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES]



WORK ORDER

T161658

Client: Tetra Tech -- Irvine **Project Manager: Daniel Chavez** Project: Borstein - Chino **Project Number:** [none] TAT **Analysis** Due **Expires** Comments T161658-21 LB48-E2-2.5 [Soil] Sampled 07/21/16 12:00 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-22 LB48-E2-5 [Soil] Sampled 07/21/16 12:00 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-23 LB48-E1-0.5 [Soil] Sampled 07/21/16 12:08 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 08/04/16 12:08 T161658-24 LB48-E1-2.5 [Soil] Sampled 07/21/16 12:08 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 5 08/04/16 12:08 T161658-25 LB48-E1-3.5 [Soil] Sampled 07/21/16 12:08 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-26 LB48-E1-5 [Soil] Sampled 07/21/16 12:08 (GMT-08:00) Pacific **HOLD** Time (US & [NO ANALYSES] T161658-27 LB48-W1-0.5 [Soil] Sampled 07/21/16 12:18 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 5 08/04/16 12:18 T161658-28 LB48-W1-1.5 [Soil] Sampled 07/21/16 12:18 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 5 08/04/16 12:18 T161658-29 LB48-W1-2.5 [Soil] Sampled 07/21/16 12:18 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-30 LB48-W1-3.5 [Soil] Sampled 07/21/16 12:18 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-31 LB48-W1-5.0 [Soil] Sampled 07/21/16 12:18 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-32 LB48-W2-0.5 [Soil] Sampled 07/21/16 12:28 (GMT-08:00) Pacific Time (US & [NO ANALYSES]



WORK ORDER

T161658

Client: Tetra Tech -- Irvine **Project Manager: Daniel Chavez** Project: Borstein - Chino **Project Number:** [none] TAT **Analysis** Due **Expires** Comments T161658-33 LB48-W2-1.5 [Soil] Sampled 07/21/16 12:28 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-34 LB48-W2-2.5 [Soil] Sampled 07/21/16 12:28 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-35 LB48-W2-3.5 [Soil] Sampled 07/21/16 12:28 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-36 LB48-W2-5.0 [Soil] Sampled 07/21/16 12:28 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-37 LB48-S2-0.5 [Soil] Sampled 07/21/16 12:38 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-38 LB48-S2-1.5 [Soil] Sampled 07/21/16 12:38 (GMT-08:00) Pacific **HOLD** Time (US & [NO ANALYSES] T161658-39 LB48-S2-2.5 [Soil] Sampled 07/21/16 12:38 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-40 LB48-S2-3.5 [Soil] Sampled 07/21/16 12:38 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-41 LB48-S2-5.0 [Soil] Sampled 07/21/16 12:38 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-42 LB48-S1-0.5 [Soil] Sampled 07/21/16 12:48 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 08/04/16 12:48 T161658-43 LB48-S1-1.5 [Soil] Sampled 07/21/16 12:48 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 5 08/04/16 12:48 T161658-44 LB48-S1-2.5 [Soil] Sampled 07/21/16 12:48 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES]



WORK ORDER

T161658

Client: Tetra Tech -- Irvine **Project Manager: Daniel Chavez** Project: Borstein - Chino **Project Number:** [none] TAT **Analysis** Due **Expires** Comments T161658-45 LB48-S1-3.5 [Soil] Sampled 07/21/16 12:48 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-46 LB48-S1-5.0 [Soil] Sampled 07/21/16 12:48 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-47 LB48-N1-0.5 [Soil] Sampled 07/21/16 12:58 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 08/04/16 12:58 T161658-48 LB48-N1-1.5 [Soil] Sampled 07/21/16 12:58 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 5 08/04/16 12:58 T161658-49 LB48-N1-2.5 [Soil] Sampled 07/21/16 12:58 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-50 LB48-N1-3.5 [Soil] Sampled 07/21/16 12:58 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-51 LB48-N1-5.0 [Soil] Sampled 07/21/16 12:58 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-52 LB48-N2-0.5 [Soil] Sampled 07/21/16 13:08 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-53 LB48-N2-1.5 [Soil] Sampled 07/21/16 13:08 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-54 LB48-N2-2.5 [Soil] Sampled 07/21/16 13:08 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-55 LB48-N2-3.5 [Soil] Sampled 07/21/16 13:08 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-56 LB48-N2-5.0 [Soil] Sampled 07/21/16 13:08 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES]



WORK ORDER

T161658

Client: Tetra Tech -- Irvine Project Manager: Daniel Chavez

Project: Borstein - Chino Project Number: [none]

Analysis Due TAT Expires Comments

T161658-57 LB10-0.5 [Soil] Sampled 07/21/16 13:24 (GMT-08:00) Pacific Time (US &

8081 Pesticides 07/29/16 15:00 5 08/04/16 13:24

 $T161658-58\ LB10-1.5\ [Soil]\ Sampled\ 07/21/16\ 13:24\ (GMT-08:00)\ Pacific\ Time\ \ HOLD$

(US &

[NO ANALYSES]

 $T161658-59\ LB10-2.5\ [Soil]\ Sampled\ 07/21/16\ 13:24\ (GMT-08:00)\ Pacific\ Time$

(US &

8081 Pesticides 07/29/16 15:00 5 08/04/16 13:24

T161658-60 LB43-W2-0.5 [Soil] Sampled 07/21/16 13:40 (GMT-08:00) Pacific HOLD

Time (US &

[NO ANALYSES]

Reviewed By Date Page 6 of



05 August 2016

Ravi Limaye Tetra Tech -- Irvine 17885 Von Karman Ave. #500 Irvine, CA 92614

Saniel & Chivy

RE: Borstein - Chino

Enclosed are the results of analyses for samples received by the laboratory on 07/22/16 11:39. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Chavez

Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LB49-S2-2.5	T161658-03	Soil	07/21/16 10:36	07/22/16 11:39
LB49-S1-2.5	T161658-06	Soil	07/21/16 10:46	07/22/16 11:39
LB49-N1-2.5	T161658-08	Soil	07/21/16 11:00	07/22/16 11:39
LB49-N2-2.5	T161658-10	Soil	07/21/16 11:15	07/22/16 11:39
LB49-E2-2.5	T161658-13	Soil	07/21/16 11:30	07/22/16 11:39
LB49-E1-2.5	T161658-16	Soil	07/21/16 11:40	07/22/16 11:39
LB49-W1-2.5	T161658-19	Soil	07/21/16 11:46	07/22/16 11:39
LB48-E2-2.5	T161658-21	Soil	07/21/16 12:00	07/22/16 11:39
LB48-E2-5	T161658-22	Soil	07/21/16 12:00	07/22/16 11:39
LB48-E1-5	T161658-26	Soil	07/21/16 12:08	07/22/16 11:39
LB48-W1-2.5	T161658-29	Soil	07/21/16 12:18	07/22/16 11:39
LB48-W1-5.0	T161658-31	Soil	07/21/16 12:18	07/22/16 11:39
LB48-W2-2.5	T161658-34	Soil	07/21/16 12:28	07/22/16 11:39
LB48-W2-5.0	T161658-36	Soil	07/21/16 12:28	07/22/16 11:39
LB48-S2-2.5	T161658-39	Soil	07/21/16 12:38	07/22/16 11:39
LB48-S2-5.0	T161658-41	Soil	07/21/16 12:38	07/22/16 11:39
LB48-S1-2.5	T161658-44	Soil	07/21/16 12:48	07/22/16 11:39
LB48-S1-5.0	T161658-46	Soil	07/21/16 12:48	07/22/16 11:39
LB48-N1-2.5	T161658-49	Soil	07/21/16 12:58	07/22/16 11:39
LB48-N1-5.0	T161658-51	Soil	07/21/16 12:58	07/22/16 11:39
LB48-N2-2.5	T161658-54	Soil	07/21/16 13:08	07/22/16 11:39
LB48-N2-5.0	T161658-56	Soil	07/21/16 13:08	07/22/16 11:39

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:03

DETECTIONS SUMMARY

Sample ID: LB49-S2-2.5 Laboratory ID: T161658-03 No Results Detected Sample ID: LB49-S1-2.5 Laboratory ID: T161658-06 No Results Detected Sample ID: LB49-N1-2.5 **Laboratory ID:** T161658-08 No Results Detected Sample ID: LB49-N2-2.5 Laboratory ID: T161658-10 No Results Detected Sample ID: LB49-E2-2.5 Laboratory ID: T161658-13 No Results Detected Sample ID: LB49-E1-2.5 Laboratory ID: T161658-16 No Results Detected

Daniel Chavez, Project Manager

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of

custody document. This analytical report must be reproduced in its entirety.



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:03

Sample ID:	LB49-W1-2.5	Laboratory	ID:	T161658-19		
		Rej	orting			
Analyte		Result	Limit	Units	Method	Notes
Dieldrin		9.8	5.0	ug/kg	EPA 8081A	
Sample ID:	LB48-E2-2.5	Laboratory	ID:	T161658-21		
		Rej	orting			
Analyte		Result	Limit	Units	Method	Notes
Dieldrin		490	50	ug/kg	EPA 8081A	
Sample ID:	LB48-E2-5	Laboratory	ID:	T161658-22		

No Results Detected

Sample ID:	LB48-E1-5	Laboratory ID:		T161658-26		
			Reporting			
Analyte		Result	Limit	Units	Method	Notes
Dieldrin		420	50	ug/kg	EPA 8081A	
Sample ID:	LB48-W1-2.5	Laboratory ID:		T161658-29		
			Reporting			
Analyte		Result	Limit	Units	Method	Notes
Dieldrin		28	5.0	ug/kg	EPA 8081A	
Sample ID:	LB48-W1-5.0	Laborat	ory ID:	T161658-31		
			Reporting			
Analyte		Result	Limit	Units	Method	Notes
Dieldrin		5.1	5.0	ug/kg	EPA 8081A	
Sample ID:	LB48-W2-2.5	Laborat	ory ID:	T161658-34		

No Results Detected

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:03

Sample ID: LB48-W2-5.0 Laboratory ID: T161658-36

No Results Detected

Sample ID: LB48-S2-2.5 **Laboratory ID:** T161658-39

No Results Detected

Sample ID: LB48-S2-5.0 **Laboratory ID:** T161658-41

No Results Detected

Sample ID: LB48-S1-2.5 Laboratory ID: T161658-44

No Results Detected

Sample ID: LB48-S1-5.0 Laboratory ID: T161658-46

No Results Detected

Sample ID: LB48-N1-2.5 **Laboratory ID:** T161658-49

No Results Detected

 Sample ID:
 LB48-N1-5.0
 Laboratory ID:
 T161658-51

		Reporting			
Analyte	Result	Limit	Units	Method	Notes
Dieldrin	43	5.0	ug/kg	EPA 8081A	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Saniel of Chivy



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:03

Sample ID: LB48-N2-2.5 Laboratory ID: T161658-54

No Results Detected

Sample ID: LB48-N2-5.0 **Laboratory ID:** T161658-56

No Results Detected

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:03

LB49-S2-2.5 T161658-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar La	aboratori	es, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6080330	08/03/16	08/04/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		87.4 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		66.0 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager

Samil & Chivy



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:03

LB49-S1-2.5 T161658-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Mo	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6080330	08/03/16	08/04/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		81.1 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		57.2 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

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LB49-N1-2.5 T161658-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6080330	08/03/16	08/04/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4′-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	II .	
Surrogate: Tetrachloro-meta-xylene		79.6 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		61.9 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager

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Tetra Tech -- Irvine Project: Borstein - Chino

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LB49-N2-2.5 T161658-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Mo	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6080330	08/03/16	08/04/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4´-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		91.3 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		67.3 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

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LB49-E2-2.5 T161658-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6080330	08/03/16	08/04/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4´-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		92.5 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		71.8 %	35-	140	"	"	"	"	

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LB49-E1-2.5 T161658-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6080330	08/03/16	08/04/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4´-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		85.5 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		65.1 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager



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LB49-W1-2.5 T161658-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6080330	08/03/16	08/04/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	9.8	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4′-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		91.1 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		70.0 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

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LB48-E2-2.5 T161658-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6080330	08/03/16	08/04/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	490	50	"	10	"	"	"	"	
Endrin	ND	5.0	"	1	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	n .	
Surrogate: Tetrachloro-meta-xylene		67.7 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		59.1 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:03

LB48-E2-5 T161658-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6080330	08/03/16	08/04/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4′-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4′-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		90.6 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		69.2 %	35-	140	"	"	"	"	

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Samil & Chivy



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:03

LB48-E1-5 T161658-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6080330	08/03/16	08/04/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	420	50	"	10	"	"	"	"	
Endrin	ND	5.0	"	1	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	n .	
Surrogate: Tetrachloro-meta-xylene		70.1 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		52.9 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:03

LB48-W1-2.5 T161658-29 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Me	thod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6080330	08/03/16	08/04/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4′-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	28	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4′-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		93.5 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		72.0 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:03

LB48-W1-5.0 T161658-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6080330	08/03/16	08/04/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	5.1	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4´-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		98.5 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		74.8 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:03

LB48-W2-2.5 T161658-34 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Mo	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6080330	08/03/16	08/04/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4´-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4′-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		98.3 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		69.1 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager



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17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:03

LB48-W2-5.0 T161658-36 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6080330	08/03/16	08/04/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4´-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		104 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		75.8 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager



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LB48-S2-2.5 T161658-39 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Mo	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6080330	08/03/16	08/04/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4´-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4′-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		42.7 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		32.2 %	35-	140	"	"	"	"	S-GC

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LB48-S2-5.0 T161658-41 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6080330	08/03/16	08/04/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4´-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		52.8 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		39.8 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager



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17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:03

LB48-S1-2.5 T161658-44 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Mo	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6080330	08/03/16	08/04/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		96.1 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		69.7 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:03

LB48-S1-5.0 T161658-46 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6080330	08/03/16	08/04/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4′-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		97.6 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		72.6 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager

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Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:03

LB48-N1-2.5 T161658-49 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Mo	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6080330	08/03/16	08/04/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4´-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		93.7 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		70.3 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:03

LB48-N1-5.0 T161658-51 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6080330	08/03/16	08/04/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	43	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4′-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	II .	
Surrogate: Tetrachloro-meta-xylene		106 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		75.6 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:03

LB48-N2-2.5 T161658-54 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6080329	08/03/16	08/04/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4´-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		81.1 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		58.3 %	35-	140	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:03

LB48-N2-5.0 T161658-56 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6080329	08/03/16	08/04/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		83.2 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		58.0 %	35-	140	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

 17885 Von Karman Ave. #500
 Project Number: [none]
 Reported:

 Irvine CA, 92614
 Project Manager: Ravi Limaye
 08/05/16 11:03

Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (6080329-BLK1)				Prepared: 08/03/	16 Analyzed: 08	3/04/16
alpha-BHC	ND	5.0	ug/kg			
gamma-BHC (Lindane)	ND	5.0	"			
beta-BHC	ND	5.0	"			
delta-BHC	ND	5.0	"			
Heptachlor	ND	5.0	"			
Aldrin	ND	5.0	"			
Heptachlor epoxide	ND	5.0	"			
gamma-Chlordane	ND	5.0	"			
alpha-Chlordane	ND	5.0	"			
Endosulfan I	ND	5.0	"			
4,4'-DDE	ND	5.0	"			
Dieldrin	ND	5.0	"			
Endrin	ND	5.0	"			
4,4′-DDD	ND	5.0	"			
Endosulfan II	ND	5.0	"			
4,4'-DDT	ND	5.0	"			
Endrin aldehyde	ND	5.0	"			
Endosulfan sulfate	ND	5.0	"			
Methoxychlor	ND	10	"			
Endrin ketone	ND	5.0	"			
Гохарhene	ND	200	"			
Surrogate: Tetrachloro-meta-xylene	8.19		"	9.98	82.1	35-140
Surrogate: Decachlorobiphenyl	5.62		"	9.98	56.3	35-140
LCS (6080329-BS1)				Prepared: 08/03/	16 Analyzed: 08	3/04/16
gamma-BHC (Lindane)	24.9	5.0	ug/kg	39.9	62.4	40-120
Heptachlor	22.3	5.0	"	39.9	56.0	40-120
Aldrin	23.4	5.0	"	39.9	58.6	40-120
Dieldrin	25.3	5.0	"	39.9	63.4	40-120
Endrin	22.3	5.0	"	39.9	56.0	40-120
4,4′-DDT	16.4	5.0	"	39.9	41.0	33-147
Surrogate: Tetrachloro-meta-xylene	11.5		"	9.98	116	35-140
Surrogate: Decachlorobiphenyl	7.52		"	9.98	75.3	35-140

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500 Project Number: [none] Reported: Irvine CA, 92614 Project Manager: Ravi Limaye 08/05/16 11:03

Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6080329 - EPA 3550 ECD/GCMS										
LCS Dup (6080329-BSD1)				Prepared: (08/03/16 A	nalyzed: 08	/04/16			
gamma-BHC (Lindane)	23.6	5.0	ug/kg	39.9		59.2	40-120	5.31	30	
Heptachlor	21.2	5.0	"	39.9		53.2	40-120	5.09	30	
Aldrin	21.7	5.0	"	39.9		54.3	40-120	7.52	30	
Dieldrin	23.6	5.0	"	39.9		59.0	40-120	7.12	30	
Endrin	20.2	5.0	"	39.9		50.6	40-120	10.1	30	
4,4'-DDT	18.9	5.0	"	39.9		47.3	33-147	14.4	30	
Surrogate: Tetrachloro-meta-xylene	10.8		"	9.98		108	35-140			
Surrogate: Decachlorobiphenyl	7.03		"	9.98		70.4	35-140			

Batch 6080330 - EPA 3550 ECD/GCMS

Blank (6080330-BLK1)				Prepared: 08/03/16 Analyzed: 08/04/16
alpha-BHC	ND	5.0	ug/kg	
gamma-BHC (Lindane)	ND	5.0	"	
beta-BHC	ND	5.0	"	
delta-BHC	ND	5.0	"	
Heptachlor	ND	5.0	"	
Aldrin	ND	5.0	"	
Heptachlor epoxide	ND	5.0	"	
gamma-Chlordane	ND	5.0	"	
alpha-Chlordane	ND	5.0	"	
Endosulfan I	ND	5.0	"	
4,4'-DDE	ND	5.0	"	
Dieldrin	ND	5.0	"	
Endrin	ND	5.0	"	
4,4'-DDD	ND	5.0	"	
Endosulfan II	ND	5.0	"	
4,4'-DDT	ND	5.0	"	
Endrin aldehyde	ND	5.0	"	
Endosulfan sulfate	ND	5.0	"	
Methoxychlor	ND	10	"	
Endrin ketone	ND	5.0	"	
Toxaphene	ND	200	"	
Surrogate: Tetrachloro-meta-xylene	7.35		"	9.91 74.1 35-140
Surrogate: Decachlorobiphenyl	5.55		"	9.91 56.0 35-140

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Chavez, Project Manager

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Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:03

$Organochlorine\ Pesticides\ by\ EPA\ Method\ 8081A-Quality\ Control$

SunStar Laboratories, Inc.

Amplisto	Dagult	Reporting	Unita	Spike Level	Source	%REC	%REC	DDD	RPD	Note-
Analyte	Result	Limit	Units	Level	Result	%KEC	Limits	RPD	Limit	Notes
Batch 6080330 - EPA 3550 ECD/GCMS										
LCS (6080330-BS1)				Prepared: 0	08/03/16 Aı	nalyzed: 08	/04/16			
gamma-BHC (Lindane)	28.5	5.0	ug/kg	39.9		71.4	40-120			
Heptachlor	24.7	5.0	"	39.9		61.9	40-120			
Aldrin	25.4	5.0	"	39.9		63.6	40-120			
Dieldrin	28.8	5.0	"	39.9		72.1	40-120			
Endrin	24.5	5.0	"	39.9		61.4	40-120			
4,4′-DDT	16.0	5.0	"	39.9		40.1	33-147			
Surrogate: Tetrachloro-meta-xylene	11.5		"	9.98		115	35-140			
Surrogate: Decachlorobiphenyl	9.16		"	9.98		91.7	35-140			
LCS Dup (6080330-BSD1)				Prepared: 0	08/03/16 Aı	nalyzed: 08	/04/16			
gamma-BHC (Lindane)	29.7	5.0	ug/kg	39.9		74.6	40-120	4.38	30	
Heptachlor	25.8	5.0	"	39.9		64.6	40-120	4.33	30	
Aldrin	26.5	5.0	"	39.9		66.5	40-120	4.48	30	
Dieldrin	30.2	5.0	"	39.9		75.7	40-120	4.85	30	
Endrin	25.5	5.0	"	39.9		63.9	40-120	4.02	30	
4,4′-DDT	14.9	5.0	"	39.9		37.4	33-147	7.07	30	
Surrogate: Tetrachloro-meta-xylene	11.7		"	9.97		118	35-140			
Surrogate: Decachlorobiphenyl	9.67		"	9.97		96.9	35-140			

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:03

Notes and Definitions

S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Su tar Laboratories, Inc.

Chain of Cuedy Record

Providing Quality Analytical Services Nationwide 25712 Commercentre Drive, Lake Forest, CA 92630 949-297-5020

Client: Tetra Tech	<u> </u>	· · · · · · · · · · · · · · · · · · ·			-					-	-							Pag	e:		Of _	8-		
Address: <u>17855 Von Kan</u> Phone: <u>(949) 809 - 5038</u> Project Manager: <u>Ray</u>): Li					- -			Coll	ect l ecto ch #:	r: H	~ 0 1	Zhav	44		1.'nc	<u> </u>			-	 ject #:	<u>.</u>			
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						+ OXY	втех, оху		8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22	6020 ICP-MS Metals	OCF3			aboratory ID #						Total # of containers
Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260	8260	8270	8021	8015	8015	8015	60,10/	6020	8081			Labor		Commer	nts/Pres	servative		Total
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Sample disposal Instructions:	Disposal @ \$2.00	each	Retur	n to client		Pick	(up																	

Su tar Laboratories, Inc.

Chain of Cuandy Record

Providing Quality Analytical Services Nationwide 25712 Commercentre Drive, Lake Forest, CA 92630 949-297-5020

Client: Tetra Tech				ate:_	7/2	21/10	_ما				Pag	ge:	<u> ユ</u>	Of	8	_
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Sur ar Laboratories, Inc.

Chain of Cu dy Record

Providing Quality Analytical Services Nationwide 25712 Commercentre Drive, Lake Forest, CA 92630 949-297-5020

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Phone: (949)809-5038	•	_Fax: <u>_(</u> 9ฯ	4) 809-50	10				Col	lecto	or: <u> }</u>	tao	ると	ana				c	lien	Projec	xt #:				~
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Sample disposal Instructions: D	Disposal @ \$2.00	each	Return	to client		Picl	cup .											_	-			1		

Su tar Laboratories, Inc.

Chain of Cuandy Record

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive, Lake Forest, CA 92630 949-297-5020

Client: Tetra Tech		-					[Date	:	7/2	1/16					•	Page	ə:	4	Of _	8	_ ,	
Address: <u>17835 Von Korna</u> Phone: <u>(944) & 9 - 50 3 &</u>	Avenue	Suite 500,	Daving C	<u>h</u>															-			_	
		Fax: <u>_(ч</u> ұ	1)809-56	,10 ₁				Olle	ctor:	140	uo t	then.	<u>گ</u>				Clien	-	ect #:				
Project Manager: <u>الأسائل كم</u>	78						E	3atc	h #:_		71(916	58				EDF	#:				_	
																						T	7
											<u>.</u>	Sle											
			4.				OXY only		ا		5	Met	tals				i in					ers	
						λXO	IEX, OXY		TEX	GOLDINI (gasoline)	8015M (diesel) 8015M Ext /Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	BOBI CCPS			ory ID#					of containers	
Sample ID	Date Sample	d Time	Sample Type	Container Type	8260	260 +	260 B	8270	8021 BTEX		015M	010/70	020 IC	1305			aboratory ID	(Commo	ote/Pro	servative	Total #	
LB48-51-50	7/21/1		SOTL	ACETATE	8	<u></u>	~	~	<u>ω °</u>	٩١٩	<u>ω α</u>) @	1 6	1~			પદ		4840	110/110	SCIVALIVO	+	+
LB 48-N1-03	A1 A1	1258	,1	SLEEVE		<u></u>	_		_	+	7			X			47						1
LB48-N1-1.5	1 1	1258						_						X			48						1
LB 48-N1-2.5		1258					一		T		\neg	╅					40	· t	fali D			1	┨
LB 48-N1 -3.5		1258										1					50		1				7
LB48-N1-5,0		1258												i -			21		1	-:		\top	7
LB 48-N2-0.5		1308			П					Т							52						٦
LB 48-N2-1.5		1308								丁							53					7	1
LB48 -N2 - 2.5		1308								T							54		T				
18 48-N2 -3.5		1308					1		$\neg \vdash$	T							553				,		1
LB48-N2-5.0		1308								T					-		56		+	-		\neg	1
LB10-0.5		1324										\top		×			53					\top	7
LB 10-1.5		1324								1		T					58		HOLD				1
LB10-25		1324								T				×			59					\top	٦
LB43-N2-0.5	4	1346	*	44													60		HOLD	-			٦
Relinguished by: (signature)	Date	e / Time	Received b	oy: (signat <u>ure)</u>			Date	/ Tin	ne		'		Total	# of c	contai	ners				Note	es		7
H 2h		6 630			7	22	-16	1	030	_]	Chain				ls Y								
Relinquished by: (signature)	Date	e / Time	Received b	py: (signature)			_	/ Tin				;	Seals	intac	t? Y/Ŋ	MA							
	7-22-16		Page	Mars	7/	/22/	16	//:3	39	_	Rec	eive	l good	l con	dition/	cold	4.4						\dagger
Relinquished by: (signature)	Date	e / Time	Received	oy: (signature)		ı	uate	/ 11	ie									- ;					
Sample disposal Instructions: Di		000h	Dat	to client		Pickı					Turn a	irou	nd tin	ne:	STAND	ard			***				╛

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #:	T161658		
Client Name:	Totra Tech-J	Project:	Borstein-Chino
Delivered by:	☐ Client 🗵 SunSt	ar Courier 🔲 GSO	☐ FedEx ☐ Other
If Courier, Received by:	Dam	Date/Time Co	7-22-16 1030
Lab Received by:	Brian	Date/Time La Received:	7-22-16 1139
Total number of coolers re	eceived: o		
Temperature: Cooler #1	4.8 °C +/- the CF	$F(-0.2^{\circ}C) = u.6$	°C corrected temperature
Temperature: Cooler #2	°C +/- the CF	$(-0.2^{\circ}C) =$	°C corrected temperature
Temperature: Cooler #3	°C +/- the CF	$(-0.2^{\circ}C) =$	°C corrected temperature
Temperature criteria = 5 (no frozen containers)	≤6°C	Within criteria?	⊠Yes □No
If NO:			
Samples received	on ice?	□Yes	☐No → Complete Non-Conformance Sheet
If on ice, samples collected?	received same day	☐Yes → Acceptable	□No → Complete Non-Conformance Sheet
Custody seals intact on co	oler/sample		□Yes □No* ⊠N/A
Sample containers intact			
•			⊠Yes □No*
Sample labels match Chai	n of Custody IDs		
			· ·
Sample labels match Chai	s received match COC	on COC	¥Yes □No*
Sample labels match Chai Total number of container	s received match COC		Yes □No* □Yes ☑No*
Sample labels match Chair Total number of container Proper containers received	s received match COC I for analyses requested of ted on COC/containers f ed in good condition wit	or analyses requested h correct temperatures,	Yes □No* □Yes ☑No* ☑Yes □No*
Sample labels match Chair Total number of container Proper containers received Proper preservative indicat Complete shipment received containers, labels, volume	s received match COC I for analyses requested of ted on COC/containers f ed in good condition with s preservatives and with	or analyses requested h correct temperatures, n method specified	☑Yes □No* □Yes ☑No* □Yes □No* □Yes □No* □Yes □No* □Yes □No* □Yes □No* □Yes □No* □Yes □No* □No* □No* □No* □No* □No* □No* □No*
Sample labels match Chair Total number of containers Proper containers received Proper preservative indicates Complete shipment received containers, labels, volume holding times	s received match COC I for analyses requested of ted on COC/containers f ed in good condition with s preservatives and with	or analyses requested h correct temperatures, n method specified	☐Yes ☐No* ☐Yes ☐No* ☐Yes ☐No* ☐Yes ☐No* ☐Yes ☐No*

Page 1 of 2

SAMPLE NON-CONFORMANCE SHEET

COOLE	RS							LABEI	S				
	Received ((received	COC	only)						sample	e ID / in	fo as on	the COC
	ing/Dama	•							mplete I	-			
Other	_	500							kings/Int				
CUSTOI		S					=	SAMPI					
Li None		••	1							T REC	EIVED	but list	ed on CC
□ Not I													D on CO
TEMPE		Temp	criteri	$a = 4^{\circ}C$	± 2°C	\circ	*		to the second				and not
	er/Sample						and the second	-					not CO
	perature E		termina.	e d	11.				ged in, C				
CHAIN			COC					,	ficient of				
	elinquish	•		date/tin	ne relii	auish	ed		oper co	•			• • •
	nplete inf	-							abeled a			vatives	. etc.
	not recei												D and te
CONTA			- J	1 1 1		-	18.9		preserve				
🗆 Leaki		□Br	oken				* * 2			•			container
□ Extra	_	□ Mi						□ Othe		<i>'</i>			
	41 - 41												1.2
Comments										4		8 (4)	ta .
2		101	A ~\					10.1		^ • •			
Leceived													······································
omples 12	(LB49	~ E2 -1.	5) +	13 (LB	49 - E	2-25) conta	in some	water	from a	the cool	er they	Were St
ple fractioni	ing only if	broken co	ontainer	comproi	nises o	ther sa	mples or	if out of	temp rea	ding imp	oacts mor	e than o	ne coole
				T			T					3" · 1" 1."	Preser.
Fraction													
VOA		1									-		
			-	1									
					.								
VOA													
VOA													



WORK ORDER

T161658

Client: Tetra Tech -- Irvine Project Manager: Daniel Chavez

Project: Borstein - Chino Project Number: [none]

Report To:

Tetra Tech -- Irvine Ravi Limaye

17885 Von Karman Ave. #500

Irvine, CA 92614

Date Due: 07/29/16 15:00 (5 day TAT)

Received By: Brian Charon Date Received: 07/22/16 11:39
Logged In By: Dan Marteski Date Logged In: 07/22/16 12:05

Samples Received at: 4.6°C

Custody Seals No Received On Ice Yes

Containers Intact Yes
COC/Labels Agree Yes
Preservation Confir No

Analysis	Due	TAT	Expires	Comments
T161658-01 LB49-S2-0.5 Time (US & [NO ANALYSES]	[Soil] Sampled 07/	21/16 10:36 (G	MT-08:00) Pa	ncific HOLD
T161658-02 LB49-S2-1.5 Time (US & [NO ANALYSES]	[Soil] Sampled 07/	21/16 10:36 (G.	MT-08:00) Pa	acific HOLD
T161658-03 LB49-S2-2.5 Time (US & [NO ANALYSES]	[Soil] Sampled 07/	21/16 10:36 (G	MT-08:00) Pa	ncific HOLD
T161658-04 LB49-S1-0.5 Time (US &		·	·	
8081 Pesticides T161658-05 LB49-S1-1.5 Time (US & [NO ANALYSES]	07/29/16 15:([Soil] Sampled 07/		08/04/16 10 MT-08:00) Pa	
T161658-06 LB49-S1-2.5 Time (US & [NO ANALYSES]	[Soil] Sampled 07/	21/16 10:46 (G	MT-08:00) Pa	acific HOLD
T161658-07 LB49-N1-0.5 Time (US &	[Soil] Sampled 07	/21/16 11:00 (G	MT-08:00) Pa	acific
8081 Pesticides	07/29/16 15:	00 5	08/04/16 11	:00
T161658-08 LB49-N1-2.5 Time (US & [NO ANALYSES]	[Soil] Sampled 07/	/21/16 11:00 (G	MT-08:00) Pa	acific HOLD



WORK ORDER

T161658

Client: Tetra Tech -- Irvine **Project Manager: Daniel Chavez** Project: Borstein - Chino **Project Number:** [none] TAT **Analysis** Due **Expires** Comments T161658-09 LB49-N2-0.5 [Soil] Sampled 07/21/16 11:15 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-10 LB49-N2-2.5 [Soil] Sampled 07/21/16 11:15 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-11 LB49-E2-0.5 [Soil] Sampled 07/21/16 11:30 (GMT-08:00) Pacific **HOLD** Time (US & [NO ANALYSES] T161658-12 LB49-E2-1.5 [Soil] Sampled 07/21/16 11:30 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-13 LB49-E2-2.5 [Soil] Sampled 07/21/16 11:30 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-14 LB49-E1-0.5 [Soil] Sampled 07/21/16 11:40 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 08/04/16 11:40 T161658-15 LB49-E1-1.5 [Soil] Sampled 07/21/16 11:40 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-16 LB49-E1-2.5 [Soil] Sampled 07/21/16 11:40 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-17 LB49-W1-0.5 [Soil] Sampled 07/21/16 11:46 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 5 08/04/16 11:46 T161658-18 LB49-W1-1.5 [Soil] Sampled 07/21/16 11:46 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-19 LB49-W1-2.5 [Soil] Sampled 07/21/16 11:46 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-20 LB48-E2-0.5 [Soil] Sampled 07/21/16 12:00 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES]



WORK ORDER

T161658

Client: Tetra Tech -- Irvine **Project Manager: Daniel Chavez** Project: Borstein - Chino **Project Number:** [none] TAT **Analysis** Due **Expires** Comments T161658-21 LB48-E2-2.5 [Soil] Sampled 07/21/16 12:00 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-22 LB48-E2-5 [Soil] Sampled 07/21/16 12:00 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-23 LB48-E1-0.5 [Soil] Sampled 07/21/16 12:08 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 08/04/16 12:08 T161658-24 LB48-E1-2.5 [Soil] Sampled 07/21/16 12:08 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 5 08/04/16 12:08 T161658-25 LB48-E1-3.5 [Soil] Sampled 07/21/16 12:08 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-26 LB48-E1-5 [Soil] Sampled 07/21/16 12:08 (GMT-08:00) Pacific **HOLD** Time (US & [NO ANALYSES] T161658-27 LB48-W1-0.5 [Soil] Sampled 07/21/16 12:18 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 5 08/04/16 12:18 T161658-28 LB48-W1-1.5 [Soil] Sampled 07/21/16 12:18 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 5 08/04/16 12:18 T161658-29 LB48-W1-2.5 [Soil] Sampled 07/21/16 12:18 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-30 LB48-W1-3.5 [Soil] Sampled 07/21/16 12:18 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-31 LB48-W1-5.0 [Soil] Sampled 07/21/16 12:18 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-32 LB48-W2-0.5 [Soil] Sampled 07/21/16 12:28 (GMT-08:00) Pacific Time (US & [NO ANALYSES]



WORK ORDER

T161658

Client: Tetra Tech -- Irvine **Project Manager: Daniel Chavez** Project: Borstein - Chino **Project Number:** [none] TAT **Analysis** Due **Expires** Comments T161658-33 LB48-W2-1.5 [Soil] Sampled 07/21/16 12:28 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-34 LB48-W2-2.5 [Soil] Sampled 07/21/16 12:28 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-35 LB48-W2-3.5 [Soil] Sampled 07/21/16 12:28 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-36 LB48-W2-5.0 [Soil] Sampled 07/21/16 12:28 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-37 LB48-S2-0.5 [Soil] Sampled 07/21/16 12:38 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-38 LB48-S2-1.5 [Soil] Sampled 07/21/16 12:38 (GMT-08:00) Pacific **HOLD** Time (US & [NO ANALYSES] T161658-39 LB48-S2-2.5 [Soil] Sampled 07/21/16 12:38 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-40 LB48-S2-3.5 [Soil] Sampled 07/21/16 12:38 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-41 LB48-S2-5.0 [Soil] Sampled 07/21/16 12:38 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-42 LB48-S1-0.5 [Soil] Sampled 07/21/16 12:48 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 08/04/16 12:48 T161658-43 LB48-S1-1.5 [Soil] Sampled 07/21/16 12:48 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 5 08/04/16 12:48 T161658-44 LB48-S1-2.5 [Soil] Sampled 07/21/16 12:48 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES]



WORK ORDER

T161658

Client: Tetra Tech -- Irvine **Project Manager: Daniel Chavez** Project: Borstein - Chino **Project Number:** [none] TAT **Analysis** Due **Expires** Comments T161658-45 LB48-S1-3.5 [Soil] Sampled 07/21/16 12:48 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-46 LB48-S1-5.0 [Soil] Sampled 07/21/16 12:48 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-47 LB48-N1-0.5 [Soil] Sampled 07/21/16 12:58 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 08/04/16 12:58 T161658-48 LB48-N1-1.5 [Soil] Sampled 07/21/16 12:58 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 5 08/04/16 12:58 T161658-49 LB48-N1-2.5 [Soil] Sampled 07/21/16 12:58 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-50 LB48-N1-3.5 [Soil] Sampled 07/21/16 12:58 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-51 LB48-N1-5.0 [Soil] Sampled 07/21/16 12:58 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-52 LB48-N2-0.5 [Soil] Sampled 07/21/16 13:08 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-53 LB48-N2-1.5 [Soil] Sampled 07/21/16 13:08 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-54 LB48-N2-2.5 [Soil] Sampled 07/21/16 13:08 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-55 LB48-N2-3.5 [Soil] Sampled 07/21/16 13:08 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161658-56 LB48-N2-5.0 [Soil] Sampled 07/21/16 13:08 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES]



WORK ORDER

T161658

Client: Tetra Tech -- Irvine Project Manager: Daniel Chavez

Project: Borstein - Chino Project Number: [none]

Analysis Due TAT Expires Comments

T161658-57 LB10-0.5 [Soil] Sampled 07/21/16 13:24 (GMT-08:00) Pacific Time (US &

8081 Pesticides 07/29/16 15:00 5 08/04/16 13:24

 $T161658-58\ LB10-1.5\ [Soil]\ Sampled\ 07/21/16\ 13:24\ (GMT-08:00)\ Pacific\ Time\ \ HOLD$

(US &

[NO ANALYSES]

 $T161658-59\ LB10-2.5\ [Soil]\ Sampled\ 07/21/16\ 13:24\ (GMT-08:00)\ Pacific\ Time$

(US &

8081 Pesticides 07/29/16 15:00 5 08/04/16 13:24

T161658-60 LB43-W2-0.5 [Soil] Sampled 07/21/16 13:40 (GMT-08:00) Pacific HOLD

Time (US &

[NO ANALYSES]

Reviewed By Date Page 6 of



05 August 2016

Ravi Limaye Tetra Tech -- Irvine 17885 Von Karman Ave. #500 Irvine, CA 92614

Saniel & Chivy

RE: Borstein - Chino

Enclosed are the results of analyses for samples received by the laboratory on 07/22/16 11:39. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Chavez

Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

 17885 Von Karman Ave. #500
 Project Number: [none]
 Reported:

 Irvine CA, 92614
 Project Manager: Ravi Limaye
 08/05/16 14:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LB43-W1-0.5	T161659-03	Soil	07/21/16 14:00	07/22/16 11:39
LB43-E1-0.5	T161659-06	Soil	07/21/16 14:10	07/22/16 11:39
LB43-N1-0.5	T161659-14	Soil	07/21/16 14:30	07/22/16 11:39
LB43-S1-0.5	T161659-17	Soil	07/21/16 14:45	07/22/16 11:39
LB52-W-0.5	T161659-23	Soil	07/21/16 16:20	07/22/16 11:39
LB52-S-0.5	T161659-26	Soil	07/21/16 16:30	07/22/16 11:39
LB30-E2-0.5	T161659-29	Soil	07/21/16 17:46	07/22/16 11:39
LB30-N1-0.5	T161659-32	Soil	07/21/16 17:10	07/22/16 11:39
LB30-S1-0.5	T161659-35	Soil	07/21/16 17:04	07/22/16 11:39
LB30-S2-0.5	T161659-38	Soil	07/21/16 16:55	07/22/16 11:39
LB30-W1-0.5	T161659-47	Soil	07/21/16 17:32	07/22/16 11:39
LB30-E1-0.5	T161659-50	Soil	07/21/16 17:42	07/22/16 11:39
LB52-E-0.5	T161659-53	Soil	07/21/16 16:40	07/22/16 11:39

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Tetra Tech -- Irvine

Irvine CA, 92614

Project: Borstein - Chino

17885 Von Karman Ave. #500

Project Number: [none]
Project Manager: Ravi Limaye

Reported: 08/05/16 14:15

DETECTIONS SUMMARY

Sample ID:	LB43-W1-0.5	Laborat	ory ID:			
			Reporting			
Analyte		Result	Limit	Units	Method	Notes
4,4'-DDE		5.7	5.0	ug/kg	EPA 8081A	
Dieldrin		56	5.0	ug/kg	EPA 8081A	
4,4′-DDT		11	5.0	ug/kg	EPA 8081A	
Sample ID:	LB43-E1-0.5	Laborat	ory ID:	T161659-06		
			Reporting			
Analyte		Result	Limit	Units	Method	Notes
Dieldrin		9.7	5.0	ug/kg	EPA 8081A	
Sample ID:	LB43-N1-0.5	Laborat	ory ID:	T161659-14		
Sample ID:	LB43-S1-0.5	Laborat	ory ID:	T161659-17		
A I4-		D14	Reporting		Madhad	N/-4
Analyte		Result	Reporting Limit	Units	Method	Notes
Analyte Dieldrin		Result 8.1	Reporting		Method EPA 8081A	Notes
Dieldrin	LB52-W-0.5		Reporting Limit 5.0	Units		Notes
Dieldrin		8.1	Reporting Limit 5.0	Units ug/kg		Notes
Dieldrin Sample ID: No Results De	etected	8.1 Laborat	Reporting Limit 5.0 cory ID:	Units ug/kg T161659-23		Notes
Dieldrin Sample ID:		8.1	Reporting Limit 5.0 cory ID:	Units ug/kg		Notes
Dieldrin Sample ID: No Results De	etected	8.1 Laborat	Reporting Limit 5.0 cory ID:	Units ug/kg T161659-23		Notes

SunStar Laboratories, Inc.
Samuel J. Chivy

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 14:15

Sample ID: LB30-E2-0.5 Laboratory ID: T161659-29

No Results Detected

Sample ID: LB30-N1-0.5		Labora	tory ID:	T161659-32		
			Reporting			
Analyte		Result	Limit	Units	Method	Notes
gamma-BH	C (Lindane)	5.6	5.0	ug/kg	EPA 8081A	
4,4'-DDE		10	5.0	ug/kg	EPA 8081A	
Dieldrin		10	5.0	ug/kg	EPA 8081A	
Sample ID:	LB30-S1-0.5	Labora	tory ID:	T161659-35		
			Reporting			
Analyte		Result	Limit	Units	Method	Notes
4,4'-DDE		100	5.0	ug/kg	EPA 8081A	E
Dieldrin		6.0	5.0	ug/kg	EPA 8081A	
4,4'-DDT		110	5.0	ug/kg	EPA 8081A	E
Sample ID:	LB30-S2-0.5	Labora	itory ID:	T161659-38		
			Reporting			
Analyte		Result	Limit	Units	Method	Notes
4,4′-DDE		16	5.0	ug/kg	EPA 8081A	
4,4′-DDT		9.6	5.0	ug/kg	EPA 8081A	
Sample ID:	LB30-W1-0.5	Lahora	tory ID:	T161659-47		

No Results Detected

Sample ID:	LB30-E1-0.5	Labor	T161659-50			
Analyte		Result	Limit	Units	Method	Notes
4,4'-DDE		19	5.0	ug/kg	EPA 8081A	
4,4'-DDT		14	5.0	ug/kg	EPA 8081A	

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Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 14:15

Sample ID: LB52-E-0.5	Laborat	ory ID:	T161659-53		
		Reporting			
Analyte	Result	Limit	Units	Method	Notes
4,4'-DDE	12	5.0	ug/kg	EPA 8081A	
Dieldrin	270	50	ug/kg	EPA 8081A	
Endrin	9.4	5.0	ug/kg	EPA 8081A	
4,4′-DDD	8.0	5.0	ug/kg	EPA 8081A	
Endosulfan sulfate	14	5.0	ug/kg	EPA 8081A	
Endrin ketone	16	5.0	ug/kg	EPA 8081A	

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 17885 Von Karman Ave. #500
 Project Number: [none]
 Reported:

 Irvine CA, 92614
 Project Manager: Ravi Limaye
 08/05/16 14:15

LB43-W1-0.5 T161659-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Organochlorine Pesticides by EPA Me	thod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6072627	07/26/16	08/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	5.7	5.0	"	"	"	"	"	"	
Dieldrin	56	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	11	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		68.7 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		68.9 %	35-	140	"	"	"	"	

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LB43-E1-0.5 T161659-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6072627	07/26/16	08/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	9.7	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4´-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		76.7 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		106 %	35-	140	"	"	"	"	

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LB43-N1-0.5 T161659-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6072627	07/26/16	08/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4′-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4′-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		69.1 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		60.6 %	35-	140	"	"	"	"	

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LB43-S1-0.5 T161659-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Mo	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6072627	07/26/16	08/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4′-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	8.1	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4′-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		76.1 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		87.0 %	35-	140	"	"	"	"	

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LB52-W-0.5 T161659-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6072627	07/26/16	08/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4′-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		104 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		101 %	35-	140	"	"	"	"	

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LB52-S-0.5 T161659-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aborator	ies, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6072627	07/26/16	08/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	7.3	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4´-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		46.8 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		68.6 %	35-	140	"	"	"	"	

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LB30-E2-0.5 T161659-29 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	50	ug/kg	10	6072627	07/26/16	08/01/16	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	50	"	"	"	"	"	"	R-07
beta-BHC	ND	50	"	"	"	"	"	"	R-07
delta-BHC	ND	50	"	"	"	"	"	"	R-07
Heptachlor	ND	50	"	"	"	"	"	"	R-07
Aldrin	ND	50	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	50	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	50	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	50	"	"	"	"	"	"	R-07
Endosulfan I	ND	50	"	"	"	"	"	"	R-07
4,4′-DDE	ND	50	"	"	"	"	"	"	R-07
Dieldrin	ND	50	"	"	"	"	"	"	R-07
Endrin	ND	50	"	"	"	"	"	"	R-07
4,4′-DDD	ND	50	"	"	"	"	"	"	R-07
Endosulfan II	ND	50	"	"	"	"	"	"	R-07
4,4′-DDT	ND	50	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	50	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	50	"	"	"	"	"	"	R-07
Methoxychlor	ND	100	"	"	"	"	"	"	R-07
Endrin ketone	ND	50	"	"	"	"	"	"	R-07
Toxaphene	ND	2000	"	"	"	"	"	"	R-07
Surrogate: Tetrachloro-meta-xylene		44.0 %	35-	140	"	"	"	"	R-07
Surrogate: Decachlorobiphenyl		428 %	35-	140	"	"	"	"	R-07, S-GC

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LB30-N1-0.5 T161659-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6080431	08/04/16	08/05/16	EPA 8081A	
gamma-BHC (Lindane)	5.6	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	10	5.0	"	"	"	"	"	"	
Dieldrin	10	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		103 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		104 %	35-	140	"	"	"	"	

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17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 14:15

LB30-S1-0.5 T161659-35 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aborator	ies, Inc.					
Organochlorine Pesticides by EPA Me	thod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6072627	07/26/16	08/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	100	5.0	"	"	"	"	"	"	Е
Dieldrin	6.0	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4′-DDT	110	5.0	"	"	"	"	"	"	E
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		55.4 %	35-	140	"	"	"	"	·
Surrogate: Decachlorobiphenyl		120 %	35-	140	"	"	"	"	

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LB30-S2-0.5 T161659-38 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6072627	07/26/16	08/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	16	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4′-DDT	9.6	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		43.8 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		86.3 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager

Samil & Chivy



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 14:15

LB30-W1-0.5 T161659-47 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6072627	07/26/16	08/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		41.3 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		94.8 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager

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Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 14:15

LB30-E1-0.5 T161659-50 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6072627	07/26/16	08/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4′-DDE	19	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4´-DDT	14	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		47.8 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		118 %	35-	140	"	"	"	"	

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Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 14:15

LB52-E-0.5 T161659-53 (Soil)

SunStar L	aboratori	T					
		es, inc.					
5.0	ug/kg	1	6080431	08/04/16	08/05/16	EPA 8081A	
5.0	"	"	"	"	"	"	
5.0	"	"	"	"	"	"	
5.0	"	"	"	"	"	"	
5.0	"	"	"	"	"	"	
5.0	"	"	"	"	"	"	
5.0	"	"	"	"	"	"	
5.0	"	"	"	"	"	"	
5.0	"	"	"	"	"	"	
5.0	"	"	"	"	"	"	
5.0	"	"	"	"	"	"	
50	"	10	"	"	"	"	
5.0	"	1	"	"	"	"	
5.0	"	"	"	"	"	"	
5.0	"	"	"	"	"	"	
5.0	"	"	"	"	"	"	
5.0	"	"	"	"	"	"	
5.0	"	"	"	"	"	"	
10	"	"	"	"	"	"	
5.0	"	"	"	"	"	"	
200	"	"	"	"	"	"	
95.0 %	35-	140	"	"	"	"	
		1 10					
	5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 200	5.0 " 5.0 " 5.0 " 5.0 " 5.0 " 5.0 " 5.0 " 5.0 " 5.0 " 5.0 " 5.0 " 5.0 " 200 "	5.0 " " 5.0 " " 50 " 10 5.0 " " 5.0 " " 5.0 " " 5.0 " " 5.0 " " 5.0 " " 5.0 " " 5.0 " " 5.0 " " 7.0 " " 7.0 " " 7.0 " " 7.0 " " 7.0 " " 7.0 " " 7.0 " " 7.0 " " 7.0 " " 7.0 " " 7.0 " " 7.0 " " 7.0 " "	5.0 " " " " 5.0 " " " 5.0 " " " " 5.0 " " " " 5.0 " " " " 5.0 " " " " 5.0 " " " " 5.0 " " " " 5.0 " " " " 5.0 " " " " 5.0 " " " " " 5.0 " " " " " " 5.0 " " " " " " " 5.0 " " " " " " " " 5.0 " " " " " " " " " " " " " " " " " " "	5.0 " " " " " " " 5.0 " " " " " " " " " " " " " " " " " " "	5.0 " " " " " " " " " " 5.0 " " " " " " " " " " " " " " " " " " "	5.0 " " " " " " " " " " " " " " " " " " "

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Daniel Chavez, Project Manager

Samil & Chivy



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 14:15

Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (6072627-BLK1)				Prepared: 07/26/	16 Analyzed: 08	/01/16	
alpha-BHC	ND	5.0	ug/kg				
gamma-BHC (Lindane)	ND	5.0	"				
beta-BHC	ND	5.0	"				
delta-BHC	ND	5.0	"				
Heptachlor	ND	5.0	"				
Aldrin	ND	5.0	"				
Heptachlor epoxide	ND	5.0	"				
gamma-Chlordane	ND	5.0	"				
alpha-Chlordane	ND	5.0	"				
Endosulfan I	ND	5.0	"				
4,4′-DDE	ND	5.0	"				
Dieldrin	ND	5.0	"				
Endrin	ND	5.0	"				
4,4´-DDD	ND	5.0	"				
Endosulfan II	ND	5.0	"				
4,4′-DDT	ND	5.0	"				
Endrin aldehyde	ND	5.0	"				
Endosulfan sulfate	ND	5.0	"				
Methoxychlor	ND	10	"				
Endrin ketone	ND	5.0	"				
Toxaphene	ND	200	"				
Surrogate: Tetrachloro-meta-xylene	9.70		"	9.93	97.6	35-140	
Surrogate: Decachlorobiphenyl	9.41		"	9.93	94.7	35-140	
LCS (6072627-BS1)				Prepared: 07/26/	16 Analyzed: 08	/01/16	
gamma-BHC (Lindane)	22.6	5.0	ug/kg	39.9	56.6	40-120	
Heptachlor	24.9	5.0	"	39.9	62.4	40-120	
Aldrin	20.3	5.0	"	39.9	50.8	40-120	
Dieldrin	23.4	5.0	"	39.9	58.6	40-120	
Endrin	26.1	5.0	"	39.9	65.5	40-120	
4,4′-DDT	22.7	5.0	"	39.9	56.9	33-147	
Surrogate: Tetrachloro-meta-xylene	6.43		"	9.98	64.4	35-140	
Surrogate: Decachlorobiphenyl	9.81		"	9.98	98.3	35-140	

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Daniel Chavez, Project Manager



RPD

%REC

Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 14:15

Reporting

$Organochlorine\ Pesticides\ by\ EPA\ Method\ 8081A-Quality\ Control$

SunStar Laboratories, Inc.

Spike

Source

Prepared: 08/04/16 Analyzed: 08/05/16

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6072627 - EPA 3550 ECD/GCMS										
Matrix Spike (6072627-MS1)	Sourc	e: T161659-	03	Prepared: (07/26/16 A	nalyzed: 08	/01/16			
gamma-BHC (Lindane)	19.8	5.0	ug/kg	39.5	ND	50.1	30-120			
Heptachlor	22.3	5.0	"	39.5	ND	56.5	30-120			
Aldrin	17.5	5.0	"	39.5	ND	44.2	30-120			
Dieldrin	122	5.0	"	39.5	55.6	169	30-120			QM-0
Endrin	32.9	5.0	"	39.5	1.15	80.4	30-120			
4,4'-DDT	37.7	5.0	"	39.5	10.8	68.2	30-120			
Surrogate: Tetrachloro-meta-xylene	4.11		"	9.87		41.6	35-140			
Surrogate: Decachlorobiphenyl	4.39		"	9.87		44.5	35-140			
Matrix Spike Dup (6072627-MSD1)	Sourc	e: T161659-	03	Prepared: (07/26/16 A	nalyzed: 08	/01/16			
gamma-BHC (Lindane)	18.4	5.0	ug/kg	39.2	ND	47.0	30-120	6.42	30	
Heptachlor	25.8	5.0	"	39.2	ND	65.7	30-120	15.1	30	
Aldrin	18.2	5.0	"	39.2	ND	46.3	30-120	4.69	30	
Dieldrin	56.9	5.0	"	39.2	55.6	3.28	30-120	192	30	QM-0'
Endrin	26.8	5.0	"	39.2	1.15	65.4	30-120	20.5	30	
4,4'-DDT	34.6	5.0	"	39.2	10.8	60.7	30-120	11.6	30	
Surrogate: Tetrachloro-meta-xylene	4.53		"	9.80		46.2	35-140			
	4.90		"	9.80		50.0	35-140			

gamma-BHC (Lindane)	ND	5.0	"
beta-BHC	ND	5.0	"
delta-BHC	ND	5.0	"
Heptachlor	ND	5.0	"
Aldrin	ND	5.0	"
Heptachlor epoxide	ND	5.0	"
gamma-Chlordane	ND	5.0	"

ND

5.0

ug/kg

alpha-Chlordane ND 5.0 5.0 Endosulfan I ND 4,4'-DDE ND 5.0 Dieldrin ND 5.0 Endrin ND 5.0 4,4'-DDD ND 5.0

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Blank (6080431-BLK1)

alpha-BHC

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Daniel Chavez, Project Manager



RPD

%REC

Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 14:15

Reporting

$Organochlorine\ Pesticides\ by\ EPA\ Method\ 8081A-Quality\ Control$

SunStar Laboratories, Inc.

Spike

Source

		recporting		Spine	Bource		, or the		IG D	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6080431 - EPA 3510C GCMS/ECD										
Blank (6080431-BLK1)				Prepared: (08/04/16 A	nalyzed: 08	3/05/16			
Endosulfan II	ND	5.0	ug/kg							
4,4'-DDT	ND	5.0	"							
Endrin aldehyde	ND	5.0	"							
Endosulfan sulfate	ND	5.0	"							
Methoxychlor	ND	10	"							
Endrin ketone	ND	5.0	"							
Toxaphene	ND	200	"							
Surrogate: Tetrachloro-meta-xylene	14.3		"	9.89		145	35-140			S-GC
Surrogate: Decachlorobiphenyl	11.6		"	9.89		117	35-140			
LCS (6080431-BS1)				Prepared: (08/04/16 A	nalyzed: 08	3/05/16			
gamma-BHC (Lindane)	ND	5.0	ug/kg	39.6			40-120			
Heptachlor	ND	5.0	"	39.6			40-120			
Aldrin	ND	5.0	"	39.6			40-120			
Dieldrin	ND	5.0	"	39.6			40-120			
Endrin	ND	5.0	"	39.6			40-120			
4,4'-DDT	ND	5.0	"	39.6			33-147			
Surrogate: Tetrachloro-meta-xylene	0.00		"	9.89			35-140			
Surrogate: Decachlorobiphenyl	0.00		"	9.89			35-140			
LCS Dup (6080431-BSD1)				Prepared: (08/04/16 A	nalyzed: 08	3/05/16			
gamma-BHC (Lindane)	ND	5.0	ug/kg	40.0			40-120		30	
Heptachlor	ND	5.0	"	40.0			40-120		30	
Aldrin	ND	5.0	"	40.0			40-120		30	
Dieldrin	ND	5.0	"	40.0			40-120		30	
Endrin	ND	5.0	"	40.0			40-120		30	
4,4'-DDT	ND	5.0	"	40.0			33-147		30	
Surrogate: Tetrachloro-meta-xylene	0.00		"	9.99			35-140			
Surrogate: Decachlorobiphenyl	0.00		"	9.99			35-140			

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 14:15

Notes and Definitions

S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

R-07 Reporting limit for this compound(s) has been raised to account for dilution necessary due to high levels of interfering compound(s)

and/or matrix affect.

QM-07 The spike recovery and or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable

LCS recovery.

E The concentration indicated for this analyte is above the calibration range of the instrument. This value should be considered as an

estimate as the actual value may be higher.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.

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Surtar Laboratories, Inc.

Chain of Culldy Record

Providing Quality Analytical Services Nationwide 25712 Commercentre Drive, Lake Forest, CA 92630 949-297-5020

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Sample disposal Instructions: D	Disposal @	a) \$2.00	each		Return 1	to client			Picl	kup				Lui	a!	Junt	4 LIIII	حعا	11/21	PRI	 _	<u> </u>			· ·		

Su tar Laboratories, Inc.

Chain of Cuady Record

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive, Lake Forest, CA 92630 949-297-5020

Client: Ctoq Tech Address: 7885 Von Phone: G49 809-50 Project Manager:	Carma 38. Lim	m Av	e <u>, Suit</u> Fax: <u>194</u>	e500 9)8	o , I 209-	rvine 50/t	E	- - 			Pro Coll	lecto	Nan or:	ne: <u>J</u> Ha	301° 0°Z	ste	nel	~C	hine		Pag Clier EDF	nt Projec	6 t#:	_ Of		8	•
	Dat			San			ainer	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	2-	\$0.8 1 DCPS			aboratory ID #						Total # of containers
Sample ID	Samp		Time 1430	Ty Se		Ocer o	pe m des		82	82	82	8	8	8	8	00	90				<u>e</u>	Co	mmen Ho		eservati	<u>ve</u>	12
LB 43-51-06	11-4		1445	>9	<u> </u>	NUCEC	NE ZION	1										X			17			u C			\vdash
L843-SI-15			1445				·														18		HOL	<u>a</u>			T
LB43-51-2.5			1445																		19		1				\vdash
4843-52-05			1455																		20		\top				<u> </u>
1843-52-15			1455		Ì	1													<u> </u>		21		一			4,41	
L1343-52-2.5			1455																		22	.N/.	-	· · · ·		• .	T
LR52-W-0.5			1620		1													X			23	1 1 2 6	ž.				\vdash
13-2-N-15			1620		, j													•			24	1	HOLD	2			T
L1352-W-25	-		1620																		25		HOLD)		St	
LB62-5-05			1630						ĺ					-				X			26				19.		
LBS2-5-65	'		1630																		27		HOLIC	<u> </u>	Asia.	· · · · · · · · · · · · · · · · · · ·	П
LA52-5-2	4		1630															\Box			28		HOLD			***	
LB52-E-0.5			1640					1										X			29						
LB52-E-1.5	*		1640	•	,	3	,														30		Hou	2			
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Hao 2h	7/22	416	1030	_				-	7	-21	-M	įo"	30	Cha	ain o							[-	ه سید			***************************************	
Relinquished by: (signature)		ate / Ti	me	Rece	ived b	y: (sign	ature)			Date	e/T	ime	_			Se	als i	ntact	s Y (A) ? Y/N/	α Ω»							
7	7-22-16		1139		A	5/1		_				11:3							ition/c		4.6						
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			=			, , ,3,								L					 .		_						
		**												Tur	n ar	ound	l tim	e: <u> </u>	TAND	B.C	2_	L					
Sample disposal Instructions:	Disposal @	\$2.00 €	each	R	keturn 1	to client			Pick	cup.																	

Su tar Laboratories, Inc.

Chain of Culody Record

Providing Quality Analytical Services Nationwide 25712 Commercentre Drive, Lake Forest, CA 92630 949-297-5020

Client: Tota Tech			· · · · · · · · · · · · · · · · · · ·					-				e:				_				Pa	ge:	7	0	f <u> </u>	· · ·	
Address: 17885 Von Landres (944) 809-503	mn Ave B	<u>دي کښا</u> ——	eso , In Fax: (94 0	/j/kg /j/kg	, <u>CA</u> 69-50	10		-			Pro Col	ject lecto	Nan or:	ne: յ	30/2 ²	hem	_C	hm	•	Clie	nt Pro	ject #:_				
Project Manager: K	mye			ă.				-			Bat	ch#	:	TI	616	59				_ EDI	= #:					
														7.												
									OXY	TEX, OXY only		ТЕХ	8015M (gasoline)	8015M (diesel)	Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	OCP		ory ID #	*	\$	St.			Total # of containers
Sample ID		ate ipled	Time		mple ype	T	tainer ype	8260	8260 +	8260 BTEX,	8270	8021 BTEX	8015M	8015M	8015M	6010/70	6020 IC	उठ्ठ		Laboratory		Comm	ents/Pr	eservative		Total #
LB52-E-2.5	7/21	116	1640	Sc	TL.		TATE													31		HOL	P			
LB30-52-0.5			1655		1	SLE	eve.		1.											32		1.				
LB30-52-1.5			1655				1	1											<u> </u>	33				<u> </u>		
LB30-52-2.5			1655		<u> </u>		<u> </u>				<u> </u>									34		<u> </u>				
i B30-S1-0.5			1704				<u> </u>	丄										X		35						
LB30-51-1.5			1704																	36		HOU	0			
1830-51-2.5			1704																	37		Hor	D.			-
LB30-N1-0,5			1710															X		38						
LB30-NA-1.5			1710				N.	Т					•							39		1301	20			
2B30-N1-25			1710																	40						
LB30-N2-0.5			1720					1												ш				-		
LB30-N2-1.5			1720					1			<u> </u>									42						
LB30 -N2~25			1720				1		1											43						
1330-W2-0.5			1725				1													44						
LB30-W2-1.5	1	<i>f</i>	1725		+		V	┢												45	•		/			
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	<u> </u>	22-14	1139		7	////	han		7/	72/	1,01	1:39	•	R	ecei				lition/col	—	1					
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					· .	<u> </u>								Tur	n are	ound	tim	e:_ <i>_</i>	TONO	8R10				<u> </u>		<u>.</u> .
Sample disposal Instructions:	Disposal @	€ \$2.00	each		Return	to clien	t		Pic	kup _				-												7.77

Su tar Laboratories, Inc.

Chain of Cu. ody Record

Providing Quality Analytical Services Nationwide 25712 Commercentre Drive, Lake Forest, CA 92630 949-297-5020

Client: Tetra Tech					·	_			Dat	e: _	7/2	1/10	9						Pag	je:	_8_	Of _	_8	
Address: 17835 Von Kom Phone: (949)809-5038	ION AVE.	Sui	le 500, Ir	vine, CA		_			Pro	ject	Nan	າe:_ j ັ	3 ors	del	- (his	0							
Phone: (949)809-5038	•	,	Fax: (940	1)809-5	010			. • • •	Col	lecto ch #	or: \	too	7	w.e.					Clier	nt Pr	roject#:			
Project Manager: Roy L	ineu 0					_			Rat	ch #	. –	$\overline{\pi}$	616	59	2				_					
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e e	Dat			Sample		8260	8260	8260 BTEX,	8270	8021 BTEX	8015M (gasoline)	151	8015M Ext./Carbon Chain	10/	6020 ICP-MS Metals	8081			Laboratory					Total # of containers
Sample ID	Samp		Time	Туре	Type		8	18	8	8	80	8	8	90	90	00	_			₽.	Comme	nts/Pres	ervative	∟
LB30-W2-2.5	7/21/	116	1725	SOIL		+-		┼	├									٠	46	<u> </u> -1	HOLD			_
L1330-W1-0.5	+1		1732	\vdash	SLEEVE	+	-	+-	-	\vdash			_			\times			47	╀.				
LB30-W1-1,5		<u> </u>	1732				+	 											48		HOLP			
1330 -W1-25		1-	1742		 	+-	┼	+	├	\vdash		\dashv		-		×			50	+	HOLD			-
130-E1-05 130-E1-15		\vdash	1742			+	\vdash	╁	\vdash	-				-			-+		21	-	HOLD			+
LB30-E1-25	+ -	 	1742	 - 	-	+-	+	+-	╁	\vdash							\dashv		52		HOLD			+-
LB30_E2-0.5		 	1746			+	1-	T^-		╁─┤							十		53	-	HOLD			_
LB30-E2-1.5	+ -	 	1746	 		_		十一											54		HOLD			+
LB30-E2-2.5		,	1746	*	+						ŗ								55		HOLD			1.
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Relinquished by: (signature)	Da	ate / T		Received	by: (signature))		Dat	e/T	ime				. `						1				
				1								Tur	n ar	nunc	l tim	ۇ. خ	tā ai	PAR	D					
Sample disposal Instructions: D	isposal @	\$2.00	each	Retur	n to client		Pic	kup		<u> </u>		1 411		- 4110		~. <u></u>	1511	· NIC		<u> </u>				

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #:	T161659				
Client Name:	Tetra Tech - In	Project:	···	Borstein - C	hino
Delivered by:	☐ Client ⊠ SunSta	ar Courier 🔲 GSO	FedEx	Other	
If Courier, Received by:	Ja M.	Date/Time Co Received:		7-22-16	1030
Lab Received by:	Brian	Date/Time La Received:	ıb	7-22-16	1139
Total number of coolers re	eceived: O				
Temperature: Cooler #1	u. 8 °C +/- the CF	$(-0.2^{\circ}C) = U.6$	°C correct	ed temperature	
Temperature: Cooler #2	°C +/- the CF	$(-0.2^{\circ}C) =$	°C correct	ed temperature	
Temperature: Cooler #3	°C +/- the CF	(-0.2°C) =	°C correct	ed temperature	
Temperature criteria = < (no frozen containers)	≤6°C	Within criteria?	⊠Yes	□No	
If NO:					
Samples received	on ice?	Yes	□No → Complete	e Non-Conforma	ance Sheet
If on ice, samples collected?	received same day	☐Yes → Acceptable	□No →	e Non-Conforma	
Custody seals intact on co	oler/sample		Yes	□No* ⊠N/	A
Comple containers intest					
Sample containers intact			ĭYes	□No*	
Sample labels match Chai	n of Custody IDs				
•			— XYes	□No*	
Sample labels match Chai	s received match COC	on COC	_ ∐Yes	□No*	
Sample labels match Chair Total number of container Proper containers received Proper preservative indica	s received match COC I for analyses requested outed on COC/containers for	or analyses requested	✓Yes ✓Yes ✓Yes	□No* ☑No* □No*	
Sample labels match Chair Total number of container Proper containers received	s received match COC I for analyses requested outed on COC/containers for the containers of the conta	or analyses requested h correct temperatures,	✓ Yes✓ Yes✓ Yes✓ Yes	□No* □No* □No* □No*	
Sample labels match Chair Total number of containers Proper containers received Proper preservative indicated Complete shipment received containers, labels, volume	s received match COC If for analyses requested of ted on COC/containers for red in good condition with s preservatives and within	or analyses requested h correct temperatures, n method specified	✓ Yes✓ Yes✓ Yes✓ Yes✓ Yes	□No* □No* □No* □No* □No* □No* □No* □No*	
Sample labels match Chair Total number of container Proper containers received Proper preservative indicat Complete shipment receive containers, labels, volume holding times * Complete Non-Conforman	s received match COC If for analyses requested of ted on COC/containers for ted in good condition with s preservatives and within the Receiving Sheet if check	or analyses requested h correct temperatures, n method specified		□No* □No* □No* □No* □No* □No* □No* and date:	A DM 7-22-16

SAMPLE NON-CONFORMANCE SHEET

Batch/Work Ord	er#	T1616	,59	:	_					
■ COOLERS Not Receive Leaking/Da Other: CUSTODY SE None Not Intact TEMPERATU Cooler/Sam Temperatur CHAIN OF CU Not relinqui Incomplete COC not receive CONTAINERS Leaking Extra Extra	RE (Temp ple Temp(s e Blank(s) JSTODY (ished by clinformation ceived – no	criteria COC) ent; No con providentify PM roken issing	=≤6°C date/time	e relinquish	E SZ 5 5 E E E E E E E E E E E E E E E E E	Incomp Markin AMPLE Sample Sample Logged Logged Insuffic Improp Mislab Holdin Not pre Withou	plete Informs/	reaction illegible RECEIV ed but NO on Label In ing to Wor HOLD u antities for iner used to tests, pre xpired — li Improper p s, no inform	ED but lis T LISTE nformation of Plan and ntil further analysis eservative st sample preservation anation on	s, etc. ID and test ve used containers
Received sample	1870-S	2 ~ 0.5	1.5 2	5 + LB2	2 - E - 0.5	, 1.5, 2.	s but	are not	01 COC	
Sample fractioning only	- ["									
Fraction										Preser.
VOA										

Printed: 7/22/2016 2:54:51P



WORK ORDER

T161659

Client: Tetra Tech -- Irvine Project Manager: Daniel Chavez

Project: Borstein - Chino Project Number: [none]

Report To:

Tetra Tech -- Irvine

Ravi Limaye

17885 Von Karman Ave. #500

Irvine, CA 92614

Date Due: 07/29/16 15:00 (5 day TAT)

Received By: Brian Charon Date Received: 07/22/16 11:39
Logged In By: Dan Marteski Date Logged In: 07/22/16 12:59

Samples Received at: 4.6°C

4.0 C

Custody Seals No Received On Ice Yes

COC/Labels Agree Yes
Preservation Confir No

Analysis Due TAT Expires Comments

T161659-01 LB43-W2-1.5 [Soil] Sampled 07/21/16 13:40 (GMT-08:00) Pacific HOLD

Time (US & [NO ANALYSES]

T161659-02 LB43-W2-2.5 [Soil] Sampled 07/21/16 13:40 (GMT-08:00) Pacific HOLD

Time (US &

T161659-03 LB43-W1-0.5 [Soil] Sampled 07/21/16 14:00 (GMT-08:00) Pacific

Time (US &

[NO ANALYSES]

8081 Pesticides 07/29/16 15:00 5 08/04/16 14:00

T161659-04 LB43-W1-1.5 [Soil] Sampled 07/21/16 14:00 (GMT-08:00) Pacific HOLD Time (US &

[NO ANALYSES]

T161659-05 LB43-W1-2.5 [Soil] Sampled 07/21/16 14:00 (GMT-08:00) Pacific HOLD Time (US &

[NO ANALYSES]

T161659-06 LB43-E1-0.5 [Soil] Sampled 07/21/16 14:10 (GMT-08:00) Pacific

Time (US &

8081 Pesticides 07/29/16 15:00 5 08/04/16 14:10

T161659-07 LB43-E1-1.5 [Soil] Sampled 07/21/16 14:10 (GMT-08:00) Pacific HOLD

Time (US & [NO ANALYSES]

T161659-08 LB43-E1-2.5 [Soil] Sampled 07/21/16 14:10 (GMT-08:00) Pacific HOLD

Time (US &

[NO ANALYSES]

Printed: 7/22/2016 2:54:51P



WORK ORDER

T161659

Client: Tetra Tech -- Irvine **Project Manager: Daniel Chavez** Project: Borstein - Chino **Project Number:** [none] TAT **Analysis** Due **Expires** Comments T161659-09 LB43-E2-0.5 [Soil] Sampled 07/21/16 14:20 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-10 LB43-E2-1.5 [Soil] Sampled 07/21/16 14:20 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-11 LB43-E2-2.5 [Soil] Sampled 07/21/16 14:20 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-12 LB43-N2-0.5 [Soil] Sampled 07/21/16 14:25 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-13 LB43-N2-2.5 [Soil] Sampled 07/21/16 14:25 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-14 LB43-N1-0.5 [Soil] Sampled 07/21/16 14:30 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 08/04/16 14:30 T161659-15 LB43-N1-1.5 [Soil] Sampled 07/21/16 14:30 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-16 LB43-N1-2.5 [Soil] Sampled 07/21/16 14:30 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-17 LB43-S1-0.5 [Soil] Sampled 07/21/16 14:45 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 5 08/04/16 14:45 T161659-18 LB43-S1-1.5 [Soil] Sampled 07/21/16 14:45 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-19 LB43-S1-2.5 [Soil] Sampled 07/21/16 14:45 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-20 LB43-S2-0.5 [Soil] Sampled 07/21/16 14:55 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES]

Printed: 7/22/2016 2:54:51P.



WORK ORDER

T161659

Client: Tetra Tech -- Irvine **Project Manager: Daniel Chavez** Project: Borstein - Chino **Project Number:** [none] TAT **Analysis** Due **Expires** Comments T161659-21 LB43-S2-1.5 [Soil] Sampled 07/21/16 14:55 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-22 LB43-S2-2.5 [Soil] Sampled 07/21/16 14:55 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-23 LB52-W-0.5 [Soil] Sampled 07/21/16 16:20 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 08/04/16 16:20 T161659-24 LB52-W-1.5 [Soil] Sampled 07/21/16 16:20 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-25 LB52-W-2.5 [Soil] Sampled 07/21/16 16:20 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-26 LB52-S-0.5 [Soil] Sampled 07/21/16 16:30 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 08/04/16 16:30 T161659-27 LB52-S-1.5 [Soil] Sampled 07/21/16 16:30 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-28 LB52-S-2.5 [Soil] Sampled 07/21/16 16:30 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-29 LB52-E-0.5 [Soil] Sampled 07/21/16 16:40 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 5 08/04/16 16:40 T161659-30 LB52-E-1.5 [Soil] Sampled 07/21/16 16:40 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-31 LB52-E-2.5 [Soil] Sampled 07/21/16 16:40 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-32 LB30-S2-0.5 [Soil] Sampled 07/21/16 16:55 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES]

Printed: 7/22/2016 2:54:51P.



WORK ORDER

T161659

Client: Tetra Tech -- Irvine **Project Manager: Daniel Chavez** Project: Borstein - Chino **Project Number:** [none] TAT **Analysis** Due **Expires** Comments T161659-33 LB30-S2-1.5 [Soil] Sampled 07/21/16 16:55 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-34 LB30-S2-2.5 [Soil] Sampled 07/21/16 16:55 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-35 LB30-S1-0.5 [Soil] Sampled 07/21/16 17:04 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 08/04/16 17:04 T161659-36 LB30-S1-1.5 [Soil] Sampled 07/21/16 17:04 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-37 LB30-S1-2.5 [Soil] Sampled 07/21/16 17:04 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-38 LB30-S2-0.5 [Soil] Sampled 07/21/16 17:10 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 08/04/16 17:10 T161659-39 LB30-S2-1.5 [Soil] Sampled 07/21/16 17:10 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-40 LB30-S2-2.5 [Soil] Sampled 07/21/16 17:10 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-41 LB30-N2-0.5 [Soil] Sampled 07/21/16 17:20 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-42 LB30-N2-1.5 [Soil] Sampled 07/21/16 17:20 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-43 LB30-N2-2.5 [Soil] Sampled 07/21/16 17:20 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-44 LB30-W2-0.5 [Soil] Sampled 07/21/16 17:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES]



Printed: 7/22/2016 2:54:51P

WORK ORDER

T161659

Client: Tetra Tech -- Irvine **Project Manager: Daniel Chavez Project Number:** Project: Borstein - Chino [none] TAT **Analysis** Due **Expires** Comments T161659-45 LB30-W2-1.5 [Soil] Sampled 07/21/16 17:25 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-46 LB30-W2-2.5 [Soil] Sampled 07/21/16 17:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES] T161659-47 LB30-W1-0.5 [Soil] Sampled 07/21/16 17:32 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 08/04/16 17:32 T161659-48 LB30-W1-1.5 [Soil] Sampled 07/21/16 17:32 (GMT-08:00) Pacific Time (US & [NO ANALYSES] T161659-49 LB30-W1-2.5 [Soil] Sampled 07/21/16 17:32 (GMT-08:00) Pacific Time (US & [NO ANALYSES] T161659-50 LB30-E1-0.5 [Soil] Sampled 07/21/16 17:42 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 08/04/16 17:42 T161659-51 LB30-E1-1.5 [Soil] Sampled 07/21/16 17:42 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-52 LB30-E1-2.5 [Soil] Sampled 07/21/16 17:42 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-53 LB30-E2-0.5 [Soil] Sampled 07/21/16 17:46 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-54 LB30-E2-1.5 [Soil] Sampled 07/21/16 17:46 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-55 LB30-E2-2.5 [Soil] Sampled 07/21/16 17:46 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES]

Reviewed By Date Page 5 of



05 August 2016

Ravi Limaye Tetra Tech -- Irvine 17885 Von Karman Ave. #500 Irvine, CA 92614

Saniel & Chivy

RE: Borstein - Chino

Enclosed are the results of analyses for samples received by the laboratory on 07/22/16 11:39. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Chavez

Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LB43-W2-2.5	T161659-02	Soil	07/21/16 13:40	07/22/16 11:39
LB43-W1-2.5	T161659-05	Soil	07/21/16 14:00	07/22/16 11:39
LB43-E1-2.5	T161659-08	Soil	07/21/16 14:10	07/22/16 11:39
LB43-E2-2.5	T161659-11	Soil	07/21/16 14:20	07/22/16 11:39
LB43-N2-2.5	T161659-13	Soil	07/21/16 14:25	07/22/16 11:39
LB43-N1-2.5	T161659-16	Soil	07/21/16 14:30	07/22/16 11:39
LB43-S1-2.5	T161659-19	Soil	07/21/16 14:45	07/22/16 11:39
LB43-S2-2.5	T161659-22	Soil	07/21/16 14:55	07/22/16 11:39

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Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:05

DETECTIONS SUMMARY

Sample ID: LB43-W2-2.5 **Laboratory ID:** T161659-02

No Results Detected

Sample ID: LB43-W1-2.5 Laboratory ID: T161659-05

No Results Detected

Sample ID: LB43-E1-2.5 **Laboratory ID:** T161659-08

No Results Detected

Sample ID: LB43-E2-2.5 Laboratory ID: T161659-11

No Results Detected

Sample ID: LB43-N2-2.5 Laboratory ID: T161659-13

No Results Detected

Sample ID: LB43-N1-2.5 Laboratory ID: T161659-16

No Results Detected

SunStar Laboratories, Inc.

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Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:05

Sample ID: LB43-S1-2.5 **Laboratory ID:** T161659-19

No Results Detected

Sample ID: LB43-S2-2.5 Laboratory ID: T161659-22

No Results Detected

SunStar Laboratories, Inc.

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Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:05

LB43-W2-2.5 T161659-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Organochlorine Pesticides by EPA Met	hod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6080329	08/03/16	08/04/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4´-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		84.0 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		61.6 %	35-	140	"	"	"	"	

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:05

LB43-W1-2.5 T161659-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Organochlorine Pesticides by EPA Mo	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6080329	08/03/16	08/04/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4′-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4′-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		80.0 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		61.4 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager

Samil & Chivy



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:05

LB43-E1-2.5 T161659-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Mo	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6080329	08/03/16	08/04/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4′-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		82.8 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		59.5 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:05

LB43-E2-2.5 T161659-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Mo	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6080329	08/03/16	08/04/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4´-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		98.4 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		70.0 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:05

LB43-N2-2.5 T161659-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6080329	08/03/16	08/04/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4′-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		96.9 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		69.1 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:05

LB43-N1-2.5 T161659-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6080329	08/03/16	08/04/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4′-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		123 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		88.9 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:05

LB43-S1-2.5 T161659-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Mo	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6080329	08/03/16	08/04/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4´-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		90.6 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		65.2 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:05

LB43-S2-2.5 T161659-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6080329	08/03/16	08/04/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4′-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		71.9 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		54.6 %	35-	140	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:05

Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (6080329-BLK1)				Prepared: 08/03/	16 Analyzed: 08	/04/16
alpha-BHC	ND	5.0	ug/kg			
gamma-BHC (Lindane)	ND	5.0	"			
beta-BHC	ND	5.0	"			
delta-BHC	ND	5.0	"			
Heptachlor	ND	5.0	"			
Aldrin	ND	5.0	"			
Heptachlor epoxide	ND	5.0	"			
gamma-Chlordane	ND	5.0	"			
alpha-Chlordane	ND	5.0	"			
Endosulfan I	ND	5.0	"			
4,4′-DDE	ND	5.0	"			
Dieldrin	ND	5.0	"			
Endrin	ND	5.0	"			
4,4′-DDD	ND	5.0	"			
Endosulfan II	ND	5.0	"			
4,4'-DDT	ND	5.0	"			
Endrin aldehyde	ND	5.0	"			
Endosulfan sulfate	ND	5.0	"			
Methoxychlor	ND	10	"			
Endrin ketone	ND	5.0	"			
Toxaphene	ND	200	"			
Surrogate: Tetrachloro-meta-xylene	8.19		"	9.98	82.1	35-140
Surrogate: Decachlorobiphenyl	5.62		"	9.98	56.3	35-140
LCS (6080329-BS1)				Prepared: 08/03/	16 Analyzed: 08	/04/16
gamma-BHC (Lindane)	24.9	5.0	ug/kg	39.9	62.4	40-120
Heptachlor	22.3	5.0	"	39.9	56.0	40-120
Aldrin	23.4	5.0	"	39.9	58.6	40-120
Dieldrin	25.3	5.0	"	39.9	63.4	40-120
Endrin	22.3	5.0	"	39.9	56.0	40-120
4,4′-DDT	16.4	5.0	"	39.9	41.0	33-147
Surrogate: Tetrachloro-meta-xylene	11.5		"	9.98	116	35-140
Surrogate: Decachlorobiphenyl	7.52		"	9.98	75.3	35-140

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:05

$Organochlorine\ Pesticides\ by\ EPA\ Method\ 8081A-Quality\ Control$

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6080329 - EPA 3550 ECD/GCMS										
LCS Dup (6080329-BSD1)				Prepared: (08/03/16 Aı	nalyzed: 08	/04/16			
gamma-BHC (Lindane)	23.6	5.0	ug/kg	39.9		59.2	40-120	5.31	30	
Heptachlor	21.2	5.0	"	39.9		53.2	40-120	5.09	30	
Aldrin	21.7	5.0	"	39.9		54.3	40-120	7.52	30	
Dieldrin	23.6	5.0	"	39.9		59.0	40-120	7.12	30	
Endrin	20.2	5.0	"	39.9		50.6	40-120	10.1	30	
4,4'-DDT	18.9	5.0	"	39.9		47.3	33-147	14.4	30	
Surrogate: Tetrachloro-meta-xylene	10.8		"	9.98		108	35-140			
Surrogate: Decachlorobiphenyl	7.03		"	9.98		70.4	35-140			

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500Project Number: [none]Reported:Irvine CA, 92614Project Manager: Ravi Limaye08/05/16 11:05

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Surtar Laboratories, Inc.

Chain of Culldy Record

Providing Quality Analytical Services Nationwide 25712 Commercentre Drive, Lake Forest, CA 92630 949-297-5020

Client: TetmTech Address: 17855 Von Kar			Call EN	<u> </u>	~1'\~ a	CÀ						e: ject									Pag	e:	5	Of _	_8_		
Address: 17835 Von Ka Phone: (949) 809-5038	Wen We	renue,	Fax: (949)80	9 -50	10		-													Clier	nt Pro	iect #:				
Project Manager: Revi						•					Bat	ch #	:	T	1610	o59	7				EDF				T		
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					!				λXC	EX, OXY only		EX	8015M (gasoline)	diesel)	8015M Ext./Carbon C	6010/7000 Title 22 M	6020 ICP-MS Metals	8081 OCP 5	ig y		ory ID#		·				Total # of containers
grafia de grafia de la composição de l		ate		Sar	mple	Contai	ner	8260	09 + 09	8260 BTEX,	8270	8021 BTEX	15M (15M (15M E	10/70	20 ICF	781 C			aboratory ID						tal#c
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Su tar Laboratories, Inc.

Chain of Cuady Record

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive, Lake Forest, CA 92630 949-297-5020

Client: Ctoq Tech Address: 7885 Von Phone: G49 809-50 Project Manager:	Carma 38. Lim	m Av	e <u>, Suit</u> Fax: <u>194</u>	e500 9)8	o , I 209-	rvine 50/t	E	- - 			Pro Coll	lecto	Nan or:	ne: <u>J</u> Ha	301° 0°Z	ste	nel	~C	hine		Pag Clier EDF	nt Projec	6 t#:	_ Of		8	•
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Su tar Laboratories, Inc.

Chain of Culody Record

Providing Quality Analytical Services Nationwide 25712 Commercentre Drive, Lake Forest, CA 92630 949-297-5020

Client: Tota Tech			· · · · · · · · · · · · · · · · · · ·					-				e:				_				Pa	ge:	7	0	f <u> </u>	· ·	
Address: 17885 Von Landres (944) 809-503	mn Ave B	<u>دي ک</u> ښه ——	eso , In Fax: (94 0	/j/kg /j/kg	, <u>CA</u> 69-50	10		-			Pro Col	ject lecto	Nan or:	ne: յ	30/2 ²	lem hu	_C	hm	•	Clie	nt Pro	ject #:_				
Project Manager: K	mye			ă.				-			Bat	ch#	:	TI	616	59				_ EDI	= #:					
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									OXY	TEX, OXY only		ТЕХ	8015M (gasoline)	8015M (diesel)	Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	OCP		ory ID #	*	\$	St.			Total # of containers
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Sample disposal Instructions:	Disposal @	€ \$2.00	each		Return	to clien	t		Pic	kup _				-												7.77

Su tar Laboratories, Inc.

Chain of Cu. ody Record

Providing Quality Analytical Services Nationwide 25712 Commercentre Drive, Lake Forest, CA 92630 949-297-5020

Client: Tetra Tech					·	_			Dat	e: _	7/2	1/10	9						Pag	je:	_8_	Of _	_8	
Address: 17835 Von Kom Phone: (949)809-5038	ION AVE.	Sui	le 500, Ir	vine, CA		_			Pro	ject	Nan	າe:_ j ັ	3 ors	del	- (his	0							
Phone: (949)809-5038	•	,	Fax: (940	1)809-5	010			. • • •	Col	lecto ch #	or: \	too	7	w.e.					Clier	nt Pr	roject #:			
Project Manager: Roy L	ineu 0					_			Rat	ch #	. –	$\overline{\pi}$	616	59	2				_					
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Relinquished by: (signature)	Da	ate / T		Received	by: (signature))		Dat	e/T	ime				. `						1				
				1								Tur	n ar	nunc	l tim	ۇ. خ	tā ai	PAR	D					
Sample disposal Instructions: D	isposal @	\$2.00	each	Retur	n to client		Pic	kup		<u> </u>		1 411		- 4110		~. <u></u>	1571	· NIC		<u> </u>				

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #:	T161659				
Client Name:	Tetra Tech - In	Project:	···	Borstein - C	hino
Delivered by:	☐ Client ⊠ SunSta	ar Courier 🔲 GSO	FedEx	Other	
If Courier, Received by:	Ja M.	Date/Time Co Received:		7-22-16	1030
Lab Received by:	Brian	Date/Time La Received:	ıb	7-22-16	1139
Total number of coolers re	eceived: O				
Temperature: Cooler #1	u. 8 °C +/- the CF	$(-0.2^{\circ}C) = U.6$	°C correct	ed temperature	
Temperature: Cooler #2	°C +/- the CF	$(-0.2^{\circ}C) =$	°C correct	ed temperature	
Temperature: Cooler #3	°C +/- the CF	(-0.2°C) =	°C correct	ed temperature	
Temperature criteria = < (no frozen containers)	≤6°C	Within criteria?	⊠Yes	□No	
If NO:					
Samples received	on ice?	Yes	□No → Complete	e Non-Conforma	ance Sheet
If on ice, samples collected?	received same day	☐Yes → Acceptable	□No →	e Non-Conforma	
Custody seals intact on co	oler/sample		Yes	□No* ⊠N/	A
Comple containers intest					
Sample containers intact			ĭYes	□No*	
Sample labels match Chai	n of Custody IDs				
•			— XYes	□No*	
Sample labels match Chai	s received match COC	on COC	_ ∐Yes	□No*	
Sample labels match Chair Total number of container Proper containers received Proper preservative indica	s received match COC I for analyses requested outed on COC/containers for	or analyses requested	✓Yes ✓Yes ✓Yes	□No* ☑No* □No*	
Sample labels match Chair Total number of container Proper containers received	s received match COC I for analyses requested outed on COC/containers for the containers of the conta	or analyses requested h correct temperatures,	✓ Yes✓ Yes✓ Yes✓ Yes	□No* □No* □No* □No*	
Sample labels match Chair Total number of containers Proper containers received Proper preservative indicates Complete shipment received containers, labels, volume	s received match COC If for analyses requested of ted on COC/containers for red in good condition with s preservatives and within	or analyses requested h correct temperatures, n method specified	✓ Yes✓ Yes✓ Yes✓ Yes✓ Yes	□No* □No* □No* □No* □No* □No* □No* □No*	
Sample labels match Chair Total number of container Proper containers received Proper preservative indicat Complete shipment receive containers, labels, volume holding times * Complete Non-Conforman	s received match COC If for analyses requested of ted on COC/containers for ted in good condition with s preservatives and within the Receiving Sheet if check	or analyses requested h correct temperatures, n method specified		□No* □No* □No* □No* □No* □No* □No* and date:	A DM 7-22-16

SAMPLE NON-CONFORMANCE SHEET

Batch/Work Ord	er#	T1616	,59	:	_					
■ COOLERS Not Receive Leaking/Da Other: CUSTODY SE None Not Intact TEMPERATU Cooler/Sam Temperatur CHAIN OF CU Not relinqui Incomplete COC not receive CONTAINERS Leaking Extra Extra	RE (Temp ple Temp(s e Blank(s) JSTODY (ished by clinformation ceived – no	criteria COC) ent; No con providentify PM roken issing	=≤6°C date/time	e relinquish	E SZ 5 5 E E E E E E E E E E E E E E E E E	Incomp Markin AMPLE Sample Sample Logged Logged Insuffic Improp Mislab Holdin Not pre Withou	plete Informs/	reaction illegible RECEIV ed but NO on Label In ing to Wor HOLD u antities for iner used to tests, pre xpired — li Improper p s, no inform	ED but lis T LISTE nformation of Plan and ntil further analysis eservative st sample preservation anation on	s, etc. ID and test ve used containers
Received sample	1870-S	2 ~ 0.5	1.5 2	5 + LB2	2 - E - 0.5	, 1.5, 2.	s but	are not	01 COC	
Sample fractioning only	- ["									
Fraction										Preser.
VOA										

Printed: 7/22/2016 2:54:51P



WORK ORDER

T161659

Client: Tetra Tech -- Irvine Project Manager: Daniel Chavez

Project: Borstein - Chino Project Number: [none]

Report To:

Tetra Tech -- Irvine

Ravi Limaye

17885 Von Karman Ave. #500

Irvine, CA 92614

Date Due: 07/29/16 15:00 (5 day TAT)

Received By: Brian Charon Date Received: 07/22/16 11:39
Logged In By: Dan Marteski Date Logged In: 07/22/16 12:59

Samples Received at: 4.6°C

4.0 C

Custody Seals No Received On Ice Yes

COC/Labels Agree Yes
Preservation Confir No

Analysis Due TAT Expires Comments

T161659-01 LB43-W2-1.5 [Soil] Sampled 07/21/16 13:40 (GMT-08:00) Pacific HOLD

Time (US & [NO ANALYSES]

T161659-02 LB43-W2-2.5 [Soil] Sampled 07/21/16 13:40 (GMT-08:00) Pacific HOLD

Time (US &

T161659-03 LB43-W1-0.5 [Soil] Sampled 07/21/16 14:00 (GMT-08:00) Pacific

Time (US &

[NO ANALYSES]

8081 Pesticides 07/29/16 15:00 5 08/04/16 14:00

T161659-04 LB43-W1-1.5 [Soil] Sampled 07/21/16 14:00 (GMT-08:00) Pacific HOLD Time (US &

[NO ANALYSES]

T161659-05 LB43-W1-2.5 [Soil] Sampled 07/21/16 14:00 (GMT-08:00) Pacific HOLD Time (US &

[NO ANALYSES]

T161659-06 LB43-E1-0.5 [Soil] Sampled 07/21/16 14:10 (GMT-08:00) Pacific

Time (US &

8081 Pesticides 07/29/16 15:00 5 08/04/16 14:10

T161659-07 LB43-E1-1.5 [Soil] Sampled 07/21/16 14:10 (GMT-08:00) Pacific HOLD

Time (US & [NO ANALYSES]

T161659-08 LB43-E1-2.5 [Soil] Sampled 07/21/16 14:10 (GMT-08:00) Pacific HOLD

Time (US &

[NO ANALYSES]

Printed: 7/22/2016 2:54:51P



WORK ORDER

T161659

Client: Tetra Tech -- Irvine **Project Manager: Daniel Chavez** Project: Borstein - Chino **Project Number:** [none] TAT **Analysis** Due **Expires** Comments T161659-09 LB43-E2-0.5 [Soil] Sampled 07/21/16 14:20 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-10 LB43-E2-1.5 [Soil] Sampled 07/21/16 14:20 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-11 LB43-E2-2.5 [Soil] Sampled 07/21/16 14:20 (GMT-08:00) Pacific **HOLD** Time (US & [NO ANALYSES] T161659-12 LB43-N2-0.5 [Soil] Sampled 07/21/16 14:25 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-13 LB43-N2-2.5 [Soil] Sampled 07/21/16 14:25 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-14 LB43-N1-0.5 [Soil] Sampled 07/21/16 14:30 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 08/04/16 14:30 T161659-15 LB43-N1-1.5 [Soil] Sampled 07/21/16 14:30 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-16 LB43-N1-2.5 [Soil] Sampled 07/21/16 14:30 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-17 LB43-S1-0.5 [Soil] Sampled 07/21/16 14:45 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 5 08/04/16 14:45 T161659-18 LB43-S1-1.5 [Soil] Sampled 07/21/16 14:45 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-19 LB43-S1-2.5 [Soil] Sampled 07/21/16 14:45 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-20 LB43-S2-0.5 [Soil] Sampled 07/21/16 14:55 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES]

Printed: 7/22/2016 2:54:51P.



WORK ORDER

T161659

Client: Tetra Tech -- Irvine **Project Manager: Daniel Chavez** Project: Borstein - Chino **Project Number:** [none] TAT **Analysis** Due **Expires** Comments T161659-21 LB43-S2-1.5 [Soil] Sampled 07/21/16 14:55 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-22 LB43-S2-2.5 [Soil] Sampled 07/21/16 14:55 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-23 LB52-W-0.5 [Soil] Sampled 07/21/16 16:20 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 08/04/16 16:20 T161659-24 LB52-W-1.5 [Soil] Sampled 07/21/16 16:20 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-25 LB52-W-2.5 [Soil] Sampled 07/21/16 16:20 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-26 LB52-S-0.5 [Soil] Sampled 07/21/16 16:30 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 08/04/16 16:30 T161659-27 LB52-S-1.5 [Soil] Sampled 07/21/16 16:30 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-28 LB52-S-2.5 [Soil] Sampled 07/21/16 16:30 (GMT-08:00) Pacific **HOLD** Time (US & [NO ANALYSES] T161659-29 LB52-E-0.5 [Soil] Sampled 07/21/16 16:40 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 5 08/04/16 16:40 T161659-30 LB52-E-1.5 [Soil] Sampled 07/21/16 16:40 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-31 LB52-E-2.5 [Soil] Sampled 07/21/16 16:40 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-32 LB30-S2-0.5 [Soil] Sampled 07/21/16 16:55 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES]

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WORK ORDER

T161659

Client: Tetra Tech -- Irvine **Project Manager: Daniel Chavez** Project: Borstein - Chino **Project Number:** [none] TAT **Analysis** Due **Expires** Comments T161659-33 LB30-S2-1.5 [Soil] Sampled 07/21/16 16:55 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-34 LB30-S2-2.5 [Soil] Sampled 07/21/16 16:55 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-35 LB30-S1-0.5 [Soil] Sampled 07/21/16 17:04 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 08/04/16 17:04 T161659-36 LB30-S1-1.5 [Soil] Sampled 07/21/16 17:04 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-37 LB30-S1-2.5 [Soil] Sampled 07/21/16 17:04 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-38 LB30-S2-0.5 [Soil] Sampled 07/21/16 17:10 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 08/04/16 17:10 T161659-39 LB30-S2-1.5 [Soil] Sampled 07/21/16 17:10 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-40 LB30-S2-2.5 [Soil] Sampled 07/21/16 17:10 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-41 LB30-N2-0.5 [Soil] Sampled 07/21/16 17:20 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-42 LB30-N2-1.5 [Soil] Sampled 07/21/16 17:20 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-43 LB30-N2-2.5 [Soil] Sampled 07/21/16 17:20 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-44 LB30-W2-0.5 [Soil] Sampled 07/21/16 17:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES]



Printed: 7/22/2016 2:54:51P

WORK ORDER

T161659

Client: Tetra Tech -- Irvine **Project Manager: Daniel Chavez Project Number:** Project: Borstein - Chino [none] TAT **Analysis** Due **Expires** Comments T161659-45 LB30-W2-1.5 [Soil] Sampled 07/21/16 17:25 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-46 LB30-W2-2.5 [Soil] Sampled 07/21/16 17:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES] T161659-47 LB30-W1-0.5 [Soil] Sampled 07/21/16 17:32 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 08/04/16 17:32 T161659-48 LB30-W1-1.5 [Soil] Sampled 07/21/16 17:32 (GMT-08:00) Pacific Time (US & [NO ANALYSES] T161659-49 LB30-W1-2.5 [Soil] Sampled 07/21/16 17:32 (GMT-08:00) Pacific Time (US & [NO ANALYSES] T161659-50 LB30-E1-0.5 [Soil] Sampled 07/21/16 17:42 (GMT-08:00) Pacific Time (US & 8081 Pesticides 07/29/16 15:00 08/04/16 17:42 T161659-51 LB30-E1-1.5 [Soil] Sampled 07/21/16 17:42 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-52 LB30-E1-2.5 [Soil] Sampled 07/21/16 17:42 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-53 LB30-E2-0.5 [Soil] Sampled 07/21/16 17:46 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-54 LB30-E2-1.5 [Soil] Sampled 07/21/16 17:46 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161659-55 LB30-E2-2.5 [Soil] Sampled 07/21/16 17:46 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES]

Reviewed By Date Page 5 of



01 August 2016

Ravi Limaye Tetra Tech -- Irvine 17885 Von Karman Ave. #500 Irvine, CA 92614

RE: Borstein - Chino

Enclosed are the results of analyses for samples received by the laboratory on 07/25/16 16:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Chavez

Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

 17885 Von Karman Ave. #500
 Project Number: 194-5733
 Reported:

 Irvine CA, 92614
 Project Manager: Ravi Limaye
 08/01/16 23:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TtSB-01-0.5	T161680-01	Soil	07/25/16 07:34	07/25/16 16:10
TtSB-04-0.5	T161680-13	Soil	07/25/16 08:14	07/25/16 16:10
TtSB-Composite-0.5	T161680-19	Soil	07/25/16 08:20	07/25/16 16:10
TtSB-07-0.5	T161680-28	Soil	07/25/16 08:55	07/25/16 16:10
Tt-Composite 2-0.5	T161680-33	Soil	07/25/16 09:00	07/25/16 16:10
UST-N-15	T161680-38	Soil	07/25/16 09:34	07/25/16 16:10
UST-E-15	T161680-43	Soil	07/25/16 09:54	07/25/16 16:10
UST-S-15	T161680-48	Soil	07/25/16 10:09	07/25/16 16:10
Septic Tank-1-7.5	T161680-50	Soil	07/25/16 11:16	07/25/16 16:10
Septic Tank-2-7.5	T161680-53	Soil	07/25/16 11:41	07/25/16 16:10

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Tetra Tech -- Irvine

Irvine CA, 92614

Project: Borstein - Chino

17885 Von Karman Ave. #500

Project Number: 194-5733 Project Manager: Ravi Limaye Reported:

08/01/16 23:07

DETECTIONS SUMMARY

Sample ID: TtSB-01-0.5

Laboratory ID: T161680-01

No Results Detected

Sample ID: TtSB-04-0.5 Laborated Lab

Laboratory ID: T161680-13

No Results Detected

Sample ID: TtSB-Composite-0.5 Laboratory ID:

T161680-19

No Results Detected

Sample ID: TtSB-07-0.5 Laboratory ID: T161680-28

No Results Detected

Sample ID: Tt-Composite 2-0.5 Laboratory ID: T161680-33

No Results Detected

Sample ID: UST-N-15 Laboratory ID: T161680-38

No Results Detected

SunStar Laboratories, Inc.

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Tetra Tech -- Irvine Project: Borstein - Chino

 17885 Von Karman Ave. #500
 Project Number: 194-5733
 Reported:

 Irvine CA, 92614
 Project Manager: Ravi Limaye
 08/01/16 23:07

Sample ID: UST-E-15 Laboratory ID: T161680-43

No Results Detected

Sample ID: UST-S-15 **Laboratory ID:** T161680-48

No Results Detected

Sample ID: Septic Tank-1-7.5 Laboratory ID: T161680-50

No Results Detected

Sample ID: Septic Tank-2-7.5 Laboratory ID: T161680-53

No Results Detected

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Tetra Tech -- Irvine Project: Borstein - Chino

 17885 Von Karman Ave. #500
 Project Number: 194-5733
 Reported:

 Irvine CA, 92614
 Project Manager: Ravi Limaye
 08/01/16 23:07

TtSB-01-0.5 T161680-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Metals by EPA 6010B									
Arsenic	ND	5.0	mg/kg	1	6072736	07/27/16	07/29/16	EPA 6010B	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

 17885 Von Karman Ave. #500
 Project Number: 194-5733
 Reported:

 Irvine CA, 92614
 Project Manager: Ravi Limaye
 08/01/16 23:07

TtSB-04-0.5 T161680-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Metals by EPA 6010B									
Arsenic	ND	5.0	mg/kg	1	6072736	07/27/16	07/29/16	EPA 6010B	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

 17885 Von Karman Ave. #500
 Project Number: 194-5733
 Reported:

 Irvine CA, 92614
 Project Manager: Ravi Limaye
 08/01/16 23:07

TtSB-Composite-0.5 T161680-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Organochlorine Pesticides by EPA Me	thod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6072627	07/26/16	08/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4´-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		73.9 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		95.0 %	35-	140	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

 17885 Von Karman Ave. #500
 Project Number: 194-5733
 Reported:

 Irvine CA, 92614
 Project Manager: Ravi Limaye
 08/01/16 23:07

TtSB-07-0.5 T161680-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Metals by EPA 6010B									
Arsenic	ND	5.0	mg/kg	1	6072736	07/27/16	07/29/16	EPA 6010B	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

 17885 Von Karman Ave. #500
 Project Number: 194-5733
 Reported:

 Irvine CA, 92614
 Project Manager: Ravi Limaye
 08/01/16 23:07

Tt-Composite 2-0.5 T161680-33 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Organochlorine Pesticides by EPA Me	ethod 8081A								
alpha-BHC	ND	5.0	ug/kg	1	6072627	07/26/16	08/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		104 %	35-	140	"	"	"	"	
Surrogate: Decachlorobiphenyl		105 %	35-	140	"	"	"	"	

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

 17885 Von Karman Ave. #500
 Project Number: 194-5733
 Reported:

 Irvine CA, 92614
 Project Manager: Ravi Limaye
 08/01/16 23:07

UST-N-15 T161680-38 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Extractable Petroleum Hydrocarbons	s by 8015C								
C6-C12 (GRO)	ND	10	mg/kg	1	6072622	07/26/16	07/27/16	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		58.4 %	65	135	"	"	"	"	S-04
Metals by EPA 6010B									
Lead	ND	3.0	mg/kg	1	6072736	07/27/16	07/29/16	EPA 6010B	
Volatile Organic Compounds by EPA	Method 8260B								
Bromobenzene	ND	5.0	ug/kg	1	6072637	07/26/16	07/27/16	EPA 8260B	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

 17885 Von Karman Ave. #500
 Project Number: 194-5733
 Reported:

 Irvine CA, 92614
 Project Manager: Ravi Limaye
 08/01/16 23:07

UST-N-15 T161680-38 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Volatile Organic Compounds by EP	A Method 8260B								
1,2-Dichloroethane	ND	5.0	ug/kg	1	6072637	07/26/16	07/27/16	EPA 8260B	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

 17885 Von Karman Ave. #500
 Project Number: 194-5733
 Reported:

 Irvine CA, 92614
 Project Manager: Ravi Limaye
 08/01/16 23:07

UST-N-15 T161680-38 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Volatile Organic Compounds by EPA	A Method 8260B								
Ethylbenzene	ND	5.0	ug/kg	1	6072637	07/26/16	07/27/16	EPA 8260B	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		114 %	81.2	-123	"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	95.7	-135	"	"	"	"	
Surrogate: Toluene-d8		110 %	85.5	-116	"	"	"	"	

SunStar Laboratories, Inc.

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Tetra Tech -- Irvine Project: Borstein - Chino

 17885 Von Karman Ave. #500
 Project Number: 194-5733
 Reported:

 Irvine CA, 92614
 Project Manager: Ravi Limaye
 08/01/16 23:07

UST-E-15 T161680-43 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Extractable Petroleum Hydrocarbons	by 8015C								
C6-C12 (GRO)	ND	10	mg/kg	1	6072622	07/26/16	07/27/16	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		37.9 %	65-	135	"	"	"	"	S-04
Metals by EPA 6010B									
Lead	ND	3.0	mg/kg	1	6072736	07/27/16	07/29/16	EPA 6010B	
Volatile Organic Compounds by EPA	Method 8260B								
Bromobenzene	ND	5.0	ug/kg	1	6072637	07/26/16	07/27/16	EPA 8260B	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

 17885 Von Karman Ave. #500
 Project Number: 194-5733
 Reported:

 Irvine CA, 92614
 Project Manager: Ravi Limaye
 08/01/16 23:07

UST-E-15 T161680-43 (Soil)

1,1-Dichloroethene	Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			SunStar L	aboratori	es, Inc.					
1,1-Dichloroethene	Volatile Organic Compounds by EP.	A Method 8260B								
Section Sect	1,2-Dichloroethane	ND	5.0	ug/kg	1	6072637	07/26/16	07/27/16	EPA 8260B	
ND	1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-2-Frichtoropropane ND S.0 "	cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropane ND S.0 " " " " " " "	trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
Section Sect	1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
Section Sect	2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
Same Same	1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
ND S.0 "	Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
No	Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methylene chloride ND 5.0 "	p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Naphthalene ND 5.0 " " " " " " " " " " " " " " " " " " "	Methylene chloride	ND	5.0	"	"	"	"	"	"	
ND S.0 "	Naphthalene	ND	5.0	"	"	"	"	"	"	
ND S.0	n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	Styrene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethane	1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,1,2,4-Trichloroethane 1,1,1-Trichloroethane ,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"		
1,2,4-Trichlorobenzene ND 5.0 "<	Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane 1,1,1-Trichloroethane	1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane ND 5.0 " </td <td>1,2,4-Trichlorobenzene</td> <td>ND</td> <td>5.0</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td></td>	1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane ND 5.0 " </td <td>1,1,2-Trichloroethane</td> <td>ND</td> <td>5.0</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td></td>	1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene ND 5.0 "	1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane ND 5.0 "<	Trichloroethene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane ND 5.0 "<	Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene ND 5.0 "<	1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene ND 5.0 "<	1,3,5-Trimethylbenzene	ND		"	"	"	"	"	"	
Vinyl chloride ND 5.0 "	1,2,4-Trimethylbenzene			"	"	"	"	"	"	
Benzene ND 5.0 " " " " " "	Vinyl chloride			"	"	"	"	"	"	
	Benzene			"	"	"	"	"	"	
	Toluene	ND	5.0	"	"	"	"	"	"	

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

 17885 Von Karman Ave. #500
 Project Number: 194-5733
 Reported:

 Irvine CA, 92614
 Project Manager: Ravi Limaye
 08/01/16 23:07

UST-E-15 T161680-43 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Volatile Organic Compounds by EP	A Method 8260B								
Ethylbenzene	ND	5.0	ug/kg	1	6072637	07/26/16	07/27/16	EPA 8260B	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	81.2	-123	"	"	"	"	
Surrogate: Dibromofluoromethane		107 %	95.7	-135	"	"	"	"	
Surrogate: Toluene-d8		105 %	85.5	-116	"	"	"	"	

SunStar Laboratories, Inc.

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Tetra Tech -- Irvine Project: Borstein - Chino

 17885 Von Karman Ave. #500
 Project Number: 194-5733
 Reported:

 Irvine CA, 92614
 Project Manager: Ravi Limaye
 08/01/16 23:07

UST-S-15 T161680-48 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Extractable Petroleum Hydrocarbons	s by 8015C								
C6-C12 (GRO)	ND	10	mg/kg	1	6072622	07/26/16	07/27/16	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		62.6 %	65-	135	"	"	"	"	S-04
Metals by EPA 6010B									
Lead	ND	3.0	mg/kg	1	6072736	07/27/16	07/29/16	EPA 6010B	
Volatile Organic Compounds by EPA	Method 8260B								
Bromobenzene	ND	5.0	ug/kg	1	6072637	07/26/16	07/27/16	EPA 8260B	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

 17885 Von Karman Ave. #500
 Project Number: 194-5733
 Reported:

 Irvine CA, 92614
 Project Manager: Ravi Limaye
 08/01/16 23:07

UST-S-15 T161680-48 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Volatile Organic Compounds by EP	A Method 8260B								
1,2-Dichloroethane	ND	5.0	ug/kg	1	6072637	07/26/16	07/27/16	EPA 8260B	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

 17885 Von Karman Ave. #500
 Project Number: 194-5733
 Reported:

 Irvine CA, 92614
 Project Manager: Ravi Limaye
 08/01/16 23:07

UST-S-15 T161680-48 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Volatile Organic Compounds by EPA	Method 8260B								
Ethylbenzene	ND	5.0	ug/kg	1	6072637	07/26/16	07/27/16	EPA 8260B	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %	81.2	-123	"	"	"	"	
Surrogate: Dibromofluoromethane		99.5 %	95.7	-135	"	"	"	"	
Surrogate: Toluene-d8		111 %	85.5	-116	"	"	"	"	

SunStar Laboratories, Inc.

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Tetra Tech -- Irvine Project: Borstein - Chino

 17885 Von Karman Ave. #500
 Project Number: 194-5733
 Reported:

 Irvine CA, 92614
 Project Manager: Ravi Limaye
 08/01/16 23:07

Septic Tank-1-7.5 T161680-50 (Soil)

			`	,					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Extractable Petroleum Hydrocai	rbons by 8015C								
C6-C12 (GRO)	ND	10	mg/kg	1	6072622	07/26/16	07/27/16	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		51.6 %	65-	135	"	"	"	"	S-04

SunStar Laboratories, Inc.

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Tetra Tech -- Irvine Project: Borstein - Chino

 17885 Von Karman Ave. #500
 Project Number: 194-5733
 Reported:

 Irvine CA, 92614
 Project Manager: Ravi Limaye
 08/01/16 23:07

Septic Tank-2-7.5 T161680-53 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratorie	s, Inc.					
Extractable Petroleum Hydrocark	oons by 8015C								
C6-C12 (GRO)	ND	10	mg/kg	1	6072622	07/26/16	07/27/16	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		124 %	65-1.	35	"	"	"	"	

SunStar Laboratories, Inc.

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Tetra Tech -- Irvine Project: Borstein - Chino

 17885 Von Karman Ave. #500
 Project Number: 194-5733
 Reported:

 Irvine CA, 92614
 Project Manager: Ravi Limaye
 08/01/16 23:07

Extractable Petroleum Hydrocarbons by 8015C - Quality Control

SunStar Laboratories, Inc.

		Spike	Source		%REC		RPD			
Analyte	Result	Limit Units		Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6072622 - EPA 3550B GC										
Blank (6072622-BLK1)				Prepared &	Analyzed:	07/26/16				
C6-C12 (GRO)	ND	10	mg/kg							
C13-C28 (DRO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							
Surrogate: p-Terphenyl	97.1		"	99.6		97.5	65-135			
LCS (6072622-BS1)				Prepared &	Analyzed:	07/26/16				
C13-C28 (DRO)	550	10	mg/kg	494		112	75-125			
Surrogate: p-Terphenyl	99.2		"	98.7		101	65-135			
Matrix Spike (6072622-MS1)	Source	: T161643-	09	Prepared &	Analyzed:	07/26/16				
C13-C28 (DRO)	550	10	mg/kg	500	14	107	75-125			
Surrogate: p-Terphenyl	94.4		"	99.9		94.5	65-135			
Matrix Spike Dup (6072622-MSD1)	Source	: T161643-	.09	Prepared &	Analyzed:	07/26/16				
C13-C28 (DRO)	580	10	mg/kg	494	14	114	75-125	5.77	20	
Surrogate: p-Terphenyl	78.5		"	98.8		79.4	65-135			

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

 17885 Von Karman Ave. #500
 Project Number: 194-5733
 Reported:

 Irvine CA, 92614
 Project Manager: Ravi Limaye
 08/01/16 23:07

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6072736 - EPA 3051										
Blank (6072736-BLK1)		Pr				nalyzed: 07	/29/16			
Arsenic	ND	5.0	mg/kg							
Lead	ND	3.0	"							
LCS (6072736-BS1)				Prepared: (07/27/16 A	nalyzed: 07				
Arsenic	87.4	5.0	mg/kg	100		87.4	75-125			
Lead	88.8	3.0	"	100		88.8	75-125			
Matrix Spike (6072736-MS1)	Sour	ce: T161680-	01	Prepared: (07/27/16 A	nalyzed: 07	/29/16			
Arsenic	81.4	5.0	mg/kg	99.0	3.43	78.7	75-125			
Lead	96.0	3.0	"	99.0	15.0	81.8	75-125			
Matrix Spike Dup (6072736-MSD1)	Source: T161680-01 Pr			Prepared: 07/27/16 Analyze			/29/16			
Arsenic	77.7	5.0	mg/kg	97.1 3.43		76.5	75-125	4.67	20	
Lead	89.9	3.0	"	97.1	15.0	77.1	75-125	6.60	20	

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Daniel Chavez, Project Manager



RPD

%REC

Tetra Tech -- Irvine Project: Borstein - Chino

17885 Von Karman Ave. #500 Project Number: 194-5733 Reported: Irvine CA, 92614 Project Manager: Ravi Limaye 08/01/16 23:07

Reporting

Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Spike

Source

		Reporting		Spike	Source		70KEC		KPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6072627 - EPA 3550 ECD/GCM	IS									
Blank (6072627-BLK1)				Prepared: (07/26/16 A	nalyzed: 08/	01/16			
alpha-BHC	ND	5.0	ug/kg							
gamma-BHC (Lindane)	ND	5.0	"							
beta-BHC	ND	5.0	"							
delta-BHC	ND	5.0	"							
Heptachlor	ND	5.0	"							
Aldrin	ND	5.0	"							
Heptachlor epoxide	ND	5.0	"							
gamma-Chlordane	ND	5.0	"							
alpha-Chlordane	ND	5.0	"							
Endosulfan I	ND	5.0	"							
4,4′-DDE	ND	5.0	"							
Dieldrin	ND	5.0	"							
Endrin	ND	5.0	"							
4,4′-DDD	ND	5.0	"							
Endosulfan II	ND	5.0	"							
4,4′-DDT	ND	5.0	"							
Endrin aldehyde	ND	5.0	"							
Endosulfan sulfate	ND	5.0	"							
Methoxychlor	ND	10	"							
Endrin ketone	ND	5.0	"							
Гохарhепе	ND	200	"							
Surrogate: Tetrachloro-meta-xylene	9.70		"	9.93		97.6	35-140			
Surrogate: Decachlorobiphenyl	9.41		"	9.93		94.7	35-140			
LCS (6072627-BS1)				Prepared: (07/26/16 A	nalyzed: 08/	/01/16			
gamma-BHC (Lindane)	22.6	5.0	ug/kg	39.9		56.6	40-120			
Heptachlor	24.9	5.0	"	39.9		62.4	40-120			
Aldrin	20.3	5.0	"	39.9		50.8	40-120			
Dieldrin	23.4	5.0	"	39.9		58.6	40-120			
Endrin	26.1	5.0	"	39.9		65.5	40-120			
4,4′-DDT	22.7	5.0	"	39.9		56.9	33-147			
Surrogate: Tetrachloro-meta-xylene	6.43		"	9.98		64.4	35-140			
Surrogate: Decachlorobiphenyl	9.81		"	9.98		98.3	35-140			

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

 17885 Von Karman Ave. #500
 Project Number: 194-5733
 Reported:

 Irvine CA, 92614
 Project Manager: Ravi Limaye
 08/01/16 23:07

$Organochlorine\ Pesticides\ by\ EPA\ Method\ 8081A-Quality\ Control$

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6072627 - EPA 3550 ECD/GCMS										
Matrix Spike (6072627-MS1)	Sour	ce: T161659-	03	Prepared: ()7/26/16 A	nalyzed: 08	/01/16			
gamma-BHC (Lindane)	19.8	5.0	ug/kg	39.5	ND	50.1	30-120			
Heptachlor	22.3	5.0	"	39.5	ND	56.5	30-120			
Aldrin	17.5	5.0	"	39.5	ND	44.2	30-120			
Dieldrin	122	5.0	"	39.5	55.6	169	30-120			QM-07
Endrin	32.9	5.0	"	39.5	1.15	80.4	30-120			
4,4'-DDT	37.7	5.0	"	39.5	10.8	68.2	30-120			
Surrogate: Tetrachloro-meta-xylene	4.11		"	9.87		41.6	35-140			
Surrogate: Decachlorobiphenyl	4.39		"	9.87		44.5	35-140			
Matrix Spike Dup (6072627-MSD1)	Sour	ce: T161659-	03	Prepared: (07/26/16 A	nalyzed: 08	/01/16			
gamma-BHC (Lindane)	18.4	5.0	ug/kg	39.2	ND	47.0	30-120	6.42	30	
Heptachlor	25.8	5.0	"	39.2	ND	65.7	30-120	15.1	30	
Aldrin	18.2	5.0	"	39.2	ND	46.3	30-120	4.69	30	
Dieldrin	56.9	5.0	"	39.2	55.6	3.28	30-120	192	30	QM-07
Endrin	26.8	5.0	"	39.2	1.15	65.4	30-120	20.5	30	
4,4'-DDT	34.6	5.0	"	39.2	10.8	60.7	30-120	11.6	30	
Surrogate: Tetrachloro-meta-xylene	4.53		"	9.80		46.2	35-140			
Surrogate: Decachlorobiphenyl	4.90		"	9.80		50.0	35-140			

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

 17885 Von Karman Ave. #500
 Project Number: 194-5733
 Reported:

 Irvine CA, 92614
 Project Manager: Ravi Limaye
 08/01/16 23:07

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Patab 6072627 EDA 5020 CCMS	•									

Batch 6072637 - EPA 5030 GC	MS
-----------------------------	----

Blank (6072637-BLK1)				Prepared: 07/26/16 Analyzed: 07/27/16
Bromobenzene	ND	5.0	ug/kg	
Bromochloromethane	ND	5.0	"	
Bromodichloromethane	ND	5.0	"	
Bromoform	ND	5.0	"	
Bromomethane	ND	5.0	"	
n-Butylbenzene	ND	5.0	"	
sec-Butylbenzene	ND	5.0	"	
tert-Butylbenzene	ND	5.0	"	
Carbon tetrachloride	ND	5.0	"	
Chlorobenzene	ND	5.0	"	
Chloroethane	ND	5.0	"	
Chloroform	ND	5.0	"	
Chloromethane	ND	5.0	"	
2-Chlorotoluene	ND	5.0	"	
4-Chlorotoluene	ND	5.0	"	
Dibromochloromethane	ND	5.0	"	
1,2-Dibromo-3-chloropropane	ND	10	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	
Dibromomethane	ND	5.0	"	
1,2-Dichlorobenzene	ND	5.0	"	
1,3-Dichlorobenzene	ND	5.0	"	
1,4-Dichlorobenzene	ND	5.0	"	
Dichlorodifluoromethane	ND	5.0	"	
1,1-Dichloroethane	ND	5.0	"	
1,2-Dichloroethane	ND	5.0	"	
1,1-Dichloroethene	ND	5.0	"	
cis-1,2-Dichloroethene	ND	5.0	"	
trans-1,2-Dichloroethene	ND	5.0	"	
1,2-Dichloropropane	ND	5.0	"	
1,3-Dichloropropane	ND	5.0	"	
2,2-Dichloropropane	ND	5.0	"	
1,1-Dichloropropene	ND	5.0	"	
cis-1,3-Dichloropropene	ND	5.0	"	
trans-1,3-Dichloropropene	ND	5.0	"	
Hexachlorobutadiene	ND	5.0	"	
Isopropylbenzene	ND	5.0	"	

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



Batch 6072637 - EPA 5030 GCMS

Blank (6072637-BLK1) p-Isopropyltoluene

Ethylbenzene

Tert-amyl methyl ether

Tert-butyl alcohol

Di-isopropyl ether

Ethyl tert-butyl ether

Methyl tert-butyl ether

Surrogate: Toluene-d8

Surrogate: 4-Bromofluorobenzene

Surrogate: Dibromofluoromethane

m,p-Xylene

o-Xylene

25712 Commercentre Drive Lake Forest, California 92630 949.297.5020 Phone 949.297.5027 Fax

Tetra Tech -- Irvine Project: Borstein - Chino

ND

ND

ND

ND

ND

ND

ND

ND

ND

45.0

39.2

43.9

 17885 Von Karman Ave. #500
 Project Number: 194-5733
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 Irvine CA, 92614
 Project Manager: Ravi Limaye
 08/01/16 23:07

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

ug/kg

5.0

5.0

10

5.0

20

50 20

20

20

40.0

40.0

Prepared: 07/26/16 Analyzed: 07/27/16

			~ ~
Methylene chloride	ND	5.0	"
Naphthalene	ND	5.0	"
n-Propylbenzene	ND	5.0	"
Styrene	ND	5.0	"
1,1,2,2-Tetrachloroethane	ND	5.0	"
1,1,1,2-Tetrachloroethane	ND	5.0	"
Tetrachloroethene	ND	5.0	"
1,2,3-Trichlorobenzene	ND	5.0	"
1,2,4-Trichlorobenzene	ND	5.0	"
1,1,2-Trichloroethane	ND	5.0	"
1,1,1-Trichloroethane	ND	5.0	"
Trichloroethene	ND	5.0	"
Trichlorofluoromethane	ND	5.0	"
1,2,3-Trichloropropane	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,2,4-Trimethylbenzene	ND	5.0	"
Vinyl chloride	ND	5.0	"
Benzene	ND	5.0	"
Toluene	ND	5.0	"

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113

98.1

110

81.2-123

95.7-135

85.5-116

Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

 17885 Von Karman Ave. #500
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 Reported:

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 08/01/16 23:07

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6072637 - EPA 5030 GCMS										
LCS (6072637-BS1)				Prepared: ()7/26/16 Aı	nalyzed: 07	//27/16			
Chlorobenzene	78.8	5.0	ug/kg	100		78.8	75-125			
1,1-Dichloroethene	78.6	5.0	"	100		78.6	75-125			
Trichloroethene	81.8	5.0	"	100		81.8	75-125			
Benzene	80.6	5.0	"	100		80.6	75-125			
Toluene	77.4	5.0	"	100		77.4	75-125			
Surrogate: 4-Bromofluorobenzene	44.0		"	40.0		110	81.2-123			
Surrogate: Dibromofluoromethane	42.6		"	40.0		106	95.7-135			
Surrogate: Toluene-d8	39.9		"	40.0		99.8	85.5-116			
LCS Dup (6072637-BSD1)				Prepared: (07/26/16 Aı	nalyzed: 07	//27/16			
Chlorobenzene	87.4	5.0	ug/kg	100		87.4	75-125	10.4	20	
1,1-Dichloroethene	81.4	5.0	"	100		81.4	75-125	3.62	20	
Trichloroethene	84.3	5.0	"	100		84.3	75-125	3.01	20	
Benzene	84.6	5.0	"	100		84.6	75-125	4.85	20	
Toluene	87.0	5.0	"	100		87.0	75-125	11.7	20	
Surrogate: 4-Bromofluorobenzene	44.8		"	40.0		112	81.2-123			
Surrogate: Dibromofluoromethane	39.5		"	40.0		98.8	95.7-135			
Surrogate: Toluene-d8	40.9		"	40.0		102	85.5-116			

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



Tetra Tech -- Irvine Project: Borstein - Chino

 17885 Von Karman Ave. #500
 Project Number: 194-5733
 Reported:

 Irvine CA, 92614
 Project Manager: Ravi Limaye
 08/01/16 23:07

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QM-07 The spike recovery and or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable

LCS recovery.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.

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Chain of Cuady Record

Providing Quality Analytical Services Nationwide 25712 Commercentre Drive, Lake Forest, CA 92630 949-297-5020

Client: Tetra Tech, Inc Address: 17885 Von Kurmon Are, Irvine, CH 92614								- -				te: ject					be in	-d	L'in T		Pag	ie:			_ Of		<u>\$</u>	- · · · · · · · · · · · · · · · · · · ·
Phone: (949) 809-50	38		Fax: (94)	4)809	7-5	010						lecto									Clie	nt Pro	ject #	4: 19	4-5	733		
Project Manager: Ravi	Lim	aye	<u> </u>					-				ch#																-
										ylı					Chain	Metals	S											S
Sample ID		Oate mpled	Time		Sample Container Stype Type S				8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	8081 CCPs	Arsenic Only		aboratory ID #		Com	ımeni	ts/Pre	eservat	ive	Total # of containers
TECR-01-0.5		5/16	0734							. &	8	ω,	8	8	ω.	9	_	7	X		OI		00					+5-
T+SB-01-25		1	0735		Soil Hillione Steen			š													02	1	HOLE	0	-	:		
T4 SB-01-50			2736				T^{-}								,						03		i			•		
TLCR_02-0.5			0798																		24		1					
TESB-02-15			0749							-											<i>0</i> 5		T					\mathbb{I}^{-1}
TESB-02-3,5			0750									\Box	_7								Ola		7					T
TtsB-02-50			0751																		07							
THUSR-03-0.5			0803																. `		03		\Box					
TESR-03-15			0804										$\neg \neg$	\neg							09		\top			٠.		
T+SB-03-2.5			0805										$\neg \neg$								10		\top					
TtSB-03-3.5			0806										$\neg \neg$								11		7					
TY SB-03-50			0807																		12_		T			-		
TH-SB-04-0.5			0814																X		13	#	00		•			
TESB-04-15		. /	0815	·	1								- ¥	1	$\neg 1$						14		Hou	P				
TESB-04-25			0816	-2	y	•										$\neg \neg$					15		HOL	2				\Box
Relinquished by: (signature)		Date / Ti	me	Received by: (signature)						Date	e / Ti	me		15 17		To	otal #	of c	ontai	ners					No	tes		
ma dren		5/16							7-25			161	٥	Cha	in of	Cus	tody	seals	s Y	NA								
Relinquished by: (signature)	[Date / Ti	me	Received by: (signature)						Date	e / Ti	me		Re	eceiv				? Y/N ition/	cold	2.0.	<u></u>						
Relinquished by: (signature)	. [Date / Ti	me	Received by: (signature)					·				Turn around time: \$\f\A\P\A\P\O															
Sample disposal Instructions Dis	nosal 6	n \$2 nn a	ach	Re	Return to client F					Pickup						Turn around time.												

COC 151152

Chain of Cuady Record

Providing Quality Analytical Services Nationwide 25712 Commercentre Drive, Lake Forest, CA 92630 949-297-5020

Client: Teta Tech, Inc. Address: 17885 Von Koman Ave., Irvine, CA 92614									e:				ale:	w- (Chi	nto		Pag	e:	2	Of _	_5_		
Phone: (944) 809-5038	PY 1 11. C	Fax: (940	1)801-	-5010														Clier	nt Proi	ect #·	194-5	733	<u> </u>	
Project Manager: Revi La				<i></i>			,	Bat	ch #	-	TIE	.(61	80	> .		-		EDF						
												n Chain	: Metals	als							,		ي	2
Sample ID	Date Sample		Samp Type		8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	क्ष्मका <i>७८९</i> ३	Arsenic Only		Laboratory ID #		Comme	ents/Pres	servative	Total # of containers	וטומו זייים וייים וייים	
T-65B-04-3.5	7/25/1	6 0817	SOI		$oxed{oxed}$												16	1	1000				_	
TESB-04-510		0818	-	SLEE	VE	ــــــ	_							_		_		17		1				
TESB-05-0.5 TESB-Gmpositeles		0821 0820	<u> </u>	/		₩										_		18	<u> </u>	<u> </u>				_
TESB-Composite 1-45		0820		8-020		4									X	\rightarrow		19		<u> </u>		· · · · · · · · · · · · · · · · · · ·		
74-05-15		0822		ACETA		↓										_		20	<u> </u>	OLP	·			
TESB -05-25		0823	1	9.EE	VE	↓							\dashv					21				·	\perp	_
TtSB-05-3.5		0824 0825		1	` `	<u> </u>							_					12			:			_
TESB-05-50		0825				┸	\											23						
THSR-06-05 THSR-06-15		0840 0841																24						
TtSR-06-15		0841	1															25						
T+53-06-3.5		0842				┸		<u> </u>									-	26				<u> </u>		
T+SB-06-510		0843																27	•					
72CB-07-0.5		0855														X		28						
7+5B-07-1,5		0856									,							29		ilp				
7+5B-07-2,5	*	9857	₩	•		1												30	H	ا كان	-			-
Relinquished by: (signature)		e / Time	Receive	Received by: (signature)				e / T i	me				To	otal #	of c	ontair	ners		.,		Note	es		
		6 1610		Received by: (signature)				16			Cha	in of		-		s YA								
Relinquished by: (signature)	Date	e / Time	Receive		Date	e / Ti	me	- [Se	als ir	ntact	? Y ((ØDA									
											R	eceiv	ed g	ood	cond	ition/	cold	5.6						
Relinquished by: (signature)	Date	e / Time	Receive	ed by: (signat		Date	e / Ti	me	-	Tur	n arc	nınd	time	. «	*Asso	Že.	<u> </u>		at .					
Sample disposal Instructions: Dis	sposal @ \$2	00 each	Ret	urn to client _		Turn around time: STANDARD Pickup								-										

coc 151153

Chain of Culdy Record

Providing Quality Analytical Services Nationwide 25712 Commercentre Drive, Lake Forest, CA 92630 949-297-5020

Client: Tedan Tech, Inc.	· · · · · · · · · · · · · · · · · · ·				_				7/3							P	age:		3	Of _	_5_	· ——	
Address: 17885 Von Yum Phone: (949) 809-50% Project Manager: Run Lin		<u>vive, CA</u> Fax: <u>(9</u> 4	9)809-5	010	- -	• .	(Colle	ct Na ctor:_ ı #:	Hao	ZL	m		<u>Chiv</u>	(6)	CI EI		Project	•	94-5	733		
Sample ID TESB-07-3.5 TESB-07-5.0 THE COMPSIZE 205 UST-N-5.0 UST-N-10.0 UST-N-12.5 UST-N-12.5 UST-N-12.5 UST-E-10.0 UST-E-12.5 UST-E-10.0 UST-E-12.5 Relinquished by: (signature) Relinquished by: (signature)	Date Sampled 7/25/16 Date / Ti	21 <i>0</i> me	Received	Container Type ALETATE SLEEVE 8-07-JAR ALETATE SLEEVE by: (signature) by: (signature)		\$260 + OXX	Date Lie Date	/ Tim	e 600	Cha	X ain of	To Sea	ttal#	of cosseals	Albenia (All)	A C	1 2 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Hou Hou Hou Hou Hou Hou	P D	nts/Preso	ervative s		Total # of containers
Sample disposal Instructions Dis				to client	-	Pickı				Turi	n arc	ound	time	e: <u>2</u> :	<u> Anipa</u>	rd_	. L						

Chain of Cu-ody Record

Providing Quality Analytical Services Nationwide 25712 Commercentre Drive, Lake Forest, CA 92630 949-297-5020

Client: Tetm Tech, Irc.						_				te:									Pag	e:	4		_ Of _	_5	_	_
Address: 17885 Von Kum	an Ave. In	ne, CAO	12614			_			Pro	ject	Nan	ne:_	130	<u>154e</u>	·Wi-	<u>-Ch</u>	no									_
Address: 17885 Von Kum Phone: (949)869 -5038		Fax: (949	DBOR	1-501	0				Col	lect	or:_	Hao	31	~	\				Clier	nt Pr	oject #	#: A	4.5	733		
Project Manager: Kwi L.						_			Bat	ch#	. ¬	TI	<u> </u>	80	7				EDF							-
1 Tojour Managon 1100 Dw	<u> </u>					_							916	7.50							0.0					
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[hail	Metals												l
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								Įξ			8015M (gasoline)		rbo	6010/7000 Title 22	6020 ICP-MS Metals											Total # of containers
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	·						\tilde{\	ΜĂ		EX	gas	dies	xt./	g	주				aboratory ID							<u>F</u>
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	Date	-	Sam		Container	8260	8260 +	100	8270	8021 BTEX	115	115	315	18	8				g		_					la Sa
Sample ID	Sampled	Time	Typ		Type	189	8	8	8	8	8	8()8	<u>@</u>	<u></u>					-			s/Pres	servativ	3	 Ĕ
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1151-5-1215	1	1008			SLEEV E	╁		+	┢	<u> </u>			×	\vdash	\dashv				47	 	Hous	<u> </u>		<u> </u>		╁
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Sentic Tank-2-5		1140				•		1									+		52		bun			54		\vdash
Sorte Tank-2-7,5		1141				1	T	1					×					-	53	_	<u> </u>					十一
Septic Tonk-2-10		1142						1											54	1	toup					T
Debn's-1-5		1225																	55		1					
Debnis-1-7.5		1226																	S6							
pebris -1 -10		1227			. ,		_	<u> </u>	<u> </u>		1								<i>5</i> 7							
Debris -2-5		1233				_	_	<u> </u>											58							_
Debrs - 2-7.5		1234	34.			<u> </u>	<u> </u>												57		J					
Debns-2-10	7	1235	\\		•	1	1	<u> </u>	<u> </u>										မ							<u> </u>
Relinquished by: (signature)	Date / Ti		Regen	ved by	/: (signature)	-		Dat	e/T	ıme				To	otal#	of co	ntain	ers					Note	es		
Has Zha	7/25/16	1610		5		•	7-2	25-4		16	Į O	Cha	ain of	f Cus	tody	seals	YASD	NA.								
Relinquished by: (signature)	Date / Ti	me	Receiv	ved by	/: (signatu r e)			Dat	e/T	ime				Se	als in	tact?	Y/N/	R								
		1	1									R	ecei	ved a	lood (condi	tion/c	hlo	5.6]	-	-				
Relinquished by: (signature)	Date / Ti	me /	Receiv	ved by	/: (signature)			Dat	e/T	ime				9	,											
				,	, , ,							T		·	41	. 44	3	A -A 4								
Sample disposal Instructions: Dis	nosal @ \$2-90 a	ach	Re	efurn fo	o client		Picl	kup				ıurı	паго	ouna	ame	<u>. 71</u>	RIND	rkI	<u></u>				•••			

coc 151155

Chain of Custody Record

Providing Quality Analytical Services Nationwide 25712 Commercentre Drive, Lake Forest, CA 92630 949-297-5020

Client: Teta Tech, Irc. Address: 17885 Von Kar	man Ave., I	vine, CA	72614	\$ 1.20 miles	-			Dat Proj							hm			Pag	e:	5		_Of	5	
Phone: (949)809-503© Project Manager: Run Ly		Fax: (94	a) 809-50	010 :	- -			Coll	lecto	or: <u>/</u>	100	Zh								oject #				
Sample ID Pebris-3-5 Pebris-3-5 Debris-3-10 Relinquished by: (signature) Relinquished by: (signature) Relinquished by: (signature)	Date Sampled 7/25/16 Date / Ti	610 me	Received b	Container Type **CETATE SCEEVE **Y: (signature) y: (signature) y: (signature)	4) 8260	22	Date 5-(a) Date	e / Ti	me i.6l		Cha	eceiv	To Cus Se	tody als ir ood	seals itact? condii	ntaine Y/ØJN Y/N/(ers	-	7	Comi		Note	ervative	Total # of containers
Sample disposal Instructions: Di	isposal @ \$2.00 e	each	Return	o client		Pick	up _			'									CC	oc 1	51	14		

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #:	TIGI680		
Client Name:	Tetra tech	Project:	BORSTEIN - CHINO
Delivered by:	☑ Client ☐ SunStar Courie	r 🗌 GSO 🔲 FedEx	
If Courier, Received by:		Date/Time Courier Received:	
Lab Received by:	DAN	Date/Time Lab Received:	7/25/16 /6/0
Total number of coolers re	eceived: (
Temperature: Cooler #1	5.8 °C +/- the CF (- 0.2 °C)	= \$.\$ °C corre	ected temperature
Temperature: Cooler #2	°C +/- the CF (- 0.2°C)	= °C corre	ected temperature
Temperature: Cooler #3	°C +/- the CF (- 0.2°C)	= °C corre	ected temperature
Temperature criteria = < (no frozen containers)	≤6°C Within c	riteria? Y Yes	□No
If NO: Samples received If on ice, samples collected?	received same day	Acceptable No -	ete Non-Conformance Sheet
Custody seals intact on co	oler/sample	□Yes	□No* X N/A
Sample containers intact			
		¥Yes	□No*
Sample labels match Chai	n of Custody IDs	¥Yes ¥Yes	□No*
Sample labels match Chair Total number of container			
Total number of container		\ Yes	No*
Total number of container Proper containers received	s received match COC	¥Yes ¥Yes ¥Yes	□No*
Total number of container Proper containers received Proper preservative indica Complete shipment receiv	s received match COC I for analyses requested on COC	Yes Yes Yes Yes Yes requested □Yes emperatures,	
Total number of container Proper containers received Proper preservative indica Complete shipment receiv containers, labels, volume holding times	s received match COC I for analyses requested on COC ted on COC/containers for analyse ed in good condition with correct t s preservatives and within method	Yes Yes Yes Yes requested	
Total number of container Proper containers received Proper preservative indica Complete shipment receiv containers, labels, volume holding times	s received match COC I for analyses requested on COC ted on COC/containers for analyse ed in good condition with correct t s preservatives and within method	Yes Yes Yes Yes Yes Yes emperatures, specified Yes	□No* □No* □No* □No* □No* □No* □No*



WORK ORDER

T161680

Client: Tetra Tech -- Irvine Project Manager: Daniel Chavez
Project: Borstein - Chino Project Number: 194-5733

Report To:

Tetra Tech -- Irvine Ravi Limaye

17885 Von Karman Ave. #500

Irvine, CA 92614

Date Due: 08/02/16 15:00 (6 day TAT)

Received By:Dan MarteskiDate Received:07/25/16 16:10Logged In By:Brian CharonDate Logged In:07/26/16 07:49

Samples Received at: 5.6°C

Custody Seals No Received On Ice Yes

Containers Intact Yes
COC/Labels Agree Yes
Preservation Confiri No

Analysis	Due	TAT	Expires	Comments
T161680-01 TtSB-01-0.5 [S Time (US &	Soil] Sampled 07/25/10	6 07:34 (GM	IT-08:00) Pacifi	ic
6010 Individual Metals	08/02/16 15:00	5	01/21/17 07:34	As only
T161680-02 TtSB-01-2.5 [S Time (US & [NO ANALYSES]	Soil] Sampled 07/25/10	6 07:35 (GM	1T-08:00) Pacifi	ic HOLD
T161680-03 TtSB-01-5.0 [S Time (US & [NO ANALYSES]	Soil] Sampled 07/25/10	6 07:36 (GM	1T-08:00) Pacifi	ic HOLD
T161680-04 TtSB-02-0.5 [S Time (US & [NO ANALYSES]	Soil] Sampled 07/25/10	6 07:48 (GM	1T-08:00) Pacifi	ic HOLD
T161680-05 TtSB-02-1.5 [S Time (US & [NO ANALYSES]	Soil] Sampled 07/25/10	6 07:49 (GN	1T-08:00) Pacifi	ic HOLD
T161680-06 TtSB-02-3.5 [S Time (US & [NO ANALYSES]	Soil] Sampled 07/25/10	6 07:50 (GN	/T-08:00) Pacifi	ic HOLD
T161680-07 TtSB-02-5.0 [S Time (US & [NO ANALYSES]	Soil] Sampled 07/25/10	6 07:51 (GN		ic HOLD
T161680-08 TtSB-03-0.5 [S Time (US & [NO ANALYSES]	Soil] Sampled 07/25/10	6 08:03 (GM		ic HOLD



WORK ORDER

T161680

		1101000	
Client: Tetra Tech Irvine Project: Borstein - Chino		Project Manager: Project Number:	Daniel Chavez 194-5733
Analysis	Due TAT	Γ Expires	Comments
T161680-09 TtSB-03-1.5 [Soil Time (US & [NO ANALYSES]		*	HOLD
T161680-10 TtSB-03-2.5 [Soil Time (US & [NO ANALYSES]] Sampled 07/25/16 08:05	5 (GMT-08:00) Pacific	HOLD
T161680-11 TtSB-03-3.5 [Soil] Time (US & [NO ANALYSES]	Sampled 07/25/16 08:06	6 (GMT-08:00) Pacific	HOLD
T161680-12 TtSB-03-5.0 [Soil Time (US & [NO ANALYSES]	Sampled 07/25/16 08:07	7 (GMT-08:00) Pacific	HOLD
T161680-13 TtSB-04-0.5 [Soil Time (US &] Sampled 07/25/16 08:14	4 (GMT-08:00) Pacific	
6010 Individual Metals	08/02/16 15:00	5 01/21/17 08:14	As only
T161680-14 TtSB-04-1.5 [Soil Time (US & [NO ANALYSES]	Sampled 07/25/16 08:15	5 (GMT-08:00) Pacific	HOLD
T161680-15 TtSB-04-2.5 [Soil Time (US & [NO ANALYSES]	Sampled 07/25/16 08:16	6 (GMT-08:00) Pacific	HOLD
T161680-16 TtSB-04-3.5 [Soil Time (US & [NO ANALYSES]] Sampled 07/25/16 08:17	7 (GMT-08:00) Pacific	HOLD
T161680-17 TtSB-04-5.0 [Soil Time (US & [NO ANALYSES]] Sampled 07/25/16 08:18	3 (GMT-08:00) Pacific	HOLD
T161680-18 TtSB-05-0.5 [Soil Time (US & [NO ANALYSES]	Sampled 07/25/16 08:21	(GMT-08:00) Pacific	HOLD
T161680-19 TtSB-Composite-C Pacific Time (US &	0.5 [Soil] Sampled 07/25/	/16 08:20 (GMT-08:00)	
8081 Pesticides	08/02/16 15:00	5 08/08/16 08:20	
T161680-20 TtSB-05-1.5 [Soil Time (US & [NO ANALYSES]	Sampled 07/25/16 08:22	2 (GMT-08:00) Pacific	HOLD



WORK ORDER

T161680

Client: Tetra Tech - Irvine Project Manager: Daniel Chavez Project Borstein - Chino Project Number: 194-5733				01000	_
T161680-21 TtSB-05-2.5 [Soil] Sampled 07/25/16 08:23 (GMT-08:00) Pacific Time (US & [NO ANALYSES]] T161680-22 TtSB-05-3.5 [Soil] Sampled 07/25/16 08:24 (GMT-08:00) Pacific Time (US & [NO ANALYSES]] T161680-23 TtSB-05-5.0 [Soil] Sampled 07/25/16 08:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES]] T161680-24 TtSB-06-0.5 [Soil] Sampled 07/25/16 08:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES]] T161680-25 TtSB-06-1.5 [Soil] Sampled 07/25/16 08:41 (GMT-08:00) Pacific Time (US & [NO ANALYSES]] T161680-25 TtSB-06-1.5 [Soil] Sampled 07/25/16 08:42 (GMT-08:00) Pacific Time (US & [NO ANALYSES]] T161680-26 TtSB-06-3.5 [Soil] Sampled 07/25/16 08:43 (GMT-08:00) Pacific Time (US & [NO ANALYSES]] T161680-27 TtSB-06-5.0 [Soil] Sampled 07/25/16 08:43 (GMT-08:00) Pacific Time (US & [NO ANALYSES]] T161680-28 TtSB-07-0.5 [Soil] Sampled 07/25/16 08:55 (GMT-08:00) Pacific Time (US & [NO ANALYSES]] T161680-29 TtSB-07-1.5 [Soil] Sampled 07/25/16 08:56 (GMT-08:00) Pacific Time (US & [NO ANALYSES]] T161680-30 TtSB-07-2.5 [Soil] Sampled 07/25/16 08:57 (GMT-08:00) Pacific Time (US & [NO ANALYSES]] T161680-31 TtSB-07-3.5 [Soil] Sampled 07/25/16 08:58 (GMT-08:00) Pacific Time (US & [NO ANALYSES]] T161680-31 TtSB-07-3.5 [Soil] Sampled 07/25/16 08:58 (GMT-08:00) Pacific Time (US & [NO ANALYSES]] T161680-31 TtSB-07-3.5 [Soil] Sampled 07/25/16 08:58 (GMT-08:00) Pacific Time (US & [NO ANALYSES]]				-	
Tine (US & NO ANALYSES T161680-22 T1SB-05-3.5 [Soil] Sampled 07/25/16 08:24 (GMT-08:00) Pacific Time (US & NO ANALYSES T161680-23 T1SB-05-5.0 [Soil] Sampled 07/25/16 08:25 (GMT-08:00) Pacific Time (US & NO ANALYSES T161680-24 T1SB-06-0.5 [Soil] Sampled 07/25/16 08:40 (GMT-08:00) Pacific Time (US & NO ANALYSES T161680-25 T1SB-06-1.5 [Soil] Sampled 07/25/16 08:41 (GMT-08:00) Pacific Time (US & NO ANALYSES T161680-25 T1SB-06-1.5 [Soil] Sampled 07/25/16 08:42 (GMT-08:00) Pacific Time (US & NO ANALYSES T161680-26 T1SB-06-3.5 [Soil] Sampled 07/25/16 08:42 (GMT-08:00) Pacific Time (US & NO ANALYSES T161680-27 T1SB-06-5.0 [Soil] Sampled 07/25/16 08:43 (GMT-08:00) Pacific Time (US & NO ANALYSES T161680-28 T1SB-07-0.5 [Soil] Sampled 07/25/16 08:55 (GMT-08:00) Pacific Time (US & NO ANALYSES T161680-29 T1SB-07-1.5 [Soil] Sampled 07/25/16 08:56 (GMT-08:00) Pacific Time (US & NO ANALYSES T161680-30 T1SB-07-2.5 [Soil] Sampled 07/25/16 08:57 (GMT-08:00) Pacific Time (US & NO ANALYSES T161680-31 T1SB-07-3.5 [Soil] Sampled 07/25/16 08:58 (GMT-08:00) Pacific Time (US & NO ANALYSES T161680-31 T1SB-07-3.5 [Soil] Sampled 07/25/16 08:58 (GMT-08:00) Pacific Time (US & NO ANALYSES T161680-31 T1SB-07-3.5 [Soil] Sampled 07/25/16 08:58 (GMT-08:00) Pacific Time (US & NO ANALYSES T161680-32 T1SB-07-5.0 [Soil] Sampled 07/25/16 08:59 (GMT-08:00) Pacific Time (US & NO ANALYSES	Analysis	Due	TAT	Expires	Comments
Tine (US & [NO ANALYSES] T161680-23 TtSB-05-5.0 [Soil] Sampled 07/25/16 08:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES] T161680-24 TtSB-06-0.5 [Soil] Sampled 07/25/16 08:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES] T161680-25 TtSB-06-1.5 [Soil] Sampled 07/25/16 08:41 (GMT-08:00) Pacific Time (US & [NO ANALYSES] T161680-25 TtSB-06-3.5 [Soil] Sampled 07/25/16 08:42 (GMT-08:00) Pacific Time (US & [NO ANALYSES] T161680-26 TtSB-06-3.5 [Soil] Sampled 07/25/16 08:42 (GMT-08:00) Pacific Time (US & [NO ANALYSES] T161680-27 TtSB-06-5.0 [Soil] Sampled 07/25/16 08:43 (GMT-08:00) Pacific Time (US & [NO ANALYSES] T161680-28 TtSB-07-0.5 [Soil] Sampled 07/25/16 08:55 (GMT-08:00) Pacific Time (US & [NO ANALYSES] HOLD T161680-29 TtSB-07-1.5 [Soil] Sampled 07/25/16 08:56 (GMT-08:00) Pacific Time (US & [NO ANALYSES] HOLD T161680-30 TtSB-07-2.5 [Soil] Sampled 07/25/16 08:57 (GMT-08:00) Pacific Time (US & [NO ANALYSES] HOLD T161680-31 TtSB-07-3.5 [Soil] Sampled 07/25/16 08:58 (GMT-08:00) Pacific Time (US & [NO ANALYSES] HOLD T161680-31 TtSB-07-3.5 [Soil] Sampled 07/25/16 08:58 (GMT-08:00) Pacific Time (US & [NO ANALYSES] HOLD T161680-31 TtSB-07-3.5 [Soil] Sampled 07/25/16 08:59 (GMT-08:00) Pacific HOLD T161680-31 TtSB-07-3.5 [Soil] Sampled 07/25/16 08:59 (GMT-08:00) Pacific Time (US & [NO ANALYSES] HOLD	Time (US &	Sampled 07/25/16 (08:23 (GM ^r	Γ-08:00) Pacific	HOLD
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Time (US & 6010 Individual Metals 08/02/16 15:00 5 01/21/17 08:55 As only T161680-29 TtSB-07-1.5 [Soil] Sampled 07/25/16 08:56 (GMT-08:00) Pacific Time (US & [NO ANALYSES] T161680-30 TtSB-07-2.5 [Soil] Sampled 07/25/16 08:57 (GMT-08:00) Pacific Time (US & [NO ANALYSES] T161680-31 TtSB-07-3.5 [Soil] Sampled 07/25/16 08:58 (GMT-08:00) Pacific Time (US & [NO ANALYSES] T161680-32 TtSB-07-5.0 [Soil] Sampled 07/25/16 08:59 (GMT-08:00) Pacific Time (US & [NO ANALYSES]	Time (US &	Sampled 07/25/16 (08:43 (GM	Γ-08:00) Pacific	HOLD
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Time (US & [NO ANALYSES] T161680-31 TtSB-07-3.5 [Soil] Sampled 07/25/16 08:58 (GMT-08:00) Pacific Time (US & [NO ANALYSES] T161680-32 TtSB-07-5.0 [Soil] Sampled 07/25/16 08:59 (GMT-08:00) Pacific HOLD Time (US &	Time (US &	Sampled 07/25/16 (08:56 (GM	Г-08:00) Pacific	HOLD
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Time (US &	Time (US &	Sampled 07/25/16 (08:58 (GM	Γ-08:00) Pacific	HOLD
	Time (US &	Sampled 07/25/16 (08:59 (GM	Γ-08:00) Pacific	HOLD



WORK ORDER

T161680

Client: Tetra Tech -- Irvine **Project Manager: Daniel Chavez** Project: Borstein - Chino **Project Number:** 194-5733 TAT **Analysis** Due **Expires Comments**

T161680-33 Tt-Composite 2-0.5 [Soil] Sampled 07/25/16 09:00 (GMT-08:00)

Pacific Time (US &

8081 Pesticides 08/02/16 15:00 08/08/16 09:00 5

T161680-34 UST-N-5.0 [Soil] Sampled 07/25/16 09:30 (GMT-08:00) Pacific TimeHOLD (US &

[NO ANALYSES]

T161680-35 UST-N-7.5 [Soil] Sampled 07/25/16 09:31 (GMT-08:00) Pacific TimeHOLD (US &

[NO ANALYSES]

T161680-36 UST-N-10.0 [Soil] Sampled 07/25/16 09:32 (GMT-08:00) Pacific Time (US &

HOLD

[NO ANALYSES]

T161680-37 UST-N-12.5 [Soil] Sampled 07/25/16 09:33 (GMT-08:00) Pacific HOLD Time (US &

[NO ANALYSES]

T161680-38 UST-N-15 [Soil] Sampled 07/25/16 09:34 (GMT-08:00) Pacific Time (US &

6010 Individual Metals 08/02/16 15:00 5 01/21/17 09:34 Pb only 5 8015 Carbon Chain 08/02/16 15:00 08/08/16 09:34 8260 08/02/16 15:00 08/08/16 09:34 + OXYs

T161680-39 UST-E-5.0 [Soil] Sampled 07/25/16 09:50 (GMT-08:00) Pacific Time HOLD (US &

[NO ANALYSES]

T161680-40 UST-E-7.5 [Soil] Sampled 07/25/16 09:51 (GMT-08:00) Pacific Time HOLD (US &

[NO ANALYSES]

T161680-41 UST-E-10.0 [Soil] Sampled 07/25/16 09:52 (GMT-08:00) Pacific HOLD Time (US &

[NO ANALYSES]

T161680-42 UST-E-12.5 [Soil] Sampled 07/25/16 09:53 (GMT-08:00) Pacific HOLD Time (US &

[NO ANALYSES]

T161680-43 UST-E-15 [Soil] Sampled 07/25/16 09:54 (GMT-08:00) Pacific Time

(US &

6010 Individual Metals 08/02/16 15:00 5 01/21/17 09:54 Pb only 8015 Carbon Chain 08/02/16 15:00 5 08/08/16 09:54 8260 08/02/16 15:00 08/08/16 09:54 + OXYs



WORK ORDER

T161680

Client: Tetra Tech -- Irvine Project Manager: Daniel Chavez
Project: Borstein - Chino Project Number: 194-5733

Analysis Due TAT Expires Comments

T161680-44 UST-S-5 [Soil] Sampled 07/25/16 10:05 (GMT-08:00) Pacific Time HOLD

(US &

[NO ANALYSES]

T161680-45 UST-S-7.5 [Soil] Sampled 07/25/16 10:06 (GMT-08:00) Pacific Time HOLD (US &

[NO ANALYSES]

T161680-46 UST-S-10.0 [Soil] Sampled 07/25/16 10:07 (GMT-08:00) Pacific HOLD

Time (US &

[NO ANALYSES]

T161680-47 UST-S-12.5 [Soil] Sampled 07/25/16 10:08 (GMT-08:00) Pacific HOLD

Time (US &

[NO ANALYSES]

T161680-48 UST-S-15 [Soil] Sampled 07/25/16 10:09 (GMT-08:00) Pacific Time

(US &

6010 Individual Metals 08/02/16 15:00 5 01/21/17 10:09 Pb only 8015 Carbon Chain 08/02/16 15:00 5 08/08/16 10:09 8260 08/02/16 15:00 5 08/08/16 10:09 + OXYs

T161680-49 Septic Tank-1-5 [Soil] Sampled 07/25/16 11:15 (GMT-08:00) Pacific HOLD

Time (US &

[NO ANALYSES]

T161680-50 Septic Tank-1-7.5 [Soil] Sampled 07/25/16 11:16 (GMT-08:00)

Pacific Time (US &

8015 Carbon Chain 08/02/16 15:00 5 08/08/16 11:16

T161680-51 Septic Tank-1-10 [Soil] Sampled 07/25/16 11:17 (GMT-08:00) HOLD

Pacific Time (US &

[NO ANALYSES]

T161680-52 Septic Tank-2-5 [Soil] Sampled 07/25/16 11:40 (GMT-08:00) Pacific HOLD

Time (US &

[NO ANALYSES]

T161680-53 Septic Tank-2-7.5 [Soil] Sampled 07/25/16 11:41 (GMT-08:00)

Pacific Time (US &

8015 Carbon Chain 08/02/16 15:00 5 08/08/16 11:41

T161680-54 Septic Tank-2-10 [Soil] Sampled 07/25/16 11:42 (GMT-08:00)

Pacific Time (US &

[NO ANALYSES]

HOLD



WORK ORDER

T161680

Client: Tetra Tech -- Irvine **Project Manager: Daniel Chavez Project Number:** Project: Borstein - Chino 194-5733 TAT **Analysis** Due **Expires** Comments T161680-55 Debris-1-5 [Soil] Sampled 07/25/16 12:25 (GMT-08:00) Pacific Time HOLD (US & [NO ANALYSES] T161680-56 Debris-1-7.5 [Soil] Sampled 07/25/16 12:26 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161680-57 Debris-1-10 [Soil] Sampled 07/25/16 12:27 (GMT-08:00) Pacific **HOLD** Time (US & [NO ANALYSES] T161680-58 Debris-2-5 [Soil] Sampled 07/25/16 12:33 (GMT-08:00) Pacific Time HOLD (US & [NO ANALYSES] T161680-59 Debris-2-7.5 [Soil] Sampled 07/25/16 12:34 (GMT-08:00) Pacific HOLD Time (US & [NO ANALYSES] T161680-60 Debris-2-10 [Soil] Sampled 07/25/16 12:35 (GMT-08:00) Pacific **HOLD** Time (US & [NO ANALYSES] T161680-61 Debris-3-5 [Soil] Sampled 07/25/16 13:20 (GMT-08:00) Pacific Time HOLD (US & [NO ANALYSES] T161680-62 Debris-3-7.5 [Soil] Sampled 07/25/16 13:21 (GMT-08:00) Pacific **HOLD** Time (US & [NO ANALYSES] T161680-63 Debris-3-10 [Soil] Sampled 07/25/16 13:22 (GMT-08:00) Pacific **HOLD** Time (US & [NO ANALYSES]

Reviewed By Date Page 6 of

Table 1 - Summary of Detected Total Petroleum Hydrocarbons in Soil

4570 Francis Avenue Chino, California

			ТРН І	oy USEPA Method ((mg/kg)	B015 C	Lead by USEPA	VOCs by USEPA
Sample ID	Sample Date	Sample Depth (feet bgs)	C6-C12 (GRO)	C13-C28 (DRO)	C29-C40 (MORO)	Method 6010B (mg/kg)	Method 8260B (μg/kg)
UST-E-15	07/25/16	15.0	<10	<10	<10	<3.0	ND
UST-S-15	07/25/16	15.0	<10	<10	<10	<3.0	ND
UST-N-15	07/25/16	15.0	<10	<10	<10	<3.0	ND
Septic Tank-1-7.5	07/25/16	7.5	<10	<10	<10		
Septic Tank-2-7.5	07/25/16	7.5	<10	<10	<10		
0	Land-Us	e Scenario			USEPA RSLs ¹		
Screening Levels	Resi	dential	82	110	2,500	400	Varies
FeAGI2	Commerc	ial/Industrial	420	600	33,000	800	Varies

Notes:

bgs	Below ground surface
mg/kg	Milligram per kilogram
μg/kg	Microgram per kilogram
GRO	Gasoline range organic
DRO	Diesel range organic
MORO	Motor oil range organic
TPH	Total petroleum hydrocarbon
USEPA	United States Environmental Protection Agency
VOCs	Volatile Organic Compounds
<	Denotes concentration is less than the laboratory reporting limit indicated
	Denotes analysis was not run for sample location; not applicable
RSL	Regional Screening Level
ND	Non-detect
	Denotes concentration is greater than the RSL for a residential land-use scenario
	Denotes concentration is greater than the RSL for both residential and commercial/industrial land-use scenarios

References:

1 "Regional Screening Level (RSL) Summary Table - May 2016" (USEPA, 2016)



1 of 1 194-5733

Table 2 - Summary of Detected Organochlorine Pesticides in Soil

4570 Francis Avenue Chino, California

						Organo	ochlorine Pes	sticides by U	SEPA Method	d 8081A			
Sample ID	Sample Type	Sample Date	Sample Depth (feet bgs)	Aldrin	gamma-BHC (Lindane)	4,4′-DDD	4,4′-DDE	4,4′-DDT	Dieldrin	Endrin	Endosulfan Sulfate	Endrin ketone	Arsenic by USEPA Method 6010B (mg/kg)
LB10-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB10-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB30-E1-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	19	14	<5.0	<5.0	<5.0	<5.0	
LB30-E2-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB30-W1-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB30-S1-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	100	110	6.0	<5.0	<5.0	<5.0	
LB30-S2-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	16	9.6	<5.0	<5.0	<5.0	<5.0	
LB30-N1-0.5	Discrete	07/21/16	0.5	<5.0 <5.0	5.6	<5.0	10	< 5.0	10	<5.0	<5.0	<5.0	
LB43-E1-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	<5.0	<5.0	9.7	<5.0	<5.0	<5.0	
LB43-E1-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB43-E1-2.5	Discrete	07/21/16	2.5	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	
LB43-W1-0.5	Discrete	07/21/16	0.5	<5.0	<5.0 <5.0	<5.0 <5.0	5.7	11	56	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	
LB43-W1-0.5 LB43-W1-2.5	Discrete	07/21/16	2.5	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	< 5.0	<5.0	<5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	
	Discrete	07/21/16	2.5	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	
LB43-W2-2.5									8.1				
LB43-S1-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0	
LB43-S1-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB43-S2-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB43-N1-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB43-N1-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB43-N2-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB48-E1-0.5	Discrete	07/21/16	0.5	14	<5.0	<5.0	38	40	2,000	170	<5.0	120	
LB48-E1-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	1,200	<5.0	<5.0	6.1	
LB48-E1-5.0	Discrete	07/21/16	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	420	<5.0	<5.0	<5.0	
LB48-E2-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	490	<5.0	<5.0	<5.0	
LB48-E2-5.0	Discrete	07/21/16	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB48-W1-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	8.1	9.4	1,300	6.2	<5.0	16	
LB48-W1-1.5	Discrete	07/21/16	1.5	<5.0	<5.0	<5.0	<5.0	<5.0	19	<5.0	<5.0	<5.0	
LB48-W1-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	28	<5.0	<5.0	<5.0	
LB48-W1-5.0	Discrete	07/21/16	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.1	<5.0	<5.0	<5.0	
LB48-W2-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB48-W2-5.0	Discrete	07/21/16	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB48-S1-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	5.9	12	330	<5.0	<5.0	<5.0	
LB48-S1-1.5	Discrete	07/21/16	1.5	<5.0	<5.0	<5.0	<5.0	<5.0	180	<5.0	<5.0	<5.0	
LB48-S1-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB48-S1-5.0	Discrete	07/21/16	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB48-S2-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB48-S2-5.0	Discrete	07/21/16	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB48-N1-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	<5.0	<5.0	160	<5.0	<5.0	<5.0	
LB48-N1-1.5	Discrete	07/21/16	1.5	<5.0	<5.0	<5.0	<5.0	<5.0	47	<5.0	<5.0	<5.0	
LB48-N1-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB48-N1-5.0	Discrete	07/21/16	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	43	<5.0	<5.0	<5.0	
LB48-N2-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB48-N2-5.0	Discrete	07/21/16	5.0	<5.0	<5.0 <5.0	<5.0	<5.0 <5.0	<5.0	<5.0 <5.0	<5.0	<5.0 <5.0	<5.0 <5.0	
													1
LB49-E1-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	12	7.1	120	<5.0	<5.0	<5.0	
LB49-E1-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB49-E2-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB49-W1-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	6.9	7.7	530	<5.0	<5.0	<5.0	



1 of 2

Table 2 - Summary of Detected Organochlorine Pesticides in Soil

4570 Francis Avenue Chino, California

						Organo	ochlorine Pes	sticides by U (µg/kg)	SEPA Metho	d 8081A			
Sample ID	Sample Type	Sample Date	Sample Depth (feet bgs)	Aldrin	gamma-BHC (Lindane)	4,4′-DDD	4,4′-DDE	4,4′-DDT	Dieldrin	Endrin	Endosulfan Sulfate	Endrin ketone	Arsenic by USEPA Method 6010B (mg/kg)
LB49-W1-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	9.8	<5.0	<5.0	<5.0	
LB49-S1-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	45	22	180	<5.0	<5.0	<5.0	
LB49-S1-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB49-S2-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB49-N1-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB49-N1-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB49-N2-2.5	Discrete	07/21/16	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB52-E-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	8.0	12	<5.0	270	9.4	14	16	
LB52-W-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
LB52-S-0.5	Discrete	07/21/16	0.5	<5.0	<5.0	<5.0	<5.0	<5.0	7.3	<5.0	<5.0	<5.0	
TtSB-Composite1-0.5	Composite	07/25/16		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
TtSB-01-0.5	Discrete	07/25/16	0.5		•	•	•		-			-	<5.0
TtSB-04-0.5	Discrete	07/25/16	0.5										<5.0
TtSB-Composite2-0.5	Composite	07/25/16		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
TtSB-07-0.5	Discrete	07/25/16	0.5				1			1			<5.0
		Land-Us	e Scenario				USE	PA RSLs (µg	/kg) ¹				(mg/kg)
Screening Le	vels		idential	39	570	2,300	2,000	1,900	34	19,000	NG	NG	0.68
		Commerci	al / Industrial	180	2,500	9,600	9,300	8,500	140	250,000	NG	NG	3.0

Notes:

bgs	Below ground surface
μg/kg	Micrograms per kilogram
mg/kg	Milligrams per kilogram
DDD	Dichlorodiphenyldichloroethane
DDE	Dichlorodiphenyldichloroethylene
DDT	Dichlorodiphenyltrichloroethane
NG	No guidance
RSL	Regional Screening Level
USEPA	United States Environmental Protection Agency
<	Denotes concentration is less than the method detection limit indicated
	Denotes analysis was not run for sample location; not applicable
Bold	Denotes concentration is greater than or equal to the laboratory reporting limit
	Denotes concentration is greater than the RSL for a residential land-use scenario
	Denotes concentration is greater than the RSL for both residential and commercial/industrial land-use scenarios
	

References:

"Regional Screening Level (RSL) Summary Table - May 2016" (USEPA, 2016)



2 of 2

APPENDIX G – FIELD NOTES



HEALTH AND SAFETY TAILGATE BRIEFING ATTENDANCE ROSTER

ACKNOWLEDGEMENT FORM

All tetra tech personnel and their subcontractors working at or visiting the Site, must acknowledge by signing below that the contents of this Tailgate Safety Meeting and associated HASP/SSHP have been reviewed with them. Each person agrees that he/she has read and understands the HASP/SSHP and agrees to comply with it.

NAME	COMPANY	DATE	ATTENDEES' INITIALS
Cady Adams	PCL	7/21/16	(1)
Rich Dunga	PCL	7-21-16	RS
Andrew Gerado	MEI	7-21-16	A S
JAMES DAVK	MEI	7.21.16	1.2.
Carl Lenker	Tetra Tech	7/21/16	u
yas zhan	Tetra Tech	7/21/16	YX.
	•		
,			

Meeting Date:	7/21/19
Meeting Leader:	Hao Zhang
Project:	Borstein-Chino



DAILY FIELD REPORT

Project Name: Barsten -Chino	Date: 7/21/16
Project No.: 194-5733	Arrival Time: 0800
Project Location: 4570 Francis Avenue, Chino, CA	Departure Time: 1840
Personnel On-Site: Han Zhan, Carl Laker Field Equipment/Equipment No./Rental Company Name:	Weather: sugar, highest -1029
rield Equipment/Equipment No./ Kental Company Name.	
P10 MiniCAE 2000	
Contractors On-Site: MET PCL	01 6 7 80
Contractor Personnel: Andrew , James (MEI)	Rich Cody (PCL).
Contractor Equipment: Electro-magnetic, GP Others On-Site:	Mugnotometer (more disector), souph
Scope of Work: Phase 2 ESA and Phase 1 ESA site Roc	en .
Field Notes:	
0800 Tetra Tech onsite (Hao Z., Carl L.)	
calibrate PID with looppa hexage, frest	nair reading = 0.0 ppm cal reading = 101 ppm
check gate, it :> unlocked, lots of goods or	nsite.
0830 Jose onsite to get water for goats	
0837 PCL onite (RId)	The Manufacture of the Control of th
0400 PCL checked PO status with Juliel	PCL) Carl & Hao marked the
boring locations with white flags,	the previous drilling location
from LB with green flags. step-	out 10 ft. 20 ft to the
N, S, W, E of the previous	LB locations
0920 MEL on site	
0930 Carl davitted the po in place for	r PCL& MEI
Sturt Toulgette meeting (PPE,	tripa fall, heat stress,
hospital route, sow)	
0940 PCL started geophysical survey	y na.
1020 PCL cleared for the first local	ution 1849, south step-out.
1025 MEI started drilling at LB40	7-55 2-50, 00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
10 46 MEI started In 1/11 y at L1349-51,	PID ready for 1.5-7.0ft 32ppm
\$49 aned backful mottental, si	oil not condense, mocompacted
silty sound, grey.	A COLOR TO THE COLOR AND ADMINISTRATION OF THE PROPERTY OF THE
ylar 7	2
Signature	Page 1 of <u></u>

TETRA TECH

DAILY FIELD REPORT (CONT.)

Project Name: Borstein-Chino Date: 7/21/16 144-5733 Project No.: concrete part was about a linch think for LB48, LB49 area 1110: Moved to LB-10 avea, collected squiple at D.J. 1. Ift, 25 ft bgs.
Moved to LB43 avea, collect 8 so: (sorrings to 2.5 ft bys. 1320 1336 1340 During Willing at LB43-WZ locations, Hap 8. (76) accidentally stepped a board with nailon it, the nail went through her steel toe boots and punctured on her right foot-back. Carl (II) & MEI used first aid let helped Has townipe the wound away with alcohol pads and put bandage on it attenuals. Tooks min break peep bonky soil in 4843 area 1345 1843-NI boring has brinch soil recovery (top 3 inch as 0,5ft, 1420 bostom 3 inch lorbeled as 2,5 ft bys) PCL montained UST was found in the western portion of the 1425 site east of the concrete-walled shed. LIOX6 ft) loft NS MEI finished soil bonings at LB43 area. 1500 MEI, Petra Tech Lunch broak 1510-MEI, Teba Tech back to site 1540 1600 Continue boring in LB52, LB30 area LB52 proposed boring locations were next to site boundary for inside of the shed area. So moved location of proposed samples. Collected samples at 0.5ft, 1.5ft, 25th for the West, south, east of the previous LB +2 location 1606 PCL off site MEI moved to 1830 area 1645 Finished sampling at LB30. 1750 MEI planned to leave site found out that the gate was locked 800 Carl & Hao called Ravi to get site access contect, Rai said 1805 hewill top to call and see what we can do May be able to cut and buy a new lock with combo number. Signature_

DAILY FIELD REPORT (CONT.)



Project Name: Borstein-Chino	Date: 7/21/16
Project No.: 194-5733	
	ed the UST dimension beside the She
1824 cont & Hao left 5764	e to get a combo lode from heavest
1840 Got combo lock,	booked the gotte. Tt left site
7	·
Y	
	1/24/16
ignature You 2h	Page of



AMBIENT AIR MONITORING RECORDS

Project Name: Borstein - Chino	Date: 7/21/14				
Project No.:	Project Location: 4570 Forcis Avenue, China, CA				
Monitoring Personnel: How Though Carl Lanker					

Monitor Informatio	n	Calibration Data	
Brand/Model: Mini	RAE 2000	Calibration Gas: 100 ppr	1 Herene
Type: PID	42	Galibration Gas Reading: (PPM)	101990
Time: 0800	By: }	Fresh Air Reading: 0.0 p	Ym

Time	VOC Concentration (PPM)			Comment / Time		VOC Co	ncentratio	n (PPM)	Comment
Time	Reading	Hexane Factor	Adjusted Reading	Location		Reading	Hexane Factor	Adjusted Reading	/ Location
1020	0.0			Breathing Bone	1550	00			Breathing Zone.
1035	0.0	(1505	0.0			
1050	0.0				1620	90			
1105	0,0				1635	0.0			
1120	0.0				1650	0.0			
1135	0,0				1705	0.0			
1150	20				1720	0.0			
1205	0,0				1735	60			
1270	0,0				1750	0.0			
1235	0,0				1805	0.0			
1250	0.0				•				
1305	0.0								
1320	0,0								
1335	QO								
350	0.0								
14-05	. 00		н х	/					
1420	. 0.0	3.							
1420	0.0								
1450	0.0	ÿ							
1500	0.0								

I certify that the information contained in the above document is true and correct. I further certify that the above listed monitor was operated in a manner consistent with the manufacturer's specifications. In addition, I certify that the above readings represent the actual measurements I observed and recordered.

SIGNATURE	Date



FIELD SOIL LOG: DRILLING / WELL CONSTRUCTION

Environmental (Gentist) Engine Geologist: Haw Zhang Boring No: 1248-W.

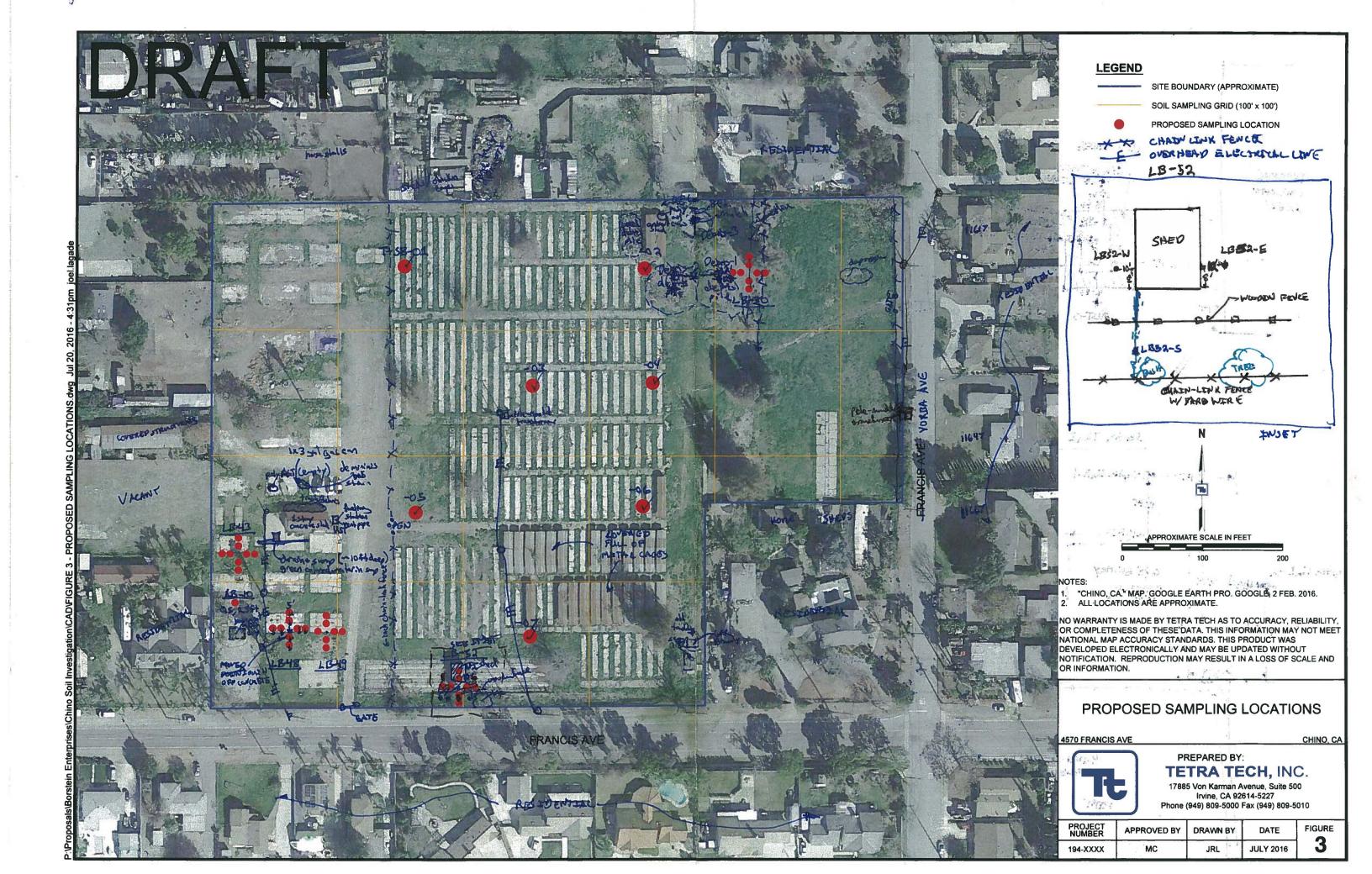
Client: Yovstein	Location: 4570 Francis Ave	Мар:	
Project: Doys Lin Olino	China. CA		
Elevation/Datum:	Subcontractor: M 51		
Sampling Date(s): 7/2//2016			
Sampling Method: Acetotl sleeve	Memo:		
Drop Height:	Angle:		
DTW: 1st Static	Aligie.	¥	
Soi	I Description (BH-1 @ 10)		
8 3 5	Time	unular Fill Weil Construction Details	
Surface (12) O D D D D D D D D D D D D D D D D D D	description including percentages of gravel, sand, silt, and land	Annular Fill Well Construct Details	
The last section of the la	h Brown (10YR 3/2) (0,60,0,40) poorly graded sub-angular medium sand	Jan S	
Δ σ σ α σ α σ α σ σ σ with some slow dilatancy, medi	lum toughness, high plasticity clay. Very stiff and moist.] ເວັ		
- o. St D.Z SM Sith sand. gray	ich Brown (traco (60140)		
	angular fine to come		
- 21 grained and to	nce sub-angular gravel	 	
- 34 DIA VEMISSE and,	My.		
F-91-10.72	164/ Eus drains	{ 	
6	180 Jun Arr.	 	
		! }	
- 8 115th Silt Silt grayish brow	un, trace sandy, low plastice		
- 404			
- 10			
- "			
- 12	. Se		
- " 2,5ff.SM Silter sand., gravis	sh brown (Th: 60:40).		
- Samp 25 0 5 14	above		
- 14			
- 16 3. Fff Sandy Sitt, gran	11sh brown (TR: 30: 70)		
I- I I I I I I I I I I I I I I I I I I		4	
18 January 2006	fine grained sond, dry		
-			
20			
Sandy Sitt, grayis	h brown; (TR. 30. 70)		
	1 Specifical and		
- 24 Ventine grange	el sand, todal sub-angular acticity, moist.		
	acticity, moist.	/	
26			
- 30	<u> </u>		
- '	2		
-	A A A A A A A A A A A A A A A A A A A		
- 2			
10 10	7 P V		
Boring / MW #: LB48-W2	Page	1 1	
Boning / MVV #:	Page		

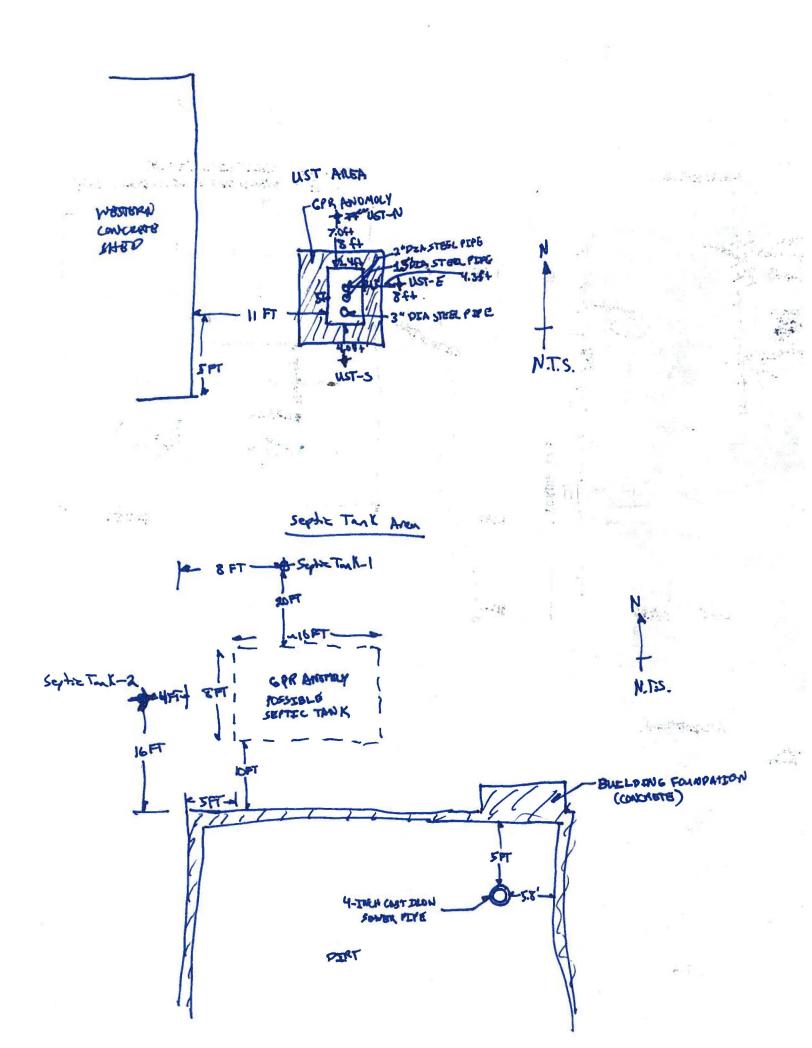


DAILY FIELD REPORT

Project Name: Bursten-Chira	Date: 7/25/16
Project No.: 194-5733 /02.01	Arrival Time:
Project Location: 4570 Foncis Are, Chiao, CA	Departure Time: 1400
Personnel On-Site: Has Zhon, Carl Lenker	Weather: sunny, clear skies,
Field Equipment/Equipment No./Rental Company Name:	
Telm Tel PID/Min: RAE 2000	
Contractors On-Site: Millennium PCL	
Contractor Personnel: Andrew Tomes Rick	
Contractor Equipment: Truck-marted Geogrape 6600	
Others On-Site: Manhance Crew	
Scope of Work: Direct Push Sort Surplas	
Field Notes:	
0700 TetraTech, Millemin osite	
conduct tail gode HLS mosting (scape of month, and	the put for newly heat strong house of noute
mob to T+SB-01, collect discrete and composite	
0730 double-by ice, calibrate PID, Such ar = 0.0 pm,	•
fly proposed souply locations around UST, del	
0900 complete T+SB-07, mab to UST	
advance UST-N ~7ft north of concrete prof a	allow on the 75 10 125 - 1150 h.
0940 not to FF UT-E ~ 43 A east of america po	
1000 Rick with PCL oraite, will clear bony beations	•
1050 Rick with PCL offsite, closed burneys, no object	
1115 Mob to septor tonk even, Spoke to Row: Lim	are re! UT borry , agreed to analyze
15 ft bes suple due to granels and ende from	~86+ to 14Hbss
1200 backfill Septe Tonk-2 with bentonite chips +	hydraded.
1215 begin advincy Pebris-1 West of LB-30, ad	
only - 20% recovery from top 5 Ct, called Kari L	decided to Just place supples on House
1245 Emst dotte Debris -2, -40% recovery from to	5 ft, begy hard of flips
\$40 captele Pebro -3, ~40% recorny for 554, 6	
buckfill Debis -3	
•	
1850 Millannen ottste 1400 TetraTech offeite	
Signature /	Page 1 of

LEGEND SITE BOUNDARY (APPROXIMATE) SOIL SAMPLING GRID (100' x 100') 2 composite och APPROXIMATE SCALE IN FEET "CHINO, CA." MAP. GOOGLE EARTH PRO. GOOGLE, 2 FEB. 2016. ALL LOCATIONS ARE APPROXIMATE. NO WARRANTY IS MADE BY TETRA TECH AS TO ACCURACY, RELIABILITY, OR COMPLETENESS OF THESE DATA. THIS INFORMATION MAY NOT MEET NATIONAL MAP ACCURACY STANDARDS. THIS PRODUCT WAS DEVELOPED ELECTRONICALLY AND MAY BE UPDATED WITHOUT NOTIFICATION. REPRODUCTION MAY RESULT IN A LOSS OF SCALE AND OR INFORMATION. PROPOSED SAMPLING LOCATIONS 4570 FRANCIS AVE CHINO, CA PREPARED BY: TETRA TECH, INC. 17885 Von Karman Avenue, Suite 500 Irvine, CA 92614-5227 Phone (949) 809-5000 Fax (949) 809-5010 PROJECT NUMBER **FIGURE** DRAWN BY DATE APPROVED BY 3 **JULY 2016** 194-XXXX







FIELD SOIL LOG: DRILLING / **WELL CONSTRUCTION**

Engineer: Boring No: UST-1

Мар: Client: Borstein _ocation: Project: Boystein Unino, 194-5733 4570 Francis Uve, chino, CA Subcontractor: MEI Elevation/Datum: See Attached Hammer Weight: Sampling Date(s): Memo: Prilling method: divectputh
Angle: Geotrobe 6600 Sampling Method: Pretate seele Drop Height: 2.25 much rods DTW: 1st Static

						g			
Depth Below Surface (ft.)	Blows/ 6 in On Sampler	PID Reading (ppm)	Unified Classification	Soil Description (BH-1 @ 10') Time USCS type in all caps followed by the description including percentages of gravel, sand, silt, and clay. [i.e.: SC- CLAYEY SAND. Very Dark Grayish Brown (10YR 3/2) (0.60.0.40) poorly graded sub-angular medium sand with some slow dilatancy, medium toughness, high plasticity clay. Very stiff and moist.	Sampler and Bit	Annular Fill	Well	Construction Details	
- (- ;	-	\$ 5,0	SM	fine grained sand, trace gravel (fine, long) toughnes, low plasticity, dry, no orders or staining) j				
				5-8,0ft sandy, Silt, same as above	Samp 1D:	Hed G	D-5-	t.75,1	0,,
<u>-</u>	7.5	1.7	CW	(0) 8'-14 tip, gravely sand, well graded		NST	-N-	7.5	
<u>-</u> 1	0 10-1	3,0		fine townse grained sample, sub-angula grave Lup to I-inch, loose sand, (10 YR 6/2	1	45	-N-	10	
-	² /2,5	1.1		obstrued.	9	115	1-1V- T-0	12-5	
E	15	1.8	SM	10/4' sity sand (10/R 6/4) whit vellowish proun, very time grained sand, dense		43	1 70		
<u>-</u>	8			Some Mica	,				
2 2	0		-	encountered.	ter			heart for the control of the control	A Minimum or
- 2 - 2				granular bentonite.					
2									
2 2	8								
3 	0								
-									
				2					

Page: /



FIELD SOIL LOG: DRILLING / WELL CONSTRUCTION

Engineer.

Geologist Lav &., Cer (1)

Boring No: UST-E

Client: Bashey					Location:		Мар:				
Project: 194-5733, Borstein-Chino					4570 Francis Ave. Chang, CA						
Elevation/Datum:					Subcontractor: Millengue						
					Hammer Weight:			See Attached			
Sampling Method: Prod Push, 225-nul role acoline Skeeps											
					Angle:						
DTW: 1		Stati	ic		Angle.						
	-										
	-			Soil Desc	ription (BH-1 @ 10')	ii.			c		
t. 0	ri O	L L	tion	LISCO has in all case followed by the description	Time	Sampler and Bit		-	ils		
Depth Below Surface (ft.)	s/6 i	gi.	i d	USCS type in all caps followed by the descrip	otion including percentages of gravel, sand, silt, and clay.	Je .	ar F	8	nstr. Deta		
ept	On Decision of the period of t				(10YR 3/2) (0,60,0,40) poorly graded sub-angular medium sand	am	Annular Fill Well Construction Details		ខឹ		
L 0	I m ov ic	1 0 0	120	with some slow dilatancy, medium tough	nness, high plasticity clay. Very stiff and moist.]	[0)					
-		120	SM /	De Sundy Sitt, bro	w (loy R. H2) (0.30,0.70)			***			
- °		- V		time grained sound	track - travel time land						
-				toughness, low Diag	45-150 dM1						
- 2				no oder or stain			100	A 7	- 1 - 1		
	-			VIE BOOK ON SOUTH	on enven	Same	Aled Co	15,1	5,19,12		
- 4						ZD:	11 0	E -	L		
			 			410,	12.21	-			
6			-				1157	-20-	7.5		
		 					W> 1		10		
- 8		0.0	SW	@ 8' gravely sond	well analed fine to		1127	JE-	10		
	-	0.0	SVU	7	0 (10)		1001	<u></u>	10		
- 10			-	coarse grainles ou			170	F-	12 10		
	-			Hellow HE Isolut brown	nich gray, sub-angular		100	7_	4		
12			├	gravel up to 1-inch;	loose sund, orm.		110	CF.	1 2		
-				No odor or staining	observed.			-C-	15		
- 14		100					<u> </u>				
		U.U	SM	13.5 Silty sound	10 (R 6/4), light yellowish		<u> </u>				
- 16				brown, (0.80, 0.20),	very fine grained sand		II				
				dence dry some in	lica		· .				
18				No odor or staining	observed						
				7							
20				Boning completed	@15+6 bgs.						
				No aroundwheter AM	countered.						
22				Brotill with exict	contened singsoil and 8-20 Med						
- 22				granular bentonite		•					
				-							
24 -											
26											

Boring / MW #:	UST-C	
During / www #.	- 1 -	



Geologist: Haok, Carl

Client: Boo	rede in			Location: 4570 Francis Ale,		Мар:	
		Borster	n-Chro	Chone, CA			ĺ
Elevation/Da				Subcontractor: Millenaire			
Sampling Da		25/16		Hammer Weight:		Se	ee Attached
Sampling Me		read thes	4,225- Met pots acclude steers	Memo: Go Pale 6600			1
Drop Height	t:			Angle:			- 1
DTW: 1st	8	Static					
			0.110		- 44		
3 6		Ē E	Soil Desc	ription (BH-1 @ 10') Time	Sampler and Bit		Well Construction Details
Belo F (ft.	, <u>S</u>	g (p	USCS type in all caps followed by the descrip	otion including percentages of gravel, sand, silt, and	eran	Ē	Nell struc etails
Depth Below Surface (ft.) Blows/ 6 in On	Sampler Recovery PID	Reading (ppm) Unified Classification	[i.e.: SC- CLAYEY SAND. Very Dark Grayish Brown	clay. (10YR 3/2) (0,60,0,40) poorly graded sub-angular medium sand	ld m	Annular Fill	Cons
a w	Rec PID	ž 5 ö		nness, high plasticity clay. Very stiff and moist.]	Ŝ	₹	
-	10	USM	@ of Sandy Sift Brow	m [107R 43] 10.30,0%			
- ° -		<u> </u>	Traine of the stat	trace of the second			
			fine france some	wace fine grower; and			
- 2			toughness, low plasti	CIPI 2 OM			
			No oder or stale	sky sky			
- ⁴ -				and the tree		1	7.0
<u> - </u>					Sam		1
6				_	Zh	. WS	-55
	0	0 01	@ 8' aravely same	1. (10 YR 6/2) light	-30	:10	TU-75
- 8 -	10	O SW	brownish orang	vell graded fine to		II V	1 2 19
			coarse grained:	Sind lenso.		119	1-1-10
10			sub-ompular arau	sel up to 1-inch, dim		1	12 (
			No odor or stown	na obtemped		WS	1-5-1-7
12			No Cool - State of	H Services		(.	07 V-11
	0.	0 SM	(a) B,5, 0/4 5ano) light yetlowich brown		W.	51-2-15
- 14 -			(1048 FILL) 70180.	0,20). Dem fine grained			
			demse s	my Some wice			
- 16			30000				
- 40			No oder or staining	dopermon ,			
18							
- 20			Boung completed	(0) 15 ft has			
- 20			No groundwater	encountered			
- 22			sachtilled noth	encountabell existing soil cutting aroundar bentonite	,		
- "			and 8-20 med	granular Benjanito			
- 24				3 2000 7 50			
- 27							
- 26							
- "							
- 28							
- 20							
- 30							
<u>-</u> "_							
				\			
-							

Boring / MW #:

Page: 1



Depris

Client:	Borg	telin			Location:	Мар:	
Project:	Bers	tein-	Onin	0	4570 Francis Ave. China CA	7	
Elevation					Subcontractor: MEZ	7	
Sampling		15.	-116		Hammer Weight:	7	as contra
			CHO d		Memo: Start 1215 - 1227	1	
		· rec	MIR->			.1	
Drop He DTW: 1s		Statio			Angle: Direct Push Auger 21/2 Geobrobe 6600	`	
DTVV. IS	·L	Statu			GEODIEUE BIDEU		
				Soil Descri	iption (BH-1 @ 10)	7.	
3 ~	ō	PID Reading (ppm)	5	Son Descri		<u> </u>	
Beel (#	in Sin	g) 6	icati		tion including percentages of gravel, sand, silt, and	Ē	TO THE
Depth Below Surface (ft.)	Blows/ 6 in On Sampler Recovery	adin	Unified Classification		Time tion including percentages of gravel, sand, silt, and clay. clay. OVR 3/2) (0,60,0,40) poorly graded sub-angular medium sand less, high plasticity clay. Very stiff and moist. 1	Annular Fill	
<u>8 %</u>	S S B	PID	5 ರೆ		ness, high plasticity clay. Very stiff and moist.]	₹	
		. (2)	4.1	6 4 6 11 611	10 m 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
- o	-1-7	- 00	ML	Or o Sandy o Silter down		┨Ь——	
<u> </u>	11/			very loose, mediv	im toughness well graded		
2	166			fine to course some			
	20	9/		gravel, your po	ces on surface, day sa	pled	(a) 7.1
- 4				No oder or see	in my observeds	_ال_)
<u>-</u> .					7) rel	mist
6		0.0	CP	a) 127-44 gravel	40 +0 2 1/4 hand.		
- 1	6	,		() 112	, , , , , , , , , , , , , , , , , , , ,		
F- /	60,	0				PE	115-11-7.6
- °		20	CW	10 4. 5 gravely s	and brown (10YR M3)	7/	
			000	ventioned well	graded the torsaid		
<u> </u>				stained sand, SI	B-angular gravel up to 27	Pel	Prisit -In
-				DV	3000	11	1 2 1
12				No odor oretains	a bsented	11-	
_				TAB PABE BE STANDELL	d selver.	11-	
14		0.0	Ci	0 25 clay with some	, don't ground brown	┨├──	
_		0.0	~	160	1 10 1 10 10	┨├──	
16	-			(10 YR 9/2), modin		┨├──	
F-				grained sund, mo			
18				No solor or stain	ing observaels,	╢	
-		,	6.4	@91 sendy sit in	1111 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		
20		0.0	ML		ayish brow (10xR 5/2):		
<u> </u>		-		rentine gradue of so	md, loose, moist		
22				poorly graded san	di mad		
				"NO ADOT OF Stown in	4 SPZEM		
24							
				Boring completed	a 10 ft bgs. scenatored. ting soil autting and lar bendonite		
- 26				No ground water en	countered.	`	
				Backfilled with DOIS	ting soil artising and		
28				8-20 Mesh granu	lar benzonite		
<u>-</u>							
30						الـــالــــا	
<u>-</u>							
-							
			7 to \$4.	1		- VIII	Cu well-

Boring/MW#: Pebris-

1



Boring No: Pebrs-1

Client: Booken	Location: 4570 France Ave.	Мар:											
Project: 194-5733, Borstem-Chino	Chine CA												
Elevation/Datum:	Subcontractor: MNews	7											
Sampling Date(s): 7/35/16	Hammer Weight:	See Attached											
Sampling Method: Prod Rush, 225-neh rode, achtyleurs	Memo: 600	7											
Drop Height:	Angle:												
DTW: 1st Static													
Soil De	escription (BH-1 @ 10)												
Soil De Soil D	PSCription (BH-1 @ 10) Time Cription including percentages of gravel, sand, silt, and clay. Wn (10YR 3/2) (0,60,0,40) poorly graded sub-angular medium sand business high plasticity clay. Very stiff and moist 1	nnular Fiil Well Construction Details											
Surface (ft.) Surfac	cription including percentages of gravel, sand, silt, and clay.	Annular Fill Well Construct											
Operation of the dead of the dead operation	wn (10YR 3/2) (0,60,0,40) poorly graded sub-angular medium sand												
□ Ø a Ø Ø a Ø D O with some slow dilatancy, medium to	nughness, high plasticity clay. Very stiff and moist. 1												
- 0 alore 00 KW too gravely early	10 TR 4/1) dark arows												
ASTR WALL TO THE ASTRONOMY													
100	Tom the tocoars												
_ 2	and up to ris-in.	maded @-9,7.5											
louse, moct.		0											
4 6 444 24 5 11	6 14 40 BYO - 10 1	elush 3-5											
- 00 @ 4843 one big	2) 4843' one big rock, White, BYR 84)												
- 6 have up to	hard, up to 2-in sub-angillow												
		9 msh 3 7.5											
- 8 00 SW 9 4.3' gravely s	and tark graysto brown	Jehn the											
- CloyR UZ), We	Il smaded son of transful	J P - 10											
- 10 to count & sub-	anoular group I up to												
	101 to 30% mover												
- de croacod dy	avel percentine tolog												
- 12 00 @ 7.5-A-8A.													
	1-000												
14 No oder or station	ny observed												
- A	1 5 10 ft ms.												
- 16 Burney to implete	6 (a) (b) F 19												
- No Alamawater &	nountered												
18		1											
- Rastilled with	existing soil cutting												
- 20 RESH &	ranular bentonite,												
- 24													
-													
- 26													
- 28													
- 20													
30													
_													
-													
		1 1											



Enjinters! HZ/CL Geologist:

Boring No: Debris -3

Client: Bostem Project: 194-5733 , B	andra -Chana	Location: 4570 Francis Ave., Chan, CA		Мар:					
Elevation/Datum:		Subcontractor: Mt News		c.	ee Attached				
Sampling Date(s): 7/25/1	6	Hammer Weight:		36	ee Attached				
Sampling Method: Prad	ush 2.25-inch rods a celate	Memo: Geofobe 6600							
Drop Height:		Angle: 1320-1340	1						
DTW: 1st Static_									
ft.) in On (ppm)	USCS type in all caps followed by	Soil Description (BH-1 @ 10) Time USCS type in all caps followed by the description including percentages of gravel, sand, silt, and							

Depth Belo Surface (ft.	Blows/ 6 in Sampler Recovery	PID Reading (p	Unified Classificati	USCS type in all caps followed by the description including percentages of gravel, sand, silt, and clay. [i.e.: SC- CLAYEY SAND. Very Dark GrayIsh Brown (10YR 3/2) (0.60,0.40) poorly graded sub-angular medium sand with some slow dilatancy, medium toughness, high plasticity clay. Very stiff and moist.]	Sampler ar	Annular Fil	Well	Construc
0 2	2/ [t t	0,>	ML	(DO sandy silt, very dark grayish brown loop. very fine grained sund moist. No odor or staining observed	3/2			
4 4		0->	SW	(10 YP: 4/2), very loose well graded		Son	~ple bris-	3-5
- 6 - 8 - 8				No polar or staining observed		De	ovis-	3-7.6
- - - - 12		0.1		1843 gravel, til HEU rock 3 that long		Det	715-	3-10
- - 14		0.1	SW	1159 gravely sand, same as above				
- 16 - 18		0.1	SW	(120% gravely somd. same as above.				
20				Boring completed @ 10.66.			,	
- 22 - 24 - 24				Dody led with existing soil outing		1		
26 28								
- - 30								
-								

Boring / MW #: Pers-3

Page: //



Geologist:	HZ./C.L.	
Boring No:	Septic ton	ky

Client: 1	porster	^			Location: 4570 Francis Ave.		iviap.			
Project:	19h	733, B	moter	thino	Chino, CA					
Elevatio	n/Datum:	•			Subcontractor: Millerann					
Samplin	g Date(s)	: 7/25	116		Hammer Weight:		Se	e Attach	ed	ı
				, 225-net rocks, and be sheare						
Drop He		· VICE	- SLAS	•	Angle:					1
		Stati	ic		Aligie.					
DTW: 1	sı	Stati	C							1
		T	1	Coll Door	in Allon					3
.	5	Ê	ا ج	Soil Desci	ription (BH-1 @ 10') Time	Sampler and Bit		ı	Construction Details	
(F e	ت ک	PID Reading (ppm)	Zatić	USCS type in all caps followed by the descrip	tion including percentages of gravel, sand, silt, and	ran	Annular Fill	<u>=</u>	tails	
age E	ws/ (Ë	fied	f	clay.	nple	ular	>	onst De	
Depth Below Surface (ft.)	Blows/ 6 in (Sampler Recovery	PID	Unified Classification	[i.e.: SC- CLAYEY SAND. Very Dark Grayish Brown (with some slow dilatancy, medium tough	10YR 3/2) (0,60,0,40) poorly graded sub-angular medium sand ness, high plasticity clay. Very stiff and moist.]	San	And		O	Ì
			1	atavely						
- 0		800	SIN	10 0 Sand arayish br	oun (10/R 5/2) well grade	ļ				1
- 0				fine-course sand.		THE REAL PROPERTY.				
-				up to 1-inch, moist	loose, sub-originalow grave					ĺ
2				7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7						
F			-	No oder or staining			-			
- 4							4		70:	
- '						Sam	1801	D C	HE SEPLI	20
- 6			ļ	(96 H2)		3011		9,3	10140	٦
<u>-</u>						Sagg	1	(D) 7	FLC	
- 8) c1	70	pice	1	310	
- °		00	(1-	@8,5 flay with sow	brown (10YRH3).	1	Pept	CUW	16-1-19	-
-		- 0	-	V (00)	neclium toughness.	Sam	MPO	(a)	0#	
10			_	10 11 1	Treeting Congress.	201				
<u> </u>				very fine grained	Jona Mary	717	Sept	c ton	12-1-10	
12	-			@G2L No odor er	1 \ \ .		-			
-				2931 No ocher or	staining.					
- 14										
<u>-</u>										
- 16				0 1 1	0 10 41 / 05					
- 10				Boring completed	(G) (O) (C 193.					
-				No ground water	en countened.					ı
18					Fisting Soil and 8-20 MAP	1				
_						η				
20				granular benton 40						1
-							-			
- 22										
- 00							 			
24										
-										
26	- 1	106								
28									 	
-							 			
30										
-	7									
-										
-										
										t.

Boring / MW#: Septic Tomk-1

Page: /



Engineer Socialists Hao & Carlo Boring No: Sep tir tomb

Client: Borstein	Location: 4570 Forces hve.	Map:	
Project: 194-5733, Borsten-Chno	Chone, CA		
Elevation/Datum:	Subcontractor: Malean		
Sampling Date(s): 7/25/14	Hammer Weight:	See	e Attached
Sampling Method: Pireco-Push 12,25-inch rods, acchlester	Memo: 600 Pare 6600		
Drop Height:	Angle:		
DTW: 1st Static			
1 1	Description (BH-1 @ 10) Time lescription including percentages of gravel, sand, silt, and clay. Brown (10YR 3/2) (0.60.0.40) poorly graded sub-angular medium sand m toughness, high plasticity clay. Very stiff and moist.		tion ti
으로 트 및 ISCS type in all cape followed by the d	lescription including percentages of gravel, sand, silt, and		Well Construction Details
Opepth Belon Surface (ft.) Sample: On Thirtied Classification (p. 1975) On Thirtied (p. 1975) On Thirtied Classification (p. 1975) On Thirtied Classification (p. 1975) On Thirtied Classification (p. 1975) On Thirtied Classification (p. 1975) On Thirtied Classification (p. 1975) On Thirtied Classification (p. 1975) On Thirtied Classification (p. 1975) On Thirtied Classification (p. 1975) On Thirtied Classification (p. 1975) On Thirtied Classification (p. 1975) On Thirtied Classification (p. 1975) On Thirtied Classification (p. 1975) On Thirtied Classification (p. 1975) On Thirtied Classification (p. 1975) On Thirtied Classification (p. 1975) On Thirtied Classification (p. 1975) On Thirtied Classification (p. 1975) On Thirtied Classification (p. 1975) On Thirtie	Clay.	Annular Fill) Sinc
G 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등	m toughness, high plasticity clay. Very stiff and moist.)	₹	
- 100 SW @ gravely sow	and, gravish brown love stell		
0 100		+	
- well graded fine	to course sand louse	+	
- Wo dor or Stark	199.	-1	
E-4	Sam	pled @	544
	120	C 21	e tank-2-4
6		1177	C ump - Z - S
	San	MAY G	7.9/6
- 8 0.0 C.L @ 8.5' Clay with	Sand, moun (10 YR 4/3) H	5 500-4	c tomp-2-7
- 10 Media m Place is the	modium towards	11-4-1	
- 10 Len true aring	San Mar Maist	med (D 1044
-	30000	71	
12 12	publicy 71	7 542	ie there?
- 14		#=	
- 16 Boxing completes	@ 1014645		
- 16 Day drei mawater	encountered		
- 10 Packfilled with	1 existing soil and 8-20 Most		
- 18 grandow benton			
- 20			
- 20			
- 22			
24			
- 26			
- 20			
28			
- 30			
- 7		1	

Boring/MW#: Spptic tank-2

Page: /

Su tar Laboratories, Inc.

Chain of Cuady Record

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive, Lake Forest, CA 92630 949-297-5020

Client: Tetra ledy	R.			D	ate:_	07	175	5/1	6			1		Pag	e:	1	Of	5					
Address: 17885 Von Ke	avracia Ane	. , Irdin	e, CH 93	614			Р	roject	Nar	ne:_	3	075	tri	7-61	hin	7							
Phone: 19491809-50	38	Fax: 1941	91809-5	010	7			-				200					Clie	nt Pro	iect#:	194-5	733	7.4	
Project Manager: Row								atch a										#:		7 -1			
		4																					
Proposition of the Control of the Co			* *				8260 BTEX, OXY only		8015M (gasoline)	el)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	CCP.	Only		#0						Total # of containers
			*	1 m		≽	Ä.	8021 BTEX	gas	8015M (diesel)	xt./	00	P-M	R			aboratory ID						95
	_					+	<u> </u>	E	Σ	M	M	0//0	<u>C</u>	TX	CSEN:C		ratc		-				#
Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	260	8260	12	015	015	015	010	020	8	A		apo		Commo	onte/Pro	servative	2	otal
14CB-01-0.5	7/25/16	134	Soil	Hierate Steve	18	8	∞ «	- -	®	8	8	9	9		X				Comme	511(5/1716	Servative		
TESB-01-2.5	1	0725	1	A THE THE PARTY OF				. 7							16 No.			i	IOLD			1.20	
T4 SB-01-50	a delivery of the second	1136		\Box	\neg	\top											1	1		1 2 6			
- 45R - V2-0.5		0790		upan)		\neg		1									1.5		1				
TESP-12-15	- Charles	0745	1	V. 3		\neg				7									- Inches				
74513-12-3,5		0750	1	eribuse.									24			3	ž :		-				
1 HSB-62-50	Lebymore	0751		Photos wa			*										-			, ke "			
TK 58-05-0.5	The state of the s	0803		1								-											
TX-58-03-15	Brady-mil.	0004		The section and the section an		-													and the second	•		* *	
7-158-03-2.5	19	0805				10																	
TH CK - 02 - 3.5	The state of the s	0506					4	ď				100					-	-			F .*		
T4 SB-03-50	4.	0507			1		100			Ш							1	-	*	,			
74-58-04-015	-	0814			\sqcup	_		۹.		Ш		1	-		X		-		OLD				
THSB-04-15		08:15			2 4	\rightarrow		1	, , ,										HOLP				20
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Providing Quality Analytical Services Nationwide
25712 Commercentre Drive, Lake Forest, CA 92630
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Su tar Laboratories, Inc.

Chain of Cuady Record

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive, Lake Forest, CA 92630 949-297-5020

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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Providing Quality Analytical Services Nationwide
25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

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PACIFIC COAST LOCATORS, INC.

2606 Foothill Boulevard • Suite G • La Crescenta, CA 91214 Cell (818) 679-2037 • Office (818) 249-7700 • Fax (818) 249-7701

GPR • Video Pipe Inspection • Utility Line Locating • Leak Detection • Vacuum Excavating

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2606 Foothill Blvd. • Suite G • La Crescenta, CA 91214-4568

Contact: Don Greenman, Cell: (818) 679-2037 Office: (818) 249-7700 • Fax: (818) 249-7701

Utility Checklist

Date: <u>+-21-16</u>
Customer: TETRA TECH
Job Location: Former Murcy / Form Cand 4570 FRANCIS ANT
Contact: HAO Zhang Phone: 624 - 840 - 78 - 43
Project / Job#: Bone STEINI Chind
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Remove all water meter covers to ensure that there are no additional water meters to be located.
Water Lines from Air/Water dispenser to building:
Irrigation Lines:
Electrical Line from pole / transformer to electrical panel: our head
Electrical lines for area lighting:
Electrical Lines for electric signs:
Veeder Root lines from station to dispensers:
Telephone Line from pole or vault to building:
Telephone Line from public telephone to building:
Cable Line from pole or vault to building:
Natural Gas Line from meter to building
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Experience Summary

Environmental Scientist/Planner with more than four years of environmental consulting experience consisting of conducting Phase I and II environmental site assessments, Environmental Impact Reports, IS-MND, and other CEQA related documents. Has experience with storm water consulting and Clean Water Act. Manages a variety of projects to satisfy client objectives.

Education

BS, Earth and Environmental Science, University of California, Irvine, 2009

Registrations/Certifications

N/A

Training

N/A

Corporation Project Experience

Project Scientist/Planner, December 2015-Present

Zelman Retail Partners, Inc., Yorba Linda Town Center Phase I Environmental Site Assessment, Yorba Linda, CA - January 2016

Prepared a Phase I Environmental Assessment on behalf of Zelman Retail Partners, Inc. (Zelman) of the real estate parcels comprising the proposed development footprint of the Yorba Linda Town Center project in the City of Yorba Linda, California. This ESA was performed in accordance with American Society for Testing and Materials (ASTM) Standard E1527-13 and All Appropriate Inquiries (AAI) Final Rule 40 CFR Part 312. The objective of this Phase I ESA is to identify recognized environmental conditions (RECs) in connection with the Site. ASTM defines a "recognized environmental condition" as: "the presence or likely presence of any hazardous substances or petroleum products on a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment." This Phase I ESA is to be utilized for purposes of satisfying All Appropriate Inquiries, including as those requirements relate to the California Land Reuse and Revitalization Act.

Bombardier Transportation, North County Transit District Environmental Compliance Program/Environmental Hazard Procedures Manual, San Diego County, CA - February 2016

Prepared an Environmental Compliance Plan and Environmental Hazards Procedures Manual on behalf of Bombardier Transportation (Zelman) for the existing and future rail operations maintained by the North County Transit District within the County of San Diego. The Environmental Compliance Program for Operations is intended to manage the transfer, updating, implementing, and record keeping for all plans, permits, licenses, and certificates to North County Transit District from the previous operator and was prepared in compliance with all Federal, State and local environmental laws and regulations. The Environmental Hazard Procedures Manual is intended to address all uses of hazardous waste and materials on NCTD property. Procedures included, but were not limited to spill prevention and control (including a formalized description of Contractor's emergency/spill response team and chain of command for all applicable NCTD property locations), hazardous materials and medical waste handling, hazardous materials or waste generators (not limited in size), an emergency/spill response team and chain of command for all applicable NCTD property locations. The procedures were developed in compliance with NCTD policy and all applicable local, State and Federal environmental laws and regulations.



Previous Experience

Planner I/CEQA Analyst/Environmental Consultant, September 2013–November 2014 ATKINS, Los Angeles, CA

Applying standard planning techniques, procedures and criteria in carrying out a sequence of diversified planning tasks requiring the use of analysis, interpretation, and deductive reasoning. Working closely with Project Managers to research, write, revise, and edit text for CEQA reports and planning documents such as Environmental Impact Reports, Initial Studies, Negative Declarations and Mitigated Negative Declarations. Preparing application forms and public notices, reviewing, analyzing and critiquing technical reports, attending meetings. Coordinating with public agencies, clients, and project teams. Completing LEED Certification Credits for the Redondo Intermodal Transit Center in Green Building Design & Construction. Specific Project Experience includes:

- Costa Mesa 125 East Baker Street Apartments EIR, Costa Mesa, CA. Planner I for the Utilities/Service Systems Section of the DEIR.
- East LA 3rd Street Specific Plan EIR, Los Angeles, CA. Planner I for the Hazards, Public Services, Recreation, and Utilities/Service Systems Sections of the PEIR.
- Harbor Bay Residential & Athletic Club EIR, Alameda, CA. Planner I for the Geology, Hazards/Hazardous Materials, Hydrology, and Utilities/Service Systems Sections for the PEIR.
- South San Francisco Downtown Area Plan EIR, South San Francisco, CA. Planner I for the Alternatives, Recreation, Utilities/Service Systems Sections of the DEIR.
- Rancho Murrieta Well Augmentation Initial Study-Mitigated Negative Declaration, Rancho Murrieta, CA.
- Planner I for the Hazards Section of the IS-MND.

Field Representative, April 2013—September 2013 FROG ENVIRONMENTAL, Long Beach, CA

Consulted industrial businesses in compliance with EPA's Clean Water Act, SWRCB and NPDES permits. Conducted storm water inspections and gathering pertinent data for Annual Reports.

California Project Manager/Environmental Assessor March 2013—September 2013, November 2014-December 2015

FULCRUM RESOURCES ENVIRONMENTAL, Los Angeles, CA

Completed Phase I Environmental Site Assessments in compliance with the ASTM Standards for All Appropriate Inquiry. Conducted site inspections and interviews with regulatory agencies, owners, tenants and neighbors.

Project Manager/Environmental Assessor, October 2012—September 2013 ACER ENVIRONMENTAL, Northridge, CA

Completed Phase I Environmental Site Assessments in compliance with the ASTM Standards for All Appropriate Inquiry. Conducted site inspections and interviews with regulatory agencies, owners, tenants and neighbors.

Project Assistant, July 2012—January 2013 DMG, INC. Irvine, CA

Assisted, reviewed and compiled Phase I Environmental Assessment reports remotely. Reviewed Property Condition Assessment reports for Project Managers.

Tomoki Demers

Environmental Scientist/Planner



Account Manager, June 2011—April 2013 DATAPPOINTMENT, INC., Brentwood, CA

Managed patient recalls for several private practices, scheduling appointments through remote access software. Confirmed daily appointments, verifying insurance information, following up with personal, punctual, and polite phone calls.

Project Manager/Environmental Assessor, December 2010—May 2011 ANDERSEN ENVIRONMENTAL, INC., Culver City, CA

Completed Phase I Environmental Site Assessments in compliance with the ASTM Standards for All Appropriate Inquiry. Completed scaled site plans/plot plans in AutoCAD for use in Phase I and Phase II Environmental Assessment Reports.

Publications & Presentations

N/A

Professional Accomplishments

N/A

Professional Affiliations

N/A

Discipline Codes

Environmental Scientist, Mid-Level Environmental Planner, Mid-Level

Skill Set

CHEMICAL SCIENCES

Air Sampling, Groundwater/Surface Water Sampling, Preliminary Assessment/Site Investigation and Soil/Sediment Sampling

GEOSCIENCE

Geochemistry – Organic, Geochemistry – Water Quality, RCRA / CERCLA, Sampling – Groundwater, Sampling - Soil

Professional References

Julian Capata, Project Manager, PMC, 310-713-5897, jcapata@pmcworld.com

Related Company Information

Payroll Number: 549759 Employment Status: Full-time Preferred First Name: Tomo Office Location: Irvine, CA Hire Date: 12/14/2015 Years with Other Firms: 4 Years with Current Firm: 0 Total Years' Experience: 4

Supervisor: Michael J Crews, Senior Geologist

Office Phone: (949) 809-5000 Cell Phone: (805) 551-8174

Fax:

E-mail Address: tomo.demers@tetratech.com

Tomoki Demers Environmental Scientist/Planner



Other E-mail Address (if any): tomokidemers@gmail.com

Resume Last Revised: 03/08/2016



Experience Summary

An environmental project and technical manager with 25 years of experience. Many of his projects involve redevelopment or brownfields. He has managed projects involving remedial investigations, remedial actions, remediation implementation/operation, site investigations/assessments, Phase I & II ESA's, surface water & groundwater programs. He has written proposals, met with clients and obtained new work, and managed scopes and budgets.

- Led disciplines as project manager, client manager, technical lead.
- Client experience includes major commercial (chemical, industrial, petroleum, real estate, transportation, communications), municipal (transportation authorities, schools, public works), U.S. Department of Defense (Navy, DESC, and Air Force).
- Many of his projects have involved redevelopment or new construction.
- Managed staff, and performed annual and semiannual evaluations of personnel.
- Oversaw remediation of sites including chemical injection, excavation, and vapor extraction.
- Obtained closures on numerous sites involving metals, volatile organic compounds (VOCs), hydrocarbons, and/or semi-VOCs.
- Brings in significant revenue from his clients (i.e. greater than \$2.3 million since 2011)
- Leads and supports proposal efforts of various sizes, and has been awarded many new contracts from new clients. Participates in marketing efforts with potential clients.
- Interfaces w/ DTSC, RWQCB, Fire, County and local agencies working toward, and obtaining site closures.
- Oversees subsurface geological and hydrogeological interpretations.
- Performs natural attenuation evaluations, performs indoor air/vapor migration assessments.
- Participates in public meetings and public participation

Education

MS, Geological Sciences, San Diego State University, 1989 BS, Geology (Magna Cum Laude), California Lutheran University, 1984

Registrations/Certifications

Professional Geologist, CA No. 5501, 1992

Registered Environmental Assessor II, CA No. 20037, 1999 (no longer supported by State)

Training

Project Management Certificate Classes, UC Irvine

Leadership Training, "Leadership for Results", by AchieveGlobal, October 10, 2003

Storm Water Professional Class

Professional Ethics Training,

Corporate Team Building and certified Project Manager and Principal - MACTEC

Contracts and subcontracting training through AMEC



Corporation Project Experience

Previous Experience

Project Manager,

Soil and Groundwater Investigation, Remediation and Closure Services for a former Chrome Plating Facility Site, Confidential Client, South Bay Area, CA

As Project Manager was responsible for budget, schedule, and client satisfaction. Initially began the project as a Principal Geologist but moved into the Project Manager role (for three years).

- Provided Principal oversight of site assessment and groundwater monitoring with the focus on hexavalent chromium contamination.
- Under his management an Interim Remedial Action Plan was written to address hexavalent chromium in soil;
- o The preferred remedial alternative: injection of calcium polysulfide to reduce hexavalent chromium to chromium Ill. Baseline soil sampling was performed;
- o A Waste Discharge Requirement permit was obtained.
- o Three rounds of chemical injection were completed followed by confirmatory sampling.
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- His team produces a Health Risk Assessment for indoor and outdoor exposures (air and soil) was submitted and a Case Review was completed.

Project Manager

Former Foam and Latex Manufacturing Site Property (Confidential Client), Site Investigation and Remediation, South Bay Area, Los Angeles, CA

- Long-term client. Manage complex 5-acre site where latex and other chemical products were manufactured and a Temporary Storage Disposal Facility (TSDF) once operated.
- Responsible for characterization of the subsurface for chlorinated solvents and other VOC's, 1,4-dioxane, and hexavalent chromium in the vadose zone (soil and vapor) and groundwater.
- Led implementation of various field methods including Membrane Interface Probe, CPT, direct push sampling, grab groundwater sampling and vapor probe installation and sampling.
- Oversaw installation of four monitoring wells have been installed and monitored and several others
 are planned. Ten nested vapor probes have been installed and monitored.
- Managed the excavation of 660 tons of VOC-impacted soil from two hotspots.
- Managed a Soil Vapor Extraction design, and implementation is planned in accordance with the approved remedial action plan.

Program Manager

Environmental Services for Redevelopment of Los Angeles County Hospital Property, Los Angeles County Department of Public Works, Los Angeles County, CA

- Managed contract task orders pertaining to performing site investigation/assessments for portions of a 100-acre area of land in Downey. The site had been subdivided into 13 Areas.
- Responsible for performing environmental site assessments of eleven areas. Some areas required risk
 evaluations.
- Reviewed existing reports of eight USTs and investigated five USTs, four pesticide storage facilities, hazardous waste storage facilities, transformers, generators. Recommendations were made for construction/redevelopment purposes.



 Oversaw the removal of USTs, wrote the UST closure reports for eight UST removals and gained case closures for the client.

Principal and Site Manager

Former Metal Die-Casting Facility, Los Angeles

Former die-casting facility impacted by chlorinated VOCs, benzene, and hydrocarbons. The hydrogeology and geology beneath the site were complex due to the Newport-Inglewood Fault Zone being located nearby. The following work was performed at this site:

- Led team that performed soil sampling of 36 soil borings under his oversight.
- Oversaw 6 groundwater monitoring wells were installed and 22 wells were monitored.
- Obtained an access agreement with the current owner.
- Under his supervision 200 tons of high PCE contaminated soil was excavated inside of a building as part of a remedial action. Procured the excavation contractor.
- Coordinated with the client, technical, and legal team on strategies to address data gaps and toward obtaining closure of the shallow groundwater.
- In charge of offsite characterization of chlorinated solvent plumes in shallow and deep groundwater zones using CPT, soil and groundwater sampling, well installations and groundwater monitoring. A groundwater RAP has been submitted recommending closure of shallow groundwater and further investigation.

Project Principal

Confidential Fortune 500 Client, RCRA Facility Investigation and Risk –Based Closure, Former Photo-Chemical Processing Plant, Vernon, CA

Led a team through a Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) at a site where formerly a photo-chemical processing plant had operated. Contaminants included TCE and acids. Under a Consent Order Agreement, investigation of the site included investigating soil gas, subsurface soil, concrete, groundwater; and finally subslab vapor. The site was regulated by the Department of Toxic Substances Control.

- Responsible for over 38 borings and 25 soil gas probes were installed and sampled. Four
 groundwater monitoring wells were installed and monitored for two years. Analyzed for metals,
 volatile organic carbon compounds, and semi-volatile organic compounds.
- Responsible for delineation of low pH soils below a former interceptor pit/clarifier that had leaked.
- Utilized field pH measuring instruments that could reach a pH of 1 as well as lab sample analyses.
- Wrote a final RFI report and prepared and a case closure with a Land Use Covenant. The Site has been closed by the DTSC.

Project Manager Major Hotel

Dry Cleaning Area, Site Assessment and Site Closure, Downtown Los Angeles, CA

Project Manager of a Phase II site assessment, feasibility study, risk assessment and closure at a site in downtown L.A. where dry cleaning operations were ongoing.

- Worked closely with the RWQCB-LA to characterize the shallow soils and groundwater contaminated with low levels of tetrachloroethylene (PCE).
- Under his management crews sampled soil, soil gas, and groundwater.
- Oversaw installation of five groundwater monitoring wells using limited-access rig.
- Wrote site assessment report and developed Remedial Action Plan.
- Demonstrated that groundwater was not threatened and obtained closure from RWQCB.



• \$400,000 budget brought in and managed. Client satisfaction fetter.

Task Manager

Metro Westside Subway Extension Project, Advanced Conceptual Engineering and Preliminary Engineering Phases of Purple Line, Parson's Brinkerhoff Subway Team Contract with MTA, Los Angeles and Santa Monica, CA

Project principal and major task manager, in charge of collecting and compiling dangerous gases data along the proposed alignment on Wilshire Boulevard (Miracle Mile).

- Participated in planning stages reviewing EDR reports, delineating problem areas of line.
- Managed subsurface gas investigation and assessment along the proposed Line alignment.
- In charge of assessing dangerous gases including installation and sampling of 23 new multi-stage wells along a busy traffic corridor as well as the sampling of 30 existing vapor wells. The additional deep vapor concentration data and flow data enabled designers and planners to position the stations and drill shafts. Vapor data was key in understanding health and safety requirements during the design and construction phases of the tunnel project.
- Wrote sections for the preliminary design report and made recommendations for controlling gases.

Project Manager, O&M Services, Chevron El Segundo Refinery, CA

Managed a crew of six technicians who worked full time at the refinery providing O&M services for the environmental department at the refinery.

- Services included system maintenance, troubleshooting and management, regulatory permitting and response. Were awarded several health and safety awards. \$400K budget.
- Decommissioning and Redevelopment at Former Refrigerant and Acid Manufacturing Facility, Fortune 500 Company, El Segundo, CA. 2004-2010
- Performed site management during remediation and new construction at 46-acre former refrigerant manufacturing facility Site. Site was developed into a high end award-winning shopping/home center.
- Oversaw safety, regulatory compliance, and quality control during remediation (dig & haul; vapor extraction system installation) and construction activities.
- Oversaw protection of 26 groundwater monitoring and 36 vapor wells.
- Provided oversight and documentation during the installation of vapor capture and venting systems, and vapor barriers beneath the new buildings.

Site Inspection, Naval Weapons Station Seal Beach, Seal Beach, CA

Coordinated two investigative crews for 1.5 months in the field including lab and waste management.

Focused Site Inspection, Seal Beach Naval Weapons Station, Seal Beach, CA

Investigated eight sites with surface water and soil contamination impacts including hydrocarbons, solvents, waste oil, acid, and metals.

Ground & Surface Water Assessments/Geophysical Studies, Vandenberg AFB, CA

Performed groundwater/surface water assessments and geophysical studies (including a GPRS) of three sites. Provided oversight on an ORC barrier injection. Performed a remedial action plan for a VOC-impacted site. Met with AFCEE, Base, RWQCB, and DTSC. Managed contracts.

Investigation and Remediation Projects toward Closure of Marine Airfield Stations El Toro and Tustin, U.S. Navy, Southwest Division, CA

Managed three delivery orders of \$2.5, \$3 and \$6 million budgets to remediate and close sites for future development. Regularly attended team and program meetings with Navy managers. Conducted monthly



budget and progress reporting and coordinated with cost/schedule engineers. Some of the project activities he managed included:

- UST removals of up to 100,000-gallon tanks; soil excavation; verification drilling; 50 UST sites closed under his oversight. Groundwater assessments;
- Closed 40 temporary hazardous waste storage units under RCRA, using risk analysis.
- Conducted testing, O&M, and optimization of plume remediation product (jet-fuel) removal system, including extraction wells, augmented with vapor extraction system of -50,000-gallon plume at a site with complex geology. Abandoned monitoring and water supply wells.
- Managed the abandonment of 20 groundwater monitoring wells and one deep water supply well.
- Coordinated with Air Station personnel regarding health and safety around jets, transport planes, cargo planes, and helicopters.
- Natural attenuation study of multiple plumes through water chemistry analysis.
- Managed SVE well testing (40 wells) at large regional chlorinated plume hot spot (vadose zone).
- Data were utilized in designing final multi-million-dollar system at Hangar 60.

Remedial Action Contract, U.S. Navy and Marine Installations Southwest, Remedial Investigation, Marine Corps Air Station Yuma, AZ

Part of team that implemented "Observational Method" (real-time characterization of Superfund site). Managed 20 people. Soil-gas survey, 3-D modeling, Hydropunch groundwater sampling, and lithologic logging and sampling of 1,000 CPT borings. Characterized fuel spill and landfill sites.

Site Assessment/Feasibility Study Oversight, City Redevelopment Anaheim, Anaheim, CA

Provided oversight for an on-site assessment/feasibility study at former industrial lock plating facility that was to be redeveloped for residential (low and middle income) and commercial uses.

San Pedro Defense Fuels Supply Center, Los Angeles County, CA

Managed fuel remediation project at large tank farm and distribution center. Implemented and operated a duel-phase system with total fluids recovery. Monitored discharge water for NPDES requirements. Assisted in renewing permits with LARWQCB. Recovered cost by recommending reduced analytical monitoring program. Performed hydrocarbon source characterization study around pipelines using Rapid Optical Screening Tool (ROST) testing.

School Site Evaluations, Preliminary Endangerment Assessments, Remedial Investigations, Feasibility Studies, Los Angeles, CA

Managed teams of people for \$2 million contract covering preliminary environmental assessments, remedial investigations/feasibility study, remedial action plan, and phase I site assessments for several school sites throughout Los Angeles area; included one school site on the State superfund list (former dump site in Cudahy). Worked with Cal-EPA/DTSC on nine PEAs and two Rls, including: work plan, design and install wells, sampling soil vapor, outdoor air, soil, groundwater, drinking water; performed risk and toxicology assessment, and budget & schedule management; worked with the client on a daily basis. High profile sites with variety of contaminant situations. Responsible for assisting in public participation, and risk communication. Involved in organizing 8 public meetings and presentations. Coordinated with LA City and County Sanitation for sites involving landfill issues.

NEPA Phase I ESAs and Cultural Studies and Permit Compliance, Cell Towers, Cingular

Performed 80 Phase I due diligence assessments for a cellular company expansion.



Publications & Presentations

- Neuhaus, J.N., Joseph Trani, Daoud Alsawaf, 2003, "Enhancing Hydrocarbon Recovery in the Vadose Zone", Joint Services Pollution Prevention Conference, San Antonio, Texas, Abstracts.
- Gastil, R.G., J. Neuhaus, M. Cassidy, et al, 1999, "Geology and Paleontology of Southwestern Isla Tiburon, Sonora, Mexico", Revista Mexicana de Ciencias Geologicas, Vol. 16, No. 1 Geological Society of Mexico, Mexico City.
- Neuhaus, J.N., S. Lin, and D. Guth, 1994, "A Background Geochemistry Study of Soils and Groundwater, NWS Seal Beach, "Abstracts with Programs, Geological Society of America, Cordilleran Section, Vol. 26, No. 2.

Professional Accomplishments

National Safety Council Award for work at Chevron Refinery Chevron Products Company Gold Award